



**BT**



IPE SYSTEM  
INFINITE  
PLUS

**EXTREME**

*PrimeTool*





# COMPANY INTRODUCTION

Uncompromising Quality Utilizing State-of-the-Art Facilities and Equipment



## DMG-MORI Multitasking CNC Machines

- ◆ The work piece is completed in a single set-up.
- ◆ Assures the best qualities at the first step.

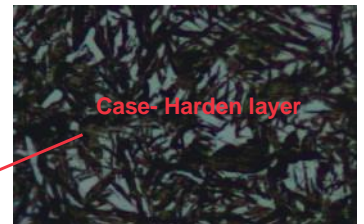
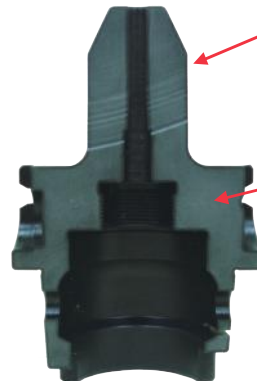
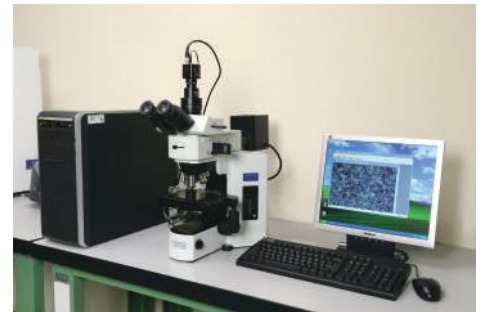


## STUDER State-of-art Grinding Machines

- ◆ Multitask CNC grinder with flexible grinding functions.
- ◆ External or internal diameter, thread, facing, or profile can be ground in same process.
- ◆ High-resolution B axis 0.0001°
- ◆ High precision in-process measuring system.
- ◆ Guarantees the highest levels of precision and repeatability.



High Precision Measuring and Quality Assurance Inspection Equipment



# QUALITIES OF *PrimeTool* TOOL HOLDERS

## • PRODUCT FEATURES

PrimeTool toolholders are manufactured using state-of-the-art technology and the latest HSM concepts. Our products are of the finest quality and highest durability. The best choice for high-precision and high speed machining.

● Taper, faces and V-flange are ground in a single process

● ID bore taper, faces and thread were ground in a single process

● Pre-Balanced ER collet nut design

● Taper Angle Tolerance :AT3+ or better  
100% dimension check using high precision in-process measuring systems

● Seating Runout:0.00012" ( 0.003mm)

● 4D Runout w/AA collet:0.0002" ( 0.005mm)  
4D Runout w/A collet:0.00039" ( 0.010mm)

## • TAPER ANGLE TOLERANCE : BETTER THAN AT3<sup>+</sup>

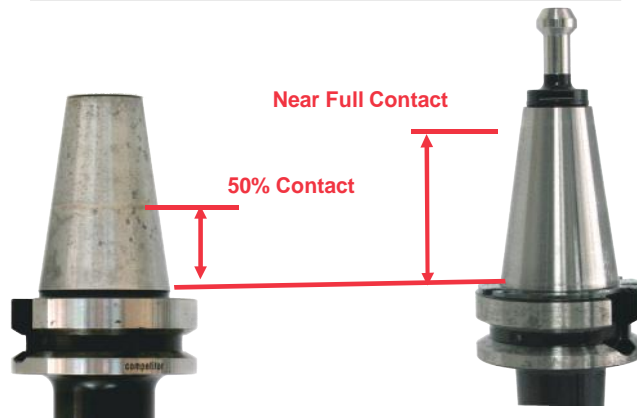


### Machining requirements for AT grade : (ISO1947)

Grade	Description
AT5	The loosest fit and a poor choice for precision machining.
AT4	Acceptable for normal everyday machining.
AT3	Precision fit. Lowest standard for high precision machining.
AT2	High precision fit and close to "gauge" quality, suitable for high precision machining.
AT1	Highest fit and equal to "gauge" quality.

### DIN 2080 STANDARDS AT grade standards:

Grade	ATD				
	AT1	AT2	AT3	AT4	AT5
Taper No					
SK30			2μ	3μ	5μ
SK40	1.3μ	2.0μ	3μ	5μ	7μ
SK50	1.6μ	2.5μ	4μ	6μ	9μ



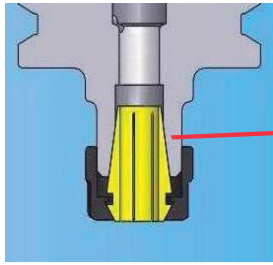
**AT5 Grade: Other Suppliers**

- ◆ Damages expensive spindles
- ◆ Degrades machining precision
- ◆ Increases machining costs
- ◆ Fretting corrosion on the taper
- ◆ Less precision than your competitors

**AT1 Grade: PrimeTool**

- ◆ Protects expensive spindles
- ◆ Upgrades machining precision
- ◆ Lowers machining costs
- ◆ Better precision than your competitors

## • ID BORE, FACE and THREAD are Ground in a Single Process



- ◆ Studer Multitask CNC grinders with flexible grinding features that offers state-of-art quality.
- ◆ The highest precision.
  - The ID bore, OD and thread are ground in a single process.
- ◆ **Seat Runout of ID bore: 0.003mm ( 0.00012")**
- ◆ Better machining precision
- ◆ Better surface finish
- ◆ Extended tool life

## • PRE-BALANCED ER NUT DESIGN

- ◆ Reducing unbalance variance after multiple uses
- ◆ Hard surface treatment of the nut resists wear and damage from gauling, and extend tool life.
- ◆ Flexible design allow the use of different nuts, such as: Mini, Standard, High-Balanced, or Coolant Nut...



Mini Nut



Hex



Spanner



Ball Bearing Nut

Coolant Nut

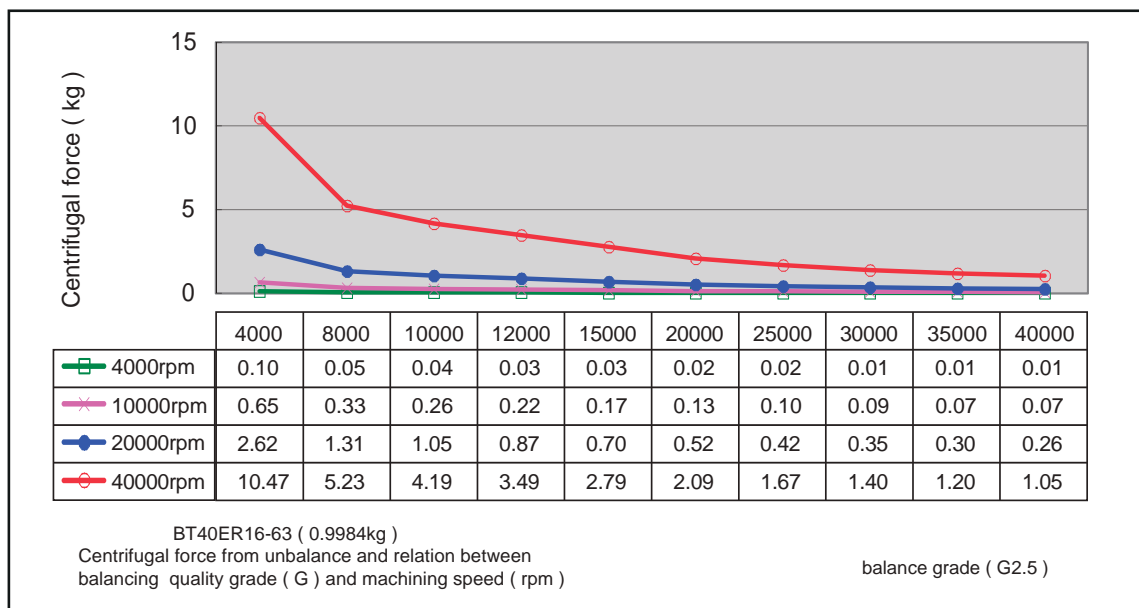


Ball Bearing Coolant Nut



## • BALANCING

- ◆ Extended tool life, better dimension accuracy, improved surface finish, increased productivity and lower machining cost.
- ◆ G6.3 25000 rpm as standard.
- ◆ Option to G2.5 25000 rpm or higher.
- ◆ Reducing cutting force and vibration.
- ◆ Example: balanced to G2.5,4000 rpm (see table)
  - Spindle cutting force at 4000rpm : 0.10kg (0.23 lb)
  - Spindle cutting force at 40000rpm : 10.47kg (23.46lb)
- ◆ Example: balanced to G2.5,40000rpm (see table)
  - Spindle cutting force at 4000rpm : 0.01kg (0.02 lb)
  - Spindle cutting force at 40000rpm : 1.047kg (0.235lb)



# CONTENTS - BT SHANK TOOL HOLDERS:

## STANDARD TOOL HOLDERS:

- Wide applications for general and high-precision machining.
- All toolholders are manufactured using cutting-edge technology and machines.
- Using holders of finest quality ensures that the machine shops achieve maximum efficiency with the highest precision.

	Roughing	Finishing	Fine Finishing	Hard Milling
Slotting	✓	✓	✓	✓
Side Milling	✓	✓	✓	✓
Contour Milling	✓	✓	✓	✓
Profiling	✓	✓	✓	✓

	Aerospace	Automotive	Die/Mold	Power/Energy	Medical	General Machining
Application	✓	✓	✓	✓	✓	✓



P16-17

**M20**  
ER Collet Chuck  
**MINI NUT**



P18-21

**020**  
ER Collet Chuck



P22-25

**030**  
End Mill Holder  
**COOLANT SLOT**



P26-29

**040**  
End Mill Holder



P30

**070**  
Morse Taper Holder



P31

**080**  
Morse Taper Holder  
**THREAD**



P32-33

**100**  
Shell Milling Holder  
**COMBI**



P34-37

**120**  
Shell Milling Holder



P38-41

**130**  
Shell Milling Holder  
**COOLANT SLOT**



P42-43

**140**  
Drill Chuck Arbor



P44-45

**200**  
Screw - In Holder



P46-47

**210**  
Slim Collet Chuck



P48-51

**220**  
Shrink - Fit Holder  
**4.5°**



P52-55

**240**  
Shrink - Fit Holder  
**3°**



P56-57

**250**  
Shrink - Fit Holder  
**3° SLIM**



P58

**310**  
Blank Arbor



P59

**G000**  
Test Arbor  
**HOLLOW**



P59

**GS00**  
Test Arbor  
**SOLID**



P60

**M000**  
Gap Gauge

# E SYSTEM TOOL HOLDERS - EXTREME DUAL FACE CONTACT

## DUAL FACE CONTACT TOOL HOLDERS - STANDARD SPINDLE

- **EXTREME SYSTEM (E SYSTEM)** is an advanced, high-performance tooling system for BT taper HSM via dual-face contact between shank and spindle.
- **E SYSTEM** is the best solution to overcome Z axis movement problems for BT taper while machining over 8000 rpm.

- EXTREME productivity
- EXTREME precision
- EXTREME surface finish quality
- EXTREME tool life
- EXTREME chatter-free machining.

● Patent No: US:7341411, DE:102006027247.1



				
P 65-67	P 68-71	P 72-75	P 76-79	P 80
<b>M21</b>	<b>021</b>	<b>031</b>	<b>041</b>	<b>071</b>
<b>ER Collet Chuck</b>	<b>ER Collet Chuck</b>	<b>End Mill Holder</b>	<b>End Mill Holder</b>	<b>Morse Taper Holder</b>
<b>MINI NUT</b>		<b>COOLANT SLOT</b>		
STANDARD SPINDLE	STANDARD SPINDLE	STANDARD SPINDLE	STANDARD SPINDLE	STANDARD SPINDLE

				
P 81	P 82-83	P 84-87	P 88-91	P 92-93
<b>081</b>	<b>101</b>	<b>121</b>	<b>131</b>	<b>141</b>
<b>Morse Taper Holder</b>	<b>Shell Milling Holder</b>	<b>Shell Milling Holder</b>	<b>Shell Milling Holder</b>	<b>Drill Chuck Arbor</b>
<b>THREAD</b>	<b>COMBI</b>		<b>COOLANT SLOT</b>	
STANDARD SPINDLE	STANDARD SPINDLE	STANDARD SPINDLE	STANDARD SPINDLE	STANDARD SPINDLE

				
P 94-95	P 96-97	P 98-101	P 102-105	P 106-107
<b>201</b>	<b>211</b>	<b>221</b>	<b>241</b>	<b>251</b>
<b>Screw - In Holder</b>	<b>Slim Collet Chuck</b>	<b>Shrink - Fit Holder</b>	<b>Shrink - Fit Holder</b>	<b>Shrink - Fit Holder</b>
		<b>4.5°</b>	<b>3°</b>	<b>3° SLIM</b>
STANDARD SPINDLE	STANDARD SPINDLE	STANDARD SPINDLE	STANDARD SPINDLE	STANDARD SPINDLE

		
P 108	P 109	P 109
<b>311</b>	<b>G001</b>	<b>GS01</b>
<b>Blank Arbor</b>	<b>Test Arbor</b>	<b>Test Arbor</b>
	<b>HOLLOW</b>	<b>SOLID</b>
STANDARD SPINDLE	STANDARD SPINDLE	STANDARD SPINDLE

# E SYSTEM TOOL HOLDERS - EXTREME DUAL FACE CONTACT

## DUAL FACE CONTACT TOOL HOLDERS - BBT SPINDLE

- **EXTREME SYSTEM (E SYSTEM)** is an advanced, high-performance tooling system for BT taper HSM via dual-face contact between shank and spindle.
- **E SYSTEM** is the best solution to overcome Z axis movement problems for BT taper while machining over 8000rpm.
  - EXTREME productivity
  - EXTREME precision
  - EXTREME surface finish quality
  - EXTREME tool life
  - EXTREME chatter-free machining.
- Patent No: US:7341411, DE:102006027247.1





# I SYSTEM TOOL HOLDERS - INFINITE

- **INFINITE SYSTEM (I SYSTEM)** is an advanced, high-performance tooling and flexible modular system.
- **I SYSTEM's** reversed ER collet is innovative design provides higher clamping force and smaller nose OD of nuts than conventional ER collet chucks.
- **I SYSTEM's** flexible innovative design provides a modular system that is quick and easy to assemble, highly accurate and rigid.
  - INFINITE Combinations
  - INFINITE Flexibility
  - INFINITE Tooling Efficiency
  - INFINITE Rigidity
  - INFINITE Applications
- Patent No:
  - TW: M319813, M319814, M322299, I 334371,
  - US: US 7628571, US 8262095, US 8888420
  - DE: DE 102007031458, DE102008037868
  - CHINA: 2007/0111455.0, ZL 2007/0111135.5, ZL 2008 1 0146711.4
  - JAPAN: 4911713.



P 114

**920  
CAT  
ER COLLET CHUCK  
REVERSE**



P 114

**926  
CAT  
IR BASE  
EXTENSION**



P 116

**920  
BT  
ER COLLET CHUCK  
REVERSE**



P 117

**926  
BT  
IR BASE  
EXTENSION**



P 115

**920  
SK  
ER COLLET CHUCK  
REVERSE**



P 115

**926  
SK  
IR BASE  
EXTENSION**



P 128

**920  
HSK A  
ER COLLET CHUCK  
REVERSE**



P 129

**926  
HSK A  
IR BASE  
EXTENSION**



P 130

**920  
HSK E  
ER COLLET CHUCK  
REVERSE**



P 131

**926  
HSK E  
IR BASE  
EXTENSION**



P 132

**920  
HSK F  
ER COLLET CHUCK  
REVERSE**



P 133

**926  
HSK F  
IR BASE  
EXTENSION**

# IFE SYSTEM TOOL HOLDERS DUAL FACE CONTACT

## INFINITE PLUS EXTERME SYSTEM: DUAL FACE CONTACT MODULAR SYSTEM

- IPE SYSTEM (I SYSTEM) is an advanced, high-performance tooling and flexible modular system.
- I SYSTEM's reversed ER collet is innovative design provides higher clamping force and smaller nose OD of nuts than conventional ER collet chucks.
- I SYSTEM's flexible innovative design provides a modular system that is quick and easy to assemble, highly accurate and rigid.
  - INFINITE Combinations
  - INFINITE Flexibility
  - INFINITE Tooling Efficiency
  - INFINITE Rigidity
  - INFINITE Applications
- Patent No:
  - TW: M319813, M319814, M322299, I 334371.
  - US: US 7628571, US 8262095
  - DE: DE 102007031458, DE102008037868
  - CHINA: 2007/0111455.0, ZL 2007/0111135.5, ZL 2008 1 0146711.4
  - JAPAN: 4911713.

## BT-CAT-SK SHANKS - IPE SYSTEM



P 124

**921**  
**PBT**  
ER COLLET CHUCK  
**REVERSE**  
STANDARD SPINDLE



P 125

**929**  
**PBT**  
IR BASE  
**EXTENSION**  
STANDARD SPINDLE



P 126

**922**  
**PBBT**  
ER COLLET CHUCK  
**REVERSE**  
BBT SPINDLE



P 127

**928**  
**PBBT**  
IR BASE  
**EXTENSION**  
BBT SPINDLE



P 120

**921**  
**PCAT**  
ER COLLET CHUCK  
**REVERSE**  
STANDARD SPINDLE



P 120

**929**  
**PCAT**  
IR BASE  
**EXTENSION**  
STANDARD SPINDLE



P 121

**922**  
**PBCAT**  
ER COLLET CHUCK  
**REVERSE**  
BBT SPINDLE



P 121

**928**  
**PBCAT**  
IR BASE  
**EXTENSION**  
BBT SPINDLE



P 122

**921**  
**PSK**  
ER COLLET CHUCK  
**REVERSE**  
STANDARD SPINDLE



P 122

**929**  
**PSK**  
IR BASE  
**EXTENSION**  
STANDARD SPINDLE



P 123

**922**  
**PBSK**  
ER COLLET CHUCK  
**REVERSE**  
BBT SPINDLE



P 123

**928**  
**PBSK**  
IR BASE  
**EXTENSION**  
BBT SPINDLE



# I SYSTEM TOOL HOLDERS - IR EXTENSION



P138-139

**926**

Extension Shank  
**IR BASE**  
T12ERXX926-XXXXX



P140

**926**

Extension Shank  
**STRAIGHT BASE**  
T12SSXX926-XXXXX



P141

**926**

Extension Shank  
**LATHE BASE W/FLAT**  
T12SSXX926-XXXXXL



P142

**M20**

ER Collet Chuck  
**MINI NUT**  
T12ERXXM20-XXXXX



P143

**020**

ER Collet Chuck  
T12ERXX020-XXXXX



P144

**920**

ER Collet Chuck  
**REVERSE**  
T12ERXX920-XXXXXX



P145

**030**

End Mill Holder  
**COOLANT SLOT**  
T12ERXX030-XXXXX



P146

**040**

End Mill Holder  
T12ERXX040-XXXXX



P147

**050**

End Mill Holder  
**WHISTLE**  
T12ERXX050-XXXXX



P148

**120**

Shell Milling Holder  
T12ERXX120-XXXXX



P149

**130**

Shell Milling Holder  
**COOLANT SLOT**  
T12ERXX130-XXXXX



P150

**200**

Screw-In Chuck  
T12ERXX200-XXXXX



P151

**210**

Slim Collet Chuck  
T12ERXX210-XXXXX



P152

**220**

Shrink-Fit Holder  
**4.5°**  
T12ERXX220-XXXXX



P153

**230**

Shrink-Fit Holder  
**4.5° SLIM**  
T12ERXX230-XXXXX



P154-155

**240**

Shrink-Fit Holder  
**3°**  
T12ERXX240-XXXXX



P156-157

**250**

Shrink-Fit Holder  
**3° SLIM**  
T12ERXX250-XXXXX



**310**

Blank  
**EXTENSION**  
T12ERXX310-XXXXX



**G000**

Test Arbor  
**EXTENSION**  
T12ERXXG000-XXXXX

# STRAIGHT SHANK EXTENSION CHUCK -T14



P 193

**T14**  
Straight Extension Shank  
**ER** Collet Chuck  
**MINI NUT**  
T00T14ERXX-XXXXXEM



P 194

**T14**  
Straight Extension Shank  
**ER** Collet Chuck  
T00T14ERXX-XXXXXE



P 195

**T14**  
Straight Extension Shank  
**ER** Collet Chuck  
**Lathe**  
T00T14ERXX-XXXXX-L



P 196

**T14**  
Straight Extension Shank  
**ER** Collet Chuck  
**Lathe w/Pipe Thread**  
T00T14ERXX-XXXXX-FM



P 197

**T14**  
Straight Extension Shank  
**ER** Collet Chuck  
**Lathe- Double End**  
T00T14ERXX-XXXXX-SM

## ACCESSORIES



P 198-199

**T05**  
Retension Knob  
T05CAXXXXX



P 204-207

**T04**  
**ER** Nut  
T04ERXX-XXX



P 208-209

**T07**  
WRENCH  
T07ERXXXX



P 210

**T07**  
DIGITAL TORQUE WRENCH  
**DIGITAL**  
T07TWDXXX-XXX



P 200-203

**T03**  
**ER** Collet  
T03ERXX-XXXX

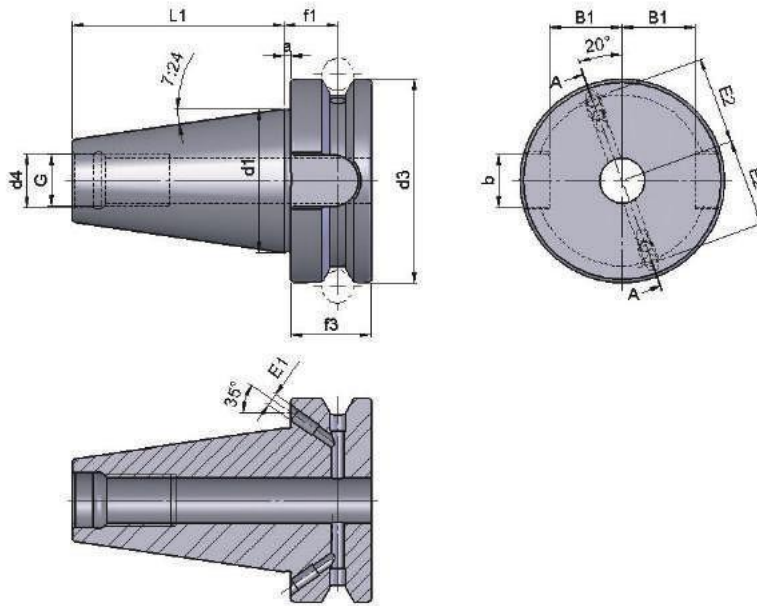


P 211

**T50**  
Universal CNC Tightening  
System  
T50-A001/ T50-B001-XXXX

# DIMENSION: BT SHANK

**BT**  
**MAS 403**  
**JIS B 6399**  
**30-40-50**



**B-Type(Flange through coolant)**

## BT SHANK

Taper	d1	d3	d4	a	L1	F3	B	B1	T	E1	E2
BT30	31.75	46	12.5	2	48.4	20	16.1	16.3	M12	x	x
BT40	44.45	63	17	2	65.4	25	16.1	22.6	M16	4	27
BT50	69.85	100	25	3	101.8	35	25.7	35.4	M24	6	42

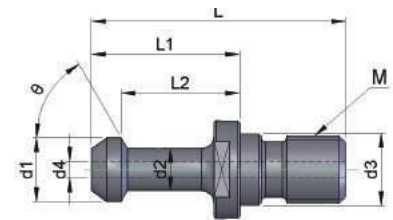
## E SYSTEM : DUAL - FACE CONTACT SHANK

Taper	d1	d3	d4	a	L1	F3	B	B1	T	E1	E2
PBBT30	31.75	46	12.5	1	48.4	20	16.1	16.3	M12	x	x
PBBT40	44.45	63	17	1	65.4	25	16.1	22.6	M16	4	27
PBBT50	69.85	100	25	1.5	101.8	35	25.7	35.4	M24	6	42

## Guidelines Pull Studs ( Retension Knobs):

Please make sure below specification before using pull studs.

1. Make and model of your machine (e.g. Makino V99L)
2. Type of spindle taper (e.g. BT, CAT, SK or Big Plus)
3. Taper size (e.g. 30, 40, 50 etc.)
4. Through coolant or not
5. Please use the data table and the drawing when selecting the correct item
  - \* For standard pull studs: please refer to the data table on page 198 and 199
  - \* For special pull studs, please provide the dimensions that correlate to d, L, M and  $\theta$



### Warning:

- ◆ Incorrect pull stud selection can result in damage your machine and may result in bodily injury
- ◆ Please replace the pull stud when:
  - \* Out of alignment
  - \* Worn or damaged
  - \* Signs of cracking
  - \* After a machine crash
  - \* wear or damaged...
  - \* cracking.

# Company History

## Competitive Prices without Compromising Quality

**PrimeTool** MFG, Inc. was established in June 2005 as a subsidiary of X'Pole Precision Tools, Inc., and we officially merged with our parent company in October 2009. For over 30 years, X'Pole Precision Tools has maintained a reputation as a reliable manufacturer for Air Tooling, capturing over 70% of the market share. As a complement to X'Pole's success, **PrimeTool** has set out to accomplish that same goal, but this time in the high precision tool holder market. Henceforth, **PrimeTool** will continue as X'Pole's flagship brand name.

**PrimeTool** specializes in manufacturing tool holders of the finest quality as well as high-precision machine parts. In addition to quality, **PrimeTool** is able to maintain a commitment towards saving Earth's resources through the utilization of efficient machining. In part, this is accomplished from using the most advanced facilities in the world. To ensure that our tool holders not only meet, but exceed the demands for High-Speed, High-Precision and High-Performance machining, we solely manufacture with state-of-the-art equipment such as Mori-Seiki, Studer, Brown & Sharpe , Leitz, and many others.

We also provide complete and innovative solutions, as well as creative patented technology to overcome technical problems. As a result of utilizing our technological innovations, our customers have been able to achieve new levels of efficient production and thereby manage to stay ahead of their competition.

**PrimeTool** products are currently broken down into five main categories:

- 1.) Standard Tool Holders of the highest quality, suitable for high-speed machining , with the highest precision available, increasing machining efficiency and up-grade machining qualities.
- 2.) E System Tool Holders: a Simultaneous Dual Face Contact System (Extreme). Currently the best hybrid system in the world, the E System is the most effective solution to improve tooling rigidity and performance. The resulting extreme precision maximizes our customer's manufacturing capabilities by making their machines extremely efficient, durable and productive.
- 3.) I System Tool Holders: a Modular and Flexible System (Infinite). Our patented technology provides for unlimited applications and functions. Precision, rigidity and performance are unchanged with the addition of each extension, and the combinations with different tooling are, quite frankly, Infinite.
- 4.) IPE System Tool Holders: the I System combined with the patented Dual Face Contact design (Infinite Plus Extreme). The IPE System makes it possible to get unrivaled efficiency, quality and performance. Experience for yourself the Power you can achieve, the Extreme precision you can attain, and the Infinite tooling possibilities that are available with **PrimeTool**.
- 5.) OEM precision parts.

# Our Mission

**Competitive Prices without Compromising Quality  
Innovation and Service are always our top priorities.**

Our unsurpassed manufacturing ability and strict Quality Control process ensures that our products are of the highest quality, consistently, throughout the manufacturing process.

We will strive to satisfy our customers' needs and help our customers keep pace in a modern world with cutting-edge technology by providing:

1. **Exceptional Quality:** To meet or exceed the customer's requirements and high manufacturing standards by maintaining consistent quality at an AT3 to AT1 grade level!
2. **Competitive Prices:** By making precision tool holders that offer longer tool life, higher machining speeds and reduced machining time, our customers will not only appreciate the precision and accuracy that they've purchased, but the overall value as well!

***PrimeTool-Next-generation equipment, Next-generation products, Outstanding quality, and Competitive pricing!***



## **STANDARD TOOL HOLDER**

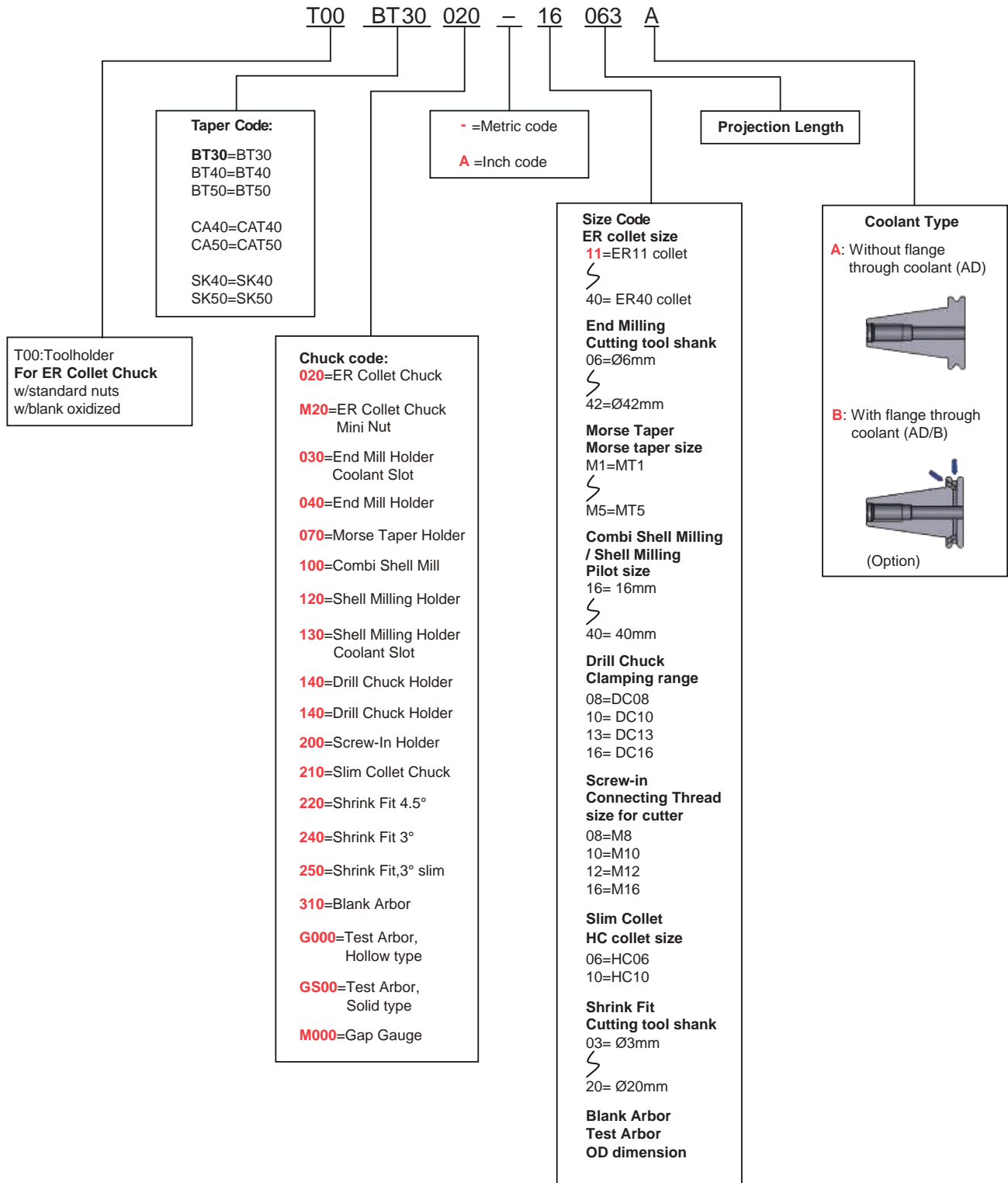
- M20** - ER Collet Chuck - **Mini Nut**
- 020** - ER Collet Chuck
- 030** - End Mill Holder **Coolant Slot**
- 040** - End Mill Holder
- 070** - Morse Taper Holder
- 120** - Shell Milling Holder
- 130** - Shell Milling Holder **Coolant Slot**
- 140** - Drill Chuck Holder
- 140** - Drill Chuck Arbor
- 200** - Screw-In Holder
- 210** - Slim Collet Chuck
- 220** - Shrink-Fit Holder **4.5°**
- 240** - Shrink-Fit Holder **3°**
- 250** - Shrink-Fit Holder **3° Slim**
- 310** - Blank Arbor
- G000** - Test Arbor



# STANDARD TOOL HOLDERS

## Order Number Instruction

Example: T00BT40020-16063A, BT30 ER16-063

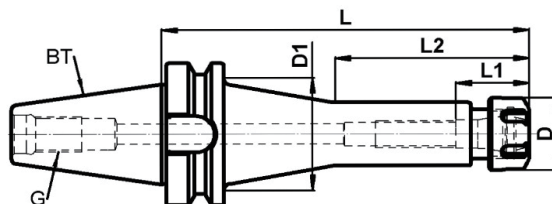


**ER COLLET CHUCK MINI NUT - M20**

**MINI NUT**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.0012")
- Balance: G6.3 25000 rpm  
 Option to G2.5 25000 rpm



**BT30 ER COLLET CHUCK MINI NUT METRIC**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT30M20-11070A	BT30 ER11-070M	ER11	70	0.5~7	16	16	70	17	45	M12
T00BT30M20-11100A	BT30 ER11-100M	ER11	100	0.5~7	16	16	100	17	75	
T00BT30M20-16070A	BT30 ER16-070M	ER16	70	0.5~10	22	22	70	22	45	
T00BT30M20-16100A	BT30 ER16-100M	ER16	100	0.5~10	22	22	100	22	75	
T00BT30M20-16160A	BT30 ER16-160M	ER16	160	0.5~10	22	22	160	22	85	
T00BT30M20-20070A	BT30 ER20-070M	ER20	70	1~13	28	28	70	26	45	
T00BT30M20-20100A	BT30 ER20-100M	ER20	100	1~13	28	28	100	26	75	
T00BT30M20-20160A	BT30 ER20-160M	ER20	160	1~13	28	28	160	26	135	

**BT40 ER COLLET CHUCK MINI NUT METRIC**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT40M20-11070A	BT40 ER11-070M	ER11	70	0.5~7	16	16	70	17	40	M16
T00BT40M20-11100A	BT40 ER11-100M	ER11	100	0.5~7	16	16	100	17	70	
T00BT40M20-16070A	BT40 ER16-070M	ER16	70	0.5~10	22	22	70	22	40	
T00BT40M20-16100A	BT40 ER16-100M	ER16	100	0.5~10	22	22	100	22	70	
T00BT40M20-16160A	BT40 ER16-160M	ER16	160	0.5~10	22	22	160	22	85	
T00BT40M20-20070A	BT40 ER20-070M	ER20	70	1~13	28	28	70	26	40	
T00BT40M20-20100A	BT40 ER20-100M	ER20	100	1~13	28	28	100	26	70	
T00BT40M20-20160A	BT40 ER20-160M	ER20	160	1~13	28	28	160	26	130	

**BT50 ER COLLET CHUCK MINI NUT METRIC**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50M20-11100A	BT50 ER11-100M	ER11	100	0.5~7	16	16	100	17	60	M24
T00BT50M20-11160A	BT50 ER11-160M	ER11	160	0.5~7	16	28	160	17	80	
T00BT50M20-16100A	BT50 ER16-100M	ER16	100	0.5~10	22	22	100	22	60	
T00BT50M20-16160A	BT50 ER16-160M	ER16	160	0.5~10	22	28	160	22	85	
T00BT50M20-20100A	BT50 ER20-100M	ER20	100	1~13	28	28	100	26	60	
T00BT50M20-20160A	BT50 ER20-160M	ER20	160	1~13	28	28	160	26	120	

**Note:**

1. Order : includes Nut, Excludes ER collet and Retention knob and Wrench.

**ACCESSORIES:**

MINI NUT				
Order Number	Part Name	Thread	Type	ER Collet Size
T04ER08-M1A	ER08 Mini Nut	M10×0.75	Mini	ER08
T04ER11-M1A	ER11 Mini Nut	M13×0.75	Mini	ER11
T04ER16-M1A	ER16 Mini Nut	M19×1.00	Mini	ER16
T04ER20-M1A	ER20 Mini Nut	M24×1.00	Mini	ER20



MINI WRENCH BEARING WITH ONE-WAY CLUTCHES		
Order Number	Part Name	Type
T07ER0805	ER08 MINI WRENCH	Mini
T07ER1105	ER11 MINI WRENCH	Mini
T07ER1605	ER16 MINI WRENCH	Mini
T07ER2005	ER20 MINI WRENCH	Mini

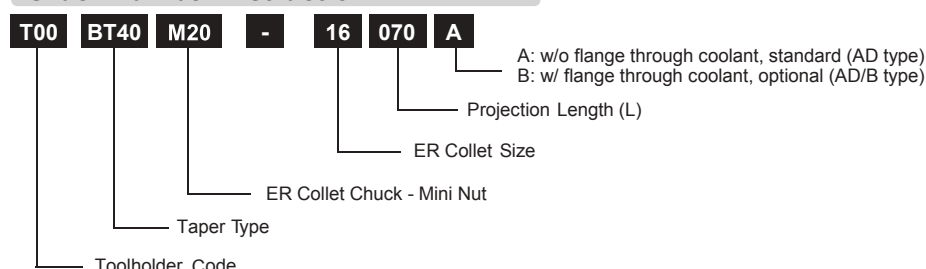


P200-P203



P198-P199

**Order Number Instruction**

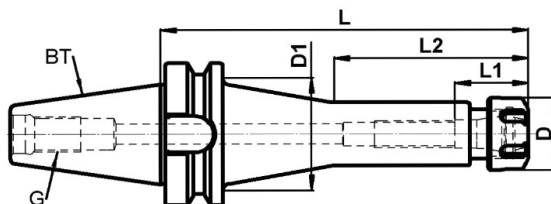


**ER COLLET CHUCK MINI NUT - M20**

**MINI NUT**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**BT30 ER COLLET CHUCK MINI NUT INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT30M20A11070A	BT30 ER11-2.76"M	ER11	2.76"	5/64~17/64"	0.63"	0.63"	2.76"	0.67"	1.77"	M12
T00BT30M20A11102A	BT30 ER11-4.00"M	ER11	4.00"	5/64~17/64"	0.63"	0.63"	4.00"	0.67"	3.03"	
T00BT30M20A16070A	BT30 ER16-2.76"M	ER16	2.76"	5/64~13/32"	0.87"	0.87"	2.76"	0.87"	1.77"	
T00BT30M20A16102A	BT30 ER16-4.00"M	ER16	4.00"	5/64~13/32"	0.87"	0.87"	4.00"	0.87"	3.03"	
T00BT30M20A16152A	BT30 ER16-6.00"M	ER16	6.00"	5/64~13/32"	0.87"	1.10"	6.00"	0.87"	3.30"	
T00BT30M20A20070A	BT30 ER20-2.76"M	ER20	2.76"	5/64~1/2"	1.10"	1.10"	2.76"	1.04"	1.77"	
T00BT30M20A20102A	BT30 ER20-4.00"M	ER20	4.00"	5/64~1/2"	1.10"	1.10"	4.00"	1.04"	3.03"	
T00BT30M20A20152A	BT30 ER20-6.00"M	ER20	6.00"	5/64~1/2"	1.10"	1.10"	6.00"	1.04"	5.31"	

**BT40 ER COLLET CHUCK MINI NUT INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT40M20A11070A	BT40 ER11-2.76"M	ER11	2.76"	5/64~17/64"	0.63"	0.63"	2.76"	0.67"	1.57"	M16
T00BT40M20A11102A	BT40 ER11-4.00"M	ER11	4.00"	5/64~17/64"	0.63"	0.63"	4.00"	0.67"	2.83"	
T00BT40M20A16070A	BT40 ER16-2.76"M	ER16	2.76"	5/64~13/32"	0.87"	0.87"	2.76"	0.87"	1.57"	
T00BT40M20A16102A	BT40 ER16-4.00"M	ER16	4.00"	5/64~13/32"	0.87"	0.87"	4.00"	0.87"	2.83"	
T00BT40M20A16152A	BT40 ER16-6.00"M	ER16	6.00"	5/64~13/32"	0.87"	1.10"	6.00"	0.87"	3.30"	
T00BT40M20A20070A	BT40 ER20-2.76"M	ER20	2.76"	5/64~1/2"	1.10"	1.10"	2.76"	1.04"	1.57"	
T00BT40M20A20102A	BT40 ER20-4.00"M	ER20	4.00"	5/64~1/2"	1.10"	1.10"	4.00"	1.04"	2.83"	
T00BT40M20A20152A	BT40 ER20-6.00"M	ER20	6.00"	5/64~1/2"	1.10"	1.10"	6.00"	1.04"	5.12"	

**BT50 ER COLLET CHUCK MINI NUT INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50M20A11102A	BT50 ER11-4.00"M	ER11	4.00"	5/64~17/64"	0.63"	0.63"	4.00"	0.67"	2.44"	M24
T00BT50M20A11152A	BT50 ER11-6.00"M	ER11	6.00"	5/64~17/64"	0.63"	1.10"	6.00"	0.67"	3.15"	
T00BT50M20A16102A	BT50 ER16-4.00"M	ER16	4.00"	5/64~13/32"	0.63"	0.63"	4.00"	0.87"	2.44"	
T00BT50M20A16152A	BT50 ER16-6.00"M	ER16	6.00"	5/64~13/32"	0.87"	1.10"	6.00"	0.87"	3.30"	
T00BT50M20A20102A	BT50 ER20-4.00"M	ER20	4.00"	5/64~1/2"	1.10"	1.10"	4.00"	1.04"	2.44"	
T00BT50M20A20152A	BT50 ER20-6.00"M	ER20	6.00"	5/64~1/2"	1.10"	1.10"	6.00"	1.04"	4.72"	

Note:

1. Order : includes Nut, Excludes ER collet and Retention knob and Wrench.

**ACCESSORIES:**

**MINI NUT**

Order Number	Part Name	Thread	Type	ER Collet Size
T04ER08-M1A	ER08 Mini Nut	M10×0.75	Mini	ER08
T04ER11-M1A	ER11 Mini Nut	M13×0.75	Mini	ER11
T04ER16-M1A	ER16 Mini Nut	M19×1.00	Mini	ER16
T04ER20-M1A	ER20 Mini Nut	M24×1.00	Mini	ER20



**MINI WRENCH BEARING WITH ONE-WAY CLUTCHES**

Order Number	Part Name	Type
T07ER0805	ER08 MINI WRENCH	Mini
T07ER1105	ER11 MINI WRENCH	Mini
T07ER1605	ER16 MINI WRENCH	Mini
T07ER2005	ER20 MINI WRENCH	Mini

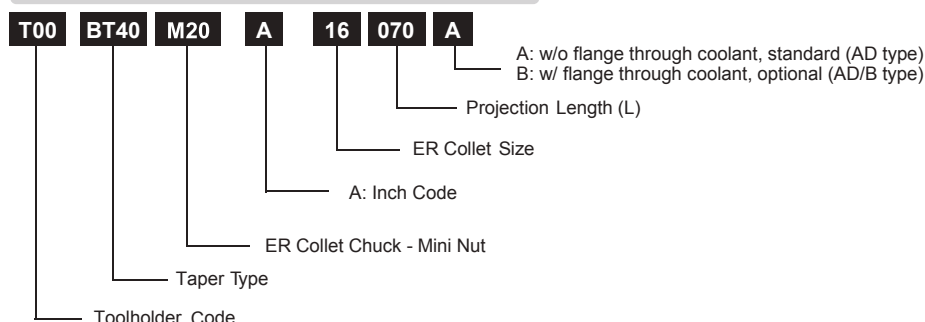


P200-P203



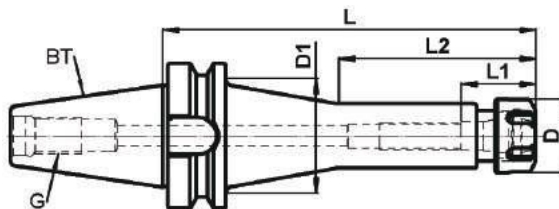
P198-P199

**Order Number Instruction**



**ER COLLET CHUCK - 020** *DIN6499*
**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm


**BT30 ER COLLET CHUCK METRIC**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT30020-11070A	BT30 ER11-070	ER11	70	0.5~7	19	19	70	17	45	M12
T00BT30020-11100A	BT30 ER11-100	ER11	100	0.5~7	19	19	100	17	75	
T00BT30020-11160A	BT30 ER11-160	ER11	160	0.5~7	19	28	160	17	80	
T00BT30020-16070A	BT30 ER16-070	ER16	70	0.5 ~ 10	28	28	70	22	45	
T00BT30020-16100A	BT30 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	75	
T00BT30020-16160A	BT30 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	85	
T00BT30020-20070A	BT30 ER20-070	ER20	70	1 ~ 13	34	34	70	26	45	
T00BT30020-20100A	BT30 ER20-100	ER20	100	1 ~ 13	34	34	100	26	75	
T00BT30020-20160A	BT30 ER20-160	ER20	160	1 ~ 13	34	34	160	26	135	
T00BT30020-25060A	BT30 ER25-060	ER25	60	1 ~ 16	42	42	60	29	35	
T00BT30020-25070A	BT30 ER25-070	ER25	70	1 ~ 16	42	42	70	29	45	
T00BT30020-25100A	BT30 ER25-100	ER25	100	1 ~ 16	42	42	100	29	75	
T00BT30020-25160A	BT30 ER25-160	ER25	160	1 ~ 16	42	42	160	29	135	
T00BT30020-32070A	BT30 ER32-070	ER32	70	2 ~ 20	50	50	70	34	45	
T00BT30020-32100A	BT30 ER32-100	ER32	100	2 ~ 20	50	50	100	34	75	
T00BT30020-32160A	BT30 ER32-160	ER32	160	2 ~ 20	50	50	160	34	135	

**BT40 ER COLLET CHUCK METRIC**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT40020-11070A	BT40 ER11-070	ER11	70	0.5~7	19	19	70	17	40	M16
T00BT40020-11100A	BT40 ER11-100	ER11	100	0.5~7	19	19	100	17	70	
T00BT40020-11160A	BT40 ER11-160	ER11	160	0.5~7	19	28	160	17	80	
T00BT40020-11200A	BT40 ER11-200	ER11	200	0.5~7	19	28	200	17	80	
T00BT40020-16063A	BT40 ER16-063	ER16	63	0.5 ~ 10	28	28	63	22	33	
T00BT40020-16070A	BT40 ER16-070	ER16	70	0.5 ~ 10	28	28	70	22	40	
T00BT40020-16100A	BT40 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	70	
T00BT40020-16160A	BT40 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	85	
T00BT40020-16200A	BT40 ER16-200	ER16	200	0.5 ~ 10	28	34	200	22	85	
T00BT40020-20060A	BT40 ER20-060	ER20	60	1 ~ 13	34	34	60	26	30	
T00BT40020-20070A	BT40 ER20-070	ER20	70	1 ~ 13	34	34	70	26	40	
T00BT40020-20100A	BT40 ER20-100	ER20	100	1 ~ 13	34	34	100	26	70	
T00BT40020-20160A	BT40 ER20-160	ER20	160	1 ~ 13	34	34	160	26	130	
T00BT40020-20200A	BT40 ER20-200	ER20	200	1 ~ 13	34	34	200	26	170	
T00BT40020-25060A	BT40 ER25-060	ER25	60	1 ~ 16	42	42	60	29	30	
T00BT40020-25070A	BT40 ER25-070	ER25	70	1 ~ 16	42	42	70	29	40	
T00BT40020-25100A	BT40 ER25-100	ER25	100	1 ~ 16	42	42	100	29	70	
T00BT40020-25160A	BT40 ER25-160	ER25	160	1 ~ 16	42	42	160	29	130	
T00BT40020-25200A	BT40 ER25-200	ER25	200	1 ~ 16	42	42	200	29	170	
T00BT40020-32070A	BT40 ER32-070	ER32	70	2 ~ 20	50	50	70	34	40	
T00BT40020-32100A	BT40 ER32-100	ER32	100	2 ~ 20	50	50	100	34	70	
T00BT40020-32160A	BT40 ER32-160	ER32	160	2 ~ 20	50	50	160	34	130	
T00BT40020-32200A	BT40 ER32-200	ER32	200	2 ~ 20	50	50	200	34	170	
T00BT40020-40080A	BT40 ER40-080	ER40	80	3 ~ 26	63	63	80	38	50	
T00BT40020-40100A	BT40 ER40-100	ER40	100	3 ~ 26	63	63	100	38	70	
T00BT40020-40160A	BT40 ER40-160	ER40	160	3 ~ 26	63	63	160	38	130	
T00BT40020-40200A	BT40 ER40-200	ER40	200	3 ~ 26	63	63	200	38	170	

**BT50 ER COLLET CHUCK METRIC**

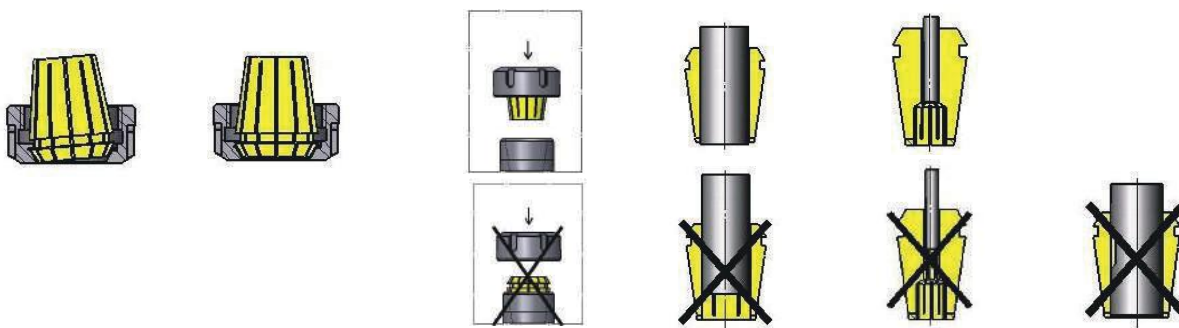
Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50020-16100A	BT50 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	60	M24
T00BT50020-16150A	BT50 ER16-150	ER16	150	0.5 ~ 10	28	34	150	22	85	
T00BT50020-16160A	BT50 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	85	
T00BT50020-16200A	BT50 ER16-200	ER16	200	0.5 ~ 10	28	34	200	22	85	
T00BT50020-20100A	BT50 ER20-100	ER20	100	1 ~ 13	34	34	100	26	60	
T00BT50020-20150A	BT50 ER20-150	ER20	150	1 ~ 13	34	34	150	26	110	
T00BT50020-20160A	BT50 ER20-160	ER20	160	1 ~ 13	34	34	160	26	120	
T00BT50020-20200A	BT50 ER20-200	ER20	200	1 ~ 13	34	34	200	26	160	
T00BT50020-25100A	BT50 ER25-100	ER25	100	1 ~ 16	42	42	100	29	60	
T00BT50020-25150A	BT50 ER25-150	ER25	150	1 ~ 16	42	42	150	29	110	
T00BT50020-25160A	BT50 ER25-160	ER25	160	1 ~ 16	42	42	160	29	120	
T00BT50020-25200A	BT50 ER25-200	ER25	200	1 ~ 16	42	42	200	29	160	

## ER COLLET CHUCK - 020 *DIN6499*

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50020-32070A	BT50 ER32-070	ER32	70	2~20	50	50	70	34	30	
T00BT50020-32100A	BT50 ER32-100	ER32	100	2~20	50	50	100	34	60	
T00BT50020-32160A	BT50 ER32-160	ER32	160	2~20	50	50	160	34	120	
T00BT50020-32200A	BT50 ER32-200	ER32	200	2~20	50	50	200	34	160	
T00BT50020-40080A	BT50 ER40-080	ER40	80	3~26	63	63	80	38	45	
T00BT50020-40105A	BT50 ER40-105	ER40	105	3~26	63	63	105	38	65	
T00BT50020-40120A	BT50 ER40-120	ER40	120	3~26	63	63	120	38	80	
T00BT50020-40160A	BT50 ER40-160	ER40	160	3~26	63	63	160	38	120	
T00BT50020-40200A	BT50 ER40-200	ER40	200	3~26	63	63	200	38	160	

Note:

- Order : includes Nut, Excludes ER collet and Retention knob and Wrench.
- Assembly ER Collet and Nut and Cutter.



### ACCESSORIES:

ER NUTS			
Order Number	Part Name	Thread	Type
T04ER11-H1A	ER11 Nut, Hex	M14×0.75	Hex
T04ER16-H1A	ER16 Nut, Hex	M22×1.50	Hex
T04ER20-H1A	ER20 Nut, Hex	M25×1.50	Hex
T04ER25-D1A	ER25 Nut	M32×1.50	Spanner
T04ER32-D1A	ER32 Nut	M40×1.50	Spanner
T04ER40-D1A	ER40 Nut	M50×1.50	Spanner

ER BALANCED NUTS - Balanced 1g-mm	
Order Number	Part Name
T04ER11-H2A	ER11 High-balanced Nut, Hex
T04ER16-H2A	ER16 High-balanced Nut, Hex
T04ER20-H2A	ER20 High-balanced Nut, Hex
T04ER25-D2A	ER25 High-balanced Nut
T04ER32-D2A	ER32 High-balanced Nut
T04ER40-D2A	ER40 High-balanced Nut

ER NUTS		
Order Number	Image	Part Name
T04ER11-H1A		Hex Nut
T04ER16-H1A		T04ERXX-H1A
T04ER20-H1A		
T04ER25-D1A		
T04ER32-D1A		Spanner Nut
T04ER40-D1A		T04ERXX-D1A

WRENCH		
Order Number	Part Name	Image
T07ER1101	ER11 WRENCH	
T07ER1601	ER16 WRENCH	
T07ER2001	ER20 WRENCH	
T07ER2502	ER25 WRENCH	
T07ER3202	ER32 WRENCH	
T07ER4002	ER40 WRENCH	

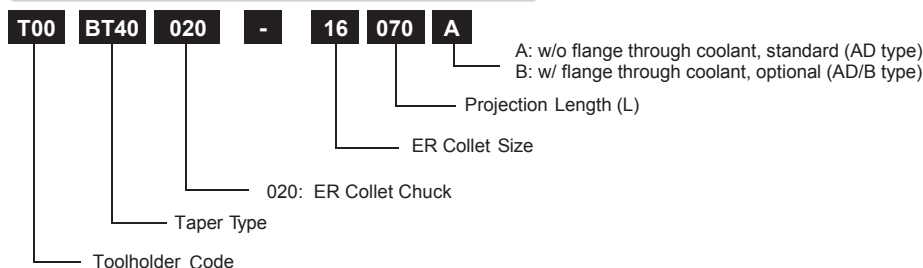
ER BALL BEARING NUTS			
Order Number	Part Name	Thread	Type
T04ER25-D1A-BB	ER25 Ball bearing Nut	M32×1.50	Spanner
T04ER32-D1A-BB	ER32 Ball bearing Nut	M40×1.50	Spanner
T04ER40-D1A-BB	ER40 Ball bearing Nut	M50×1.50	Spanner



BACKUP SCREWS INCH		
Order Number	Part Name	ER size
T06PS-CAER11LH	ER11 Backup Screws	ER11
T06PS-CAER16LH	ER16 Backup Screws	ER16
T06PS-CAER20LH	ER20 Backup Screws	ER20
T06PS-CAER25LH	ER25 Backup Screws	ER25
T06PS-CAER32LH	ER32 Backup Screws	ER32
T06PS-CAER40LH	ER40 Backup Screws	ER40

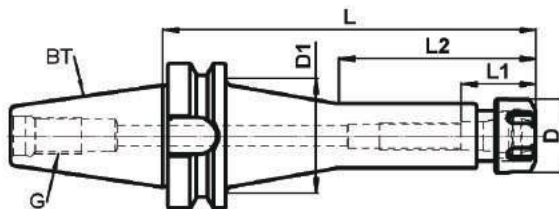


### Order Number Instruction



**ER COLLET CHUCK - 020 DIN6499**
**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm


**BT30 ER COLLET CHUCK INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT30020A11070A	BT30 ER11-2.76"	ER11	2.76"	5/64~17/64"	0.75"	0.75"	2.76"	0.67"	1.77"	M12
T00BT30020A11102A	BT30 ER11-4.00"	ER11	4.00"	5/64~17/64"	0.75"	0.75"	4.00"	0.67"	3.03"	
T00BT30020A11152A	BT30 ER11-6.00"	ER11	6.00"	5/64~17/64"	0.75"	1.10"	6.00"	0.67"	3.15"	
T00BT30020A16070A	BT30 ER16-2.76"	ER16	2.76"	5/64~13/32"	1.10"	1.10"	2.76"	0.87"	1.77"	
T00BT30020A16102A	BT30 ER16-4.00"	ER16	4.00"	5/64~13/32"	1.10"	1.10"	4.00"	0.87"	3.03"	
T00BT30020A16152A	BT30 ER16-6.00"	ER16	6.00"	5/64~13/32"	1.10"	1.34"	6.00"	0.87"	3.30"	
T00BT30020A20070A	BT30 ER20-2.76"	ER20	2.76"	5/64~1/2"	1.34"	1.34"	2.76"	1.04"	1.77"	
T00BT30020A20102A	BT30 ER20-4.00"	ER20	4.00"	5/64~1/2"	1.34"	1.34"	4.00"	1.04"	3.03"	
T00BT30020A20152A	BT30 ER20-6.00"	ER20	6.00"	5/64~1/2"	1.34"	1.34"	6.00"	1.04"	5.00"	
T00BT30020A25060A	BT30 ER25-2.36"	ER25	2.36"	5/64~5/8"	1.65"	1.65"	2.36"	1.14"	1.38"	
T00BT30020A25070A	BT30 ER25-2.76"	ER25	2.76"	5/64~5/8"	1.65"	1.65"	2.76"	1.14"	1.77"	
T00BT30020A25102A	BT30 ER25-4.00"	ER25	4.00"	5/64~5/8"	1.65"	1.65"	4.00"	1.14"	3.03"	
T00BT30020A25152A	BT30 ER25-6.00"	ER25	6.00"	5/64~5/8"	1.65"	1.65"	6.00"	1.14"	5.00"	
T00BT30020A32070A	BT30 ER32-2.76"	ER32	2.76"	5/64~25/32"	1.97"	1.97"	2.76"	1.34"	1.77"	
T00BT30020A32102A	BT30 ER32-4.00"	ER32	4.00"	5/64~25/32"	1.97"	1.97"	4.00"	1.34"	3.03"	
T00BT30020A32152A	BT30 ER32-6.00"	ER32	6.00"	5/64~25/32"	1.97"	1.97"	6.00"	1.34"	5.00"	

**BT40 ER COLLET CHUCK INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT40020A11070A	BT40 ER11-2.76"	ER11	2.76"	5/64~17/64"	0.75"	0.75"	2.76"	0.67"	1.57"	M16
T00BT40020A11102A	BT40 ER11-4.00"	ER11	4.00"	5/64~17/64"	0.75"	0.75"	4.00"	0.67"	2.83"	
T00BT40020A11152A	BT40 ER11-6.00"	ER11	6.00"	5/64~17/64"	0.75"	1.10"	6.00"	0.67"	3.15"	
T00BT40020A11203A	BT40 ER11-8.00"	ER11	8.00"	5/64~17/64"	0.75"	1.10"	8.00"	0.67"	3.15"	
T00BT40020A16063A	BT40 ER16-2.48"	ER16	2.48"	5/64~13/32"	1.10"	1.10"	2.48"	0.87"	1.30"	
T00BT40020A16070A	BT40 ER16-2.76"	ER16	2.76"	5/64~13/32"	1.10"	1.10"	2.76"	0.87"	1.57"	
T00BT40020A16102A	BT40 ER16-4.00"	ER16	4.00"	5/64~13/32"	1.10"	1.10"	4.00"	0.87"	2.83"	
T00BT40020A16152A	BT40 ER16-6.00"	ER16	6.00"	5/64~13/32"	1.10"	1.34"	6.00"	0.87"	3.30"	
T00BT40020A16203A	BT40 ER16-8.00"	ER16	8.00"	5/64~13/32"	1.10"	1.34"	8.00"	0.87"	3.30"	
T00BT40020A20060A	BT40 ER20-2.36"	ER20	2.36"	5/64~1/2"	1.34"	1.34"	2.36"	1.04"	1.18"	
T00BT40020A20070A	BT40 ER20-2.76"	ER20	2.76"	5/64~1/2"	1.34"	1.34"	2.76"	1.04"	1.57"	
T00BT40020A20102A	BT40 ER20-4.00"	ER20	4.00"	5/64~1/2"	1.34"	1.34"	4.00"	1.04"	2.83"	
T00BT40020A20152A	BT40 ER20-6.00"	ER20	6.00"	5/64~1/2"	1.34"	1.34"	6.00"	1.04"	4.80"	
T00BT40020A20203A	BT40 ER20-8.00"	ER20	8.00"	5/64~1/2"	1.34"	1.34"	8.00"	1.04"	6.80"	
T00BT40020A25060A	BT40 ER25-2.36"	ER25	2.36"	5/64~5/8"	1.65"	1.65"	2.36"	1.14"	1.18"	
T00BT40020A25070A	BT40 ER25-2.76"	ER25	2.76"	5/64~5/8"	1.65"	1.65"	2.76"	1.14"	1.57"	
T00BT40020A25102A	BT40 ER25-4.00"	ER25	4.00"	5/64~5/8"	1.65"	1.65"	4.00"	1.14"	2.83"	
T00BT40020A25152A	BT40 ER25-6.00"	ER25	6.00"	5/64~5/8"	1.65"	1.65"	6.00"	1.14"	4.80"	
T00BT40020A25203A	BT40 ER25-8.00"	ER25	8.00"	5/64~5/8"	1.65"	1.65"	8.00"	1.14"	6.80"	
T00BT40020A32070A	BT40 ER32-2.76"	ER32	2.76"	5/64~25/32"	1.97"	1.97"	2.76"	1.34"	1.57"	
T00BT40020A32102A	BT40 ER32-4.00"	ER32	4.00"	5/64~25/32"	1.97"	1.97"	4.00"	1.34"	2.83"	
T00BT40020A32152A	BT40 ER32-6.00"	ER32	6.00"	5/64~25/32"	1.97"	1.97"	6.00"	1.34"	4.80"	
T00BT40020A32203A	BT40 ER32-8.00"	ER32	8.00"	5/64~25/32"	1.97"	1.97"	8.00"	1.34"	6.80"	
T00BT40020A40080A	BT40 ER40-3.15"	ER40	3.15"	5/64~1"	2.48"	2.48"	3.15"	1.50"	1.97"	
T00BT40020A40102A	BT40 ER40-4.00"	ER40	4.00"	5/64~1"	2.48"	2.48"	4.00"	1.50"	2.83"	
T00BT40020A40152A	BT40 ER40-6.00"	ER40	6.00"	5/64~1"	2.48"	2.48"	6.00"	1.50"	4.80"	
T00BT40020A40203A	BT40 ER40-8.00"	ER40	8.00"	5/64~1"	2.48"	2.48"	8.00"	1.05"	6.80"	

**BT50 ER COLLET CHUCK INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50020A16102A	BT50 ER16-4.00"	ER16	4.00"	5/64~13/32"	1.10"	1.10"	4.00"	0.87"	2.44"	M24
T00BT50020A16152A	BT50 ER16-6.00"	ER16	6.00"	5/64~13/32"	1.10"	1.34"	6.00"	0.87"	3.30"	
T00BT50020A16203A	BT50 ER16-8.00"	ER16	8.00"	5/64~13/32"	1.10"	1.34"	8.00"	0.87"	3.30"	
T00BT50020A20102A	BT50 ER20-4.00"	ER20	4.00"	5/64~1/2"	1.34"	1.34"	4.00"	1.04"	2.44"	
T00BT50020A20152A	BT50 ER20-6.00"	ER20	6.00"	5/64~1/2"	1.34"	1.34"	6.00"	1.04"	4.40"	
T00BT50020A20203A	BT50 ER20-8.00"	ER20	8.00"	5/64~1/2"	1.34"	1.34"	8.00"	1.04"	6.40"	
T00BT50020A25102A	BT50 ER25-4.00"	ER25	4.00"	5/64~5/8"	1.65"	1.65"	4.00"	1.14"	2.44"	
T00BT50020A25152A	BT50 ER25-6.00"	ER25	6.00"	5/64~5/8"	1.65"	1.65"	6.00"	1.14"	4.40"	
T00BT50020A25203A	BT50 ER25-8.00"	ER25	8.00"	5/64~5/8"	1.65"	1.65"	8.00"	1.14"	6.40"	
T00BT50020A32070A	BT50 ER32-2.76"	ER32	2.76"	5/64~25/32"	1.97"	1.97"	2.76"	1.34"	1.18"	
T00BT50020A32102A	BT50 ER32-4.00"	ER32	4.00"	5/64~25/32"	1.97"	1.97"	4.00"	1.34"	2.44"	
T00BT50020A32152A	BT50 ER32-6.00"	ER32	6.00"	5/64~25/32"	1.97"	1.97"	6.00"	1.34"	4.40"	

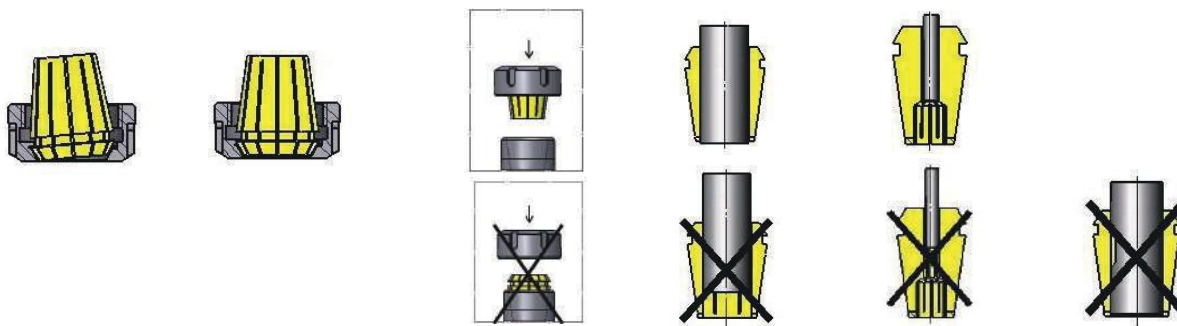
**STANDARD TOOL HOLDER**

**ER COLLET CHUCK - 020 DIN6499**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50020A32203A	BT50 ER32-8.00"	ER32	8.00"	5/64~25/32"	1.97"	1.97"	8.00"	1.34"	6.40"	M24
T00BT50020A40102A	BT50 ER40-4.00"	ER40	4.00"	5/64~1"	2.48"	2.48"	4.00"	1.50"	2.44"	
T00BT50020A40152A	BT50 ER40-6.00"	ER40	6.00"	5/64~1"	2.48"	2.48"	6.00"	1.50"	4.40"	
T00BT50020A40203A	BT50 ER40-8.00"	ER40	8.00"	5/64~1"	2.48"	2.48"	8.00"	1.50"	6.40"	

Note:

- Order : includes Nut, Excludes ER collet and Retention knob and Wrench.
- Assembly ER Collet and Nut and Cutter.



**ACCESSORIES:**

ER NUTS			
Order Number	Part Name	Thread	Type
T04ER11-H1A	ER11 Nut, Hex	M14×0.75	Hex
T04ER16-H1A	ER16 Nut, Hex	M22×1.50	Hex
T04ER20-H1A	ER20 Nut, Hex	M25×1.50	Hex
T04ER25-D1A	ER25 Nut	M32×1.50	Spanner
T04ER32-D1A	ER32 Nut	M40×1.50	Spanner
T04ER40-D1A	ER40 Nut	M50×1.50	Spanner

ER BALANCED NUTS - Balanced 1g-mm	
Order Number	Part Name
T04ER11-H2A	ER11 High-balanced Nut, Hex
T04ER16-H2A	ER16 High-balanced Nut, Hex
T04ER20-H2A	ER20 High-balanced Nut, Hex
T04ER25-D2A	ER25 High-balanced Nut
T04ER32-D2A	ER32 High-balanced Nut
T04ER40-D2A	ER40 High-balanced Nut

ER NUTS		
Order Number	Image	Part Name
T04ER11-H1A		Hex Nut
T04ER16-H1A		T04ERXX-H1A
T04ER20-H1A		
T04ER25-D1A		Spanner Nut
T04ER32-D1A		T04ERXX-D1A
T04ER40-D1A		

WRENCH		
Order Number	Part Name	Image
T07ER1101	ER11 WRENCH	
T07ER1601	ER16 WRENCH	
T07ER2001	ER20 WRENCH	
T07ER2502	ER25 WRENCH	
T07ER3202	ER32 WRENCH	
T07ER4002	ER40 WRENCH	

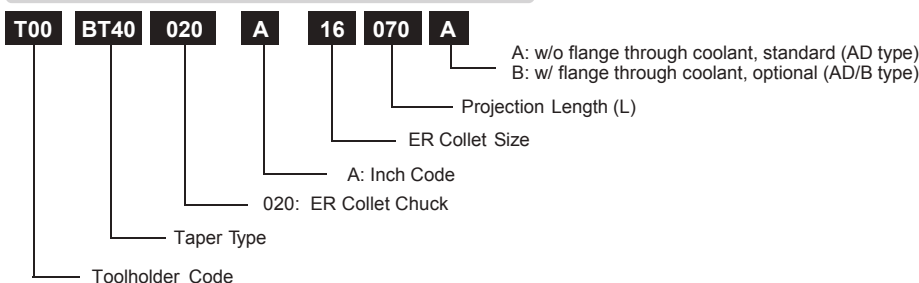
ER BALL BEARING NUTS			
Order Number	Part Name	Thread	Type
T04ER25-D1A-BB	ER25 Ball bearing Nut	M32×1.50	Spanner
T04ER32-D1A-BB	ER32 Ball bearing Nut	M40×1.50	Spanner
T04ER40-D1A-BB	ER40 Ball bearing Nut	M50×1.50	Spanner



BACKUP SCREWS INCH		
Order Number	Part Name	ER size
T06PS-CAER11LH	ER11 Backup Screws	ER11
T06PS-CAER16LH	ER16 Backup Screws	ER16
T06PS-CAER20LH	ER20 Backup Screws	ER20
T06PS-CAER25LH	ER25 Backup Screws	ER25
T06PS-CAER32LH	ER32 Backup Screws	ER32
T06PS-CAER40LH	ER40 Backup Screws	ER40



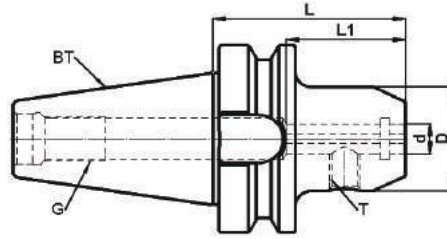
**Order Number Instruction**



**END MILL HOLDER COOLANT SLOT - 030 DIN 1835B**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
 Option to G2.5 25000 rpm



**BT30 END MILL HOLDER COOLANT SLOT METRIC**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT30030-06050A	BT30 EM06-050J	6	50	6	25	50	30	M6	M12
T00BT30030-08050A	BT30 EM08-050J	8	50	8	28	50	35	M8	
T00BT30030-10050A	BT30 EM10-050J	10	50	10	35	50	40	M10	
T00BT30030-12063A	BT30 EM12-063J	12	63	12	42	63	44	M12	
T00BT30030-16063A	BT30 EM16-063J	16	63	16	48	63	47	M14	
T00BT30030-20063A	BT30 EM20-063J	20	63	20	52	63	49	M16	

**BT40 END MILL HOLDER COOLANT SLOT METRIC**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT40030-06050A	BT40 EM06-050J	6	50	6	25	50	30	M6	M16
T00BT40030-06100A	BT40 EM06-100J	6	100	6	25	100	30	M6	
T00BT40030-08050A	BT40 EM08-050J	8	50	8	28	50	35	M8	
T00BT40030-08100A	BT40 EM08-100J	8	100	8	28	100	35	M8	
T00BT40030-10063A	BT40 EM10-063J	10	63	10	35	63	39	M10	
T00BT40030-10100A	BT40 EM10-100J	10	100	10	35	100	39	M10	
T00BT40030-12063A	BT40 EM12-063J	12	63	12	42	63	44	M12	
T00BT40030-12100A	BT40 EM12-100J	12	100	12	42	100	44	M12	
T00BT40030-14063A	BT40 EM14-063J	14	63	14	42	63	44	M12	
T00BT40030-14100A	BT40 EM14-100J	14	100	14	42	100	44	M12	
T00BT40030-16063A	BT40 EM16-063J	16	63	16	48	63	47	M14	
T00BT40030-16100A	BT40 EM16-100J	16	100	16	48	100	47	M14	
T00BT40030-18063A	BT40 EM18-063J	18	63	18	48	63	47	M14	
T00BT40030-18100A	BT40 EM18-100J	18	100	18	48	100	47	M14	
T00BT40030-20063A	BT40 EM20-063J	20	63	20	52	63	49	M16	
T00BT40030-20100A	BT40 EM20-100J	20	100	20	52	100	49	M16	
T00BT40030-25090A	BT40 EM25-090J	25	90	25	65	90	64	M18	
T00BT40030-25160A	BT40 EM25-160J	25	160	25	65	160	64	M18	
T00BT40030-32100A	BT40 EM32-100J	32	100	32	72	100	68	M20	
T00BT40030-32160A	BT40 EM32-160J	32	160	32	72	160	68	M20	

**BT50 END MILL HOLDER COOLANT SLOT METRIC**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT50030-06063A	BT50 EM06-063J	6	63	6	25	63	30	M6	M24
T00BT50030-06100A	BT50 EM06-100J	6	100	6	25	100	30	M6	
T00BT50030-06160A	BT50 EM06-160J	6	160	6	25	160	30	M6	
T00BT50030-08063A	BT50 EM08-063J	8	63	8	28	63	35	M8	
T00BT50030-08100A	BT50 EM08-100J	8	100	8	28	100	35	M8	
T00BT50030-08160A	BT50 EM08-160J	8	160	8	28	160	35	M8	
T00BT50030-10080A	BT50 EM10-080J	10	80	10	35	80	40	M10	
T00BT50030-10100A	BT50 EM10-100J	10	100	10	35	100	40	M10	
T00BT50030-10160A	BT50 EM10-160J	10	160	10	35	160	40	M10	
T00BT50030-12080A	BT50 EM12-080J	12	80	12	42	80	44	M12	
T00BT50030-12100A	BT50 EM12-100J	12	100	12	42	100	44	M12	
T00BT50030-12160A	BT50 EM12-160J	12	160	12	42	160	44	M12	
T00BT50030-14080A	BT50 EM14-080J	14	80	14	42	80	44	M12	
T00BT50030-14100A	BT50 EM14-100J	14	100	14	42	100	44	M12	
T00BT50030-16080A	BT50 EM16-080J	16	80	16	48	80	47	M14	
T00BT50030-16100A	BT50 EM16-100J	16	100	16	48	100	47	M14	
T00BT50030-16160A	BT50 EM16-160J	16	160	16	48	160	47	M14	
T00BT50030-18080A	BT50 EM18-080J	18	80	18	48	80	47	M14	
T00BT50030-18100A	BT50 EM18-100J	18	100	18	48	100	47	M14	
T00BT50030-20080A	BT50 EM20-080J	20	80	20	52	80	49	M16	
T00BT50030-20100A	BT50 EM20-100J	20	100	20	52	100	49	M16	
T00BT50030-20160A	BT50 EM20-160J	20	160	20	52	160	49	M16	
T00BT50030-25105A	BT50 EM25-105J	25	105	25	65	105	64	M18	
T00BT50030-25160A	BT50 EM25-160J	25	160	25	65	160	64	M18	
T00BT50030-32105A	BT50 EM32-105J	32	105	32	72	105	68	M20	
T00BT50030-32160A	BT50 EM32-160J	32	160	32	72	160	68	M20	



**STANDARD TOOL HOLDER**

**END MILL HOLDER COOLANT SLOT - 030 DIN 1835B**

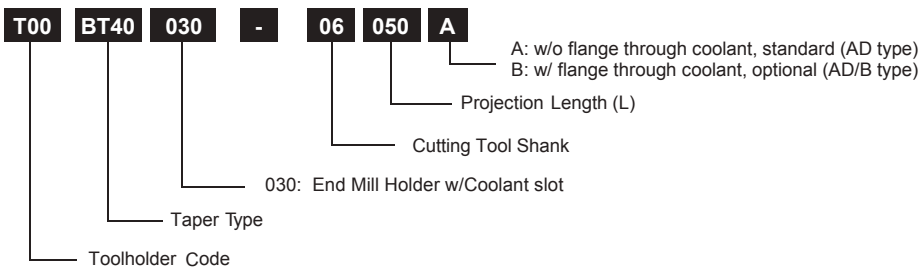
**ACCESSORIES:**

Set Screw for End Mill Holder METRIC		
Order Number	Part Name	END MILL
T06EM06-BT	EM06 Set Screw	6
T06EM08-BT	EM08 Set Screw	8
T06EM10-BT	EM10 Set Screw	10
T06EM12-BT	EM12&14 Set Screw	12 , 14
T06EM16-BT	EM16&18Set Screw	16 , 18
T06EM20-BT	EM20 Set Screw	20
T06EM25-BT	EM25 Set Screw	25
T06EM32-BT	EM32 Set Screw	32
T06EM40-BT	EM40&42Set Screw	40 , 42
T06EM50-BT	EM50 Set Screw	50
T06EM63-BT	EM63 Set Screw	63



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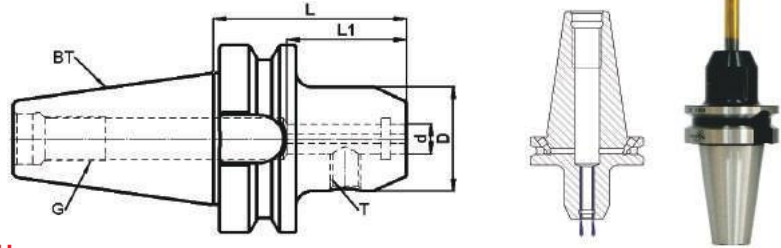
**Order Number Instruction**



**END MILL HOLDER COOLANT SLOT - 030 DIN 1835B**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
 Option to G2.5 25000 rpm



**BT30 END MILL HOLDER COOLANT SLOT INCH**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT30030A03050A	BT30 EM1/8"-1.97"J	1/8"	1.97"	1/8"	0.69"	1.97"	0.63"	No.6-32	M12
T00BT30030A05050A	BT30 EM3/16"-1.97"J	3/16"	1.97"	3/16"	0.79"	1.97"	0.86"	No.8-32	
T00BT30030A06050A	BT30 EM1/4"-1.97"J	1/4"	1.97"	1/4"	0.79"	1.97"	1.18"	1/4"-28	
T00BT30030A08050A	BT30 EM5/16"-1.97"J	5/16"	1.97"	5/16"	1.00"	1.97"	1.38"	1/4"-28	
T00BT30030A09050A	BT30 EM3/8"-1.97"J	3/8"	1.97"	3/8"	1.00"	1.97"	1.54"	3/8"-24	
T00BT30030A12063A	BT30 EM1/2"-2.48"J	1/2"	2.48"	1/2"	1.38"	2.56"	1.73"	7/16"-20	
T00BT30030A16063A	BT30 EM5/8"-2.48"J	5/8"	2.48"	5/8"	1.65"	2.56"	2.09"	9/16"-18	
T00BT30030A19063A	BT30 EM3/4"-2.48"J	3/4"	2.48"	3/4"	1.89"	2.56"	2.24"	5/8"-18	

**BT40 END MILL HOLDER COOLANT SLOT INCH**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT40030A03065A	BT40 EM1/8"-2.56"J	1/8"	2.56"	1/8"	0.69"	2.56"	0.63"	No.6-32	M16
T00BT40030A05065A	BT40 EM3/16"-2.56"J	3/16"	2.56"	3/16"	0.79"	2.56"	0.86"	No.8-32	
T00BT40030A06065A	BT40 EM1/4"-2.56"J	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28	
T00BT40030A06102A	BT40 EM1/4"-4.00"J	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28	
T00BT40030A08063A	BT40 EM5/16"-2.50"J	5/16"	2.50"	5/16"	1.00"	2.50"	1.38"	1/4"-28	
T00BT40030A08102A	BT40 EM5/16"-4.00"J	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28	
T00BT40030A09065A	BT40 EM3/8"-2.56"J	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24	
T00BT40030A09102A	BT40 EM3/8"-4.00"J	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24	
T00BT40030A12065A	BT40 EM1/2"-2.56"J	1/2"	2.56"	1/2"	1.38"	2.56"	1.73"	7/16"-20	
T00BT40030A12102A	BT40 EM1/2"-4.00"J	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20	
T00BT40030A16065A	BT40 EM5/8"-2.56"J	5/8"	2.56"	5/8"	1.65"	2.56"	2.09"	9/16"-18	
T00BT40030A16102A	BT40 EM5/8"-4.00"J	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18	
T00BT40030A19065A	BT40 EM3/4"-2.56"J	3/4"	2.56"	3/4"	1.89"	2.56"	2.24"	5/8"-18	
T00BT40030A19102A	BT40 EM3/4"-4.00"J	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18	
T00BT40030A22089A	BT40 EM7/8"-3.50"J	7/8"	3.50"	7/8"	2.00"	3.50"	2.17"	5/8"-18	
T00BT40030A25102A	BT40 EM1"-4.00"J	1"	4.00"	1"	2.36"	4.00"	2.52"	3/4"-16	
T00BT40030A25152A	BT40 EM1"-6.00"J	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16	
T00BT40030A32102A	BT40 EM1 1/4"-4.00"J	1 1/4"	4.00"	1 1/4"	2.83"	4.00"	2.68"	3/4"-16	
T00BT40030A32152A	BT40 EM1 1/4"-6.00"J	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16	

**BT50 END MILL HOLDER COOLANT SLOT INCH**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT50030A06065A	BT50 EM1/4"-2.56"J	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28	M24
T00BT50030A06102A	BT50 EM1/4"-4.00"J	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28	
T00BT50030A06152A	BT50 EM1/4"-6.00"J	1/4"	6.00"	1/4"	0.79"	6.00"	1.18"	1/4"-28	
T00BT50030A08065A	BT50 EM5/16"-2.56"J	5/16"	2.56"	5/16"	1.00"	2.56"	1.38"	1/4"-28	
T00BT50030A08102A	BT50 EM5/16"-4.00"J	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28	
T00BT50030A08152A	BT50 EM5/16"-6.00"J	5/16"	6.00"	5/16"	1.00"	6.00"	1.38"	1/4"-28	
T00BT50030A09065A	BT50 EM3/8"-2.56"J	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24	
T00BT50030A09102A	BT50 EM3/8"-4.00"J	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24	
T00BT50030A09152A	BT50 EM3/8"-6.00"J	3/8"	6.00"	3/8"	1.00"	6.00"	1.54"	3/8"-24	
T00BT50030A12076A	BT50 EM1/2"-3.00"J	1/2"	3.00"	1/2"	1.38"	3.00"	1.73"	7/16"-20	
T00BT50030A12102A	BT50 EM1/2"-4.00"J	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20	
T00BT50030A12152A	BT50 EM1/2"-6.00"J	1/2"	6.00"	1/2"	1.38"	6.00"	1.73"	7/16"-20	
T00BT50030A16076A	BT50 EM5/8"-3.00"J	5/8"	3.00"	5/8"	1.65"	3.00"	2.09"	9/16"-18	
T00BT50030A16102A	BT50 EM5/8"-4.00"J	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18	
T00BT50030A16152A	BT50 EM5/8"-6.00"J	5/8"	6.00"	5/8"	1.65"	6.00"	2.09"	9/16"-18	
T00BT50030A19076A	BT50 EM3/4"-3.00"J	3/4"	3.00"	3/4"	1.89"	3.00"	2.24"	5/8"-18	
T00BT50030A19102A	BT50 EM3/4"-4.00"J	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18	
T00BT50030A22089A	BT50 EM7/8"-3.50"J	7/8"	3.50"	7/8"	2.00"	3.50"	2.17"	5/8"-18	
T00BT50030A22152A	BT50 EM7/8"-6.00"J	7/8"	6.00"	7/8"	2.00"	6.00"	2.17"	5/8"-18	
T00BT50030A25102A	BT50 EM1"-4.00"J	1"	4.00"	1"	2.36"	4.00"	2.52"	3/4"-16	
T00BT50030A25152A	BT50 EM1"-6.00"J	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16	
T00BT50030A32102A	BT50 EM1 1/4"-4.00"J	1 1/4"	4.00"	1 1/4"	2.83"	4.00"	2.68"	3/4"-16	
T00BT50030A32152A	BT50 EM1 1/4"-6.00"J	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16	

**STANDARD TOOL HOLDER**

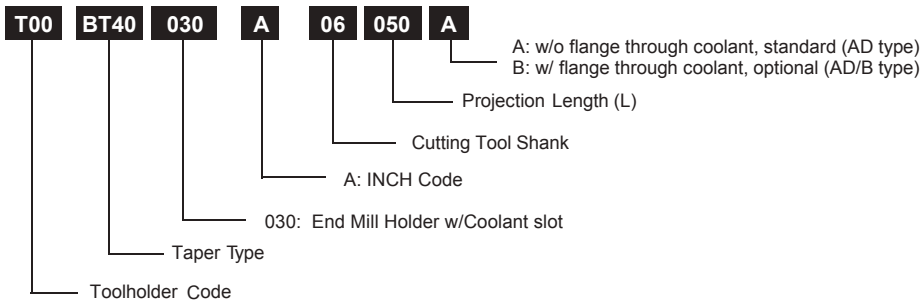
**END MILL HOLDER COOLANT SLOT - 030 DIN 1835B**

**ACCESSORIES:**

Set Screw for End Mill Holder INCH		
Order Number	Part Name	END MILL
T06EM03-CA	EM1/8",Set Screw	1/8"
T06EM05-CA	EM3/16",Set Screw	3/16"
T06EM06-CA	EM1/4",Set Screw	1/4"
T06EM09-CA	EM3/8",Set Screw	3/8"
T06EM12-CA	EM1/2",Set Screw	1/2"
T06EM16-CA01	EM5/8",Set Screw01	5/8"
T06EM16-CA02	EM5/8",Set Screw02	5/8"
T06EM19-CA01	EM3/4",Set Screw01	3/4"
T06EM19-CA02	EM3/4",Set Screw02	3/4"
T06EM25-CA01	EM1",Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1",Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1",Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



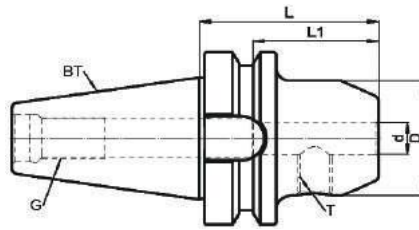
**Order Number Instruction**



**END MILL HOLDER - 040 DIN 1835B**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
 Option to G2.5 25000 rpm



**BT30 END MILL HOLDER METRIC**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT30040-06050A	BT30 EM06-050	6	50	6	25	50	30	M6	M12
T00BT30040-08050A	BT30 EM08-050	8	50	8	28	50	35	M8	
T00BT30040-10050A	BT30 EM10-050	10	50	10	35	50	40	M10	
T00BT30040-12063A	BT30 EM12-063	12	63	12	42	63	44	M12	
T00BT30040-16063A	BT30 EM16-063	16	63	16	48	63	47	M14	
T00BT30040-20063A	BT30 EM20-063	20	63	20	52	63	49	M16	

**BT40 END MILL HOLDER METRIC**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT40040-06050A	BT40 EM06-050	6	50	6	25	50	30	M6	M16
T00BT40040-06100A	BT40 EM06-100	6	100	6	25	100	30	M6	
T00BT40040-06160A	BT40 EM06-160	6	160	6	25	160	30	M6	
T00BT40040-06200A	BT40 EM06-200	6	200	6	25	200	30	M6	
T00BT40040-08050A	BT40 EM08-050	8	50	8	28	50	35	M8	
T00BT40040-08100A	BT40 EM08-100	8	100	8	28	100	35	M8	
T00BT40040-08160A	BT40 EM08-160	8	160	8	28	160	35	M8	
T00BT40040-08200A	BT40 EM08-200	8	200	8	28	200	35	M8	
T00BT40040-10063A	BT40 EM10-063	10	63	10	35	63	39	M10	
T00BT40040-10100A	BT40 EM10-100	10	100	10	35	100	39	M10	
T00BT40040-10160A	BT40 EM10-160	10	160	10	35	160	39	M10	
T00BT40040-10200A	BT40 EM10-200	10	200	10	35	200	39	M10	
T00BT40040-12063A	BT40 EM12-063	12	63	12	42	63	44	M12	
T00BT40040-12100A	BT40 EM12-100	12	100	12	42	100	44	M12	
T00BT40040-12160A	BT40 EM12-160	12	160	12	42	160	44	M12	
T00BT40040-12200A	BT40 EM12-200	12	200	12	42	200	44	M12	
T00BT40040-14063A	BT40 EM14-063	14	63	14	42	63	44	M12	
T00BT40040-14100A	BT40 EM14-100	14	100	14	42	100	44	M12	
T00BT40040-16063A	BT40 EM16-063	16	63	16	48	63	47	M14	
T00BT40040-16100A	BT40 EM16-100	16	100	16	48	100	47	M14	
T00BT40040-16160A	BT40 EM16-160	16	160	16	48	160	47	M14	
T00BT40040-16200A	BT40 EM16-200	16	200	16	48	200	47	M14	
T00BT40040-18063A	BT40 EM18-063	18	63	18	48	63	47	M14	
T00BT40040-18100A	BT40 EM18-100	18	100	18	48	100	47	M14	
T00BT40040-20063A	BT40 EM20-063	20	63	20	52	63	49	M16	
T00BT40040-20100A	BT40 EM20-100	20	100	20	52	100	49	M16	
T00BT40040-20160A	BT40 EM20-160	20	160	20	52	160	49	M16	
T00BT40040-20200A	BT40 EM20-200	20	200	20	52	200	49	M16	
T00BT40040-25090A	BT40 EM25-090	25	90	25	65	90	64	M18	
T00BT40040-25160A	BT40 EM25-160	25	160	25	65	160	64	M18	
T00BT40040-25200A	BT40 EM25-200	25	200	25	65	200	64	M18	
T00BT40040-32100A	BT40 EM32-100	32	100	32	72	100	68	M20	
T00BT40040-32160A	BT40 EM32-160	32	160	32	72	160	68	M20	
T00BT40040-32200A	BT40 EM32-200	32	200	32	72	200	68	M20	
T00BT40040-40120A	BT40 EM40-120	40	120	40	80	120	78	M20	
T00BT40040-40160A	BT40 EM40-160	40	160	40	80	160	78	M20	
T00BT40040-40200A	BT40 EM40-200	40	200	40	80	200	78	M20	
T00BT40040-42105A	BT40 EM42-105	42	105	42	80	105	80	M20	

**BT50 END MILL HOLDER METRIC**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT50040-06063A	BT50 EM06-063	6	63	6	25	63	30	M6	M24
T00BT50040-06100A	BT50 EM06-100	6	100	6	25	100	30	M6	
T00BT50040-06160A	BT50 EM06-160	6	160	6	25	160	30	M6	
T00BT50040-06200A	BT50 EM06-200	6	200	6	25	200	30	M6	
T00BT50040-08063A	BT50 EM08-063	8	63	8	28	63	35	M8	
T00BT50040-08100A	BT50 EM08-100	8	100	8	28	100	35	M8	
T00BT50040-08160A	BT50 EM08-160	8	160	8	28	160	35	M8	
T00BT50040-08200A	BT50 EM08-200	8	200	8	28	200	35	M8	
T00BT50040-10080A	BT50 EM10-080	10	80	10	35	80	40	M10	
T00BT50040-10100A	BT50 EM10-100	10	100	10	35	100	40	M10	
T00BT50040-10160A	BT50 EM10-160	10	160	10	35	160	40	M10	
T00BT50040-10200A	BT50 EM10-200	10	200	10	35	200	40	M10	
T00BT50040-12080A	BT50 EM12-080	12	80	12	42	80	44	M12	

**STANDARD TOOL HOLDER**

**END MILL HOLDER - 040 DIN 1835B**

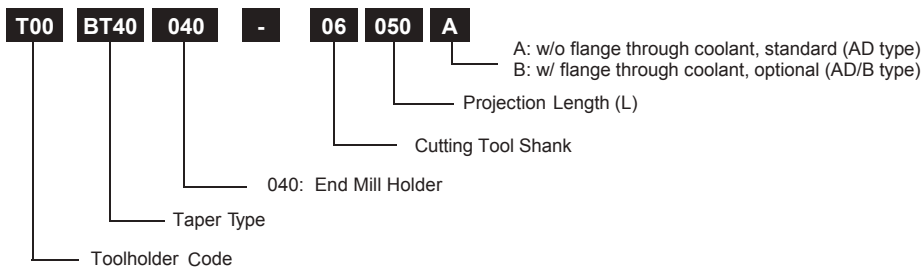
Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT50040-12100A	BT50 EM12-100	12	100	12	42	100	44	M12	M24
T00BT50040-12160A	BT50 EM12-160	12	160	12	42	160	44	M12	
T00BT50040-12200A	BT50 EM12-200	12	200	12	42	200	44	M12	
T00BT50040-14080A	BT50 EM14-080	14	80	14	42	80	44	M12	
T00BT50040-14100A	BT50 EM14-100	14	100	14	42	100	44	M12	
T00BT50040-16080A	BT50 EM16-080	16	80	16	48	80	47	M14	
T00BT50040-16100A	BT50 EM16-100	16	100	16	48	100	47	M14	
T00BT50040-16160A	BT50 EM16-160	16	160	16	48	160	47	M14	
T00BT50040-16200A	BT50 EM16-200	16	200	16	48	200	47	M14	
T00BT50040-18080A	BT50 EM18-080	18	80	18	48	80	47	M14	
T00BT50040-18100A	BT50 EM18-100	18	100	18	48	100	47	M14	
T00BT50040-20080A	BT50 EM20-080	20	80	20	52	80	49	M16	
T00BT50040-20100A	BT50 EM20-100	20	100	20	52	100	49	M16	
T00BT50040-20160A	BT50 EM20-160	20	160	20	52	160	49	M16	
T00BT50040-20200A	BT50 EM20-200	20	200	20	52	200	49	M16	
T00BT50040-25105A	BT50 EM25-105	25	105	25	65	105	64	M18	
T00BT50040-25160A	BT50 EM25-160	25	160	25	65	160	64	M18	
T00BT50040-25200A	BT50 EM25-200	25	200	25	65	200	64	M18	
T00BT50040-32105A	BT50 EM32-105	32	105	32	72	105	68	M20	
T00BT50040-32160A	BT50 EM32-160	32	160	32	72	160	68	M20	
T00BT50040-32200A	BT50 EM32-200	32	200	32	72	200	68	M20	
T00BT50040-40120A	BT50 EM40-120	40	120	40	80	120	78	M20	
T00BT50040-40160A	BT50 EM40-160	40	160	40	80	160	78	M20	
T00BT50040-40200A	BT50 EM40-200	40	200	40	80	200	78	M20	
T00BT50040-50130A	BT50 EM50-130	50	130	50	92	130	83	M24	
T00BT50040-50160A	BT50 EM50-160	50	160	50	92	160	83	M24	
T00BT50040-50200A	BT50 EM50-200	50	200	50	92	200	83	M24	

**ACCESSORIES:**

Set Screw for End Mill Holder METRIC		
Order Number	Part Name	END MILL
T06EM06-BT	EM06 Set Screw	6
T06EM08-BT	EM08 Set Screw	8
T06EM10-BT	EM10 Set Screw	10
T06EM12-BT	EM12&14 Set Screw	12 , 14
T06EM16-BT	EM16&18Set Screw	16 , 18
T06EM20-BT	EM20 Set Screw	20
T06EM25-BT	EM25 Set Screw	25
T06EM32-BT	EM32 Set Screw	32
T06EM40-BT	EM40&42Set Screw	40 , 42
T06EM50-BT	EM50 Set Screw	50
T06EM63-BT	EM63 Set Screw	63



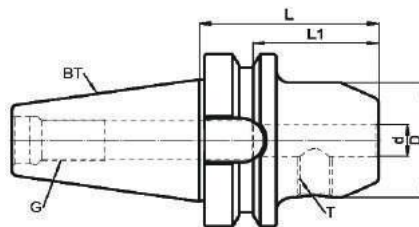
**Order Number Instruction**



## END MILL HOLDER - 040 DIN 1835B

### Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



### BT30 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT30040A03050A	BT30 EM1/8"-1.97"	1/8"	1.97"	1/8"	0.69"	1.97"	0.63"	No.6-32	M12
T00BT30040A05050A	BT30 EM3/16"-1.97"	3/16"	1.97"	3/16"	0.79"	1.97"	0.86"	No.8-32	
T00BT30040A06050A	BT30 EM1/4"-1.97"	1/4"	1.97"	1/4"	0.79"	1.97"	1.18"	1/4"-28	
T00BT30040A08050A	BT30 EM5/16"-1.97"	5/16"	1.97"	5/16"	1.00"	1.97"	1.38"	1/4"-28	
T00BT30040A09050A	BT30 EM3/8"-1.97"	3/8"	1.97"	3/8"	1.00"	1.97"	1.54"	3/8"-24	
T00BT30040A12063A	BT30 EM1/2"-2.48"	1/2"	2.48"	1/2"	1.38"	2.56"	1.73"	7/16"-20	
T00BT30040A16063A	BT30 EM5/8"-2.48"	5/8"	2.48"	5/8"	1.65"	2.56"	2.09"	9/16"-18	
T00BT30040A19063A	BT30 EM3/4"-2.48"	3/4"	2.48"	3/4"	1.89"	2.56"	2.24"	5/8"-18	

### BT40 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT40040A03065A	BT40 EM1/8"-2.56"	1/8"	2.56"	1/8"	0.69"	2.56"	0.63"	No.6-32	M16
T00BT40040A05065A	BT40 EM3/16"-2.56"	3/16"	2.56"	3/16"	0.79"	2.56"	0.86"	No.8-32	
T00BT40040A06065A	BT40 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28	
T00BT40040A06102A	BT40 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28	
T00BT40040A06152A	BT40 EM1/4"-6.00"	1/4"	6.00"	1/4"	0.79"	6.00"	1.18"	1/4"-28	
T00BT40040A06203A	BT40 EM1/4"-8.00"	1/4"	8.00"	1/4"	0.79"	8.00"	1.18"	1/4"-28	
T00BT40040A08063A	BT40 EM5/16"-2.50"	5/16"	2.50"	5/16"	1.00"	2.50"	1.38"	1/4"-28	
T00BT40040A08102A	BT40 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28	
T00BT40040A08152A	BT40 EM5/16"-6.00"	5/16"	6.00"	5/16"	1.00"	6.00"	1.38"	1/4"-28	
T00BT40040A08203A	BT40 EM5/16"-8.00"	5/16"	8.00"	5/16"	1.00"	8.00"	1.38"	1/4"-28	
T00BT40040A09065A	BT40 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24	
T00BT40040A09102A	BT40 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24	
T00BT40040A09152A	BT40 EM3/8"-6.00"	3/8"	6.00"	3/8"	1.00"	6.00"	1.54"	3/8"-24	
T00BT40040A09203A	BT40 EM3/8"-8.00"	3/8"	8.00"	3/8"	1.00"	8.00"	1.54"	3/8"-24	
T00BT40040A12065A	BT40 EM1/2"-2.56"	1/2"	2.56"	1/2"	1.38"	2.56"	1.73"	7/16"-20	
T00BT40040A12102A	BT40 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20	
T00BT40040A12152A	BT40 EM1/2"-6.00"	1/2"	6.00"	1/2"	1.38"	6.00"	1.73"	7/16"-20	
T00BT40040A12203A	BT40 EM1/2"-8.00"	1/2"	8.00"	1/2"	1.38"	8.00"	1.73"	7/16"-20	
T00BT40040A16065A	BT40 EM5/8"-2.56"	5/8"	2.56"	5/8"	1.65"	2.56"	2.09"	9/16"-18	
T00BT40040A16102A	BT40 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18	
T00BT40040A16152A	BT40 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	6.00"	2.09"	9/16"-18	
T00BT40040A16203A	BT40 EM5/8"-8.00"	5/8"	8.00"	5/8"	1.65"	8.00"	2.09"	9/16"-18	
T00BT40040A19065A	BT40 EM3/4"-2.56"	3/4"	2.56"	3/4"	1.89"	2.56"	2.24"	5/8"-18	
T00BT40040A19102A	BT40 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18	
T00BT40040A19152A	BT40 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	6.00"	2.24"	5/8"-18	
T00BT40040A19203A	BT40 EM3/4"-8.00"	3/4"	8.00"	3/4"	1.89"	8.00"	2.24"	5/8"-18	
T00BT40040A22089A	BT40 EM7/8"-3.50"	7/8"	3.50"	7/8"	2.00"	3.50"	2.17"	5/8"-18	
T00BT40040A22152A	BT40 EM7/8"-6.00"	7/8"	6.00"	7/8"	2.00"	6.00"	2.17"	5/8"-18	
T00BT40040A22203A	BT40 EM7/8"-8.00"	7/8"	8.00"	7/8"	2.00"	8.00"	2.17"	5/8"-18	
T00BT40040A25102A	BT40 EM1"-4.00"	1"	4.00"	1"	2.36"	4.00"	2.52"	3/4"-16	
T00BT40040A25152A	BT40 EM1"-6.00"	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16	
T00BT40040A25203A	BT40 EM1"-8.00"	1"	8.00"	1"	2.36"	8.00"	2.52"	3/4"-16	
T00BT40040A32102A	BT40 EM1 1/4"-4.00"	1 1/4"	4.00"	1 1/4"	2.83"	4.00"	2.68"	3/4"-16	
T00BT40040A32152A	BT40 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16	
T00BT40040A32203A	BT40 EM1 1/4"-8.00"	1 1/4"	8.00"	1 1/4"	2.83"	8.00"	2.68"	3/4"-16	

### BT50 END MILL HOLDER INCH

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT50040A06065A	BT50 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28	M24
T00BT50040A06102A	BT50 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28	
T00BT50040A06152A	BT50 EM1/4"-6.00"	1/4"	6.00"	1/4"	0.79"	6.00"	1.18"	1/4"-28	
T00BT50040A06203A	BT50 EM1/4"-8.00"	1/4"	8.00"	1/4"	0.79"	8.00"	1.18"	1/4"-28	
T00BT50040A08065A	BT50 EM5/16"-2.56"	5/16"	2.56"	5/16"	1.00"	2.56"	1.38"	1/4"-28	
T00BT50040A08102A	BT50 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28	
T00BT50040A08152A	BT50 EM5/16"-6.00"	5/16"	6.00"	5/16"	1.00"	6.00"	1.38"	1/4"-28	
T00BT50040A08203A	BT50 EM5/16"-8.00"	5/16"	8.00"	5/16"	1.00"	8.00"	1.38"	1/4"-28	
T00BT50040A09065A	BT50 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24	
T00BT50040A09102A	BT50 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24	
T00BT50040A09152A	BT50 EM3/8"-6.00"	3/8"	6.00"	3/8"	1.00"	6.00"	1.54"	3/8"-24	
T00BT50040A09203A	BT50 EM3/8"-8.00"	3/8"	8.00"	3/8"	1.00"	8.00"	1.54"	3/8"-24	
T00BT50040A12076A	BT50 EM1/2"-3.00"	1/2"	3.00"	1/2"	1.38"	3.00"	1.73"	7/16"-20	

**STANDARD TOOL HOLDER**

**END MILL HOLDER - 040 DIN 1835B**

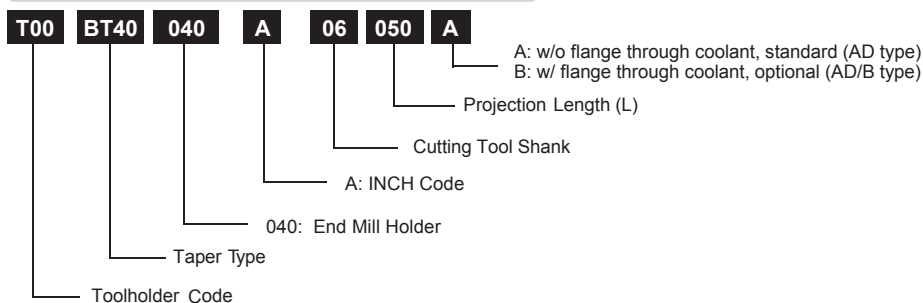
Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT50040A12102A	BT50 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20	M24
T00BT50040A12152A	BT50 EM1/2"-6.00"	1/2"	6.00"	1/2"	1.38"	6.00"	1.73"	7/16"-20	
T00BT50040A12203A	BT50 EM1/2"-8.00"	1/2"	8.00"	1/2"	1.38"	8.00"	1.73"	7/16"-20	
T00BT50040A16076A	BT50 EM5/8"-3.00"	5/8"	3.00"	5/8"	1.65"	3.00"	2.09"	9/16"-18	
T00BT50040A16102A	BT50 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18	
T00BT50040A16152A	BT50 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	6.00"	2.09"	9/16"-18	
T00BT50040A16203A	BT50 EM5/8"-8.00"	5/8"	8.00"	5/8"	1.65"	8.00"	2.09"	9/16"-18	
T00BT50040A19076A	BT50 EM3/4"-3.00"	3/4"	3.00"	3/4"	1.89"	3.00"	2.24"	5/8"-18	
T00BT50040A19102A	BT50 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18	
T00BT50040A19152A	BT50 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	6.00"	2.24"	5/8"-18	
T00BT50040A19203A	BT50 EM3/4"-8.00"	3/4"	8.00"	3/4"	1.89"	8.00"	2.24"	5/8"-18	
T00BT50040A22089A	BT50 EM7/8"-3.50"	7/8"	3.50"	7/8"	2.00"	3.50"	2.17"	5/8"-18	
T00BT50040A22152A	BT50 EM7/8"-6.00"	7/8"	6.00"	7/8"	2.00"	6.00"	2.17"	5/8"-18	
T00BT50040A22203A	BT50 EM7/8"-8.00"	7/8"	8.00"	7/8"	2.00"	8.00"	2.17"	5/8"-18	
T00BT50040A25102A	BT50 EM1"-4.00"	1"	4.00"	1"	2.36"	4.00"	2.52"	3/4"-16	
T00BT50040A25152A	BT50 EM1"-6.00"	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16	
T00BT50040A25203A	BT50 EM1"-8.00"	1"	8.00"	1"	2.36"	8.00"	2.52"	3/4"-16	
T00BT50040A32102A	BT50 EM1 1/4"-4.00"	1 1/4"	4.00"	1 1/4"	2.83"	4.00"	2.68"	3/4"-16	
T00BT50040A32152A	BT50 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16	
T00BT50040A32203A	BT50 EM1 1/4"-8.00"	1 1/4"	8.00"	1 1/4"	2.83"	8.00"	2.68"	3/4"-16	
T00BT50040A38102A	BT50 EM1 1/2"-4.00"	1 1/2"	4.00"	1 1/2"	2.75"	4.00"	2.38"	3/4"-16	
T00BT50040A38152A	BT50 EM1 1/2"-6.00"	1 1/2"	6.00"	1 1/2"	2.75"	6.00"	2.38"	3/4"-16	
T00BT50040A38203A	BT50 EM1 1/2"-8.00"	1 1/2"	8.00"	1 1/2"	2.75"	8.00"	2.38"	3/4"-16	
T00BT50040A50152A	BT50 EM2"-6.00"	2"	6.00"	2"	3.75"	6.00"	3.38"	1"-14	
T00BT50040A50203A	BT50 EM2"-8.00"	2"	8.00"	2"	3.75"	8.00"	3.38"	1"-14	

**ACCESSORIES:**

Set Screw for End Mill Holder INCH		
Order Number	Part Name	END MILL
T06EM03-CA	EM1/8",Set Screw	1/8"
T06EM05-CA	EM3/16",Set Screw	3/16"
T06EM06-CA	EM1/4",Set Screw	1/4"
T06EM09-CA	EM3/8",Set Screw	3/8"
T06EM12-CA	EM1/2",Set Screw	1/2"
T06EM16-CA01	EM5/8",Set Screw01	5/8"
T06EM16-CA02	EM5/8",Set Screw02	5/8"
T06EM19-CA01	EM3/4",Set Screw01	3/4"
T06EM19-CA02	EM3/4",Set Screw02	3/4"
T06EM25-CA01	EM1",Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1",Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1",Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM 2" Set Screw	2"



**Order Number Instruction**

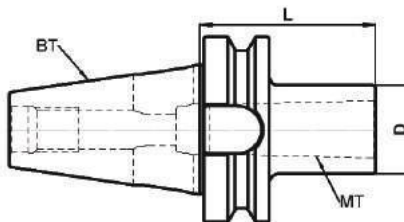


**STANDARD TOOL HOLDER**

**MORSE TAPER HOLDER - 070 DIN 6383**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
 Option to G2.5 25000 rpm



**BT40 MORSE TAPER HOLDER METRIC**

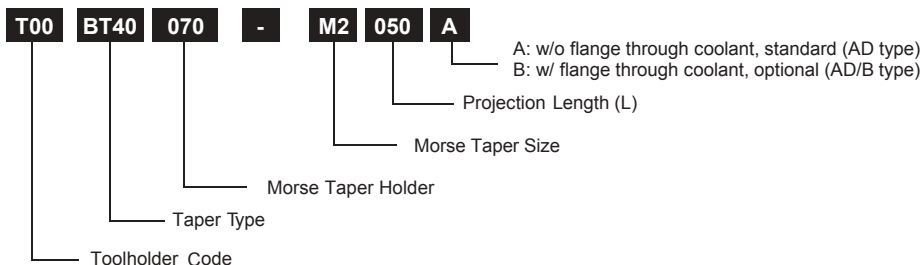
Order Number	Part Name	Morse Taper	Length	TM	D	L	Length
T00BT40070-01050A	BT40 MK1-050	MT1	50	MT1	25	50	1.97"
T00BT40070-02050A	BT40 MK2-050	MT2	50	MT2	32	50	1.97"
T00BT40070-03070A	BT40 MK3-070	MT3	70	MT3	40	70	2.76"
T00BT40070-04095A	BT40 MK4-095	MT4	95	MT4	48	95	3.74"

**BT50 MORSE TAPER HOLDER METRIC**

Order Number	Part Name	Morse Taper	Length	TM	D	L	Length
T00BT50070-01045A	BT50 MK1-045	MT1	45	MT1	25	45	1.77"
T00BT50070-02060A	BT50 MK2-060	MT2	60	MT2	32	60	2.36"
T00BT50070-03065A	BT50 MK3-065	MT3	65	MT3	40	65	2.56"
T00BT50070-04095A	BT50 MK4-095	MT4	95	MT4	48	95	3.74"
T00BT50070-05105A	BT50 MK5-105	MT5	105	MT5	63	105	4.13"

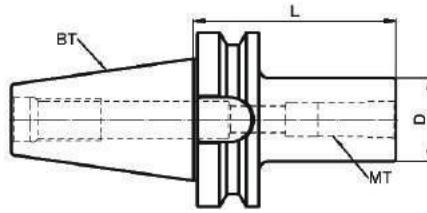


**Order Number Instruction**





- Quality**
- Taper Angle Tolerance: AT3+
  - Case Hardness: HRC 58 ± 2
  - Seat Runout: 0.005mm(0.0002")
  - Balance: G6.3 25000 rpm  
 Option to G2.5 25000 rpm



**BT40 MORSE TAPER HOLDER THREAD METRIC**

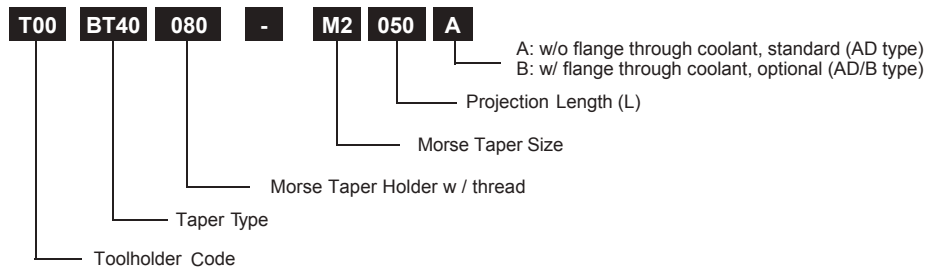
Order Number	Part Name	Morse Taper	Length	D	L	Length
T00BT40080-01050A	BT40 MK1-050	MT1	50	25	50	1.97"
T00BT40080-02050A	BT40 MK2-050	MT2	50	32	50	1.97"
T00BT40080-03070A	BT40 MK3-070	MT3	70	40	70	2.76"
T00BT40080-04095A	BT40 MK4-095	MT4	95	48	95	3.74"

**BT50 MORSE TAPER HOLDER THREAD METRIC**

Order Number	Part Name	Morse Taper	Length	D	L	Length
T00BT50080-01045A	BT50 MK1-045	MT1	45	25	45	1.77"
T00BT50080-02060A	BT50 MK2-060	MT2	60	32	60	2.36"
T00BT50080-03065A	BT50 MK3-065	MT3	65	40	65	2.56"
T00BT50080-04070A	BT50 MK4-070	MT4	70	48	70	3.74"
T00BT50080-05100A	BT50 MK5-100	MT5	100	63	100	4.13"

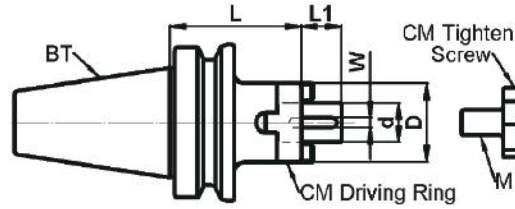


**Order Number Instruction**



**COMBI SHELL MILLING HOLDER - 100** *DIN6358*
**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm

**BT40 COMBI SHELL MILLING HOLDER METRIC**

Order Number	Part Name	d	L	D	L1	W	M
T00BT40100-16055A	BT40 CM16-055	16	55	32	27	4*20	M8
T00BT40100-16100A	BT40 CM16-100	16	100	32	27	4*20	M8
T00BT40100-16160A	BT40 CM16-160	16	160	32	27	4*20	M8
T00BT40100-16200A	BT40 CM16-200	16	200	32	27	4*20	M8
T00BT40100-22055A	BT40 CM22-055	22	55	40	31	6*25	M10
T00BT40100-22100A	BT40 CM22-100	22	100	40	31	6*25	M10
T00BT40100-22160A	BT40 CM22-160	22	160	40	31	6*25	M10
T00BT40100-22200A	BT40 CM22-200	22	200	40	31	6*25	M10
T00BT40100-27055A	BT40 CM27-055	27	55	48	33	7*25	M12
T00BT40100-27100A	BT40 CM27-100	27	100	48	33	7*25	M12
T00BT40100-27160A	BT40 CM27-160	27	160	48	33	7*25	M12
T00BT40100-27200A	BT40 CM27-200	27	200	48	33	7*25	M12
T00BT40100-32060A	BT40 CM32-060	32	60	58	38	8*28	M16
T00BT40100-32100A	BT40 CM32-100	32	100	58	38	8*28	M16
T00BT40100-32160A	BT40 CM32-160	32	160	58	38	8*28	M16
T00BT40100-32200A	BT40 CM32-200	32	200	58	38	8*28	M16
T00BT40100-40060A	BT40 CM40-060	40	60	70	41	10*32	M20
T00BT40100-40100A	BT40 CM40-100	40	100	70	41	10*32	M20
T00BT40100-40160A	BT40 CM40-160	40	160	70	41	10*32	M20
T00BT40100-40200A	BT40 CM40-200	40	200	70	41	10*32	M20

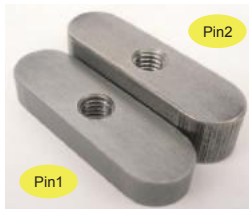
**BT50 COMBI SHELL MILLING HOLDER METRIC**

Order Number	Part Name	d	L	D	L1	W	M
T00BT50100-16070A	BT50 CM16-070	16	70	32	27	4*20	M8
T00BT50100-16100A	BT50 CM16-100	16	100	32	27	4*20	M8
T00BT50100-16160A	BT50 CM16-160	16	160	32	27	4*20	M8
T00BT50100-16200A	BT50 CM16-200	16	200	32	27	4*20	M8
T00BT50100-22070A	BT50 CM22-070	22	70	40	31	6*25	M10
T00BT50100-22100A	BT50 CM22-100	22	100	40	31	6*25	M10
T00BT50100-22160A	BT50 CM22-160	22	160	40	31	6*25	M10
T00BT50100-22200A	BT50 CM22-200	22	200	40	31	6*25	M10
T00BT50100-27070A	BT50 CM27-070	27	70	48	33	7*25	M12
T00BT50100-27100A	BT50 CM27-100	27	100	48	33	7*25	M12
T00BT50100-27160A	BT50 CM27-160	27	160	48	33	7*25	M12
T00BT50100-27200A	BT50 CM27-200	27	200	48	33	7*25	M12
T00BT50100-32070A	BT50 CM32-070	32	70	58	38	8*28	M16
T00BT50100-32100A	BT50 CM32-100	32	100	58	38	8*28	M16
T00BT50100-32160A	BT50 CM32-160	32	160	58	38	8*28	M16
T00BT50100-32200A	BT50 CM32-200	32	200	58	38	8*28	M16
T00BT50100-40070A	BT50 CM40-070	40	70	70	41	10*32	M20
T00BT50100-40100A	BT50 CM40-100	40	100	70	41	10*32	M20
T00BT50100-40160A	BT50 CM40-160	40	160	70	41	10*32	M20
T00BT50100-40200A	BT50 CM40-200	40	200	70	41	10*32	M20

Note: Combi shell mill holder includes two pins.

**STANDARD TOOL HOLDER**

**COMBI SHELL MILLING HOLDER - 100** *DIN6358*



Apply For	Pin 1	Pin 2
	for improving unbalanceable effect	for slot key
	Order No	Order No
CM16	T090403-200CC	T090404-198CC
CM22	T090604-250CC	T090606-248CC
CM27	T090705-250CC	T090707-249CC
CM32	T090805-280CC	T090807-279CC
CM40	T091005-320CC	T091008-319CC

**ACCESSORIES:**

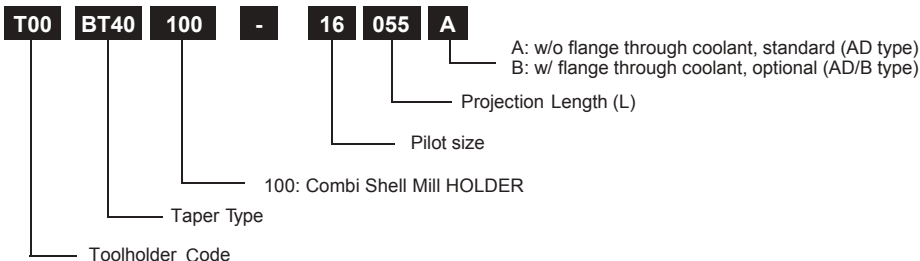
DRIVING RING METRIC		
Order Number	Part Name	Pilot Size
T15CM16	CM16 Driving Ring	CM16
T15CM22	CM22 Driving Ring	CM22
T15CM27	CM27 Driving Ring	CM27
T15CM32	CM32 Driving Ring	CM32
T15CM40	CM40 Driving Ring	CM40



LOCKING SCREW METRIC		
Order Number	Part Name	Pilot Size
T06SM16-DIN	CM16 Lock Screw	CM16
T06SM22-DIN	CM22 Lock Screw	CM22
T06SM27-DIN	CM27 Lock Screw	CM27
T06SM32-DIN	CM32 Lock Screw	CM32
T06SM40-DIN	CM40 Lock Screw	CM40



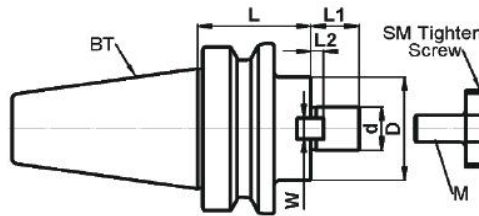
**Order Number Instruction**



SHELL MILLING HOLDER - 120 *DIN6357*

## Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm

BT30 SHELL MILLING HOLDER **METRIC**

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT30120-16040A	BT30 SM16-040	16	40	38	17	5	8	M8
T00BT30120-22040A	BT30 SM22-040	22	40	48	19	5	10	M10
T00BT30120-27040A	BT30 SM27-040	27	40	60	21	6	12	M12

BT40 SHELL MILLING HOLDER **METRIC**

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT40120-16040A	BT40 SM16-040	16	40	38	17	5	8	M8
T00BT40120-16100A	BT40-SM16-100	16	100	38	17	5	8	M8
T00BT40120-16160A	BT40-SM16-160	16	160	38	17	5	8	M8
T00BT40120-16200A	BT40-SM16-200	16	200	38	17	5	8	M8
T00BT40120-22040A	BT40 SM22-040	22	40	48	19	5	10	M10
T00BT40120-22100A	BT40 SM22-100	22	100	48	19	5	10	M10
T00BT40120-22160A	BT40 SM22-160	22	160	48	19	5	10	M10
T00BT40120-22200A	BT40 SM22-200	22	200	48	19	5	10	M10
T00BT40120-22040A01	BT40 SMB22-040	22	40	60	19	5	10	M10
T00BT40120-22100A01	BT40 SMB22-100	22	100	60	19	5	10	M10
T00BT40120-22160A01	BT40 SMB22-160	22	160	60	19	5	10	M10
T00BT40120-22200A01	BT40 SMB22-200	22	200	60	19	5	10	M10
T00BT40120-27040A	BT40 SM27-040	27	40	60	21	6	12	M12
T00BT40120-27100A	BT40 SM27-100	27	100	60	21	6	12	M12
T00BT40120-27160A	BT40 SM27-160	27	160	60	21	6	12	M12
T00BT40120-27200A	BT40 SM27-200	27	200	60	21	6	12	M12
T00BT40120-27060A01	BT40 SMB27-060	27	60	75	21	6	12	M12
T00BT40120-27100A01	BT40 SMB27-100	27	100	75	21	6	12	M12
T00BT40120-27160A01	BT40 SMB27-160	27	160	75	21	6	12	M12
T00BT40120-27200A01	BT40 SMB27-200	27	200	75	21	6	12	M12
T00BT40120-32050A	BT40 SM32-050	32	50	78	24	7	14	M16
T00BT40120-32100A	BT40 SM32-100	32	100	78	24	7	14	M16
T00BT40120-32160A	BT40 SM32-160	32	160	78	24	7	14	M16
T00BT40120-32200A	BT40 SM32-200	32	200	78	24	7	14	M16
T00BT40120-40050A	BT40 SM40-050	40	50	89	27	8.5	16	M20
T00BT40120-40100A	BT40 SM40-100	40	100	89	27	8.5	16	M20
T00BT40120-40160A	BT40 SM40-160	40	160	89	27	8.5	16	M20
T00BT40120-40200A	BT40 SM40-200	40	200	89	27	8.5	16	M20

BT50 SHELL MILLING HOLDER **METRIC**

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT50120-16050A	BT50 SM16-050	16	50	38	17	5	8	M8
T00BT50120-16100A	BT50 SM16-100	16	100	38	17	5	8	M8
T00BT50120-16160A	BT50 SM16-160	16	160	38	17	5	8	M8
T00BT50120-16200A	BT50 SM16-200	16	200	38	17	5	8	M8
T00BT50120-22050A	BT50 SM22-050	22	50	48	19	5	10	M10
T00BT50120-22100A	BT50 SM22-100	22	100	48	19	5	10	M10
T00BT50120-22120A	BT50 SM22-120	22	120	48	19	5	10	M10
T00BT50120-22160A	BT50 SM22-160	22	160	48	19	5	10	M10
T00BT50120-22200A	BT50 SM22-200	22	200	48	19	5	10	M10
T00BT50120-22050A01	BT50 SMB22-050	22	100	60	19	5	10	M10
T00BT50120-22100A01	BT50 SMB22-100	22	120	60	19	5	10	M10
T00BT50120-22160A01	BT50 SMB22-160	22	160	60	19	5	10	M10
T00BT50120-22200A01	BT50 SMB22-200	22	200	60	19	5	10	M10
T00BT50120-27050A	BT50 SM27-050	27	50	60	21	6	12	M12
T00BT50120-27100A	BT50 SM27-100	27	100	60	21	6	12	M12
T00BT50120-27160A	BT50 SM27-160	27	160	60	21	6	12	M12
T00BT50120-27200A	BT50 SM27-200	27	200	60	21	6	12	M12
T00BT50120-27050A01	BT50 SMB27-050	27	50	75	21	6	12	M12
T00BT50120-27100A01	BT50 SMB27-100	27	100	75	21	6	12	M12
T00BT50120-27160A01	BT50 SMB27-160	27	160	75	21	6	12	M12
T00BT50120-27200A01	BT50 SMB27-200	27	200	75	21	6	12	M12
T00BT50120-32050A	BT50 SM32-050	32	50	78	24	7	14	M16
T00BT50120-32100A	BT50 SM32-100	32	100	78	24	7	14	M16
T00BT50120-32160A	BT50 SM32-160	32	160	78	24	7	14	M16
T00BT50120-32200A	BT50 SM32-200	32	200	78	24	7	14	M16
T00BT50120-40050A	BT50 SM40-050	40	50	89	27	8.5	16	M20

SHELL MILLING HOLDER - 120 *DIN6357*

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT50120-40100A	BT50 SM40-100	40	100	89	27	8.5	16	M20
T00BT50120-40160A	BT50 SM40-160	40	160	89	27	8.5	16	M20
T00BT50120-40200A	BT50 SM40-200	40	200	89	27	8.5	16	M20
T00BT50120-60075A	BT50 SM60-075	60	75	129	40	12.5	25.4	M16*4

## ACCESSORIES:

## DRIVING KEY METRIC

Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40



## LOCK SCREW METRIC

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40



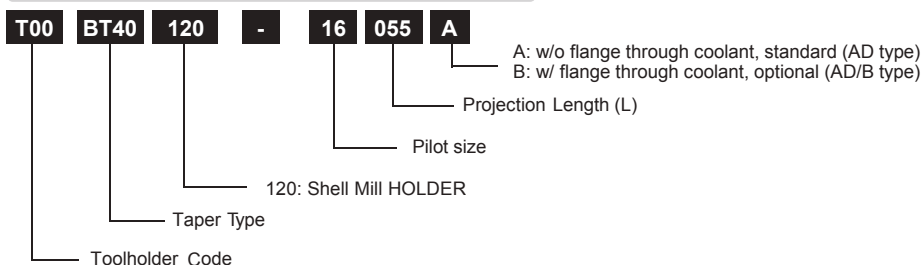
## LOCK BOLT METRIC

Order Number	Part Name	Pilot Size
T06SM16-BT01	SM16 Lock bolt	SM16
T06SM22-BT01	SM22 Lock bolt	SM22
T06SM27-BT01	SM27 Lock bolt	SM27
T06SM32-BT01	SM32 Lock bolt	SM32
T06SM40-BT01	SM40 Lock bolt	SM40



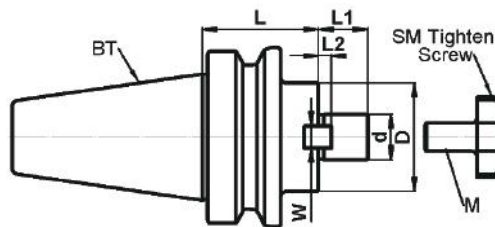
P198-P199

## Order Number Instruction



**SHELL MILLING HOLDER - 120** *DIN6357*
**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm

**BT30 SHELL MILLING HOLDER INCH**

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00BT30120A19030A	BT30 SM 3/4"-1.18"	3/4"	1.18"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT30120A25045A	BT30 SM1"-1.77"	1"	1.77"	2.25"	0.68"	0.22"	3/8"	1/2"-20

**BT40 SHELL MILLING HOLDER INCH**

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00BT40120A19051A	BT40 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT40120A19102A	BT40 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT40120A19051A01	BT40 SMB 3/4"-2.00"	3/4"	2.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT40120A19102A01	BT40 SMB 3/4"-4.00"	3/4"	4.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT40120A25051A	BT40 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT40120A25102A	BT40 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT40120A25051A01	BT40 SMB 1"-2.00"	1"	2.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT40120A25102A01	BT40 SMB 1"-4.00"	1"	4.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT40120A32051A	BT40 SM 1 1/4"-2.00"	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT40120A32102A	BT40 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT40120A38051A	BT40 SM 1 1/2"-2.00"	1 1/2"	2.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16

**BT50 SHELL MILLING HOLDER INCH**

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00BT50120A19102A	BT50 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50120A19152A	BT50 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50120A19203A	BT50 SM 3/4"-8.00"	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50120A19102A01	BT50 SMB 3/4"-4.00"	3/4"	4.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT50120A19152A01	BT50 SMB 3/4"-6.00"	3/4"	6.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT50120A19203A01	BT50 SMB 3/4"-8.00"	3/4"	8.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT50120A25051A	BT50 SM1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50120A25102A	BT50 SM1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50120A25150A	BT50 SM1"-5.91"	1"	5.91"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50120A25152A	BT50 SM1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50120A25200A	BT50 SM1"-7.87"	1"	7.87"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50120A25203A	BT50 SM1"-8.00"	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50120A25051A01	BT50 SMB 1"-2.00"	1"	2.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50120A25102A01	BT50 SMB 1"-4.00"	1"	4.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50120A25152A01	BT50 SMB 1"-6.00"	1"	6.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50120A25203A01	BT50 SMB 1"-8.00"	1"	8.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50120A32051A	BT50 SM 1 1/4"-2.00"	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50120A32102A	BT50 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50120A32152A	BT50 SM 1 1/4"-6.00"	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50120A32203A	BT50 SM 1 1/4"-8.00"	1 1/4"	8.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50120A32051A01	BT50 SMB 1 1/4"-2.00"	1 1/4"	2.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50120A32102A01	BT50 SMB 1 1/4"-4.00"	1 1/4"	4.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50120A32152A01	BT50 SMB 1 1/4"-6.00"	1 1/4"	6.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50120A32203A01	BT50 SMB 1 1/4"-8.00"	1 1/4"	8.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50120A38051A	BT50 SM 1 1/2"-2.00"	1 1/2"	2.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00BT50120A38102A	BT50 SM 1 1/2"-4.00"	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00BT50120A38051A01	BT50 SMB 1 1/2"-2.00"	1 1/2"	2.00"	3.90"	0.94"	0.35"	5/8"	3/4"-16
T00BT50120A38102A01	BT50 SMB 1 1/2"-4.00"	1 1/2"	4.00"	3.90"	0.94"	0.35"	5/8"	3/4"-16
T00BT50120A50051A	BT50 SM 2"-2.00"	2"	2.00"	4.88"	0.94"	0.39"	3/4"	1"-14
T00BT50120A50102A	BT50 SM 2"-4.00"	2"	4.00"	4.88"	0.94"	0.39"	3/4"	1"-14

SHELL MILLING HOLDER - 120 *DIN6357*

## ACCESSORIES:

## DRIVING KEY INCH

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"



## LOCK SCREW INCH

Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"



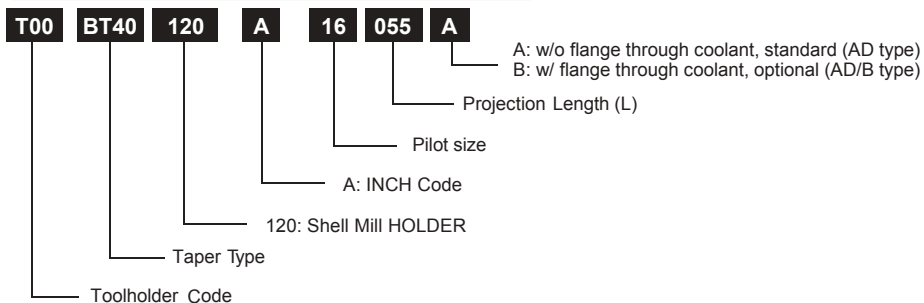
## LOCK BOLT INCH

Order Number	Part Name	Pilot Size
T06SM19-CAT01	SM3/4" Lock bolt	SM3/4"
T06SM25-CAT01	SM1" Lock bolt	SM1"
T06SM32-CAT01	SM1 1/4" Lock bolt	SM1 1/4"
T06SM38-CAT01	SM1 1/2" Lock bolt	SM1 1/2"
T06SM50-CAT01	SM2" Lock bolt	SM2"



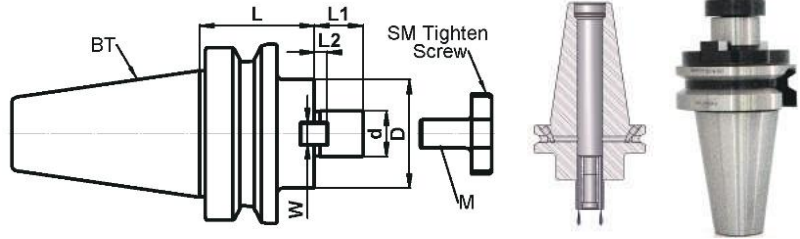
P198-P199

## Order Number Instruction



**SHELL MILLING HOLDER COOLANT SLOT - 130**
**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat runout: 0.005mm(0.0002")
- Balance: G6.3 25000rpm  
Option to G2.5 25000rpm


**BT40 SHELL MILLING HOLDER COOLANT SLOT METRIC**

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT40130-16040B	BT40 SM16-040J	16	40	38	17	5	8	M8
T00BT40130-16100B	BT40 SM16-100J	16	100	38	17	5	8	M8
T00BT40130-16160B	BT40 SM16-160J	16	160	38	17	5	8	M8
T00BT40130-16200B	BT40 SM16-200J	16	200	38	17	5	8	M8
T00BT40130-22040B	BT40 SM22-040J	22	40	48	19	5	10	M10
T00BT40130-22100B	BT40 SM22-100J	22	100	48	19	5	10	M10
T00BT40130-22160B	BT40 SM22-160J	22	160	48	19	5	10	M10
T00BT40130-22200B	BT40 SM22-200J	22	200	48	19	5	10	M10
T00BT40130-22040B01	BT40 SMB22-040J	22	40	60	19	5	10	M10
T00BT40130-22100B01	BT40 SMB22-100J	22	100	60	19	5	10	M10
T00BT40130-22160B01	BT40 SMB22-160J	22	160	60	19	5	10	M10
T00BT40130-22200B01	BT40 SMB22-200J	22	200	60	19	5	10	M10
T00BT40130-27040B	BT40 SM27-040J	27	40	60	21	6	12	M12
T00BT40130-27100B	BT40 SM27-100J	27	100	60	21	6	12	M12
T00BT40130-27160B	BT40 SM27-160J	27	160	60	21	6	12	M12
T00BT40130-27200B	BT40 SM27-200J	27	200	60	21	6	12	M12
T00BT40130-27060B01	BT40 SMB27-060J	27	60	75	21	6	12	M12
T00BT40130-27100B01	BT40 SMB27-100J	27	100	75	21	6	12	M12
T00BT40130-27160B01	BT40 SMB27-160J	27	160	75	21	6	12	M12
T00BT40130-27200B01	BT40 SMB27-200J	27	200	75	21	6	12	M12
T00BT40130-32050B	BT40 SM32-050J	32	50	78	24	7	14	M16
T00BT40130-32100B	BT40 SM32-100J	32	100	78	24	7	14	M16
T00BT40130-32160B	BT40 SM32-160J	32	160	78	24	7	14	M16
T00BT40130-32200B	BT40 SM32-200J	32	200	78	24	7	14	M16
T00BT40130-40050B	BT40 SM40-050J	40	50	89	27	8.5	16	M20
T00BT40130-40100B	BT40 SM40-100J	40	100	89	27	8.5	16	M20
T00BT40130-40160B	BT40 SM40-160J	40	160	89	27	8.5	16	M20

**BT50 SHELL MILLING HOLDER COOLANT SLOT METRIC**

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT50130-16050B	BT50 SM16-050J	16	50	38	17	5	8	M8
T00BT50130-16100B	BT50 SM16-100J	16	100	38	17	5	8	M8
T00BT50130-16160B	BT50 SM16-160J	16	160	38	17	5	8	M8
T00BT50130-16200B	BT50 SM16-200J	16	200	38	17	5	8	M8
T00BT50130-22050B	BT50 SM22-050J	22	50	48	19	5	10	M10
T00BT50130-22100B	BT50 SM22-100J	22	100	48	19	5	10	M10
T00BT50130-22120B	BT50 SM22-120J	22	120	48	19	5	10	M10
T00BT50130-22160B	BT50 SM22-160J	22	160	48	19	5	10	M10
T00BT50130-22200B	BT50 SM22-200J	22	200	48	19	5	10	M10
T00BT50130-22050B01	BT50 SMB22-050J	22	50	60	19	5	10	M10
T00BT50130-22100B01	BT50 SMB22-100J	22	100	60	19	5	10	M10
T00BT50130-22160B01	BT50 SMB22-160J	22	160	60	19	5	10	M10
T00BT50130-22200B01	BT50 SMB22-200J	22	200	60	19	5	10	M10
T00BT50130-27050B	BT50 SM27-050J	27	50	60	21	6	12	M12
T00BT50130-27100B	BT50 SM27-100J	27	100	60	21	6	12	M12
T00BT50130-27160B	BT50 SM27-160J	27	160	60	21	6	12	M12
T00BT50130-27200B	BT50 SM27-200J	27	200	60	21	6	12	M12
T00BT50130-27050B01	BT50 SMB27-050J	27	50	75	21	6	12	M12
T00BT50130-27100B01	BT50 SMB27-100J	27	100	75	21	6	12	M12
T00BT50130-27160B01	BT50 SMB27-160J	27	160	75	21	6	12	M12
T00BT50130-27200B01	BT50 SMB27-200J	27	200	75	21	6	12	M12
T00BT50130-32050B	BT50 SM32-050J	32	50	78	24	7	14	M16
T00BT50130-32100B	BT50 SM32-100J	32	100	78	24	7	14	M16
T00BT50130-32160B	BT50 SM32-160J	32	160	78	24	7	14	M16
T00BT50130-32200B	BT50 SM32-200J	32	200	78	24	7	14	M16
T00BT50130-40050B	BT50 SM40-050J	40	50	89	27	8.5	16	M20
T00BT50130-40100B	BT50 SM40-100J	40	100	89	27	8.5	16	M20
T00BT50130-40160B	BT50 SM40-160J	40	160	89	27	8.5	16	M20
T00BT50130-40200B	BT50 SM40-200J	40	200	89	27	8.5	16	M20
T00BT50130-60075B	BT50 SM60-075J	60	75	129	40	12.5	25.4	M16*4



## SHELL MILLING HOLDER COOLANT SLOT - 130

## ACCESSORIES:

## DRIVING KEY METRIC

Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40
T10SM60	SM60 Driving Key	SM60



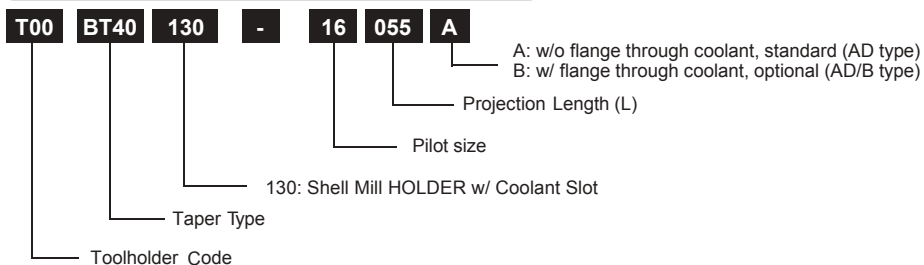
## LOCK SCREW METRIC

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40



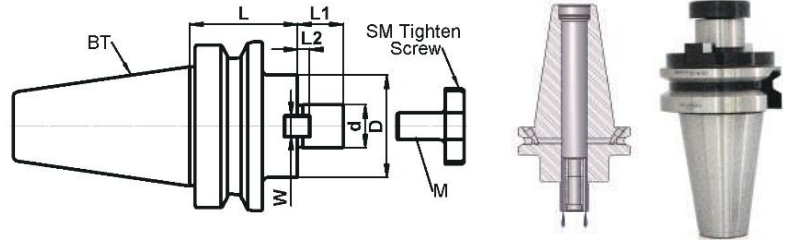
P198-P199

## Order Number Instruction



**SHELL MILLING HOLDER COOLANT SLOT - 130**
**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat runout: 0.005mm(0.0002")
- Balance: G6.3 25000rpm  
Option to G2.5 25000rpm

**BT40 SHELL MILLING HOLDER COOLANT SLOT INCH**

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00BT40130A19051B	BT40 SM 3/4"-2.00"J	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT40130A19102B	BT40 SM 3/4"-4.00"J	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT40130A19051B01	BT40 SMB 3/4"-2.00"J	3/4"	2.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT40130A19102B01	BT40 SMB 3/4"-4.00"J	3/4"	4.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT40130A25051B	BT40 SM 1"-2.00"J	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT40130A25102B	BT40 SM 1"-4.00"J	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT40130A25051B01	BT40 SMB 1"-2.00"J	1"	2.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT40130A25102B01	BT40 SMB 1"-4.00"J	1"	4.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT40130A32051B	BT40 SM 1 1/4"-2.00"J	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT40130A32102B	BT40 SM 1 1/4"-4.00"J	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT40130A38051B	BT40 SM 1 1/2"-2.00"J	1 1/2"	2.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16

**BT50 SHELL MILLING HOLDER COOLANT SLOT INCH**

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00BT50130A19102B	BT50 SM 3/4"-4.00"J	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50130A19152B	BT50 SM 3/4"-6.00"J	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50130A19203B	BT50 SM 3/4"-8.00"J	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50130A19102B01	BT50 SMB 3/4"-4.00"J	3/4"	4.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT50130A19152B01	BT50 SMB 3/4"-6.00"J	3/4"	6.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT50130A19203B01	BT50 SMB 3/4"-8.00"J	3/4"	8.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT50130A25051B	BT50 SM 1"-2.00"J	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50130A25102B	BT50 SM 1"-4.00"J	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50130A25152B	BT50 SM 1"-6.00"J	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50130A25203B	BT50 SM 1"-8.00"J	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50130A25051B01	BT50 SMB 1"-2.00"J	1"	2.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50130A25102B01	BT50 SMB 1"-4.00"J	1"	4.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50130A25152B01	BT50 SMB 1"-6.00"J	1"	6.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50130A25203B01	BT50 SMB 1"-8.00"J	1"	8.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50130A32051B	BT50 SM 1 1/4"-2.00"J	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50130A32102B	BT50 SM 1 1/4"-4.00"J	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50130A32152B	BT50 SM 1 1/4"-6.00"J	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50130A32203B	BT50 SM 1 1/4"-8.00"J	1 1/4"	8.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50130A32051B01	BT50 SMB 1 1/4"-2.00"J	1 1/4"	2.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50130A32102B01	BT50 SMB 1 1/4"-4.00"J	1 1/4"	4.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50130A32152B01	BT50 SMB 1 1/4"-6.00"J	1 1/4"	6.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50130A32203B01	BT50 SMB 1 1/4"-8.00"J	1 1/4"	8.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50130A38051B	BT50 SM 1 1/2"-2.00"J	1 1/2"	2.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00BT50130A38102B	BT50 SM 1 1/2"-4.00"J	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00BT50130A38051B01	BT50 SMB 1 1/2"-2.00"J	1 1/2"	2.00"	3.90"	0.94"	0.35"	5/8"	3/4"-16
T00BT50130A38102B01	BT50 SMB 1 1/2"-4.00"J	1 1/2"	4.00"	3.90"	0.94"	0.35"	5/8"	3/4"-16
T00BT50130A50051B	BT50 SM 2"-2.00"J	2"	2.00"	4.88"	0.94"	0.39"	3/4"	1"-14
T00BT50130A50102B	BT50 SM 2"-4.00"J	2"	4.00"	4.88"	0.94"	0.39"	3/4"	1"-14

**STANDARD TOOL HOLDER**

**SHELL MILLING HOLDER COOLANT SLOT - 130**

**ACCESSORIES:**

DRIVING KEY INCH		
Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"

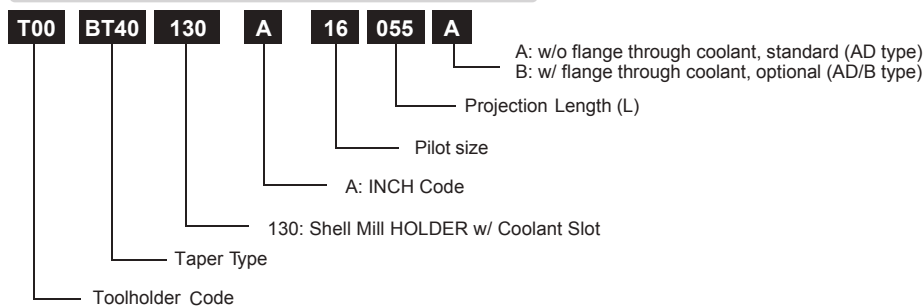


LOCK SCREW INCH		
Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"



P198-P199

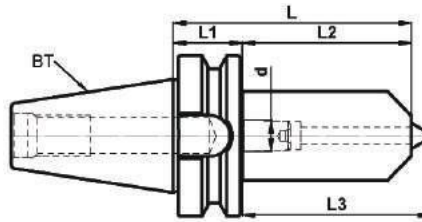
**Order Number Instruction**



**DRILL CHUCK HOLDER - 140**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat runout: 0.005mm(0.0002")
- Balance: G6.3 25000rpm  
Option to G2.5 25000rpm



**BT30 DRILL CHUCK HOLDER METRIC**

Order Number	Part Name	Mount	Length	Capabilities		L1	L2	L3
T00BT30140-08098C-B12	BT30 DC08-098-B12	B12	98	0.3-8	1/64-5/16"	30	68	76
T00BT30140-10110C-B12	BT30 DC10-110-B12	B12	110	0.3-10	1/64-3/8"	30	80	92
T00BT30140-13120C-B12	BT30 DC13-120-B12	B12	120	0.3-13	1/64-1/2"	30	90	102
T00BT30140A08098C-JT2	BT30 DC5/16"-3.86"-JT2	JT2	3.86"	0.3-8	1/64-5/16"	1.18"	2.44"	2.68"
T00BT30140A09110C-JT2	BT30 DC3/8"-4.33"-JT2	JT2	4.33"	0.3-10	1/64-3/8"	1.18"	3.15"	3.62"
T00BT30140A12120C-JT2	BT30 DC1/2"-4.72"-JT2	JT2	4.72"	0.3-13	1/64-1/2"	1.18"	3.54"	4.01"

**BT40 DRILL CHUCK HOLDER METRIC**

Order Number	Part Name	Mount	Length	Capabilities		L1	L2	L3
T00BT40140-08098C-B12	BT40 DC08-098-B12	B12	98	0.3-8	1/64-5/16"	30	68	76
T00BT40140-10110C-B12	BT40 DC10-110-B12	B12	110	0.3-10	1/64-3/8"	30	80	92
T00BT40140-13120C-B12	BT40 DC13-120-B12	B12	120	0.3-13	1/64-1/2"	30	90	102
T01BT40140-16127C-B16	BT40 DC16-127-B16	B16	127	3-16	1/8"-5/8"	30	97	110
T00BT40140A09110C-JT2	BT40 DC3/8"-4.33"-JT2	JT2	4.33"	0.3-10	1/64-3/8"	1.18"	3.15"	3.62"
T00BT40140A12120C-JT2	BT40 DC1/2"-4.72"-JT2	JT2	4.72"	0.3-13	1/64-1/2"	1.18"	3.54"	4.01"
T01BT40140A16127C-JT6	BT40 DC16-5.00"-JT6	JT6	5.00"	3-16	1/8"-5/8"	1.18"	3.82"	4.33"

**BT50 DRILL CHUCK HOLDER METRIC**

Order Number	Part Name	Mount	Length	Capabilities		L1	L2	L3
T00BT50140-13132C-B12	BT50 DC13-132-B12	B12	132	0.3-13	1/64-1/2"	42	90	102
T00BT50140-16139C-B16	BT50 DC16-139-B16	B16	139	3-16	1/8"-5/8"	42	97	110
T00BT50140A12132C-JT2	BT50 DC1/2"-5.19"-JT2	JT2	5.19"	0.3-13	1/64-1/2"	1.65"	3.54"	4.01"
T00BT50140A16139C-JT6	BT50 DC5/8"-5.47"-JT6	JT6	5.47"	3-16	1/8"-5/8"	1.65"	3.82"	4.33"

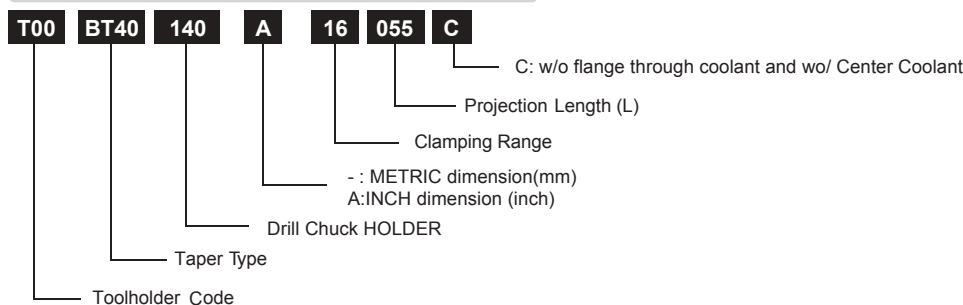
**ACCESSORIES:**

**DRILL CHUCK WRENCH**

Order Number	Part Name	Type	DC size
T07DC08-C	DC08 Wrench	C Type	8, 5/16"
T07DC10-C	DC10 Wrench	C Type	10, 3/8"
T07DC13-C	DC13 Wrench	C Type	13, 1/2"
T07DC16-C	DC16 Wrench	C Type	16, 5/8"



**Order Number Instruction**

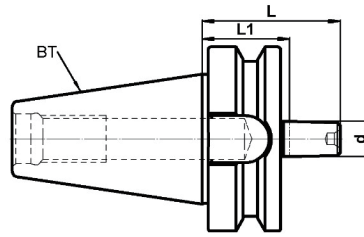


**STANDARD TOOL HOLDER**

**DRILL CHUCK ARBOR - 140**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat runout: 0.005mm(0.0002")
- Balance: G6.3 25000rpm  
Option to G2.5 25000rpm



**BT30 DRILL CHUCK ARBOR METRIC**

Order Number	Part Name	Mount	Length	L	Taper
T01BT30140B12030C	BT30 B12-030	B12	30	48	B12
T01BT30140-J1030C	BT30 JT1-030	JT1	1.18"	2.05"	JT1
T01BT30140-J2030C	BT30 JT2-030	JT2	1.18"	2.09"	JT2
T01BT30140-J6030C	BT30 JT6-030	JT6	1.18"	2.13"	JT6

**BT40 DRILL CHUCK ARBOR METRIC**

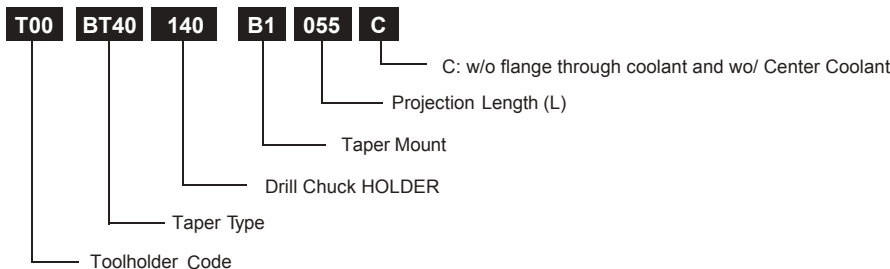
Order Number	Part Name	Mount	Length	L	Taper
T01BT40140B12030C	BT40 B12-030	B12	30	48	B12
T01BT40140B16030C	BT40 B16-030	B16	30	53	B16
T01BT40140-J2030C	BT40 JT2-030	JT2	1.18"	2.09"	JT2
T01BT40140-J6030C	BT40 JT6-030	JT6	1.18"	2.13"	JT6

**BT50 DRILL CHUCK ARBOR METRIC**

Order Number	Part Name	Mount	Length	L	Taper
T01BT50140B12042C	BT50 B12-042	B12	42	60	B12
T01BT50140B16042C	BT50 B16-042	B16	42	65	B16
T01BT50140-J2042C	BT50 JT2-042	JT2	1.65"	2.48"	JT2
T01BT50140-J6042C	BT50 JT6-042	JT6	1.65"	2.6"	JT6



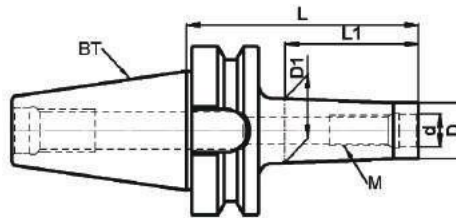
**Order Number Instruction**



## SCREW-IN HOLDER - 200

## Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat runout: 0.005mm(0.0002")
- Balance: G6.3 25000rpm  
Option to G2.5 25000rpm



## BT30 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1
T00BT30200-08035A	BT30 M08-035	M8	35	15	15	8.5	10
T00BT30200-08065A	BT30 M08-065	M8	65	15	16	8.5	40
T00BT30200-08087A	BT30 M08-087	M8	87	13	23	8.5	50
T00BT30200-08100A	BT30 M08-100	M8	100	13	23	8.5	50
T00BT30200-10035A	BT30 M10-035	M10	35	18	18	10.5	10
T00BT30200-10065A	BT30 M10-065	M10	65	18	20	10.5	40
T00BT30200-10087A	BT30 M10-087	M10	87	18	25	10.5	50
T00BT30200-10100A	BT30 M10-100	M10	100	18	25	10.5	50
T00BT30200-12035A	BT30 M12-035	M12	35	21	21	12.5	10
T00BT30200-12065A	BT30 M12-065	M12	65	21	23	12.5	40
T00BT30200-12087A	BT30 M12-087	M12	87	21	24	12.5	50
T00BT30200-12100A	BT30 M12-100	M12	100	21	24	12.5	50
T00BT30200-16035A	BT30 M16-035	M16	35	29	29	17	10
T00BT30200-16065A	BT30 M16-065	M16	65	29	33	17	40
T00BT30200-16087A	BT30 M16-087	M16	87	29	34	17	50
T00BT30200-16100A	BT30 M16-100	M16	100	29	34	17	50

## BT40 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1
T00BT40200-08040A	BT40 M08-040	M8	40	13	15	8.5	10
T00BT40200-08065A	BT40 M08-065	M8	65	13	16	8.5	35
T00BT40200-08087A	BT40 M08-087	M8	87	13	23	8.5	50
T00BT40200-08100A	BT40 M08-100	M8	100	13	23	8.5	50
T00BT40200-08127A	BT40 M08-127	M8	127	13	23	8.5	50
T00BT40200-08160A	BT40 M08-160	M8	160	13	23	8.5	50
T00BT40200-08200A	BT40 M08-200	M8	200	13	23	8.5	50
T00BT40200-10040A	BT40 M10-040	M10	40	18	18	10.5	10
T00BT40200-10065A	BT40 M10-065	M10	65	18	20	10.5	30
T00BT40200-10087A	BT40 M10-087	M10	87	18	25	10.5	50
T00BT40200-10100A	BT40 M10-100	M10	100	18	25	10.5	50
T00BT40200-10127A	BT40 M10-127	M10	127	18	25	10.5	50
T00BT40200-10160A	BT40 M10-160	M10	160	18	25	10.5	50
T00BT40200-10200A	BT40 M10-200	M10	200	18	25	10.5	50
T00BT40200-12040A	BT40 M12-040	M12	40	21	21	12.5	10
T00BT40200-12065A	BT40 M12-065	M12	65	21	23	12.5	40
T00BT40200-12087A	BT40 M12-087	M12	87	21	24	12.5	50
T00BT40200-12100A	BT40 M12-100	M12	100	21	24	12.5	50
T00BT40200-12127A	BT40 M12-127	M12	127	21	35	12.5	90
T00BT40200-12160A	BT40 M12-160	M12	160	21	35	12.5	90
T00BT40200-12200A	BT40 M12-200	M12	200	21	35	12.5	90
T00BT40200-16040A	BT40 M16-040	M16	40	29	29	17	10
T00BT40200-16065A	BT40 M16-065	M16	65	29	33	17	40
T00BT40200-16087A	BT40 M16-087	M16	87	29	34	17	50
T00BT40200-16100A	BT40 M16-100	M16	100	29	34	17	65
T00BT40200-16127A	BT40 M16-127	M16	127	29	39	17	90
T00BT40200-16160A	BT40 M16-160	M16	160	29	39	17	90

**STANDARD TOOL HOLDER**

**SCREW-IN HOLDER - 200**

**BT50 SCREW-IN HOLDER METRIC**

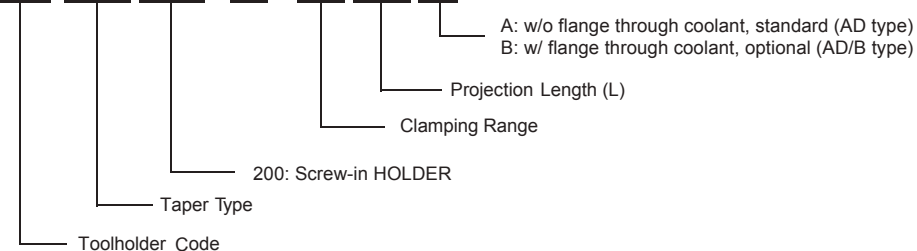
Order Number	Part Name	M	L	D	D1	d	L1
T00BT50200-08087A	BT50 M08-087	M8	87	13	23	12.5	40
T00BT50200-08100A	BT50 M08-100	M8	100	13	23	12.5	50
T00BT50200-08127A	BT50 M08-127	M8	127	13	23	12.5	50
T00BT50200-10087A	BT50 M10-087	M10	87	18	25	12.5	40
T00BT50200-10100A	BT50 M10-100	M10	100	18	25	12.5	50
T00BT50200-10127A	BT50 M10-127	M10	127	18	25	12.5	50
T00BT50200-12100A	BT50 M12-100	M12	100	21	24	12.5	50
T00BT50200-12127A	BT50 M12-127	M12	127	21	35	12.5	75
T00BT50200-12160A	BT50 M12-160	M12	160	21	35	12.5	75
T00BT50200-12200A	BT50 M12-200	M12	200	21	35	12.5	75
T00BT50200-16100A	BT50 M16-100	M16	100	29	34	17	50
T00BT50200-16127A	BT50 M16-127	M16	127	29	39	17	75
T00BT50200-16160A	BT50 M16-160	M16	160	29	39	17	75
T00BT50200-16200A	BT50 M16-200	M16	200	29	39	17	75

Note: Order excludes Screw-in cutter.



**Order Number Instruction**

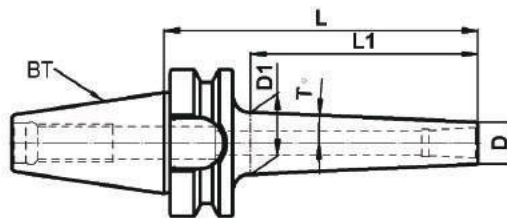
**T00 BT40 200 - 16 087 A**



## SLIM COLLET CHUCK - 210

## Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



## BT30 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1
T00BT30210-06100A	BT30 HC06-100	HC06	100	100	13	20	2.5	75
T00BT30210-06160A	BT30 HC06-160	HC06	160	160	13	25	2.5	135
T00BT30210-06200A	BT30 HC06-200	HC06	200	200	13	29	2.5	175
T00BT30210-10100A	BT30 HC10-100	HC10	100	100	20	28	3.0	75
T00BT30210-10160A	BT30 HC10-160	HC10	160	160	20	34	3.0	135
T00BT30210-10200A	BT30 HC10-200	HC10	200	200	20	39	3.0	175

## BT40 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1
T00BT40210-06100A	BT40 HC06-100	HC06	100	100	13	19	2.5	70
T00BT40210-06160A	BT40 HC06-160	HC06	160	160	13	24	2.5	130
T00BT40210-06200A	BT40 HC06-200	HC06	200	200	13	28	2.5	170
T00BT40210-10100A	BT40 HC10-100	HC10	100	100	20	28	3.0	70
T00BT40210-10160A	BT40 HC10-160	HC10	160	160	20	34	3.0	130
T00BT40210-10200A	BT40 HC10-200	HC10	200	200	20	38	3.0	170
T00BT40210-16100A	BT40 HC16-100	HC16	100	100	32	39	3.0	70
T00BT40210-16160A	BT40 HC16-160	HC16	160	160	32	45	3.0	130
T00BT40210-16200A	BT40 HC16-200	HC16	200	200	32	50	3.0	170

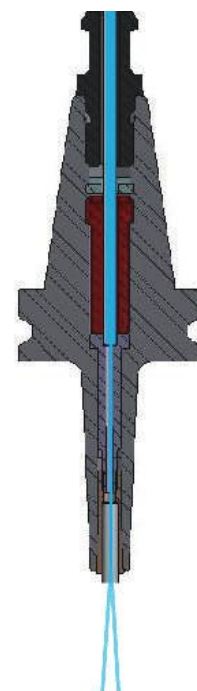
## BT50 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1
T00BT50210-06100A	BT50 HC06-100	HC06	100	100	13	19	2.5	60
T00BT50210-06160A	BT50 HC06-160	HC06	160	160	13	24	2.5	120
T00BT50210-06200A	BT50 HC06-200	HC06	200	200	13	28	2.5	160
T00BT50210-10100A	BT50 HC10-100	HC10	100	100	20	27	3.0	60
T00BT50210-10160A	BT50 HC10-160	HC10	160	160	20	33	3.0	120
T00BT50210-10200A	BT50 HC10-200	HC10	200	200	20	37	3.0	160
T00BT50210-16120A	BT50 HC16-120	HC16	120	120	32	40	3.0	80
T00BT50210-16160A	BT50 HC16-160	HC16	160	160	32	44	3.0	120
T00BT50210-16200A	BT50 HC16-200	HC16	200	200	32	49	3.0	160

Note: Order exclude HC collet

## ACCESSORIES:

HC COLLETS METRIC			
Order Number	Part Name	Collet	Shank
T03HC06-030	HC06 Collet 3mm	HC06	3
T03HC06-040	HC06 Collet 4mm	HC06	4
T03HC06-050	HC06 Collet 5mm	HC06	5
T03HC06-060	HC06 Collet 6mm	HC06	6
T03HC10-030	HC10 Collet 3mm	HC10	3
T03HC10-040	HC10 Collet 4mm	HC10	4
T03HC10-050	HC10 Collet 5mm	HC10	5
T03HC10-060	HC10 Collet 6mm	HC10	6
T03HC10-080	HC10 Collet 8mm	HC10	8
T03HC10-100	HC10 Collet 10mm	HC10	10
T03HC16-060	HC16 Collet 6mm	HC16	6
T03HC16-080	HC16 Collet 8mm	HC16	8
T03HC16-100	HC16 Collet 10mm	HC16	10
T03HC16-120	HC16 Collet 12mm	HC16	12
T03HC16-160	HC16 Collet 16mm	HC16	16





**STANDARD TOOL HOLDER**

**SLIM COLLET CHUCK - 210**

HC COLLETS INCH			
Order Number	Part Name	Collet	Shank
T03HC06A030	HC06 Collet 1/8"	HC06	1/8"
T03HC06A050	HC06 Collet 3/16"	HC06	3/16"
T03HC06A060	HC06 Collet 1/4"	HC06	1/4"
T03HC10A030	HC10 Collet 1/8"	HC10	1/8"
T03HC10A040	HC10 Collet 3/16"	HC10	3/16"
T03HC10A060	HC10 Collet 1/4"	HC10	1/4"
T03HC10A080	HC10 Collet 5/16"	HC10	5/16"
T03HC10A100	HC10 Collet 3/8"	HC10	3/8"
T03HC16A060	HC16 Collet 1/4"	HC16	1/4"
T03HC16A080	HC16 Collet 5/16"	HC16	5/16"
T03HC16A100	HC16 Collet 3/8"	HC16	3/8"
T03HC16A120	HC16 Collet 1/2"	HC16	1/2"
T03HC16A160	HC16 Collet 5/8"	HC16	5/8"



HC DRAWBAR	
Order Number	Part Name
T06HC06100-BT40	BT40 HC06100 Drawbar Screw
T06HC06160-BT40	BT40 HC06160 Drawbar Screw
T06HC06200-BT40	BT40 HC06200 Drawbar Screw
T06HC10100-BT40	BT40 HC10100 Drawbar Screw
T06HC10160-BT40	BT40 HC10160 Drawbar Screw
T06HC10200-BT40	BT40 HC10200 Drawbar Screw
T06HC16100-BT40	BT40 HC16100 Drawbar Screw
T06HC16160-BT40	BT40 HC16160 Drawbar Screw
T06HC16200-BT40	BT40 HC16200 Drawbar Screw
T06HC16100-BT50	BT50 HC16100 Drawbar Screw
T06HC16160-BT50	BT50 HC16160 Drawbar Screw
T06HC16200-BT50	BT50 HC16200 Drawbar Screw

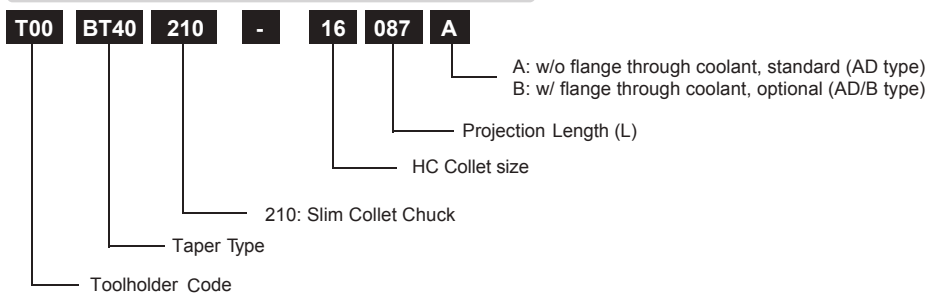


HC SCREW	
Order Number	Part Name
T06HC-BT40-01	BT40 HC06-01
T06HC-BT40-02	BT40 HC06-02
T06HC-BT50-01	BT50 HC06-01



P198-P199

**Order Number Instruction**

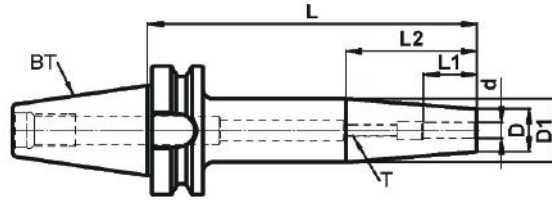


**SHRINK-FIT HOLDER 4.5° - 220**

4.5°

## Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm


**BT30 SHRINK FIT HOLDER 4.5° METRIC**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT30220-03070A	BT30 SF03-070-4.5°	3	70	3	35	15	10	16	S10	YES
T00BT30220-03100A	BT30 SF03-100-4.5°	3	100	3	35	15	10	16	S10	YES
T00BT30220-04070A	BT30 SF04-070-4.5°	4	70	4	35	16	12	18	S10	YES
T00BT30220-04100A	BT30 SF04-100-4.5°	4	100	4	35	16	12	18	S10	YES
T00BT30220-05070A	BT30 SF05-070-4.5°	5	70	5	35	20	12	18	S10	YES
T00BT30220-05100A	BT30 SF05-100-4.5°	5	100	5	35	20	12	18	S10	YES
T00BT30220-06070A	BT30 SF06-070-4.5°	6	70	6	35	22	21	27	M5	YES
T00BT30220-06100A	BT30 SF06-100-4.5°	6	100	6	35	22	21	27	M5	YES
T00BT30220-08070A	BT30 SF08-070-4.5°	8	70	8	35	26	21	27	M6	YES
T00BT30220-08100A	BT30 SF08-100-4.5°	8	100	8	35	26	21	27	M6	YES
T00BT30220-10070A	BT30 SF10-070-4.5°	10	70	10	35	31	24	30	M8	YES
T00BT30220-10100A	BT30 SF10-100-4.5°	10	100	10	35	31	24	30	M8	YES
T00BT30220-12070A	BT30 SF12-070-4.5°	12	70	12	35	36	24	30	M10	YES
T00BT30220-12100A	BT30 SF12-100-4.5°	12	100	12	35	36	24	30	M10	YES
T00BT30220-14070A	BT30 SF14-070-4.5°	14	70	14	40	36	27	33	M10	YES
T00BT30220-14100A	BT30 SF14-100-4.5°	14	100	14	40	36	27	33	M10	YES
T00BT30220-16070A	BT30 SF16-070-4.5°	16	70	16	40	39	27	33	M12	YES
T00BT30220-16100A	BT30 SF16-100-4.5°	16	100	16	40	39	27	33	M12	YES
T00BT30220-18070A	BT30 SF18-070-4.5°	18	70	18	45	39	33	40	M12	YES
T00BT30220-18100A	BT30 SF18-100-4.5°	18	100	18	45	39	33	40	M12	YES
T00BT30220-20070A	BT30 SF20-070-4.5°	20	70	20	45	41	33	40	M16	YES
T00BT30220-20100A	BT30 SF20-100-4.5°	20	100	20	45	41	33	40	M16	YES

**BT40 SHRINK FIT HOLDER 4.5° METRIC**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT40220-03080A	BT40 SF03-080-4.5°	3	80	3	48	15	10	18	S10	YES
T00BT40220-03100A	BT40 SF03-100-4.5°	3	100	3	63	15	10	20	S10	YES
T00BT40220-03160A	BT40 SF03-160-4.5°	3	160	3	63	15	10	20	S10	YES
T00BT40220-04080A	BT40 SF04-080-4.5°	4	80	4	48	16	12	20	S10	YES
T00BT40220-04100A	BT40 SF04-100-4.5°	4	100	4	68	16	12	23	S10	YES
T00BT40220-04160A	BT40 SF04-160-4.5°	4	160	4	63	16	12	22	S10	YES
T00BT40220-05080A	BT40 SF05-080-4.5°	5	80	5	48	20	12	20	S10	YES
T00BT40220-05100A	BT40 SF05-100-4.5°	5	100	5	68	20	12	23	S10	YES
T00BT40220-05160A	BT40 SF05-160-4.5°	5	160	5	63	20	12	22	S10	YES
T00BT40220-06090A	BT40 SF06-090-4.5°	6	90	6	38	22	21	27	M5	YES
T00BT40220-06100A	BT40 SF06-100-4.5°	6	100	6	38	22	21	27	M5	YES
T00BT40220-06120A	BT40 SF06-120-4.5°	6	120	6	38	22	21	27	M5	YES
T00BT40220-06160A	BT40 SF06-160-4.5°	6	160	6	38	22	21	27	M5	YES
T00BT40220-06200A	BT40 SF06-200-4.5°	6	200	6	38	22	21	27	M5	YES
T00BT40220-08090A	BT40 SF08-090-4.5°	8	90	8	38	22	21	27	M6	YES
T00BT40220-08100A	BT40 SF08-100-4.5°	8	100	8	38	22	21	27	M6	YES
T00BT40220-08120A	BT40 SF08-120-4.5°	8	120	8	38	22	21	27	M6	YES
T00BT40220-08160A	BT40 SF08-160-4.5°	8	160	8	38	22	21	27	M6	YES
T00BT40220-08200A	BT40 SF08-200-4.5°	8	200	8	38	22	21	27	M6	YES
T00BT40220-10090A	BT40 SF10-090-4.5°	10	90	10	59	31	24	33	M8	YES
T00BT40220-10100A	BT40 SF10-100-4.5°	10	100	10	64	31	24	34	M8	YES
T00BT40220-10120A	BT40 SF10-120-4.5°	10	120	10	64	31	24	34	M8	YES
T00BT40220-10160A	BT40 SF10-160-4.5°	10	160	10	64	31	24	34	M8	YES
T00BT40220-10200A	BT40 SF10-200-4.5°	10	200	10	64	31	24	34	M8	YES
T00BT40220-12090A	BT40 SF12-090-4.5°	12	90	12	59	36	24	33	M10	YES
T00BT40220-12100A	BT40 SF12-100-4.5°	12	100	12	59	36	24	33	M10	YES
T00BT40220-12120A	BT40 SF12-120-4.5°	12	120	12	64	36	24	34	M10	YES
T00BT40220-12160A	BT40 SF12-160-4.5°	12	160	12	64	36	24	34	M10	YES
T00BT40220-12200A	BT40 SF12-200-4.5°	12	200	12	64	36	24	34	M10	YES
T00BT40220-14090A	BT40 SF14-090-4.5°	14	90	14	57	36	27	36	M10	YES
T00BT40220-14160A	BT40 SF14-160-4.5°	14	160	14	57	36	27	36	M10	YES
T00BT40220-16090A	BT40 SF16-090-4.5°	16	90	16	57	36	27	36	M12	YES
T00BT40220-16100A	BT40 SF16-100-4.5°	16	100	16	57	36	27	36	M12	YES
T00BT40220-16120A	BT40 SF16-120-4.5°	16	120	16	57	36	27	36	M12	YES
T00BT40220-16160A	BT40 SF16-160-4.5°	16	160	16	57	36	27	36	M12	YES
T00BT40220-16200A	BT40 SF16-200-4.5°	16	200	16	57	36	27	36	M12	YES
T00BT40220-18090A	BT40 SF18-090-4.5°	18	90	18	57	39	33	42	M12	YES

## SHRINK-FIT HOLDER 4.5° - 220

4.5°

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT40220-18160A	BT40 SF18-160-4.5°	18	160	18	57	39	33	42	M12	YES
T00BT40220-20090A	BT40 SF20-090-4.5°	20	90	20	57	39	33	42	M16	YES
T00BT40220-20100A	BT40 SF20-100-4.5°	20	100	20	57	39	33	42	M16	YES
T00BT40220-20120A	BT40 SF20-120-4.5°	20	120	20	57	39	33	42	M16	YES
T00BT40220-20160A	BT40 SF20-160-4.5°	20	160	20	57	39	33	42	M16	YES
T00BT40220-20200A	BT40 SF20-200-4.5°	20	200	20	57	39	33	42	M16	YES
T00BT40220-25100A	BT40 SF25-100-4.5°	25	100	25	57	47	44	53	M16	YES
T00BT40220-25120A	BT40 SF25-120-4.5°	25	120	25	57	47	44	53	M16	YES
T00BT40220-25160A	BT40 SF25-160-4.5°	25	160	25	57	47	44	53	M16	YES
T00BT40220-25200A	BT40 SF25-200-4.5°	25	200	25	57	47	44	53	M16	YES
T00BT40220-32100A	BT40 SF32-100-4.5°	32	100	32	57	47	44	53	M16	YES

## BT50 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT50220-03100A	BT50 SF03-100-4.5°	3	100	3	58	15	10	19	S10	YES
T00BT50220-03160A	BT50 SF03-160-4.5°	3	160	3	63	15	10	20	S10	YES
T00BT50220-03200A	BT50 SF03-200-4.5°	3	200	3	63	15	10	20	S10	YES
T00BT50220-04100A	BT50 SF04-100-4.5°	4	100	4	58	16	12	19	S10	YES
T00BT50220-04160A	BT50 SF04-160-4.5°	4	160	4	63	16	12	22	S10	YES
T00BT50220-04200A	BT50 SF04-200-4.5°	4	200	4	63	16	12	22	S10	YES
T00BT50220-05100A	BT50 SF05-100-4.5°	5	100	5	58	20	12	21	S10	YES
T00BT50220-05160A	BT50 SF05-160-4.5°	5	160	5	58	20	12	21	S10	YES
T00BT50220-05200A	BT50 SF05-200-4.5°	5	200	5	58	20	12	21	S10	YES
T00BT50220-06100A	BT50 SF06-100-4.5°	6	100	6	38	22	21	27	M5	YES
T00BT50220-06160A	BT50 SF06-160-4.5°	6	160	6	38	22	21	27	M5	YES
T00BT50220-06200A	BT50 SF06-200-4.5°	6	200	6	38	22	21	27	M5	YES
T00BT50220-08100A	BT50 SF08-100-4.5°	8	100	8	38	22	21	27	M5	YES
T00BT50220-08160A	BT50 SF08-160-4.5°	8	160	8	38	22	21	27	M5	YES
T00BT50220-08200A	BT50 SF08-200-4.5°	8	200	8	38	22	21	27	M5	YES
T00BT50220-10100A	BT50 SF10-100-4.5°	10	100	10	59	31	24	33	M8	YES
T00BT50220-10160A	BT50 SF10-160-4.5°	10	160	10	64	31	24	34	M8	YES
T00BT50220-10200A	BT50 SF10-200-4.5°	10	200	10	64	31	24	34	M8	YES
T00BT50220-12100A	BT50 SF12-100-4.5°	12	100	12	59	36	24	33	M8	YES
T00BT50220-12160A	BT50 SF12-160-4.5°	12	160	12	64	36	24	34	M8	YES
T00BT50220-12200A	BT50 SF12-200-4.5°	12	200	12	64	36	24	34	M8	YES
T00BT50220-14100A	BT50 SF14-100-4.5°	14	100	14	64	36	27	36	M10	YES
T00BT50220-14160A	BT50 SF14-160-4.5°	14	160	14	64	36	27	36	M10	YES
T00BT50220-16100A	BT50 SF16-100-4.5°	16	100	16	44	36	27	34	M10	YES
T00BT50220-16160A	BT50 SF16-160-4.5°	16	160	16	64	36	27	36	M10	YES
T00BT50220-16200A	BT50 SF16-200-4.5°	16	200	16	64	36	27	36	M10	YES
T00BT50220-18100A	BT50 SF18-100-4.5°	18	100	18	57	39	33	42	M12	YES
T00BT50220-18160A	BT50 SF18-160-4.5°	18	160	18	57	39	33	42	M12	YES
T00BT50220-20100A	BT50 SF20-100-4.5°	20	100	20	57	39	33	42	M16	YES
T00BT50220-20160A	BT50 SF20-160-4.5°	20	160	20	57	39	33	42	M16	YES
T00BT50220-20200A	BT50 SF20-200-4.5°	20	200	20	57	39	33	42	M16	YES
T00BT50220-25100A	BT50 SF25-100-4.5°	25	100	25	57	47	44	53	M16	YES
T00BT50220-25160A	BT50 SF25-160-4.5°	25	160	25	57	47	44	53	M16	YES
T00BT50220-25200A	BT50 SF25-200-4.5°	25	200	25	57	47	44	53	M16	YES
T00BT50220-32100A	BT50 SF32-100-4.5°	32	100	32	57	47	44	53	M16	YES
T00BT50220-32160A	BT50 SF32-160-4.5°	32	160	32	57	47	44	53	M16	YES
T00BT50220-32200A	BT50 SF32-200-4.5°	32	200	32	57	47	44	53	M16	YES

## Note:

1. Cutter Shank Tolerance:

3 mm ~ 4mm : H4

5mm : H5

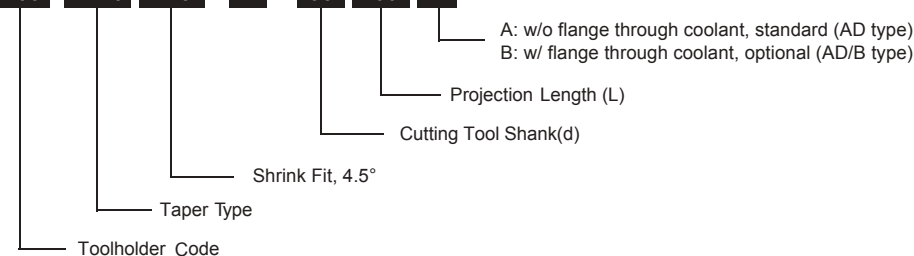
Larger than 6mm : H6

2. For carbide and HSS tooling.



## Order Number Instruction

T00 BT40 220 - 06 100 A





Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT50220A25160A	BT50 SF1"-6.30"-4.5°	1"	6.30"	1"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT50220A25203A	BT50 SF1"-8.00"-4.5°	1"	8.00"	1"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT50220A32102A	BT50 SF1 1/4"-4.00"-4.5°	1 1/4"	4.00"	1 1/4"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT50220A32160A	BT50 SF1 1/4"-6.30"-4.5°	1 1/4"	6.30"	1 1/4"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT50220A32203A	BT50 SF1 1/4"-8.00"-4.5°	1 1/4"	8.00"	1 1/4"	2.25"	1.85"	1.73"	2.08"	M16	YES

## Note:

## 1. Cutter Shank Tolerance:

1/8" : H4

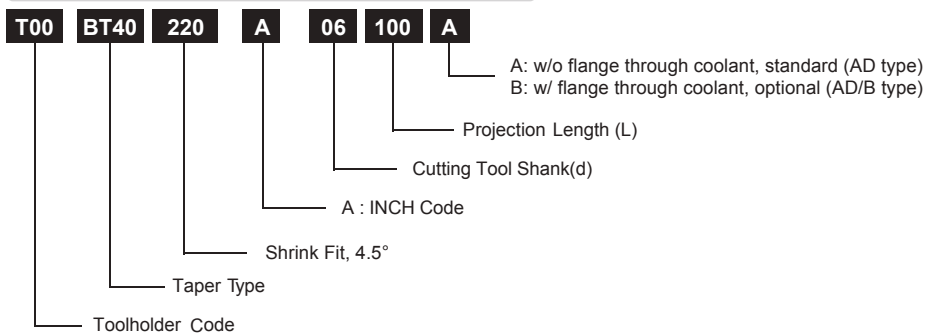
3/16" : H5

Larger than 1/4" : H6

## 2. For carbide and HSS tooling.



## Order Number Instruction

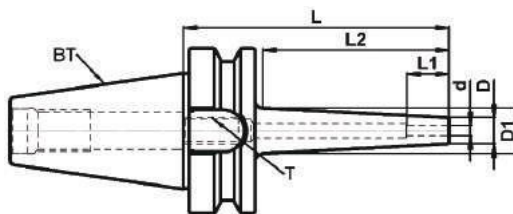


## SHRINK-FIT HOLDER 3° - 240

3°

## Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



## BT30 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT30240-03100A	BT30 SF03-100-3°	3	100	3	75	15	9	17	S10	NO
T00BT30240-03160A	BT30 SF03-160-3°	3	160	3	135	15	9	23	S10	NO
T00BT30240-04100A	BT30 SF04-100-3°	4	100	4	75	16	10	18	S10	NO
T00BT30240-04160A	BT30 SF04-160-3°	4	160	4	135	16	10	24	S10	NO
T00BT30240-05100A	BT30 SF05-100-3°	5	100	5	75	20	11	19	S10	NO
T00BT30240-05160A	BT30 SF05-160-3°	5	160	5	135	20	11	25	S10	NO
T00BT30240-06100A	BT30 SF06-100-3°	6	100	6	75	22	12	20	M5	NO
T00BT30240-06160A	BT30 SF06-160-3°	6	160	6	135	22	12	26	M5	NO
T00BT30240-08100A	BT30 SF08-100-3°	8	100	8	75	26	14	22	M6	NO
T00BT30240-08160A	BT30 SF08-160-3°	8	160	8	135	26	14	28	M6	NO
T00BT30240-10100A	BT30 SF10-100-3°	10	100	10	75	31	16	24	M8	NO
T00BT30240-10160A	BT30 SF10-160-3°	10	160	10	135	31	16	30	M8	NO
T00BT30240-12100A	BT30 SF12-100-3°	12	100	12	75	36	18	26	M10	NO
T00BT30240-12160A	BT30 SF12-160-3°	12	160	12	135	36	18	32	M10	NO
T00BT30240-16100A	BT30 SF16-100-3°	16	100	16	75	39	22	30	M12	NO
T00BT30240-16160A	BT30 SF16-160-3°	16	160	16	135	39	22	36	M12	NO

## BT40 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT40240-03100A	BT40 SF03-100-3°	3	100	3	70	15	9	17	S10	NO
T00BT40240-03160A	BT40 SF03-160-3°	3	160	3	130	15	9	23	S10	NO
T00BT40240-04100A	BT40 SF04-100-3°	4	100	4	70	16	10	18	S10	NO
T00BT40240-04160A	BT40 SF04-160-3°	4	160	4	130	16	10	24	S10	NO
T00BT40240-05100A	BT40 SF05-100-3°	5	100	5	70	20	11	19	S10	NO
T00BT40240-05160A	BT40 SF05-160-3°	5	160	5	130	20	11	25	S10	NO
T00BT40240-06100A	BT40 SF06-100-3°	6	100	6	70	22	12	20	M5	NO
T00BT40240-06160A	BT40 SF06-160-3°	6	160	6	130	22	12	26	M5	NO
T00BT40240-06200A	BT40 SF06-200-3°	6	200	6	170	22	12	30	M5	NO
T00BT40240-08100A	BT40 SF08-100-3°	8	100	8	70	26	14	22	M6	NO
T00BT40240-08160A	BT40 SF08-160-3°	8	160	8	130	26	14	28	M6	NO
T00BT40240-08200A	BT40 SF08-200-3°	8	200	8	170	26	14	32	M6	NO
T00BT40240-10100A	BT40 SF10-100-3°	10	100	10	70	31	16	24	M8	NO
T00BT40240-10160A	BT40 SF10-160-3°	10	160	10	130	31	16	30	M8	NO
T00BT40240-10200A	BT40 SF10-200-3°	10	200	10	170	31	16	34	M8	NO
T00BT40240-12100A	BT40 SF12-100-3°	12	100	12	70	36	18	26	M10	NO
T00BT40240-12160A	BT40 SF12-160-3°	12	160	12	130	36	18	32	M10	NO
T00BT40240-12200A	BT40 SF12-200-3°	12	200	12	170	36	18	36	M10	NO
T00BT40240-16100A	BT40 SF16-100-3°	16	100	16	70	39	22	30	M12	NO
T00BT40240-16160A	BT40 SF16-160-3°	16	160	16	130	39	22	36	M12	NO
T00BT40240-16200A	BT40 SF16-200-3°	16	200	16	170	39	22	40	M12	NO
T00BT40240-20100A	BT40 SF20-100-3°	20	100	20	70	41	27	35	M16	NO
T00BT40240-20160A	BT40 SF20-160-3°	20	160	20	130	41	27	41	M16	NO
T00BT40240-20200A	BT40 SF20-200-3°	20	200	20	170	41	27	45	M16	NO
T00BT40240-25100A	BT40 SF25-100-3°	25	100	25	70	47	34	42	M16	NO
T00BT40240-25160A	BT40 SF25-160-3°	25	160	25	130	47	34	48	M16	NO
T00BT40240-25200A	BT40 SF25-200-3°	25	200	25	170	47	34	52	M16	NO

## BT50 SHRINK FIT HOLDER 3° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT50240-06100A	BT50 SF06-100-3°	6	100	6	60	22	12	19	M5	NO
T00BT50240-06160A	BT50 SF06-160-3°	6	160	6	120	22	12	25	M5	NO
T00BT50240-06200A	BT50 SF06-200-3°	6	200	6	160	22	12	29	M5	NO
T00BT50240-08100A	BT50 SF08-100-3°	8	100	8	60	26	14	21	M6	NO
T00BT50240-08160A	BT50 SF08-160-3°	8	160	8	120	26	14	27	M6	NO
T00BT50240-08200A	BT50 SF08-200-3°	8	200	8	160	26	14	31	M6	NO
T00BT50240-10100A	BT50 SF10-100-3°	10	100	10	60	31	16	23	M8	NO
T00BT50240-10160A	BT50 SF10-160-3°	10	160	10	120	31	16	29	M8	NO
T00BT50240-10200A	BT50 SF10-200-3°	10	200	10	160	31	16	33	M8	NO
T00BT50240-12100A	BT50 SF12-100-3°	12	100	12	60	36	18	25	M10	NO
T00BT50240-12160A	BT50 SF12-160-3°	12	160	12	120	36	18	31	M10	NO
T00BT50240-12200A	BT50 SF12-200-3°	12	200	12	160	36	18	35	M10	NO
T00BT50240-16100A	BT50 SF16-100-3°	16	100	16	60	39	22	29	M12	NO

## SHRINK-FIT HOLDER 3° - 240

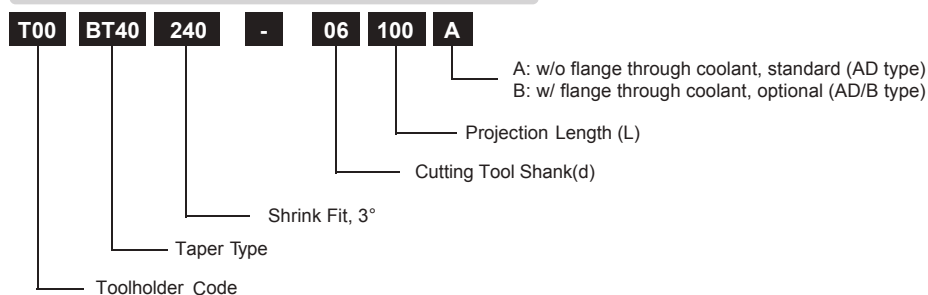
3°

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT50240-16160A	BT50 SF16-160-3°	16	160	16	120	39	22	35	M12	NO
T00BT50240-16200A	BT50 SF16-200-3°	16	200	16	160	39	22	39	M12	NO
T00BT50240-20100A	BT50 SF20-100-3°	20	100	20	60	41	27	34	M16	NO
T00BT50240-20160A	BT50 SF20-160-3°	20	160	20	120	41	27	40	M16	NO
T00BT50240-20200A	BT50 SF20-200-3°	20	200	20	160	41	27	44	M16	NO
T00BT50240-25100A	BT50 SF25-100-3°	25	100	25	60	47	34	41	M16	NO
T00BT50240-25160A	BT50 SF25-160-3°	25	160	25	120	47	34	47	M16	NO
T00BT50240-25200A	BT50 SF25-200-3°	25	200	25	160	47	34	51	M16	NO

## Note:

- Cutter Shank Tolerance:  
3 mm ~ 4mm : H4  
5mm : H5  
Larger than 6mm : H6
- For carbide tooling.

## Order Number Instruction

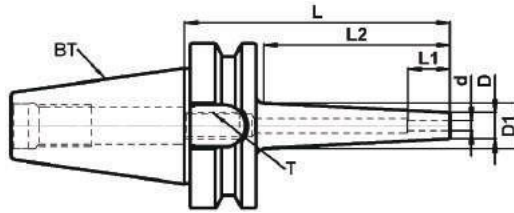


## SHRINK-FIT HOLDER 3° - 240

3°

## Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



## BT30 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT30240A03102A	BT30 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.95"	0.59"	0.36"	0.67"	S10	NO
T00BT30240A05102A	BT30 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.95"	0.79"	0.43"	0.75"	S10	NO
T00BT30240A06102A	BT30 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.95"	0.87"	0.47"	0.79"	M5	NO
T00BT30240A06160A	BT30 SF1/4"-6.30"-3°	1/4"	6.30"	1/4"	5.32"	0.87"	0.47"	1.03"	M5	NO
T00BT30240A08102A	BT30 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.95"	1.02"	0.55"	0.87"	M6	NO
T00BT30240A08160A	BT30 SF5/16"-6.30"-3°	5/16"	6.30"	5/16"	5.32"	1.02"	0.55"	1.11"	M6	NO
T00BT30240A09102A	BT30 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.95"	1.22"	0.63"	0.94"	M8	NO
T00BT30240A09160A	BT30 SF3/8"-6.30"-3°	3/8"	6.30"	3/8"	5.32"	1.22"	0.63"	1.19"	M8	NO
T00BT30240A12102A	BT30 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.95"	1.42"	0.71"	1.02"	M10	NO
T00BT30240A12160A	BT30 SF1/2"-6.30"-3°	1/2"	6.30"	1/2"	5.32"	1.42"	0.71"	1.27"	M10	NO
T00BT30240A16102A	BT30 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.95"	1.54"	0.87"	1.18"	M12	NO
T00BT30240A16160A	BT30 SF5/8"-6.30"-3°	5/8"	6.30"	5/8"	5.32"	1.54"	0.87"	1.42"	M12	NO

## BT40 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT40240A03102A	BT40 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.76"	0.59"	0.36"	0.65"	S10	NO
T00BT40240A03160A	BT40 SF1/8"-6.30"-3°	1/8"	6.30"	1/8"	5.12"	0.59"	0.36"	0.89"	S10	NO
T00BT40240A05102A	BT40 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.76"	0.79"	0.43"	0.72"	S10	NO
T00BT40240A06102A	BT40 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.76"	0.87"	0.47"	0.76"	M5	NO
T00BT40240A06160A	BT40 SF1/4"-6.30"-3°	1/4"	6.30"	1/4"	5.12"	0.87"	0.47"	1.01"	M5	NO
T00BT40240A08102A	BT40 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.76"	1.02"	0.55"	0.84"	M6	NO
T00BT40240A08160A	BT40 SF5/16"-6.30"-3°	5/16"	6.30"	5/16"	5.12"	1.02"	0.55"	1.09"	M6	NO
T00BT40240A09102A	BT40 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.76"	1.22"	0.63"	0.84"	M8	NO
T00BT40240A09160A	BT40 SF3/8"-6.30"-3°	3/8"	6.30"	3/8"	5.12"	1.22"	0.63"	1.09"	M8	NO
T00BT40240A12102A	BT40 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.76"	1.42"	0.71"	1.00"	M10	NO
T00BT40240A12160A	BT40 SF1/2"-6.30"-3°	1/2"	6.30"	1/2"	5.12"	1.42"	0.71"	1.25"	M10	NO
T00BT40240A16102A	BT40 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.76"	1.54"	0.87"	1.16"	M12	NO
T00BT40240A16160A	BT40 SF5/8"-6.30"-3°	5/8"	6.30"	5/8"	5.12"	1.54"	0.87"	1.41"	M12	NO
T00BT40240A19102A	BT40 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.76"	1.61"	1.06"	1.36"	M16	NO
T00BT40240A19160A	BT40 SF3/4"-6.30"-3°	3/4"	6.30"	3/4"	5.12"	1.61"	1.06"	1.60"	M16	NO
T00BT40240A25102A	BT40 SF1"-4.00"-3°	1"	4.00"	1"	2.75"	1.85"	1.34"	1.63"	M16	NO
T00BT40240A25160A	BT40 SF1"-6.30"-3°	1"	6.30"	1"	5.12"	1.85"	1.34"	1.88"	M16	NO

## BT50 SHRINK FIT HOLDER 3° INCH

Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT50240A06102A	BT50 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.36"	0.87"	0.47"	0.72"	M5	NO
T00BT50240A06160A	BT50 SF1/4"-6.30"-3°	1/4"	6.30"	1/4"	4.72"	0.87"	0.47"	0.97"	M5	NO
T00BT50240A06203A	BT50 SF1/4"-8.00"-3°	1/4"	8.00"	1/4"	6.30"	0.87"	0.47"	1.14"	M5	NO
T00BT50240A08102A	BT50 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.36"	1.02"	0.55"	0.8"	M6	NO
T00BT50240A08160A	BT50 SF5/16"-6.30"-3°	5/16"	6.30"	5/16"	4.72"	1.02"	0.55"	1.05"	M6	NO
T00BT50240A08203A	BT50 SF5/16"-8.00"-3°	5/16"	8.00"	5/16"	6.30"	1.02"	0.55"	1.22"	M6	NO
T00BT50240A09102A	BT50 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.36"	1.22"	0.63"	0.88"	M8	NO
T00BT50240A09160A	BT50 SF3/8"-6.30"-3°	3/8"	6.30"	3/8"	4.72"	1.22"	0.63"	1.13"	M8	NO
T00BT50240A09203A	BT50 SF3/8"-8.00"-3°	3/8"	8.00"	3/8"	6.30"	1.22"	0.63"	1.29"	M8	NO
T00BT50240A12102A	BT50 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.36"	1.42"	0.71"	0.96"	M10	NO
T00BT50240A12160A	BT50 SF1/2"-6.30"-3°	1/2"	6.30"	1/2"	4.72"	1.42"	0.71"	1.21"	M10	NO
T00BT50240A12203A	BT50 SF1/2"-8.00"-3°	1/2"	8.00"	1/2"	6.30"	1.42"	0.71"	1.37"	M10	NO
T00BT50240A16102A	BT50 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.36"	1.54"	0.87"	1.12"	M12	NO
T00BT50240A16160A	BT50 SF5/8"-6.30"-3°	5/8"	6.30"	5/8"	4.72"	1.54"	0.87"	1.37"	M12	NO
T00BT50240A16203A	BT50 SF5/8"-8.00"-3°	5/8"	8.00"	5/8"	6.30"	1.54"	0.87"	1.53"	M12	NO
T00BT50240A19102A	BT50 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.36"	1.61"	1.06"	1.31"	M16	NO
T00BT50240A19160A	BT50 SF3/4"-6.30"-3°	3/4"	6.30"	3/4"	4.72"	1.61"	1.06"	1.56"	M16	NO
T00BT50240A19203A	BT50 SF3/4"-8.00"-3°	3/4"	8.00"	3/4"	6.30"	1.61"	1.06"	1.73"	M16	NO
T00BT50240A25102A	BT50 SF1"-4.00"-3°	1"	4.00"	1"	2.36"	1.85"	1.34"	1.59"	M16	NO
T00BT50240A25160A	BT50 SF1"-6.30"-3°	1"	6.30"	1"	4.72"	1.85"	1.34"	1.84"	M16	NO
T00BT50240A25203A	BT50 SF1"-8.00"-3°	1"	8.00"	1"	6.30"	1.85"	1.34"	2.00"	M16	NO

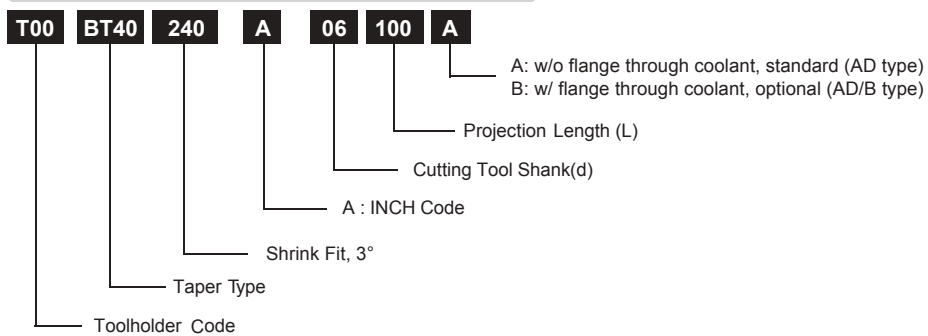


**SHRINK-FIT HOLDER 3° - 240**

3°

## Note:

- Cutter Shank Tolerance:  
 1/8" : H4  
 3/16" : H5  
 Larger than 1/4" : H6
- For carbide tooling.

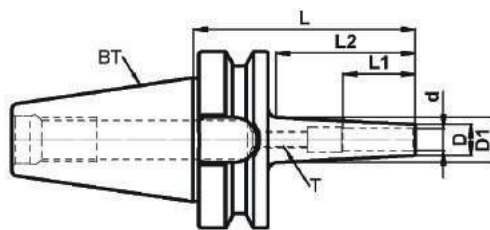
**Order Number Instruction**


## SHRINK-FIT HOLDER 3° SLIM - 250

3°SLIM

## Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



## BT40 SHRINK FIT HOLDER 3° SLIM METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT40250-03100A	BT40 SF03-100-3°Slim	3	100	3	70	15	6	14	S10	NO
T00BT40250-03160A	BT40 SF03-160-3°Slim	3	160	3	130	15	6	20	S10	NO
T00BT40250-04100A	BT40 SF04-100-3°Slim	4	100	4	70	16	7	15	S10	NO
T00BT40250-04160A	BT40 SF04-160-3°Slim	4	160	4	130	16	7	21	S10	NO
T00BT40250-05100A	BT40 SF05-100-3°Slim	5	100	5	70	20	8	16	S10	NO
T00BT40250-05160A	BT40 SF05-160-3°Slim	5	160	5	130	20	8	22	S10	NO
T00BT40250-06100A	BT40 SF06-100-3°Slim	6	100	6	70	22	9	17	M5	NO
T00BT40250-06160A	BT40 SF06-160-3°Slim	6	160	6	130	22	9	23	M5	NO
T00BT40250-06200A	BT40 SF06-200-3°Slim	6	200	6	170	22	9	27	M5	NO
T00BT40250-08100A	BT40 SF08-100-3°Slim	8	100	8	70	26	11	19	M6	NO
T00BT40250-08160A	BT40 SF08-160-3°Slim	8	160	8	130	26	11	25	M6	NO
T00BT40250-08200A	BT40 SF08-200-3°Slim	8	200	8	170	26	11	29	M6	NO
T00BT40250-10100A	BT40 SF10-100-3°Slim	10	100	10	70	31	13	21	M8	NO
T00BT40250-10160A	BT40 SF10-160-3°Slim	10	160	10	130	31	13	27	M8	NO
T00BT40250-10200A	BT40 SF10-200-3°Slim	10	200	10	170	31	13	31	M8	NO
T00BT40250-12100A	BT40 SF12-100-3°Slim	12	100	12	70	36	15	23	M10	NO
T00BT40250-12160A	BT40 SF12-160-3°Slim	12	160	12	130	36	15	29	M10	NO
T00BT40250-12200A	BT40 SF12-200-3°Slim	12	200	12	170	36	15	33	M10	NO

## BT50 SHRINK FIT HOLDER 3° SLIM METRIC

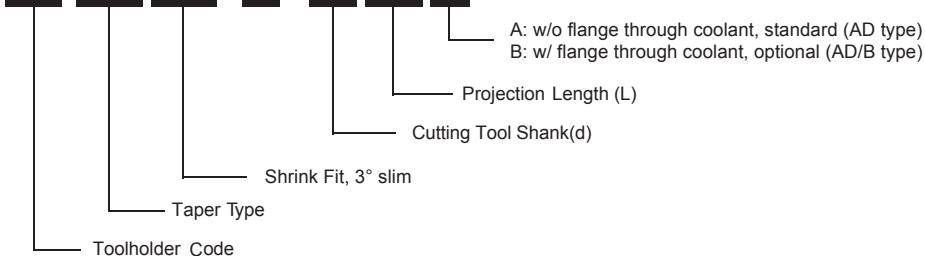
Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT50250-06100A	BT50 SF06-100-3°Slim	6	100	6	60	22	9	16	M5	NO
T00BT50250-06160A	BT50 SF06-160-3°Slim	6	160	6	120	22	9	22	M5	NO
T00BT50250-08100A	BT50 SF08-100-3°Slim	8	100	8	60	26	11	18	M6	NO
T00BT50250-08160A	BT50 SF08-160-3°Slim	8	160	8	120	26	11	24	M6	NO
T00BT50250-10100A	BT50 SF10-100-3°Slim	10	100	10	60	31	13	20	M8	NO
T00BT50250-10160A	BT50 SF10-160-3°Slim	10	160	10	120	31	13	26	M8	NO
T00BT50250-12100A	BT50 SF12-100-3°Slim	12	100	12	60	36	15	22	M10	NO
T00BT50250-12160A	BT50 SF12-160-3°Slim	12	160	12	120	36	15	28	M10	NO

## Note:

- Cutter Shank Tolerance:  
3 mm ~ 4mm : H4  
5mm : H5  
Larger than 6mm : H6
- For carbide tooling.

## Order Number Instruction

T00 BT40 250 - 06 100 A

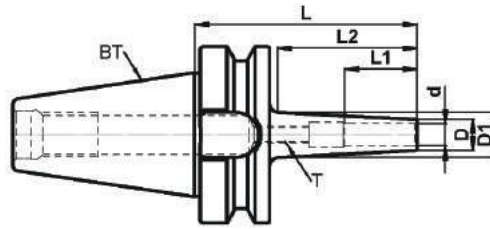


**SHRINK-FIT HOLDER 3° SLIM - 250**

3° SLIM

**Quality**

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm

**BT40 SHRINK FIT HOLDER 3° SLIM INCH**

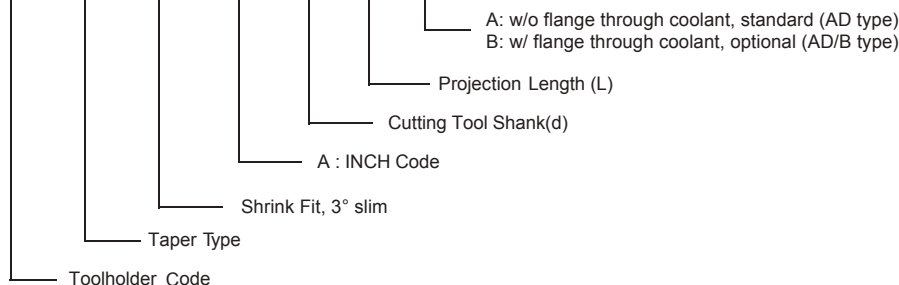
Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT40250A03102A	BT40 SF1/8"-4.00"-3° Silm	1/8"	4.00"	1/8"	2.76"	0.59"	0.24"	0.55"	S10	NO
T00BT40250A03160A	BT40 SF1/8"-6.30"-3° Silm	1/8"	6.30"	1/8"	5.12"	0.59"	0.24"	0.79"	S10	NO
T00BT40250A05102A	BT40 SF3/16"-4.00"-3° Silm	3/16"	4.00"	3/16"	2.76"	0.79"	0.31"	0.63"	S10	NO
T00BT40250A05160A	BT40 SF3/16"-6.30"-3° Silm	3/16"	6.30"	3/16"	5.12"	0.79"	0.31"	0.87"	S10	NO
T00BT40250A06102A	BT40 SF1/4"-4.00"-3° Silm	1/4"	4.00"	1/4"	2.76"	0.87"	0.35"	0.67"	M5	NO
T00BT40250A06160A	BT40 SF1/4"-6.30"-3° Silm	1/4"	6.30"	1/4"	5.12"	0.87"	0.35"	0.91"	M5	NO
T00BT40250A08102A	BT40 SF5/16"-4.00"-3° Silm	5/16"	4.00"	5/16"	2.76"	1.02"	0.43"	0.75"	M6	NO
T00BT40250A08160A	BT40 SF5/16"-6.30"-3° Silm	5/16"	6.30"	5/16"	5.12"	1.02"	0.43"	1.00"	M6	NO
T00BT40250A09102A	BT40 SF3/8"-4.00"-3° Silm	3/8"	4.00"	3/8"	2.76"	1.22"	0.51"	0.83"	M8	NO
T00BT40250A09160A	BT40 SF3/8"-6.30"-3° Silm	3/8"	6.30"	3/8"	5.12"	1.22"	0.51"	1.06"	M8	NO
T00BT40250A12102A	BT40 SF1/2"-4.00"-3° Silm	1/2"	4.00"	1/2"	2.76"	1.42"	0.63"	0.91"	M10	NO
T00BT40250A12160A	BT40 SF1/2"-6.30"-3° Silm	1/2"	6.30"	1/2"	5.12"	1.42"	0.63"	1.14"	M10	NO

**BT50 SHRINK FIT HOLDER 3° SLIM INCH**

Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT50250A06102A	BT50 SF1/4"-4.00"-3° Slim	1/4"	4.00"	1/4"	2.32"	0.87"	0.36"	0.63"	M5	NO
T00BT50250A06160A	BT50 SF1/4"-6.30"-35° Slim	1/4"	6.30"	1/4"	4.69"	0.87"	0.36"	0.87"	M5	NO
T00BT50250A08102A	BT50 SF5/16"-4.00"-3° Slim	5/16"	4.00"	5/16"	2.32"	1.02"	0.43"	0.71"	M6	NO
T00BT50250A08160A	BT50 SF5/16"-6.30"-3° Slim	5/16"	6.30"	5/16"	4.69"	1.02"	0.43"	0.94"	M6	NO
T00BT50250A09102A	BT50 SF3/8"-4.00"-3° Slim	3/8"	4.00"	3/8"	2.32"	1.22"	0.51"	0.79"	M8	NO
T00BT50250A09160A	BT50 SF3/8"-6.30"-3° Slim	3/8"	6.30"	3/8"	4.69"	1.22"	0.51"	1.02"	M8	NO
T00BT50250A12102A	BT50 SF1/2"-4.00"-3° Slim	1/2"	4.00"	1/2"	2.32"	1.42"	0.63"	0.87"	M10	NO
T00BT50250A12160A	BT50 SF1/2"-6.30"-3° Slim	1/2"	6.30"	1/2"	4.69"	1.42"	0.63"	1.10"	M10	NO

**Note:**

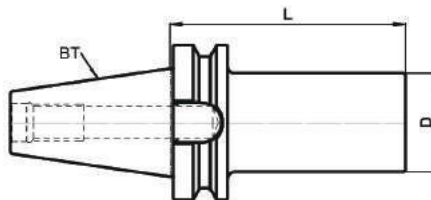
- Cutter Shank Tolerance:  
1/8" : H4  
3/16" : H5  
Larger than 1/4" : H6
- For carbide tooling.

**Order Number Instruction**
**T00 BT40 250 A 06 100 A**


**BLANK ARBOR - 310**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58±2 on taper
- Hardness: HRC26~40 on Shank

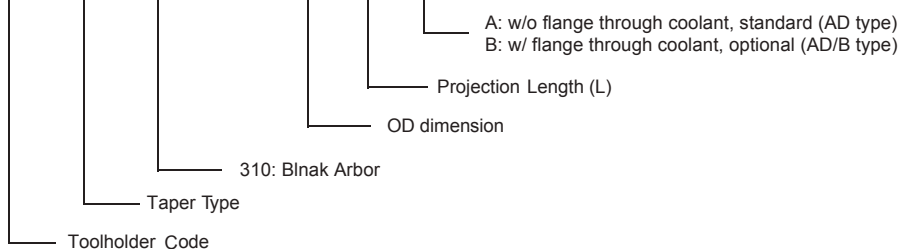


**BLANK ARBOR METRIC**

Order Number	Part Name	D METRIC	D INCH	L METRIC	L INCH
T00BT30310-64160	BT30 BL 64-160	63.5	2.50"	160	6.300"
T00BT30310-64200	BT30 BL 64-200	63.5	2.50"	200	7.874"
T00BT40310-64160	BT40 BL 64-160	63.5	2.50"	160	6.300"
T00BT40310-64200	BT40 BL 64-200	63.5	2.50"	200	7.874"
T00BT50310-99200	BT50 BL 99-200	99	3.90"	200	7.874"
T00BT50310-99280	BT50 BL 99-280	99	3.90"	280	11.024"

**Order Number Instruction**

**T00 BT40 310 - 30 100 A**

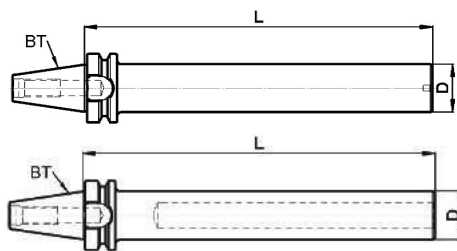


**STANDARD TOOL HOLDER**

**TEST ARBOR - G000 HOLLOW / GS00 SOLID**

**Quality**

- Taper Angle Tolerance: AT1
- Case Hardness: HRC 58±2
- Runout: 0.002mm (0.00008")
- Cylindricity: 0.003mm ( 0.00012")



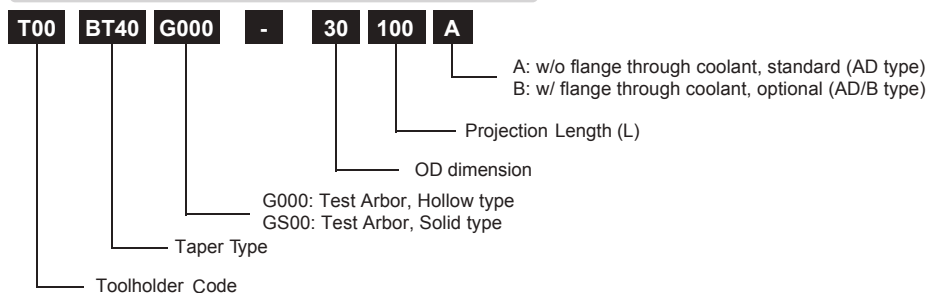
**BT TEST ARBOR METRIC**

Order Number	Part Name	D	L
T00BT30G000-32235	BT30 G000 32-235	32	235
T00BT30GS00-32200	BT30 GS00 32-200	32	200
T00BT30GS00-32300	BT30 GS00 32-300	32	300
T00BT40G000-40320	BT40 G000 40-320	40	320
T00BT40GS00-40320	BT40 GS00 40-320	40	320
T00BT50G000-50320	BT50 G000 50-320	50	320
T00BT50GS00-50320	BT50 GS00 50-320	50	320

**BT TEST ARBOR INCH**

Order Number	Part Name	D	L
T00BT30G000A32235	BT30 G000 1.26"-9.25"	1.26"	9.25"
T00BT30GS00A32200	BT30 GS00 1.26"-7.87"	1.26"	7.87"
T00BT30GS00A32300	BT30 GS00 1.26"-11.8"	1.26"	11.8"
T00BT40G000A40320	BT40 G000 1.57"-12.6"	1.57"	12.6"
T00BT40GS00A40320	BT40 GS00 1.57"-12.6"	1.57"	12.6"
T00BT50G000A50320	BT50 G000 1.97"-12.6"	1.97"	12.6"
T00BT50GS00A50320	BT50 GS00 1.97"-12.6"	1.97"	12.6"

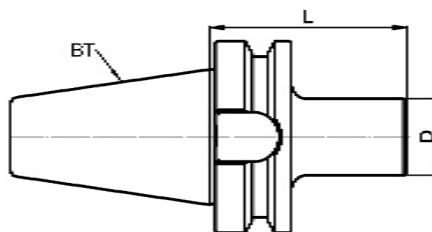
**Order Number Instruction**



**GAP GAUGE - M000**

**Quality**

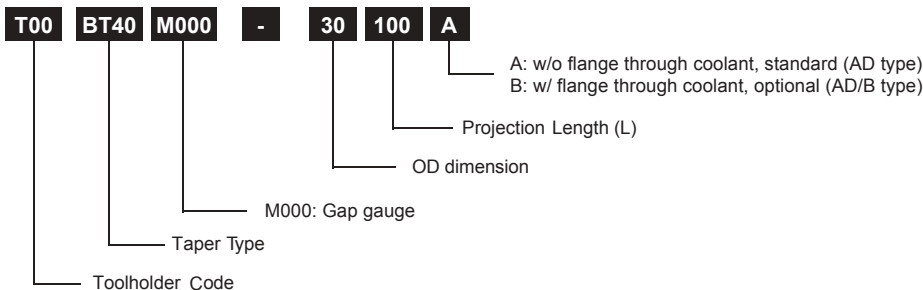
- Taper Angle Tolerance: AT1
- Case Hardness: HRC 58±2
- Runout: 0.002mm (0.00008")
- Cylindricity: 0.003mm ( 0.00012")



**BT GAP GAUGE METRIC**

Order Number	Part Name	D	L
T00BT30M000-30060	BT30 M000 30-060	30	60
T00BT40M000-25065	BT40 M000 25-065	25	65
T00BT50M000-60100	BT50 M000 60-100	60	100

**Order Number Instruction**





## **EXTREME** TOOL HOLDER

**EXTREME** productivity

**EXTREME** precision

**EXTREME** surface finish quality

**EXTREME** tool life

**EXTREME** profit, and much more...

## **E SYSTEM** TOOL HOLDER

**M22** - ER Collet Chuck - **Mini Nut**

**022** - ER Collet Chuck

**032** - End Mill Holder **Coolant Slot**

**042** - End Mill Holder

**072** - Morse Taper Holder

**122** - Shell Milling Holder

**132** - Shell Milling Holder **Coolant Slot**

**142** - Drill Chuck Holder

**142** - Drill Chuck Arbor

**202** - Screw-In Holder

**212** - Slim Collet Chuck

**222** - Shrink-Fit Holder **4.5°**

**242** - Shrink-Fit Holder **3°**

**252** - Shrink-Fit Holder **3° Slim**

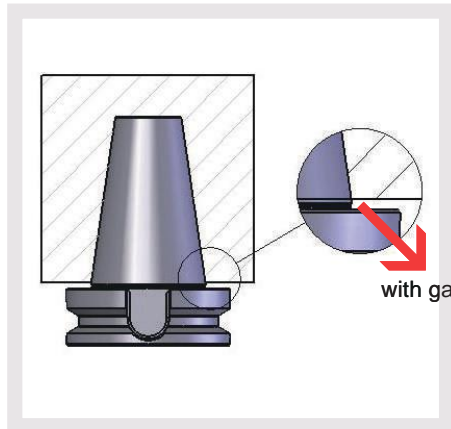
**312** - Blank Arbor

**G002** - Test Arbor

US Patent: 7341411

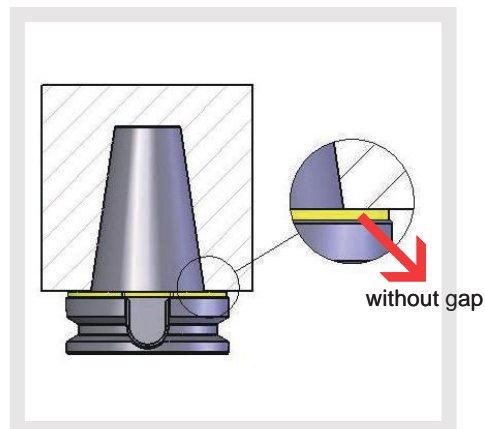
DE: 10200627247.1

# EXTREME V.S. STANDARD



## STANDARD TOOL HOLDERS

1. Gap exists between toolholder and spindle.
2. With only taper face contact, machining stability, dimension precision and even spindle life will be affected.



## E SYSTEM TOOL HOLDERS

Patent No :

US:7341411

DE:102006027247

1. Gap between toolholder and spindle is eliminated by **E SYSTEM** design.
2. Higher stability, higher precision, higher tool life and extended spindle life.
3. **E SYSTEM** toolholder is suitable to all existing spindle types, providing a maximum range of applications.

## Benefits and Advantages

- Stable and enlarged dual face contact area directly and effectively improves tooling system precision. High speed machining with extremely accuracy and surface finish can be obtained.
- PrimeTool **E SYSTEM** toolholder can be used for all existing spindle. It is not necessary to invest in costly, custom-made spindles to obtain the result of dual-face contact.
- With enhanced rigidity from PrimeTool **E SYSTEM** toolholder, tool runout and balance is strictly controlled. The cutting tool life is extended. This means significantly lower costs and much higher productivity!
- With the extra contact surface between toolholder and spindle, PrimeTool **E SYSTEM** toolholder considerably reduces friction wear on the spindle taper face and thus extends the spindle life.
- By attenuating impact and vibration from machining, PrimeTool **E SYSTEM** toolholder dramatically reduces the noise generated. The machine and work piece will also stay in a more stable operation condition.
- At high speed machining, the mouth of the spindle often expands slightly due to centripetal force. This problem can be resolved by using PrimeTool **E SYSTEM** toolholder, as the extra contact face will prevent the tool holder from being sucked into the spindle.



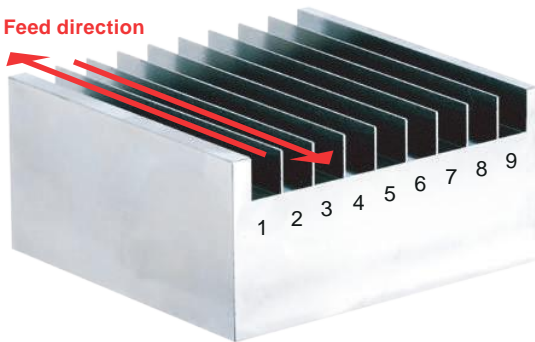
# GROOVE MACHINING TEST

Compare the machining result between standard toolholder and **E SYSTEM** toolholder with same cutting condition.

Taper No	Model	AT Tolerance	3D Runout		Dynamic Balance	Weight (kg)
			Standard	EXTREME		
BT40	ER32-70	AT3	6 $\mu$	5 $\mu$	1.1g-mm , G2.5 , 30000 rpm	1.48

## Workpiece

Feed direction



Workpiece Dimension :

1. Slot width : 10mm (0.394")
2. Rib thickness: 0.6mm (0.0236")
3. Rib height : 12mm (0.473")

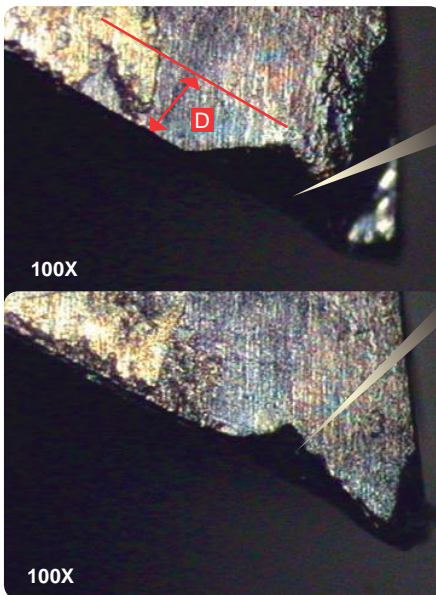
Machining Condition :

1. Speed : 10000 rpm
2. Feed: 1200mm/min (47.24 inch/min)
3. VC: 314m/min (1030 feet/min)
4. Depth of cut : 0.2mm (0.0788")
5. Cut length : 54m (1143 feet)
6. Cut time : 55min

Workpiece Material :

1. AISI 1049 steel  
JIS S50C
2. Hardness : HRB90

**E SYSTEM** - without gap



Cutter wear on standard toolholder :

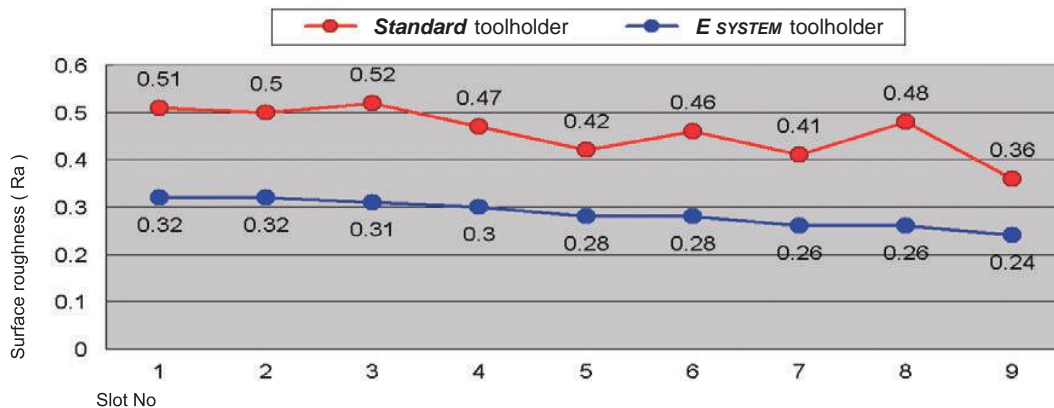
1. D : 0.014mm(0.000551")
2. More serious than **E SYSTEM** toolholder

Cutter wear on **E SYSTEM** toolholder :

- D : 0.009mm(0.00035")

Tool : Nachi  
10mm(0.394") OD, 2 flute, Carbide  
Machining rotation : clockwise

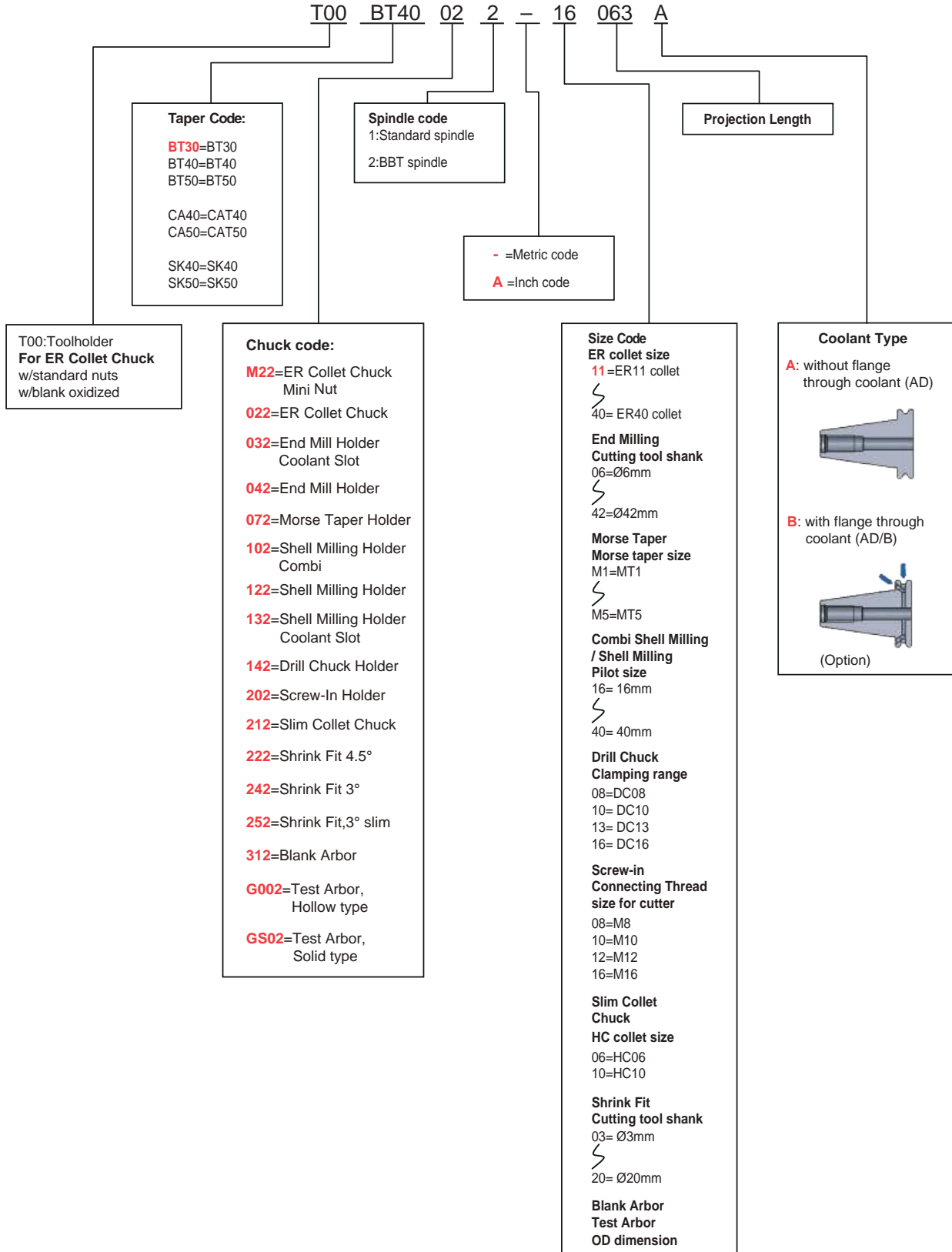
Surface roughness comparison between standard and **E SYSTEM** toolholder



# E SYSTEM TOOLHOLDERS (Extreme)

## Order No Instruction

Example: **T00BT40021-16063A**, PBT 40 ER16-063 for standard spindle  
**T00BT40022-16063A**, PBBT 40 ER16-063 for BBT spindle

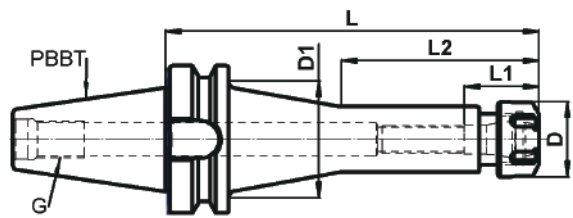


**ER COLLET CHUCK MINI NUT - M22**

**MINI NUT**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBBT30 ER COLLET CHUCK MINI NUT METRIC**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT30M22-11070A	PBBT30 ER11-070M	ER11	70	0.5~7	16	16	70	17	45	M12
T00BT30M22-11100A	PBBT30 ER11-100M	ER11	100	0.5~7	16	16	100	17	75	
T00BT30M22-16070A	PBBT30 ER16-070M	ER16	70	0.5~10	22	22	70	22	45	
T00BT30M22-16100A	PBBT30 ER16-100M	ER16	100	0.5~10	22	22	100	22	75	
T00BT30M22-16160A	PBBT30 ER16-160M	ER16	160	0.5~10	22	28	160	22	85	
T00BT30M22-20070A	PBBT30 ER20-070M	ER20	70	1~13	28	28	70	26	45	
T00BT30M22-20100A	PBBT30 ER20-100M	ER20	100	1~13	28	28	100	26	75	
T00BT30M22-20160A	PBBT30 ER20-160M	ER20	160	1~13	28	28	160	26	135	

**PBBT40 ER COLLET CHUCK MINI NUT METRIC**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT40M22-11070A	PBBT40 ER11-070M	ER11	70	0.5~7	16	16	70	17	40	M16
T00BT40M22-11100A	PBBT40 ER11-100M	ER11	100	0.5~7	16	16	100	17	70	
T00BT40M22-16070A	PBBT40 ER16-070M	ER16	70	0.5~10	22	22	70	22	40	
T00BT40M22-16100A	PBBT40 ER16-100M	ER16	100	0.5~10	22	22	100	22	70	
T00BT40M22-16160A	PBBT40 ER16-160M	ER16	160	0.5~10	22	28	160	22	85	
T00BT40M22-20070A	PBBT40 ER20-070M	ER20	70	1~13	28	28	70	26	40	
T00BT40M22-20100A	PBBT40 ER20-100M	ER20	100	1~13	28	28	100	26	70	
T00BT40M22-20160A	PBBT40 ER20-160M	ER20	160	1~13	28	28	160	26	130	

**PBBT50 ER COLLET CHUCK MINI NUT METRIC**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50M22-11100A	PBBT50 ER11-100M	ER11	100	0.5~7	16	16	100	17	60	M24
T00BT50M22-11160A	PBBT50 ER11-160M	ER11	160	0.5~7	16	28	160	17	80	
T00BT50M22-16100A	PBBT50 ER16-100M	ER16	100	0.5~10	22	22	100	22	60	
T00BT50M22-16160A	PBBT50 ER16-160M	ER16	160	0.5~10	22	28	160	22	85	
T00BT50M22-20100A	PBBT50 ER20-100M	ER20	100	1~13	28	28	100	26	60	
T00BT50M22-20160A	PBBT50 ER20-160M	ER20	160	1~13	28	28	160	26	120	

Note:

1. Order : includes Nut, Excludes ER collet and Retention knob and Wrench.

**ACCESSORIES:**

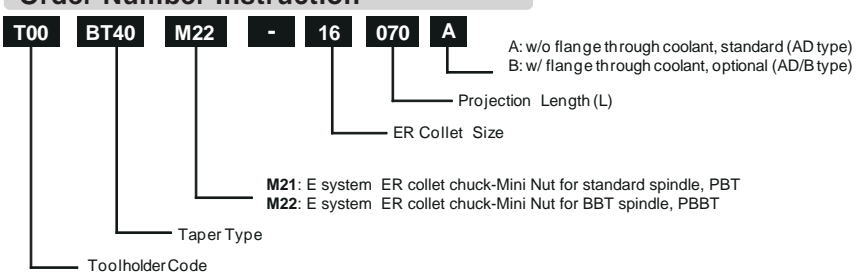
MINI NUT				
Order Number	Part Name	Thread	Type	ER Collet Size
T04ER08-M1A	ER08 Mini Nut	M10x0.75	Mini	ER08
T04ER11-M1A	ER11 Mini Nut	M13x0.75	Mini	ER11
T04ER16-M1A	ER16 Mini Nut	M19x1.00	Mini	ER16
T04ER20-M1A	ER20 Mini Nut	M24x1.00	Mini	ER20



MINI WRENCH BEARING WITH ONE-WAY CLUTCHES		
Order Number	Part Name	Type
T07ER0805	ER08 MINI WRENCH	Mini
T07ER1105	ER11 MINI WRENCH	Mini
T07ER1605	ER16 MINI WRENCH	Mini
T07ER2005	ER20 MINI WRENCH	Mini

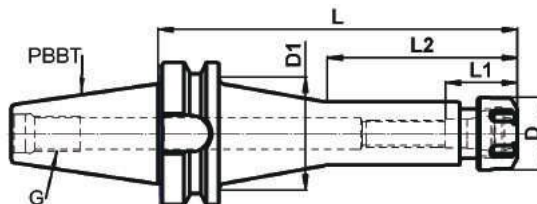


**Order Number Instruction**



**ER COLLET CHUCK MINI NUT - M22**
**MINI NUT**
**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm


**PBBT30 ER COLLET CHUCK MINI NUT INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT30M22A11070A	PBBT30 ER11-2.76"M	ER11	2.76"	5/64~17/64"	0.63"	0.63"	2.76"	0.67"	1.77"	M12
T00BT30M22A11102A	PBBT30 ER11-4.00"M	ER11	4.00"	5/64~17/64"	0.63"	0.63"	4.00"	0.67"	3.03"	
T00BT30M22A16070A	PBBT30 ER16-2.76"M	ER16	2.76"	5/64~13/32"	0.87"	0.87"	2.76"	0.87"	1.77"	
T00BT30M22A16102A	PBBT30 ER16-4.00"M	ER16	4.00"	5/64~13/32"	0.87"	0.87"	4.00"	0.87"	3.03"	
T00BT30M22A16152A	PBBT30 ER16-6.00"M	ER16	6.00"	5/64~13/32"	0.87"	1.10"	6.00"	0.87"	3.30"	
T00BT30M22A20070A	PBBT30 ER20-2.76"M	ER20	2.76"	5/64~1/2"	1.10"	1.10"	2.76"	1.04"	1.77"	
T00BT30M22A20102A	PBBT30 ER20-4.00"M	ER20	4.00"	5/64~1/2"	1.10"	1.10"	4.00"	1.04"	3.03"	
T00BT30M22A20152A	PBBT30 ER20-6.00"M	ER20	6.00"	5/64~1/2"	1.10"	1.10"	6.00"	1.04"	5.31"	

**PBBT40 ER COLLET CHUCK MINI NUT INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT40M22A11070A	PBBT40 ER11-2.76"M	ER11	2.76"	5/64~17/64"	0.63"	0.63"	2.76"	0.67"	1.57"	M16
T00BT40M22A11102A	PBBT40 ER11-4.00"M	ER11	4.00"	5/64~17/64"	0.63"	0.63"	4.00"	0.67"	2.83"	
T00BT40M22A16070A	PBBT40 ER16-2.76"M	ER16	2.76"	5/64~13/32"	0.87"	0.87"	2.76"	0.87"	1.57"	
T00BT40M22A16102A	PBBT40 ER16-4.00"M	ER16	4.00"	5/64~13/32"	0.87"	0.87"	4.00"	0.87"	2.83"	
T00BT40M22A16152A	PBBT40 ER16-6.00"M	ER16	6.00"	5/64~13/32"	0.87"	1.10"	6.00"	0.87"	3.30"	
T00BT40M22A20070A	PBBT40 ER20-2.76"M	ER20	2.76"	5/64~1/2"	1.10"	1.10"	2.76"	1.04"	1.57"	
T00BT40M22A20102A	PBBT40 ER20-4.00"M	ER20	4.00"	5/64~1/2"	1.10"	1.10"	4.00"	1.04"	2.83"	
T00BT40M22A20152A	PBBT40 ER20-6.00"M	ER20	6.00"	5/64~1/2"	1.10"	1.10"	6.00"	1.04"	5.12"	

**PBBT50 ER COLLET CHUCK MINI NUT INCH**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50M22A11102A	PBBT50 ER11-4.00"M	ER11	4.00"	5/64~17/64"	0.63"	0.63"	4"	0.67"	2.44"	M24
T00BT50M22A11152A	PBBT50 ER11-6.00"M	ER11	6.00"	5/64~17/64"	0.63"	1.10"	6"	0.67"	3.15"	
T00BT50M22A16102A	PBBT50 ER16-4.00"M	ER16	4.00"	5/64~13/32"	0.63"	0.63"	4"	0.87"	2.44"	
T00BT50M22A16152A	PBBT50 ER16-6.00"M	ER16	6.00"	5/64~13/32"	0.87"	1.10"	6"	0.87"	3.30"	
T00BT50M22A20102A	PBBT50 ER20-4.00"M	ER20	4.00"	5/64~1/2"	1.10"	1.10"	4"	1.04"	2.44"	
T00BT50M22A20152A	PBBT50 ER20-6.00"M	ER20	6.00"	5/64~1/2"	1.10"	1.10"	6"	1.04"	4.72"	


**Note:**


1. Order : includes Nut, Excludes ER collet and Retention knob and Wrench.

**ER COLLET CHUCK MINI NUT - M22**

**MINI NUT**

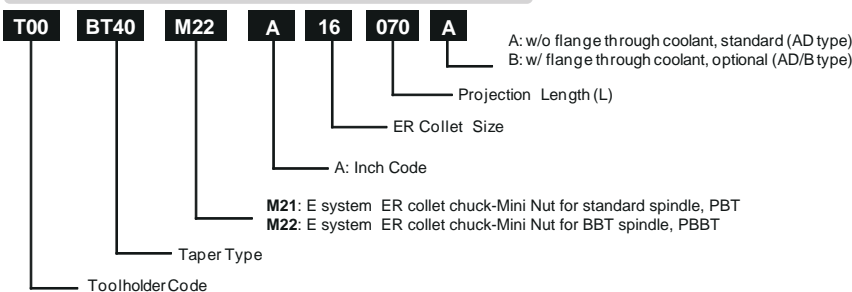
**ACCESSORIES:**

MINI NUT					
Order Number	Part Name	Thread	Type	ER Collet Size	
T04ER08-M1A	ER08 Mini Nut	M10x0.75	Mini	ER08	
T04ER11-M1A	ER11 Mini Nut	M13x0.75	Mini	ER11	
T04ER16-M1A	ER16 Mini Nut	M19x1.00	Mini	ER16	
T04ER20-M1A	ER20 Mini Nut	M24x1.00	Mini	ER20	

MINI WRENCH BEARING WITH ONE-WAY CLUTCHES			
Order Number	Part Name	Type	
T07ER0805	ER08 MINI WRENCH	Mini	
T07ER1105	ER11 MINI WRENCH	Mini	
T07ER1605	ER16 MINI WRENCH	Mini	
T07ER2005	ER20 MINI WRENCH	Mini	



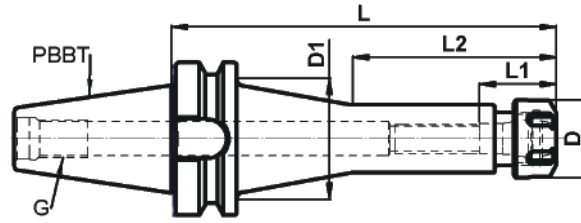
**Order Number Instruction**



**ER COLLET CHUCK - 022 DIN6499**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBBT30 ER COLLET CHUCK METRIC**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT30022-11070A	PBBT30 ER11-070	ER11	70	0.5-7	19	19	70	17	45	M12
T00BT30022-11100A	PBBT30 ER11-100	ER11	100	0.5-7	19	19	100	17	75	
T00BT30022-11160A	PBBT30 ER11-160	ER11	160	0.5-7	19	28	160	17	80	
T00BT30022-16070A	PBBT30 ER16-070	ER16	70	0.5 ~ 10	28	28	70	22	45	
T00BT30022-16100A	PBBT30 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	75	
T00BT30022-16160A	PBBT30 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	85	
T00BT30022-16200A	PBBT30 ER16-200	ER16	200	0.5 ~ 10	28	34	200	22	85	
T00BT30022-20070A	PBBT30 ER20-070	ER20	70	1 ~ 13	34	34	70	26	45	
T00BT30022-20100A	PBBT30 ER20-100	ER20	100	1 ~ 13	34	34	100	26	75	
T00BT30022-20160A	PBBT30 ER20-160	ER20	160	1 ~ 13	34	34	160	26	135	
T00BT30022-25060A	PBBT30 ER25-060	ER25	60	1 ~ 16	42	42	60	29	35	
T00BT30022-25070A	PBBT30 ER25-070	ER25	70	1 ~ 16	42	42	70	29	45	
T00BT30022-25100A	PBBT30 ER25-100	ER25	100	1 ~ 16	42	42	100	29	75	
T00BT30022-25160A	PBBT30 ER25-160	ER25	160	1 ~ 16	42	42	160	29	135	
T00BT30022-32070A	PBBT30 ER32-070	ER32	70	2 ~ 20	50	50	70	34	45	
T00BT30022-32100A	PBBT30 ER32-100	ER32	100	2 ~ 20	50	50	100	34	75	
T00BT30022-32160A	PBBT30 ER32-160	ER32	160	2 ~ 20	50	50	160	34	135	

**PBBT40 ER COLLET CHUCK METRIC**

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT40022-11070A	PBBT40 ER11-070	ER11	70	0.5-7	19	19	70	17	40	M16
T00BT40022-11100A	PBBT40 ER11-100	ER11	100	0.5-7	19	19	100	17	70	
T00BT40022-11160A	PBBT40 ER11-160	ER11	160	0.5-7	19	28	160	17	80	
T00BT40022-11200A	PBBT40 ER11-200	ER11	200	0.5-7	19	28	200	17	80	
T00BT40022-16063A	PBBT40 ER16-063	ER16	63	0.5 ~ 10	28	28	63	22	33	
T00BT40022-16070A	PBBT40 ER16-070	ER16	70	0.5 ~ 10	28	28	70	22	40	
T00BT40022-16100A	PBBT40 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	70	
T00BT40022-16160A	PBBT40 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	85	
T00BT40022-16200A	PBBT40 ER16-200	ER16	200	0.5 ~ 10	28	34	200	22	85	
T00BT40022-20060A	PBBT40 ER20-060	ER20	60	1 ~ 13	34	34	60	26	30	
T00BT40022-20070A	PBBT40 ER20-070	ER20	70	1 ~ 13	34	34	70	26	40	
T00BT40022-20100A	PBBT40 ER20-100	ER20	100	1 ~ 13	34	34	100	26	70	
T00BT40022-20160A	PBBT40 ER20-160	ER20	160	1 ~ 13	34	34	160	26	130	
T00BT40022-20200A	PBBT40 ER20-200	ER20	200	1 ~ 13	34	34	200	26	170	
T00BT40022-25060A	PBBT40 ER25-060	ER25	60	1 ~ 16	42	42	60	29	30	
T00BT40022-25070A	PBBT40 ER25-070	ER25	70	1 ~ 16	42	42	70	29	40	
T00BT40022-25100A	PBBT40 ER25-100	ER25	100	1 ~ 16	42	42	100	29	70	
T00BT40022-25160A	PBBT40 ER25-160	ER25	160	1 ~ 16	42	42	160	29	130	
T00BT40022-25200A	PBBT40 ER25-200	ER25	200	1 ~ 16	42	42	200	29	170	
T00BT40022-32070A	PBBT40 ER32-070	ER32	70	2 ~ 20	50	50	70	34	40	
T00BT40022-32100A	PBBT40 ER32-100	ER32	100	2 ~ 20	50	50	100	34	70	
T00BT40022-32160A	PBBT40 ER32-160	ER32	160	2 ~ 20	50	50	160	34	130	
T00BT40022-32200A	PBBT40 ER32-200	ER32	200	2 ~ 20	50	50	200	34	170	
T00BT40022-40080A	PBBT40 ER40-080	ER40	80	3 ~ 26	63	63	80	38	50	
T00BT40022-40100A	PBBT40 ER40-100	ER40	100	3 ~ 26	63	63	100	38	70	
T00BT40022-40160A	PBBT40 ER40-160	ER40	160	3 ~ 26	63	63	160	38	130	
T00BT40022-40200A	PBBT40 ER40-200	ER40	200	3 ~ 26	63	63	200	38	170	

**PBBT50 ER COLLET CHUCK METRIC**

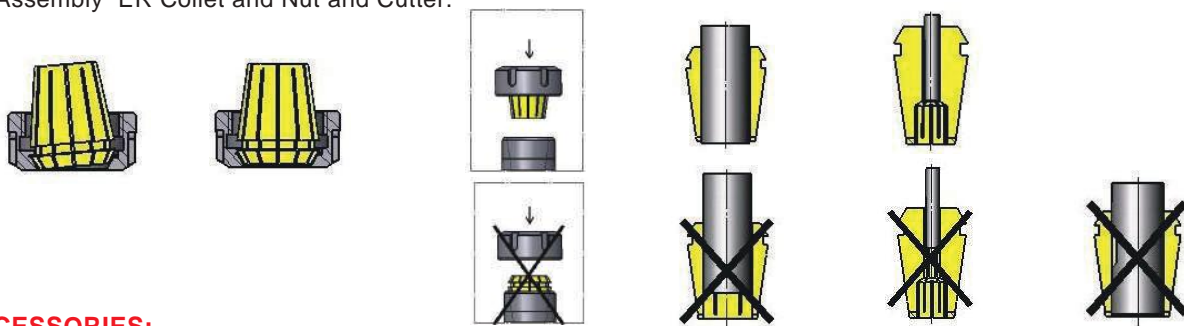
Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50022-16100A	PBBT50 ER16-100	ER16	100	0.5 ~ 10	28	28	100	22	60	M24
T00BT50022-16150A	PBBT50 ER16-150	ER16	150	0.5 ~ 10	28	34	150	22	85	
T00BT50022-16160A	PBBT50 ER16-160	ER16	160	0.5 ~ 10	28	34	160	22	85	
T00BT50022-16200A	PBBT50 ER16-200	ER16	200	0.5 ~ 10	28	34	200	22	85	
T00BT50022-20100A	PBBT50 ER20-100	ER20	100	1 ~ 13	34	34	100	26	60	
T00BT50022-20150A	PBBT50 ER20-150	ER20	150	1 ~ 13	34	34	150	26	110	
T00BT50022-20160A	PBBT50 ER20-160	ER20	160	1 ~ 13	34	34	160	26	120	
T00BT50022-20220A	PBBT50 ER20-200	ER20	200	1 ~ 13	34	34	200	26	160	
T00BT50022-25100A	PBBT50 ER25-100	ER25	100	1 ~ 16	42	42	100	29	60	
T00BT50022-25150A	PBBT50 ER25-150	ER25	150	1 ~ 16	42	42	150	29	110	
T00BT50022-25160A	PBBT50 ER25-160	ER25	160	1 ~ 16	42	42	160	29	120	
T00BT50022-25200A	PBBT50 ER25-200	ER25	200	1 ~ 16	42	42	200	29	160	

## ER COLLET CHUCK - 022 DIN6499

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50022-32070A	PBBT50 ER32-070	ER32	70	2~20	50	50	70	34	30	M24
T00BT50022-32100A	PBBT50 ER32-100	ER32	100	2~20	50	50	100	34	60	
T00BT50022-32150A	PBBT50 ER32-150	ER32	150	2~20	50	50	150	34	110	
T00BT50022-32160A	PBBT50 ER32-160	ER32	160	2~20	50	50	160	34	120	
T00BT50022-32200A	PBBT50 ER32-200	ER32	200	2~20	50	50	200	34	160	
T00BT50022-40080A	PBBT50 ER40-080	ER40	80	3 ~ 26	63	63	80	38	65	
T00BT50022-40105A	PBBT50 ER40-105	ER40	105	3 ~ 26	63	63	105	38	65	
T00BT50022-40120A	PBBT50 ER40-120	ER40	120	3 ~ 26	63	63	120	38	80	
T00BT50022-40150A	PBBT50 ER40-150	ER40	150	3 ~ 26	63	63	150	38	110	
T00BT50022-40160A	PBBT50 ER40-160	ER40	160	3 ~ 26	63	63	120	38	120	
T00BT50022-40200A	PBBT50 ER40-200	ER40	200	3 ~ 26	63	63	120	38	160	

Note:

- Order : includes Nut, Excludes ER collet and Retention knob and Wrench.
- Assembly ER Collet and Nut and Cutter.



**ACCESSORIES:**

ER NUTS			
Order Number	Part Name	Thread	Type
T04ER11-H1A	ER11 Nut, Hex	M14x0.75	Hex
T04ER16-H1A	ER16 Nut, Hex	M22x1.50	Hex
T04ER20-H1A	ER20 Nut, Hex	M25x1.50	Hex
T04ER25-D1A	ER25 Nut	M32x1.50	Spanner
T04ER32-D1A	ER32 Nut	M40x1.50	Spanner
T04ER40-D1A	ER40 Nut	M50x1.50	Spanner

ER BALANCED NUTS - Balanced 1g-mm	
Order Number	Part Name
T04ER11-H2A	ER11 High-balanced Nut, Hex
T04ER16-H2A	ER16 High-balanced Nut, Hex
T04ER20-H2A	ER20 High-balanced Nut, Hex
T04ER25-D2A	ER25 High-balanced Nut
T04ER32-D2A	ER32 High-balanced Nut
T04ER40-D2A	ER40 High-balanced Nut

ER NUTS		
Order Number	Image	Description
T04ER11-H1A		Hex Nut
T04ER16-H1A		T04ERXX-H1A
T04ER20-H1A		
T04ER25-D1A		Spanner Nut
T04ER32-D1A		T04ERXX-D1A
T04ER40-D1A		

WRENCH			
Order Number	Description	Image	
T07ER1101	Hex wrench		
T07ER1601			T07ERXX01
T07ER2001			
T07ER2502	ER wrench		
T07ER3202			T07ERXX02
T07ER4002			

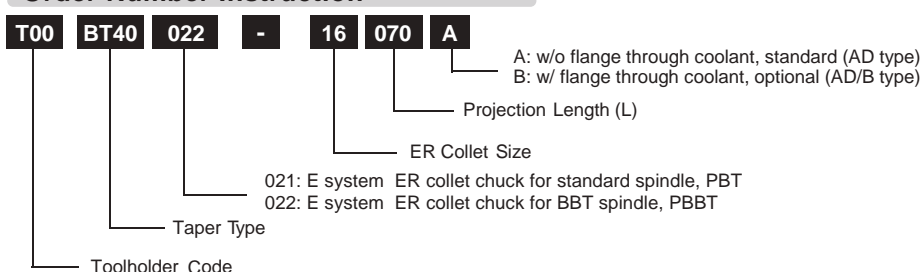
ER BALL BEARING NUTS			
Order Number	Part Name	Thread	Type
T04ER25-D1A-BB	ER25 Ball bearing Nut	M32x1.50	Spanner
T04ER32-D1A-BB	ER32 Ball bearing Nut	M40x1.50	Spanner
T04ER40-D1A-BB	ER40 Ball bearing Nut	M50x1.50	Spanner



BACKUP SCREWS METRIC		
Order Number	Part Name	ER size
T06PS-BTER11LH	ER11 Backup Screws	ER11
T06PS-BTER16LH	ER16 Backup Screws	ER16
T06PS-BTER20LH	ER20 Backup Screws	ER20
T06PS-BTER25LH	ER25 Backup Screws	ER25
T06PS-BTER32LH	ER32 Backup Screws	ER32
T06PS-BTER40LH	ER40 Backup Screws	ER40



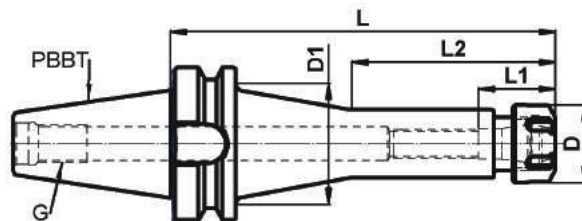
**Order Number Instruction**



## ER COLLET CHUCK - 022 DIN6499

## Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



## PBBT30 ER COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT30022A11070A	PBBT30 ER11-2.76"	ER11	2.76"	5/64~17/64"	0.75"	0.75"	2.76"	0.67"	1.77"	M12
T00BT30022A11102A	PBBT30 ER11-4.00"	ER11	4.00"	5/64~17/64"	0.75"	0.75"	4.00"	0.67"	3.03"	
T00BT30022A11152A	PBBT30 ER11-6.00"	ER11	6.00"	5/64~17/64"	0.75"	1.10"	6.00"	0.67"	3.15"	
T00BT30022A16070A	PBBT30 ER16-2.76"	ER16	2.76"	5/64~13/32"	1.10"	1.10"	2.76"	0.87"	1.77"	
T00BT30022A16102A	PBBT30 ER16-4.00"	ER16	4.00"	5/64~13/32"	1.10"	1.10"	4.00"	0.87"	3.03"	
T00BT30022A16152A	PBBT30 ER16-6.00"	ER16	6.00"	5/64~13/32"	1.10"	1.34"	6.00"	0.87"	3.30"	
T00BT30022A16203A	PBBT30 ER16-8.00"	ER16	8.00"	5/64~13/32"	1.10"	1.34"	8.00"	0.87"	3.30"	
T00BT30022A22070A	PBBT30 ER20-2.76"	ER20	2.76"	5/64~1/2"	1.34"	1.34"	2.76"	1.04"	1.77"	
T00BT30022A20102A	PBBT30 ER20-4.00"	ER20	4.00"	5/64~1/2"	1.34"	1.34"	4.00"	1.04"	3.03"	
T00BT30022A20152A	PBBT30 ER20-6.00"	ER20	6.00"	5/64~1/2"	1.34"	1.34"	6.00"	1.04"	5.00"	
T00BT30022A25060A	PBBT30 ER25-2.36"	ER25	2.36"	5/64~5/8"	1.65"	1.65"	2.36"	1.14"	1.38"	
T00BT30022A25070A	PBBT30 ER25-2.76"	ER25	2.76"	5/64~5/8"	1.65"	1.65"	2.76"	1.14"	1.77"	
T00BT30022A25102A	PBBT30 ER25-4.00"	ER25	4.00"	5/64~5/8"	1.65"	1.65"	4.00"	1.14"	3.03"	
T00BT30022A25152A	PBBT30 ER25-6.00"	ER25	6.00"	5/64~5/8"	1.65"	1.65"	6.00"	1.14"	5.00"	
T00BT30022A32270A	PBBT30 ER32-2.76"	ER32	2.76"	5/64~25/32"	1.97"	1.97"	2.76"	1.34"	1.77"	
T00BT30022A32102A	PBBT30 ER32-4.00"	ER32	4.00"	5/64~25/32"	1.97"	1.97"	4.00"	1.34"	3.03"	
T00BT30022A32152A	PBBT30 ER32-6.00"	ER32	6.00"	5/64~25/32"	1.97"	1.97"	6.00"	1.34"	5.00"	

## PBBT40 ER COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT40022A11070A	PBBT40 ER11-2.76"	ER11	2.76"	5/64~17/64"	0.75"	0.75"	2.76"	0.67"	1.57"	M16
T00BT40022A11102A	PBBT40 ER11-4.00"	ER11	4.00"	5/64~17/64"	0.75"	0.75"	4.00"	0.67"	2.83"	
T00BT40022A11152A	PBBT40 ER11-6.00"	ER11	6.00"	5/64~17/64"	0.75"	1.10"	6.00"	0.67"	3.15"	
T00BT40022A11203A	PBBT40 ER11-8.00"	ER11	8.00"	5/64~17/64"	0.75"	1.10"	8.00"	0.67"	3.15"	
T00BT40022A16063A	PBBT40 ER16-2.48"	ER16	2.48"	5/64~13/32"	1.10"	1.10"	2.48"	0.87"	1.30"	
T00BT40022A16070A	PBBT40 ER16-2.76"	ER16	2.76"	5/64~13/32"	1.10"	1.10"	2.76"	0.87"	1.57"	
T00BT40022A16102A	PBBT40 ER16-4.00"	ER16	4.00"	5/64~13/32"	1.10"	1.10"	4.00"	0.87"	2.83"	
T00BT40022A16152A	PBBT40 ER16-6.00"	ER16	6.00"	5/64~13/32"	1.10"	1.34"	6.00"	0.87"	3.30"	
T00BT40022A16203A	PBBT40 ER16-8.00"	ER16	8.00"	5/64~13/32"	1.10"	1.34"	8.00"	0.87"	3.30"	
T00BT40022A20060A	PBBT40 ER20-2.36"	ER20	2.36"	5/64~1/2"	1.34"	1.34"	2.36"	1.04"	1.18"	
T00BT40022A20070A	PBBT40 ER20-2.76"	ER20	2.76"	5/64~1/2"	1.34"	1.34"	2.76"	1.04"	1.57"	
T00BT40022A20102A	PBBT40 ER20-4.00"	ER20	4.00"	5/64~1/2"	1.34"	1.34"	4.00"	1.04"	2.83"	
T00BT40022A20152A	PBBT40 ER20-6.00"	ER20	6.00"	5/64~1/2"	1.34"	1.34"	6.00"	1.04"	4.80"	
T00BT40022A20203A	PBBT40 ER20-8.00"	ER20	8.00"	5/64~1/2"	1.34"	1.34"	8.00"	1.04"	6.80"	
T00BT40022A25060A	PBBT40 ER25-2.36"	ER25	2.36"	5/64~5/8"	1.65"	1.65"	2.36"	1.14"	1.18"	
T00BT40022A25070A	PBBT40 ER25-2.76"	ER25	2.76"	5/64~5/8"	1.65"	1.65"	2.76"	1.14"	1.57"	
T00BT40022A25102A	PBBT40 ER25-4.00"	ER25	4.00"	5/64~5/8"	1.65"	1.65"	4.00"	1.14"	2.83"	
T00BT40022A25152A	PBBT40 ER25-6.00"	ER25	6.00"	5/64~5/8"	1.65"	1.65"	6.00"	1.14"	4.80"	
T00BT40022A25203A	PBBT40 ER25-8.00"	ER25	8.00"	5/64~5/8"	1.65"	1.65"	8.00"	1.14"	6.80"	
T00BT40022A32270A	PBBT40 ER32-2.76"	ER32	2.76"	5/64~25/32"	1.97"	1.97"	2.76"	1.34"	1.57"	
T00BT40022A32102A	PBBT40 ER32-4.00"	ER32	4.00"	5/64~25/32"	1.97"	1.97"	4.00"	1.34"	2.83"	
T00BT40022A32152A	PBBT40 ER32-6.00"	ER32	6.00"	5/64~25/32"	1.97"	1.97"	6.00"	1.34"	4.80"	
T00BT40022A32203A	PBBT40 ER32-8.00"	ER32	8.00"	5/64~25/32"	1.97"	1.97"	8.00"	1.34"	6.80"	
T00BT40022A40080A	PBBT40 ER40-3.15"	ER40	3.15"	5/64~1"	2.48"	2.48"	3.15"	1.50"	1.97"	
T00BT40022A40102A	PBBT40 ER40-4.00"	ER40	4.00"	5/64~1"	2.48"	2.48"	4.00"	1.50"	2.83"	
T00BT40022A40152A	PBBT40 ER40-6.00"	ER40	6.00"	5/64~1"	2.48"	2.48"	6.00"	1.50"	4.80"	
T00BT40022A40203A	PBBT40 ER40-8.00"	ER40	8.00"	5/64~1"	2.48"	2.48"	8.00"	1.50"	6.80"	

## PBBT50 ER COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50022A16102A	PBBT50 ER16-4.00"	ER16	4.00"	5/64~13/32"	1.10"	1.10"	4.00"	0.87"	2.44"	M24
T00BT50022A16152A	PBBT50 ER16-6.00"	ER16	6.00"	5/64~13/32"	1.10"	1.34"	6.00"	0.87"	3.30"	
T00BT50022A16203A	PBBT50 ER16-8.00"	ER16	8.00"	5/64~13/32"	1.10"	1.34"	8.00"	0.87"	3.30"	
T00BT50022A20102A	PBBT50 ER20-4.00"	ER20	4.00"	5/64~1/2"	1.34"	1.34"	4.00"	1.04"	2.44"	
T00BT50022A20152A	PBBT50 ER20-6.00"	ER20	6.00"	5/64~1/2"	1.34"	1.34"	6.00"	1.04"	4.40"	
T00BT50022A20203A	PBBT50 ER20-8.00"	ER20	8.00"	5/64~1/2"	1.34"	1.34"	8.00"	1.04"	4.40"	
T00BT50022A25102A	PBBT50 ER25-4.00"	ER25	4.00"	5/64~5/8"	1.65"	1.65"	4.00"	1.14"	2.44"	
T00BT50022A25152A	PBBT50 ER25-6.00"	ER25	6.00"	5/64~5/8"	1.65"	1.65"	6.00"	1.14"	4.40"	
T00BT50022A25203A	PBBT50 ER25-8.00"	ER25	8.00"	5/64~5/8"	1.65"	1.65"	8.00"	1.14"	6.40"	
T00BT50022A32270A	PBBT50 ER32-2.76"	ER32	2.76"	5/64~25/32"	1.97"	1.97"	2.76"	1.34"	1.18"	
T00BT50022A32102A	PBBT50 ER32-4.00"	ER32	4.00"	5/64~25/32"	1.97"	1.97"	4.00"	1.34"	2.44"	
T00BT50022A32152A	PBBT50 ER32-6.00"	ER32	6.00"	5/64~25/32"	1.97"	1.97"	6.00"	1.34"	4.40"	

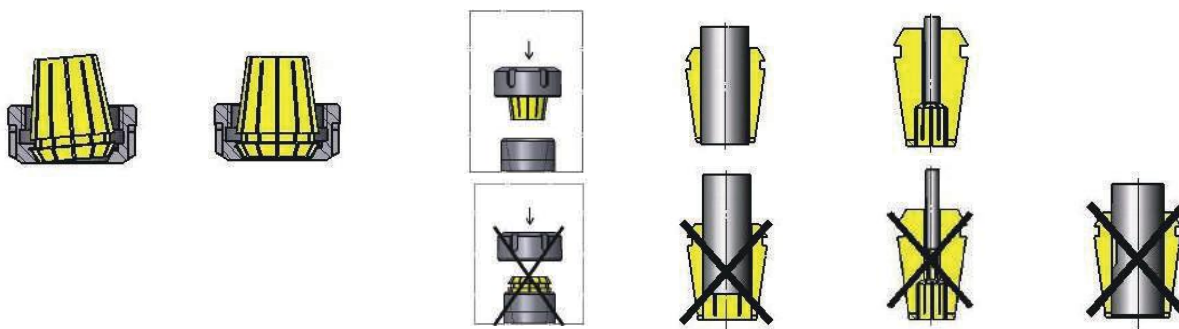


## ER COLLET CHUCK - 022 DIN6499

Order Number	Part Name	Collet	Length	Range	D	D1	L	L1	L2	G
T00BT50022A32203A	PBBT50 ER32-8.00"	ER32	8.00"	5/64~25/32"	1.97"	1.97"	8.00"	1.34"	6.40"	M24
T00BT50022A40102A	PBBT50 ER40-4.00"	ER40	4.00"	5/64~1"	2.48"	2.48"	4.00"	1.50"	2.44"	
T00BT50022A40152A	PBBT50 ER40-6.00"	ER40	6.00"	5/64~1"	2.48"	2.48"	6.00"	1.50"	4.40"	
T00BT50022A40203A	PBBT50 ER40-8.00"	ER40	8.00"	5/64~1"	2.48"	2.48"	8.00"	1.50"	6.40"	

**Note:**

1. Order : includes Nut, Excludes ER collet and Retention knob and Wrench.
2. Assembly ER Collet and Nut and Cutter.



**ACCESSORIES:**

ER NUTS			
Order Number	Part Name	Thread	Type
T04ER11-H1A	ER11 Nut, Hex	M14×0.75	Hex
T04ER16-H1A	ER16 Nut, Hex	M22×1.50	Hex
T04ER20-H1A	ER20 Nut, Hex	M25×1.50	Hex
T04ER25-D1A	ER25 Nut	M32×1.50	Spanner
T04ER32-D1A	ER32 Nut	M40×1.50	Spanner
T04ER40-D1A	ER40 Nut	M50×1.50	Spanner

ER BALANCED NUTS - Balanced 1g-mm	
Order Number	Part Name
T04ER11-H2A	ER11 High-balanced Nut, Hex
T04ER16-H2A	ER16 High-balanced Nut, Hex
T04ER20-H2A	ER20 High-balanced Nut, Hex
T04ER25-D2A	ER25 High-balanced Nut
T04ER32-D2A	ER32 High-balanced Nut
T04ER40-D2A	ER40 High-balanced Nut

ER NUTS		
Order Number	Image	Part Name
T04ER11-H1A		Hex Nut
T04ER16-H1A		T04ERXX-H1A
T04ER20-H1A		
T04ER25-D1A		Spanner Nut
T04ER32-D1A		T04ERXX-D1A
T04ER40-D1A		

WRENCH		
Order Number	Image	Part Name
T07ER1101		Hex wrench
T07ER1601		T07ERXX01
T07ER2001		
T07ER2502		ER wrench
T07ER3202		T07ERXX02
T07ER4002		

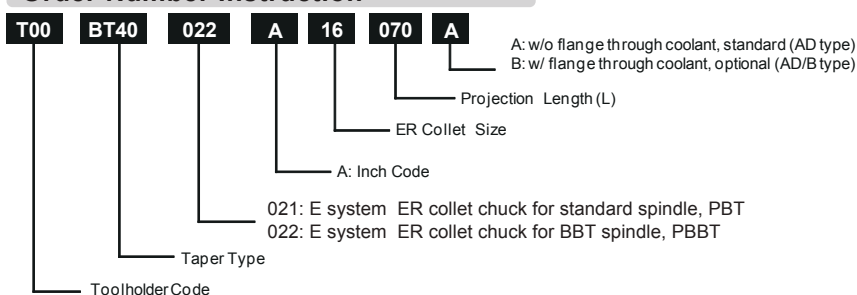
ER BALL BEARING NUTS			
Order Number	Part Name	Thread	Type
T04ER25-D1A-BB	ER25 Ball bearing Nut	M32×1.50	Spanner
T04ER32-D1A-BB	ER32 Ball bearing Nut	M40×1.50	Spanner
T04ER40-D1A-BB	ER40 Ball bearing Nut	M50×1.50	Spanner



BACKUP SCREWS INCH		
Order Number	Part Name	ER size
T06PS-BTER11LH	ER11 Backup Screws	ER11
T06PS-BTER16LH	ER16 Backup Screws	ER16
T06PS-BTER20LH	ER20 Backup Screws	ER20
T06PS-BTER25LH	ER25 Backup Screws	ER25
T06PS-BTER32LH	ER32 Backup Screws	ER32
T06PS-BTER40LH	ER40 Backup Screws	ER40

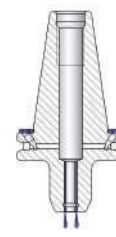
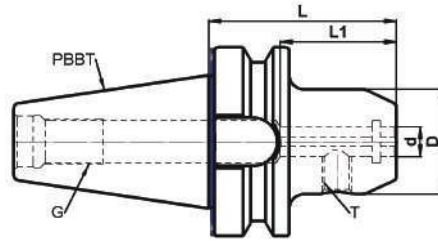


**Order Number Instruction**



**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBBT30 END MILL HOLDER COOLANT SLOT METRIC**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT30032-06050A	PBBT30 EM06-050J	6	50	6	25	50	30	M6	M12
T00BT30032-08050A	PBBT30 EM08-050J	8	50	8	28	50	35	M8	
T00BT30032-10050A	PBBT30 EM10-050J	10	50	10	35	50	40	M10	
T00BT30032-12063A	PBBT30 EM12-063J	12	63	12	42	63	44	M12	
T00BT30032-16063A	PBBT30 EM16-063J	16	63	16	48	63	47	M14	
T00BT30032-20063A	PBBT30 EM20-063J	20	63	20	52	63	49	M16	

**PBBT40 END MILL HOLDER COOLANT SLOT METRIC**

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT40032-06050A	PBBT40 EM06-050J	6	50	6	25	50	30	M6	M16
T00BT40032-06100A	PBBT40 EM06-100J	6	100	6	25	100	30	M6	
T00BT40032-08050A	PBBT40 EM08-050J	8	50	8	28	50	35	M8	
T00BT40032-08100A	PBBT40 EM08-100J	8	100	8	28	100	35	M8	
T00BT40032-10063A	PBBT40 EM10-063J	10	63	10	35	63	39	M10	
T00BT40032-10100A	PBBT40 EM10-100J	10	100	10	35	100	39	M10	
T00BT40032-12063A	PBBT40 EM12-063J	12	63	12	42	63	44	M12	
T00BT40032-12100A	PBBT40 EM12-100J	12	100	12	42	100	44	M12	
T00BT40032-14063A	PBBT40 EM14-063J	14	63	14	42	63	44	M12	
T00BT40032-14100A	PBBT40 EM14-100J	14	100	14	42	100	44	M12	
T00BT40032-16063A	PBBT40 EM16-063J	16	63	16	48	63	47	M14	
T00BT40032-16100A	PBBT40 EM16-100J	16	100	16	48	100	47	M14	
T00BT40032-18063A	PBBT40 EM18-063J	18	63	18	48	63	47	M14	
T00BT40032-18100A	PBBT40 EM18-100J	18	100	18	48	100	47	M14	
T00BT40032-20063A	PBBT40 EM20-063J	20	63	20	52	63	49	M16	
T00BT40032-20100A	PBBT40 EM20-100J	20	100	20	52	100	49	M16	
T00BT40032-25090A	PBBT40 EM25-090J	25	90	25	65	90	64	M18	
T00BT40032-25160A	PBBT40 EM25-160J	25	160	25	65	160	64	M18	
T00BT40032-32100A	PBBT40 EM32-100J	32	100	32	72	100	68	M20	
T00BT40032-32160A	PBBT40 EM32-160J	32	160	32	72	160	68	M20	

**PBBT50 END MILL HOLDER COOLANT SLOT METRIC**

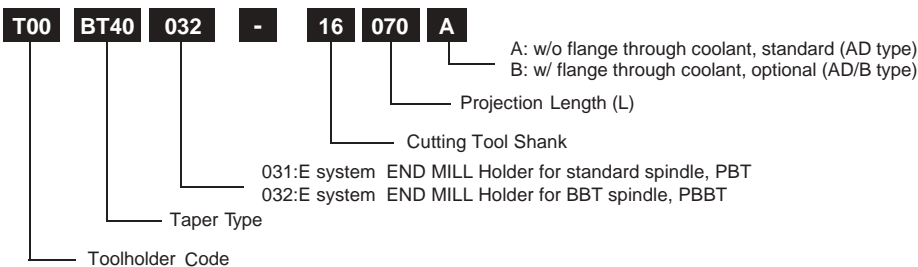
Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT50032-06063A	PBBT50 EM06-063J	6	63	6	25	63	30	M6	M24
T00BT50032-06100A	PBBT50 EM06-100J	6	100	6	25	100	30	M6	
T00BT50032-06160A	PBBT50 EM06-160J	6	160	6	25	160	30	M6	
T00BT50032-08063A	PBBT50 EM08-063J	8	63	8	28	63	35	M8	
T00BT50032-08100A	PBBT50 EM08-100J	8	100	8	28	100	35	M8	
T00BT50032-08160A	PBBT50 EM08-160J	8	160	8	28	160	35	M8	
T00BT50032-10080A	PBBT50 EM10-080J	10	80	10	35	80	40	M10	
T00BT50032-10100A	PBBT50 EM10-100J	10	100	10	35	100	40	M10	
T00BT50032-10160A	PBBT50 EM10-160J	10	160	10	35	160	40	M10	
T00BT50032-12080A	PBBT50 EM12-080J	12	80	12	42	80	44	M12	
T00BT50032-12100A	PBBT50 EM12-100J	12	100	12	42	100	44	M12	
T00BT50032-12160A	PBBT50 EM12-160J	12	160	12	42	160	44	M12	
T00BT50032-14080A	PBBT50 EM14-080J	14	80	14	42	80	44	M12	
T00BT50032-14100A	PBBT50 EM14-100J	14	100	14	42	100	44	M12	
T00BT50032-16080A	PBBT50 EM16-080J	16	80	16	48	80	47	M14	
T00BT50032-16100A	PBBT50 EM16-100J	16	100	16	48	100	47	M14	
T00BT50032-16160A	PBBT50 EM16-160J	16	160	16	48	160	47	M14	
T00BT50032-18080A	PBBT50 EM18-080J	18	80	18	48	80	47	M14	
T00BT50032-18100A	PBBT50 EM18-100J	18	100	18	48	100	47	M14	
T00BT50032-20080A	PBBT50 EM20-080J	20	80	20	52	80	49	M16	
T00BT50032-20100A	PBBT50 EM20-100J	20	100	20	52	100	49	M16	
T00BT50032-20160A	PBBT50 EM20-160J	20	160	20	52	160	49	M16	
T00BT50032-25105A	PBBT50 EM25-105J	25	105	25	65	105	64	M18	
T00BT50032-25160A	PBBT50 EM25-160J	25	160	25	65	160	64	M18	
T00BT50032-32105A	PBBT50 EM32-105J	32	105	32	72	105	68	M20	
T00BT50032-32160A	PBBT50 EM32-160J	32	160	32	72	160	68	M20	

ACCESSORIES:

SET SCREWS METRIC		
Order Number	Part Name	ER size
T06EM06-BT	EM06 Set Screw	6
T06EM08-BT	EM08 Set Screw	8
T06EM10-BT	EM10 Set Screw	10
T06EM12-BT	EM12&14 Set Screw	12 , 14
T06EM16-BT	EM16&18Set Screw	16 , 18
T06EM20-BT	EM20 Set Screw	20
T06EM25-BT	EM25 Set Screw	25
T06EM32-BT	EM32 Set Screw	32
T06EM40-BT	EM40&42Set Screw	40 , 42
T06EM50-BT	EM50 Set Screw	50
T06EM63-BT	EM63 Set Screw	63

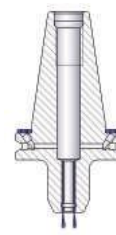
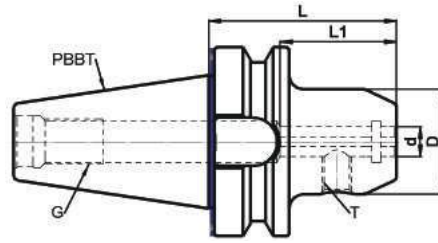


Order Number Instruction



**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBBT30 END MILL HOLDER COOLANT SLOT INCH**

Order Number	Part Name	Cutter	Length	d inch	D	L	L1	T	G
T00BT30032A03050A	PBBT30 EM1/8"-1.97"J	1/8"	1.97"	1/8"	0.50"	1.97"	1.18"	No.6-32	M12
T00BT30032A05050A	PBBT30 EM3/16"-1.97"J	3/16"	1.97"	3/16"	0.56"	1.97"	1.18"	No.8-32	
T00BT30032A06050A	PBBT30 EM1/4"-1.97"J	1/4"	1.97"	1/4"	0.79"	1.97"	1.18"	1/4"-28	
T00BT30032A08050A	PBBT30 EM5/16"-1.97"J	5/16"	1.97"	5/16"	1.00"	1.97"	1.38"	1/4"-28	
T00BT30032A09050A	PBBT30 EM3/8"-1.97"J	3/8"	1.97"	3/8"	1.00"	1.97"	1.54"	3/8"-24	
T00BT30032A12063A	PBBT30 EM1/2"-2.48"J	1/2"	2.48"	1/2"	1.38"	2.48"	1.73"	7/16"-20	
T00BT30032A16063A	PBBT30 EM5/8"-2.48"J	5/8"	2.48"	5/8"	1.65"	2.48"	2.09"	9/16"-18	
T00BT30032A19063A	PBBT30 EM3/4"-2.48"J	3/4"	2.48"	3/4"	1.89"	2.48"	2.24"	5/8"-18	

**PBBT40 END MILL HOLDER COOLANT SLOT INCH**

Order Number	Part Name	Cutter	Length	d inch	D	L	L1	T	G
T00BT40032A03065A	PBBT30 EM1/8"-2.56"J	1/8"	2.56"	1/8"	0.69"	2.56"	0.63"	No.6-32	M16
T00BT40032A05065A	PBBT40 EM3/16"-2.56"J	3/16"	2.56"	3/16"	0.79"	2.56"	0.86"	No.8-32	
T00BT40032A06065A	PBBT40 EM1/4"-2.56"J	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28	
T00BT40032A06102A	PBBT40 EM1/4"-4.00"J	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28	
T00BT40032A08063A	PBBT40 EM5/16"-2.50"J	5/16"	2.50"	5/16"	1.00"	2.50"	1.38"	1/4"-28	
T00BT40032A08102A	PBBT40 EM5/16"-4.00"J	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28	
T00BT40032A09065A	PBBT40 EM3/8"-2.56"J	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24	
T00BT40032A09102A	PBBT40 EM3/8"-4.00"J	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24	
T00BT40032A12065A	PBBT40 EM1/2"-2.56"J	1/2"	2.56"	1/2"	1.38"	2.56"	1.73"	7/16"-20	
T00BT40032A12102A	PBBT40 EM1/2"-4.00"J	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20	
T00BT40032A16065A	PBBT40 EM5/8"-2.56"J	5/8"	2.56"	5/8"	1.65"	2.56"	2.09"	9/16"-18	
T00BT40032A16102A	PBBT40 EM5/8"-4.00"J	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18	
T00BT40032A19065A	PBBT40 EM3/4"-2.56"J	3/4"	2.56"	3/4"	1.89"	2.56"	2.24"	5/8"-18	
T00BT40032A19102A	PBBT40 EM3/4"-4.00"J	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18	
T00BT40032A22089A	PBBT40 EM7/8"-3.50"J	7/8"	3.50"	7/8"	2.00"	3.50"	2.17"	5/8"-18	
T00BT40032A25102A	PBBT40 EM1"-4.00"J	1"	4.00"	1"	2.36"	4.00"	2.52"	3/4"-16	
T00BT40032A25152A	PBBT40 EM1"-6.00"J	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16	
T00BT40032A32102A	PBBT40 EM1 1/4"-4.00"J	1 1/4"	4.00"	1 1/4"	2.83"	4.00"	2.68"	3/4"-16	
T00BT40032A32152A	PBBT40 EM1 1/4"-6.00"J	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16	

**PBBT50 END MILL HOLDER COOLANT SLOT INCH**

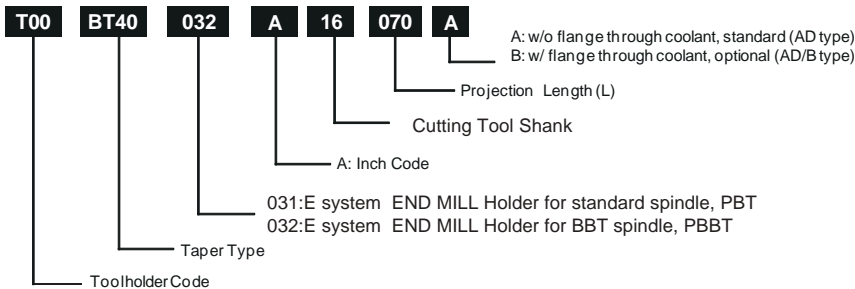
Order Number	Part Name	Cutter	Length	d inch	D	L	L1	T	G
T00BT50032A06065A	PBBT50 EM1/4"-2.56"J	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28	M24
T00BT50032A06102A	PBBT50 EM1/4"-4.00"J	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28	
T00BT50032A06152A	PBBT50 EM1/4"-6.00"J	1/4"	6.00"	1/4"	0.79"	6.00"	1.18"	1/4"-28	
T00BT50032A08065A	PBBT50 EM5/16"-2.56"J	5/16"	2.56"	5/16"	1.00"	2.56"	1.38"	1/4"-28	
T00BT50032A08102A	PBBT50 EM5/16"-4.00"J	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28	
T00BT50032A08152A	PBBT50 EM5/16"-6.00"J	5/16"	6.00"	5/16"	1.00"	6.00"	1.38"	1/4"-28	
T00BT50032A09065A	PBBT50 EM3/8"-2.56"J	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24	
T00BT50032A09102A	PBBT50 EM3/8"-4.00"J	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24	
T00BT50032A09152A	PBBT50 EM3/8"-6.00"J	3/8"	6.00"	3/8"	1.00"	6.00"	1.54"	3/8"-24	
T00BT50032A12076A	PBBT50 EM1/2"-3.00"J	1/2"	3.00"	1/2"	1.38"	3.00"	1.73"	7/16"-20	
T00BT50032A12102A	PBBT50 EM1/2"-4.00"J	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20	
T00BT50032A12152A	PBBT50 EM1/2"-6.00"J	1/2"	6.00"	1/2"	1.38"	6.00"	1.73"	7/16"-20	
T00BT50032A16076A	PBBT50 EM5/8"-3.00"J	5/8"	3.00"	5/8"	1.65"	3.00"	2.09"	9/16"-18	
T00BT50032A16102A	PBBT50 EM5/8"-4.00"J	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18	
T00BT50032A16152A	PBBT50 EM5/8"-6.00"J	5/8"	6.00"	5/8"	1.65"	6.00"	2.09"	9/16"-18	
T00BT50032A19076A	PBBT50 EM3/4"-3.00"J	3/4"	3.00"	3/4"	1.89"	3.00"	2.24"	5/8"-18	
T00BT50032A19102A	PBBT50 EM3/4"-4.00"J	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18	
T00BT50032A22089A	PBBT50 EM7/8"-3.50"J	7/8"	3.50"	7/8"	2.00"	3.50"	2.17"	5/8"-18	
T00BT50032A22152A	PBBT50 EM7/8"-6.00"J	7/8"	6.00"	7/8"	2.00"	6.00"	2.17"	5/8"-18	
T00BT50032A25102A	PBBT50 EM1"-4.00"J	1"	4.00"	1"	2.36"	4.00"	2.52"	3/4"-16	
T00BT50032A25152A	PBBT50 EM1"-6.00"J	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16	
T00BT50032A32102A	PBBT50 EM1 1/4"-4.00"J	1 1/4"	4.00"	1 1/4"	2.83"	4.00"	2.68"	3/4"-16	
T00BT50032A32152A	PBBT50 EM1 1/4"-6.00"J	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16	

ACCESSORIES:

SET SCREWS INCH		
Order Number	Part Name	ER size
T06EM03-CA	EM1/8" Set Screw	1/8"
T06EM05-CA	EM3/16" Set Screw	3/16"
T06EM06-CA	EM1/4" Set Screw	1/4"
T06EM09-CA	EM3/8" Set Screw	3/8"
T06EM12-CA	EM1/2" Set Screw	1/2"
T06EM16-CA01	EM5/8" Set Screw01	5/8"
T06EM16-CA02	EM5/8" Set Screw02	5/8"
T06EM19-CA01	EM3/4" Set Screw01	3/4"
T06EM19-CA02	EM3/4" Set Screw02	3/4"
T06EM25-CA01	EM1" Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1" Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1"Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM1 2" Set Screw	2"



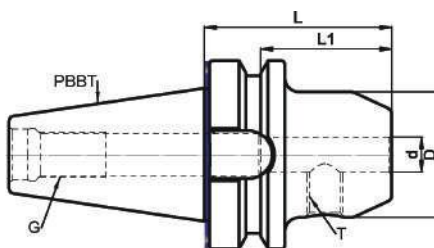
Order Number Instruction



END MILL HOLDER - 042 *DIN1835B*

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



PBBT30 END MILL HOLDER METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT30042-06050A	PBBT30 EM06-050	6	50	6	25	50	30	M6	M12
T00BT30042-08050A	PBBT30 EM08-050	8	50	8	28	50	35	M8	
T00BT30042-10050A	PBBT30 EM10-050	10	50	10	35	50	40	M10	
T00BT30042-12063A	PBBT30 EM12-063	12	63	12	42	63	44	M12	
T00BT30042-16063A	PBBT30 EM16-063	16	63	16	48	63	47	M14	
T00BT30042-20063A	PBBT30 EM20-063	20	63	20	52	63	49	M16	

PBBT40 END MILL HOLDER METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT40042-06050A	PBBT40 EM06-050	6	50	6	25	50	30	M6	M16
T00BT40042-06100A	PBBT40 EM06-100	6	100	6	25	100	30	M6	
T00BT40042-06160A	PBBT40 EM06-160	6	160	6	25	160	30	M6	
T00BT40042-06200A	PBBT40 EM06-200	6	200	6	25	200	30	M6	
T00BT40042-08050A	PBBT40 EM08-050	8	50	8	28	50	35	M8	
T00BT40042-08100A	PBBT40 EM08-100	8	100	8	28	100	35	M8	
T00BT40042-08160A	PBBT40 EM08-160	8	160	8	28	160	35	M8	
T00BT40042-08200A	PBBT40 EM08-200	8	200	8	28	200	35	M8	
T00BT40042-10063A	PBBT40 EM10-063	10	63	10	35	63	39	M10	
T00BT40042-10100A	PBBT40 EM10-100	10	100	10	35	100	39	M10	
T00BT40042-10160A	PBBT40 EM10-160	10	160	10	35	160	39	M10	
T00BT40042-10200A	PBBT40 EM10-200	10	200	10	35	200	39	M10	
T00BT40042-12063A	PBBT40 EM12-063	12	63	12	42	63	44	M12	
T00BT40042-12100A	PBBT40 EM12-100	12	100	12	42	100	44	M12	
T00BT40042-12160A	PBBT40 EM12-160	12	160	12	42	160	44	M12	
T00BT40042-12200A	PBBT40 EM12-200	12	200	12	42	200	44	M12	
T00BT40042-14063A	PBBT40 EM14-063	14	63	14	42	63	44	M12	
T00BT40042-14100A	PBBT40 EM14-100	14	100	14	42	100	44	M12	
T00BT40042-16063A	PBBT40 EM16-063	16	63	16	48	63	47	M14	
T00BT40042-16100A	PBBT40 EM16-100	16	100	16	48	100	47	M14	
T00BT40042-16160A	PBBT40 EM16-160	16	160	16	48	160	47	M14	
T00BT40042-16200A	PBBT40 EM16-200	16	200	16	48	200	47	M14	
T00BT40040-18063A	PBBT40 EM18-063	18	63	18	48	63	47	M14	
T00BT40042-18100A	PBBT40 EM18-100	18	100	18	48	100	47	M14	
T00BT40042-20063A	PBBT40 EM20-063	20	63	20	52	63	49	M16	
T00BT40042-20100A	PBBT40 EM20-100	20	100	20	52	100	49	M16	
T00BT40042-20160A	PBBT40 EM20-160	20	160	20	52	160	49	M16	
T00BT40042-20200A	PBBT40 EM20-200	20	200	20	52	200	49	M16	
T00BT40042-25090A	PBBT40 EM25-090	25	90	25	65	90	64	M18	
T00BT40042-25160A	PBBT40 EM25-160	25	160	25	65	160	64	M18	
T00BT40042-25200A	PBBT40 EM25-200	25	200	25	65	200	64	M18	
T00BT40042-32100A	PBBT40 EM32-100	32	100	32	72	100	68	M20	
T00BT40042-32160A	PBBT40 EM32-160	32	160	32	72	160	68	M20	
T00BT40042-32200A	PBBT40 EM32-200	32	200	32	72	200	68	M20	
T00BT40042-40120A	PBBT40 EM40-120	40	120	40	80	120	78	M20	
T00BT40042-40160A	PBBT40 EM40-160	40	160	40	80	160	78	M20	
T00BT40042-40200A	PBBT40 EM40-200	40	200	40	80	200	78	M20	
T00BT40042-42105A	PBBT40 EM42-105	42	105	42	80	105	80	M20	

PBBT50 END MILL HOLDER METRIC

Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT50042-06063A	PBBT50 EM06-063	6	63	6	25	63	30	M6	M24
T00BT50042-06100A	PBBT50 EM06-100	6	100	6	25	100	30	M6	
T00BT50042-06160A	PBBT50 EM06-160	6	160	6	25	160	30	M6	
T00BT50042-06200A	PBBT50 EM06-200	6	200	6	25	200	30	M6	
T00BT50042-08063A	PBBT50 EM08-063	8	63	8	28	63	35	M8	
T00BT50042-08100A	PBBT50 EM08-100	8	100	8	28	100	35	M8	
T00BT50042-08160A	PBBT50 EM08-160	8	160	8	28	160	35	M8	
T00BT50042-08200A	PBBT50 EM08-200	8	200	8	28	200	35	M8	
T00BT50042-10080A	PBBT50 EM10-080	10	80	10	35	80	40	M10	
T00BT50042-10100A	PBBT50 EM10-100	10	100	10	35	100	40	M10	
T00BT50042-10160A	PBBT50 EM10-160	10	160	10	35	160	40	M10	
T00BT50042-10200A	PBBT50 EM10-200	10	200	10	35	200	40	M10	

**END MILL HOLDER - 042 DIN1835B**

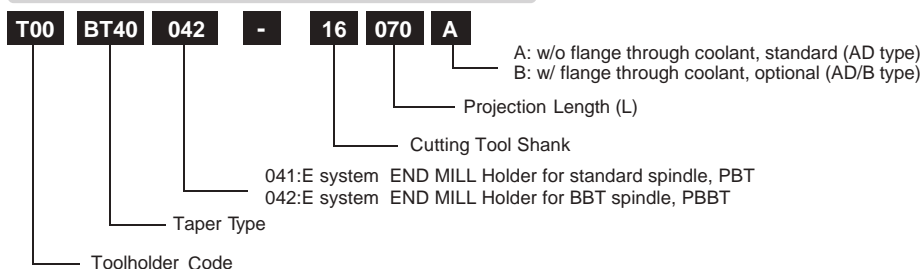
Order Number	Part Name	Cutter	Length	d	D	L	L1	T	G
T00BT50042-12080A	PBBT50 EM12-080	12	80	12	42	80	44	M12	M24
T00BT50042-12100A	PBBT50 EM12-100	12	100	12	42	100	44	M12	
T00BT50042-12160A	PBBT50 EM12-160	12	160	12	42	160	44	M12	
T00BT50042-12200A	PBBT50 EM12-200	12	200	12	42	200	44	M12	
T00BT50042-14080A	PBBT50 EM14-080	14	80	14	42	80	44	M12	
T00BT50042-14100A	PBBT50 EM14-100	14	100	14	42	100	44	M12	
T00BT50042-16080A	PBBT50 EM16-080	16	80	16	48	80	47	M14	
T00BT50042-16100A	PBBT50 EM16-100	16	100	16	48	100	47	M14	
T00BT50042-16160A	PBBT50 EM16-160	16	160	16	48	160	47	M14	
T00BT50042-16200A	PBBT50 EM16-200	16	200	16	48	200	47	M14	
T00BT50042-18080A	PBBT50 EM18-080	18	80	18	48	80	47	M14	
T00BT50042-18100A	PBBT50 EM18-100	18	100	18	48	100	47	M14	
T00BT50042-20080A	PBBT50 EM20-080	20	80	20	52	80	49	M16	
T00BT50042-20100A	PBBT50 EM20-100	20	100	20	52	100	49	M16	
T00BT50042-20160A	PBBT50 EM20-160	20	160	20	52	160	49	M16	
T00BT50042-20200A	PBBT50 EM20-200	20	200	20	52	200	49	M16	
T00BT50042-25105A	PBBT50 EM25-105	25	105	25	65	105	64	M18	
T00BT50042-25160A	PBBT50 EM25-160	25	160	25	65	160	64	M18	
T00BT50042-25200A	PBBT50 EM25-200	25	200	25	65	200	64	M18	
T00BT50042-32105A	PBBT50 EM32-105	32	105	32	72	105	68	M20	
T00BT50042-32160A	PBBT50 EM32-160	32	160	32	72	160	68	M20	
T00BT50042-32200A	PBBT50 EM32-200	32	200	32	72	200	68	M20	
T00BT50042-40120A	PBBT50 EM40-120	40	120	40	80	120	78	M20	
T00BT50042-40160A	PBBT50 EM40-160	40	160	40	80	160	78	M20	
T00BT50042-40200A	PBBT50 EM40-200	40	200	40	80	200	78	M20	
T00BT50042-50130A	PBBT50 EM50-130	50	130	50	92	130	83	M24	
T00BT50042-50160A	PBBT50 EM50-160	50	160	50	92	160	83	M24	
T00BT50042-50200A	PBBT50 EM50-200	50	200	50	92	200	83	M24	

**ACCESSORIES:**

SET SCREWS METRIC		
Order Number	Part Name	ER size
T06EM06-BT	EM06 Set Screw	6
T06EM08-BT	EM08 Set Screw	8
T06EM10-BT	EM10 Set Screw	10
T06EM12-BT	EM12&14 Set Screw	12 , 14
T06EM16-BT	EM16&18Set Screw	16 , 18
T06EM20-BT	EM20 Set Screw	20
T06EM25-BT	EM25 Set Screw	25
T06EM32-BT	EM32 Set Screw	32
T06EM40-BT	EM40&42Set Screw	40 , 42
T06EM50-BT	EM50 Set Screw	50
T06EM63-BT	EM63 Set Screw	63



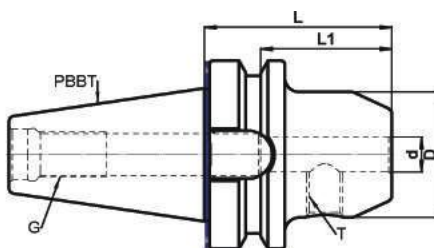
**Order Number Instruction**



## END MILL HOLDER - 042 *DIN1835B*

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBBT30 END MILL HOLDER INCH**

Order Number	Part Name	Cutter	Length	d inch	D	L	L1	T	G
T00BT30042A03050A	PBBT30 EM1/8"-1.97"	1/8"	1.97"	1/8"	0.69"	1.97"	0.63"	No.6-32	M12
T00BT30042A05050A	PBBT30 EM3/16"-1.97"	3/16"	1.97"	3/16"	0.79"	1.97"	0.86"	No.8-32	
T00BT30042A06050A	PBBT30 EM1/4"-1.97"	1/4"	1.97"	1/4"	0.79"	1.97"	1.18"	1/4"-28	
T00BT30042A08050A	PBBT30 EM5/16"-1.97"	5/16"	1.97"	5/16"	1.00"	1.97"	1.38"	1/4"-28	
T00BT30042A09050A	PBBT30 EM3/8"-1.97"	3/8"	1.97"	3/8"	1.00"	1.97"	1.54"	3/8"-24	
T00BT30042A12063A	PBBT30 EM1/2"-2.48"	1/2"	2.48"	1/2"	1.38"	2.56"	1.73"	7/16"-20	
T00BT30042A16063A	PBBT30 EM5/8"-2.48"	5/8"	2.48"	5/8"	1.65"	2.56"	2.09"	9/16"-18	
T00BT30042A19063A	PBBT30 EM3/4"-2.48"	3/4"	2.48"	3/4"	1.89"	2.56"	2.24"	5/8"-18	

**PBBT40 END MILL HOLDER INCH**

Order Number	Part Name	Cutter	Length	d inch	D	L	L1	T	G
T00BT40042A03065A	PBBT40 EM1/8"-2.56"	1/8"	2.56"	1/8"	0.69"	2.56"	0.63"	No.6-32	M16
T00BT40042A05065A	PBBT40 EM3/16"-2.56"	3/16"	2.56"	3/16"	0.79"	2.56"	0.86"	No.8-32	
T00BT40042A06065A	PBBT40 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28	
T00BT40042A06102A	PBBT40 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28	
T00BT40042A06152A	PBBT40 EM1/4"-6.00"	1/4"	6.00"	1/4"	0.79"	6.00"	1.18"	1/4"-28	
T00BT40042A06203A	PBBT40 EM1/4"-8.00"	1/4"	8.00"	1/4"	0.79"	8.00"	1.18"	1/4"-28	
T00BT40042A08063A	PBBT40 EM5/16"-2.50"	5/16"	2.50"	5/16"	1.00"	2.50"	1.38"	1/4"-28	
T00BT40042A08102A	PBBT40 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28	
T00BT40042A08152A	PBBT40 EM5/16"-6.00"	5/16"	6.00"	5/16"	1.00"	6.00"	1.38"	1/4"-28	
T00BT40042A08203A	PBBT40 EM5/16"-8.00"	5/16"	8.00"	5/16"	1.00"	8.00"	1.38"	1/4"-28	
T00BT40042A09065A	PBBT40 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24	
T00BT40042A09102A	PBBT40 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24	
T00BT40042A09152A	PBBT40 EM3/8"-6.00"	3/8"	6.00"	3/8"	1.00"	6.00"	1.54"	3/8"-24	
T00BT40042A09203A	PBBT40 EM3/8"-8.00"	3/8"	8.00"	3/8"	1.00"	8.00"	1.54"	3/8"-24	
T00BT40042A12065A	PBBT40 EM1/2"-2.56"	1/2"	2.56"	1/2"	1.38"	2.56"	1.73"	7/16"-20	
T00BT40042A12102A	PBBT40 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20	
T00BT40042A12152A	PBBT40 EM1/2"-6.00"	1/2"	6.00"	1/2"	1.38"	6.00"	1.73"	7/16"-20	
T00BT40042A12203A	PBBT40 EM1/2"-8.00"	1/2"	8.00"	1/2"	1.38"	8.00"	1.73"	7/16"-20	
T00BT40042A16065A	PBBT40 EM5/8"-2.56"	5/8"	2.56"	5/8"	1.65"	2.56"	2.09"	9/16"-18	
T00BT40042A16102A	PBBT40 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18	
T00BT40042A16152A	PBBT40 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	6.00"	2.09"	9/16"-18	
T00BT40042A16203A	PBBT40 EM5/8"-8.00"	5/8"	8.00"	5/8"	1.65"	8.00"	2.09"	9/16"-18	
T00BT40042A19065A	PBBT40 EM3/4"-2.56"	3/4"	2.56"	3/4"	1.89"	2.56"	2.24"	5/8"-18	
T00BT40042A19102A	PBBT40 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18	
T00BT40042A19152A	PBBT40 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	6.00"	2.24"	5/8"-18	
T00BT40042A19203A	PBBT40 EM3/4"-8.00"	3/4"	8.00"	3/4"	1.89"	8.00"	2.24"	5/8"-18	
T00BT40042A22089A	PBBT40 EM7/8"-3.50"	7/8"	3.50"	7/8"	2.00"	3.50"	2.17"	5/8"-18	
T00BT40042A22152A	PBBT40 EM7/8"-6.00"	7/8"	6.00"	7/8"	2.00"	6.00"	2.17"	5/8"-18	
T00BT40042A22203A	PBBT40 EM7/8"-8.00"	7/8"	8.00"	7/8"	2.00"	8.00"	2.17"	5/8"-18	
T00BT40042A25102A	PBBT40 EM1"-4.00"	1"	4.00"	1"	2.36"	4.00"	2.52"	3/4"-16	
T00BT40042A25152A	PBBT40 EM1"-6.00"	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16	
T00BT40042A25203A	PBBT40 EM1"-8.00"	1"	8.00"	1"	2.36"	8.00"	2.52"	3/4"-16	
T00BT40042A32102A	PBBT40 EM1 1/4"-4.00"	1 1/4"	4.00"	1 1/4"	2.83"	4.00"	2.68"	3/4"-16	
T00BT40042A32152A	PBBT40 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16	
T00BT40042A32203A	PBBT40 EM1 1/4"-8.00"	1 1/4"	8.00"	1 1/4"	2.83"	8.00"	2.68"	3/4"-16	

**PBBT50 END MILL HOLDER INCH**

Order Number	Part Name	Cutter	Length	d inch	D	L	L1	T	G
T00BT50042A06065A	PBBT50 EM1/4"-2.56"	1/4"	2.56"	1/4"	0.79"	2.56"	1.18"	1/4"-28	M24
T00BT50042A06102A	PBBT50 EM1/4"-4.00"	1/4"	4.00"	1/4"	0.79"	4.00"	1.18"	1/4"-28	
T00BT50042A06152A	PBBT50 EM1/4"-6.00"	1/4"	6.00"	1/4"	0.79"	6.00"	1.18"	1/4"-28	
T00BT50042A06203A	PBBT50 EM1/4"-8.00"	1/4"	8.00"	1/4"	0.79"	8.00"	1.18"	1/4"-28	
T00BT50042A08065A	PBBT50 EM5/16"-2.56"	5/16"	2.56"	5/16"	1.00"	2.56"	1.38"	1/4"-28	
T00BT50042A08102A	PBBT50 EM5/16"-4.00"	5/16"	4.00"	5/16"	1.00"	4.00"	1.38"	1/4"-28	
T00BT50042A08152A	PBBT50 EM5/16"-6.00"	5/16"	6.00"	5/16"	1.00"	6.00"	1.38"	1/4"-28	
T00BT50042A08203A	PBBT50 EM5/16"-8.00"	5/16"	8.00"	5/16"	1.00"	8.00"	1.38"	1/4"-28	
T00BT50042A09065A	PBBT50 EM3/8"-2.56"	3/8"	2.56"	3/8"	1.00"	2.56"	1.54"	3/8"-24	
T00BT50042A09102A	PBBT50 EM3/8"-4.00"	3/8"	4.00"	3/8"	1.00"	4.00"	1.54"	3/8"-24	
T00BT50042A09152A	PBBT50 EM3/8"-6.00"	3/8"	6.00"	3/8"	1.00"	6.00"	1.54"	3/8"-24	
T00BT50042A09203A	PBBT50 EM3/8"-8.00"	3/8"	8.00"	3/8"	1.00"	8.00"	1.54"	3/8"-24	
T00BT50042A12076A	PBBT50 EM1/2"-3.00"	1/2"	3.00"	1/2"	1.38"	3.00"	1.73"	7/16"-20	
T00BT50042A12102A	PBBT50 EM1/2"-4.00"	1/2"	4.00"	1/2"	1.38"	4.00"	1.73"	7/16"-20	



END MILL HOLDER - 042 DIN1835B

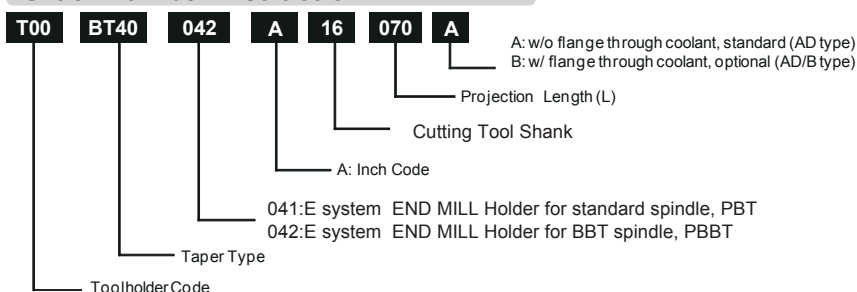
Order Number	Part Name	Cutter	Length	d inch	D	L	L1	T	G
T00BT50042A12152A	PBBT50 EM1/2"-6.00"	1/2"	6.00"	1/2"	1.38"	6.00"	1.73"	7/16"-20	M24
T00BT50042A12203A	PBBT50 EM1/2"-8.00"	1/2"	8.00"	1/2"	1.38"	8.00"	1.73"	7/16"-20	
T00BT50042A16076A	PBBT50 EM5/8"-3.00"	5/8"	3.00"	5/8"	1.65"	3.00"	2.09"	9/16"-18	
T00BT50042A16102A	PBBT50 EM5/8"-4.00"	5/8"	4.00"	5/8"	1.65"	4.00"	2.09"	9/16"-18	
T00BT50042A16152A	PBBT50 EM5/8"-6.00"	5/8"	6.00"	5/8"	1.65"	6.00"	2.09"	9/16"-18	
T00BT50042A16203A	PBBT50 EM5/8"-8.00"	5/8"	8.00"	5/8"	1.65"	8.00"	2.09"	9/16"-18	
T00BT50042A19076A	PBBT50 EM3/4"-3.00"	3/4"	3.00"	3/4"	1.89"	3.00"	2.24"	5/8"-18	
T00BT50042A19102A	PBBT50 EM3/4"-4.00"	3/4"	4.00"	3/4"	1.89"	4.00"	2.24"	5/8"-18	
T00BT50042A19152A	PBBT50 EM3/4"-6.00"	3/4"	6.00"	3/4"	1.89"	6.00"	2.24"	5/8"-18	
T00BT50042A19203A	PBBT50 EM3/4"-8.00"	3/4"	8.00"	3/4"	1.89"	8.00"	2.24"	5/8"-18	
T00BT50042A22089A	PBBT50 EM7/8"-3.50"	7/8"	3.50"	7/8"	2.00"	3.50"	2.17"	5/8"-18	
T00BT50042A22152A	PBBT50 EM7/8"-6.00"	7/8"	6.00"	7/8"	2.00"	6.00"	2.17"	5/8"-18	
T00BT50042A22203A	PBBT50 EM7/8"-8.00"	7/8"	8.00"	7/8"	2.00"	8.00"	2.17"	5/8"-18	
T00BT50042A25102A	PBBT50 EM1"-4.00"	1"	4.00"	1"	2.36"	4.00"	2.52"	3/4"-16	
T00BT50042A25152A	PBBT50 EM1"-6.00"	1"	6.00"	1"	2.36"	6.00"	2.52"	3/4"-16	
T00BT50042A25203A	PBBT50 EM1"-8.00"	1"	8.00"	1"	2.36"	8.00"	2.52"	3/4"-16	
T00BT50042A32102A	PBBT50 EM1 1/4"-4.00"	1 1/4"	4.00"	1 1/4"	2.83"	4.00"	2.68"	3/4"-16	
T00BT50042A32152A	PBBT50 EM1 1/4"-6.00"	1 1/4"	6.00"	1 1/4"	2.83"	6.00"	2.68"	3/4"-16	
T00BT50042A32203A	PBBT50 EM1 1/4"-8.00"	1 1/4"	8.00"	1 1/4"	2.83"	8.00"	2.68"	3/4"-16	
T00BT50042A38102A	PBBT50 EM1 1/2"-4.00"	1 1/2"	4.00"	1 1/2"	2.75"	4.00"	2.38"	3/4"-16	
T00BT50042A38152A	PBBT50 EM1 1/2"-6.00"	1 1/2"	6.00"	1 1/2"	2.75"	6.00"	2.38"	3/4"-16	
T00BT50042A38203A	PBBT50 EM1 1/2"-8.00"	1 1/2"	8.00"	1 1/2"	2.75"	8.00"	2.38"	3/4"-16	
T00BT50042A50152A	PBBT50 EM2"-6.00"	2"	6.00"	2"	3.75"	6.00"	3.38"	1"-14	
T00BT50042A50203A	PBBT50 EM2"-8.00"	2"	8.00"	2"	3.75"	8.00"	3.38"	1"-14	

ACCESSORIES:

SET SCREWS INCH		
Order Number	Part Name	ER size
T06EM03-CA	EM1/8" Set Screw	1/8"
T06EM05-CA	EM3/16" Set Screw	3/16"
T06EM06-CA	EM1/4" Set Screw	1/4"
T06EM09-CA	EM3/8" Set Screw	3/8"
T06EM12-CA	EM1/2" Set Screw	1/2"
T06EM16-CA01	EM5/8" Set Screw01	5/8"
T06EM16-CA02	EM5/8" Set Screw02	5/8"
T06EM19-CA01	EM3/4" Set Screw01	3/4"
T06EM19-CA02	EM3/4" Set Screw02	3/4"
T06EM25-CA01	EM1" Set Screw01	1", 1 1/4"
T06EM25-CA02	EM1" Set Screw02	1", 1 1/4"
T06EM25-CA03	EM1"Set Screw03	1", 1 1/4"
T06EM38-CA	EM1 1/2" Set Screw	1 1/2"
T06EM50-CA	EM1 2" Set Screw	2"



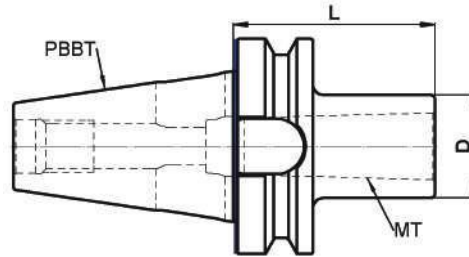
Order Number Instruction



MORSE TAPER HOLDER - 072 *DIN6383*

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**BT40 MORSE TAPER HOLDER METRIC**

Order Number	Part Name	Morse Taper	Length	TM	D	L
T00BT40072-01050A	PBBT40 MK1-050	MT1	50	MT1	25	50
T00BT40072-02050A	PBBT40 MK2-050	MT2	50	MT2	32	50
T00BT40072-03070A	PBBT40 MK3-070	MT3	70	MT3	40	70
T00BT40072-04095A	PBBT40 MK4-095	MT4	95	MT4	48	95

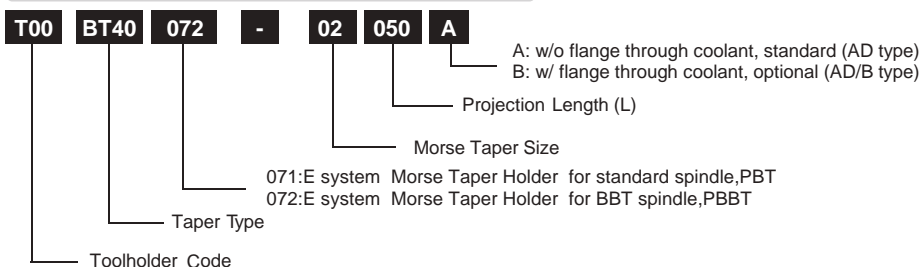
**BT50 MORSE TAPER HOLDER METRIC**

Order Number	Part Name	Morse Taper	Length	TM	D	L
T00BT50072-01045A	PBBT50 MK1-045	MT1	45	MT1	25	45
T00BT50072-02060A	PBBT50 MK2-060	MT2	60	MT2	32	60
T00BT50072-03065A	PBBT50 MK3-065	MT3	65	MT3	40	65
T00BT50072-04095A	PBBT50 MK4-095	MT4	95	MT4	48	95
T00BT50072-05105A	PBBT50 MK5-105	MT5	105	MT5	63	105



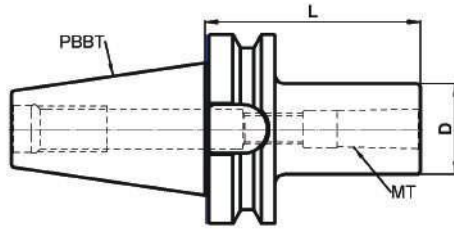
P198-P199

**Order Number Instruction**



MORSE TAPER HOLDER W/ THREAD - 082 *DIN6383*

- Quality**
- Taper Angle Tolerance: AT3+
  - Case Hardness: HRC 58 ± 2
  - Seat Runout: 0.005mm(0.0002")
  - Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**BT40 MORSE TAPER HOLDER W/THREAD METRIC**

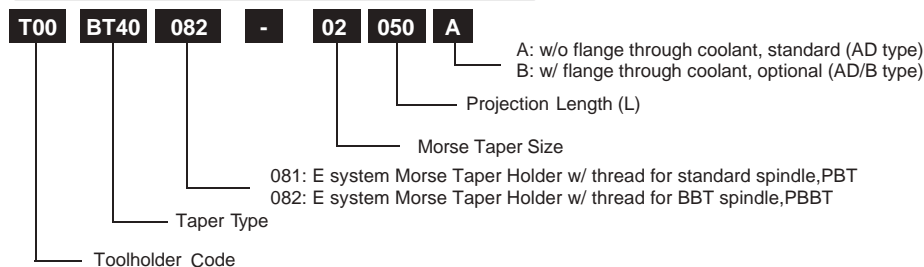
Order Number	Part Name	Morse Taper	Length	D	L
T00BT40082-01050A	PBBT40 MK1-050	MT1	50	25	50
T00BT40082-02050A	PBBT40 MK2-050	MT2	50	32	50
T00BT40082-03070A	PBBT40 MK3-070	MT3	70	40	70
T00BT40082-04095A	PBBT40 MK4-095	MT4	95	48	95

**BT50 MORSE TAPER HOLDER W/THREAD METRIC**

Order Number	Part Name	Morse Taper	Length	D	L
T00BT50082-01045A	PBBT50 MK1-045	MT1	45	25	45
T00BT50082-02060A	PBBT50 MK2-060	MT2	60	32	60
T00BT50082-03065A	PBBT50 MK3-065	MT3	65	40	65
T00BT50082-04070A	PBBT50 MK4-070	MT4	70	48	70
T00BT50082-05100A	PBBT50 MK5-100	MT5	100	63	100



**Order Number Instruction**

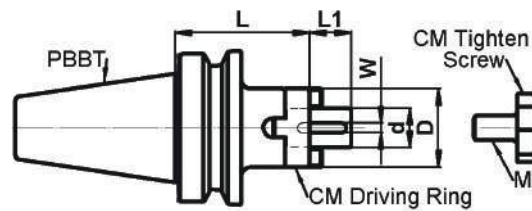


COMBI SHELL MILLING HOLDER - 102 *DIN6358*

COMBI

## Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm

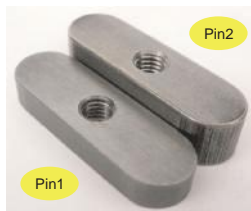
PBBT40 COMBI SHELL MILL HOLDER **METRIC**

Order Number	Part Name	d	L	D	L1	W	M
T00BT40102-16055A	PBBT40 CM16-055	16	55	32	27	4*20	M8
T00BT40102-16100A	PBBT40 CM16-100	16	100	32	27	4*20	M8
T00BT40102-16160A	PBBT40 CM16-160	16	160	32	27	4*20	M8
T00BT40102-16200A	PBBT40 CM16-200	16	200	32	27	4*20	M8
T00BT40102-22055A	PBBT40 CM22-055	22	55	40	31	6*25	M10
T00BT40102-22100A	PBBT40 CM22-100	22	100	40	31	6*25	M10
T00BT40102-22160A	PBBT40 CM22-160	22	160	40	31	6*25	M10
T00BT40102-22200A	PBBT40 CM22-200	22	200	40	31	6*25	M10
T00BT40102-27055A	PBBT40 CM27-055	27	55	48	33	7*25	M12
T00BT40102-27100A	PBBT40 CM27-100	27	100	48	33	7*25	M12
T00BT40102-27160A	PBBT40 CM27-160	27	160	48	33	7*25	M12
T00BT40102-27200A	PBBT40 CM27-200	27	200	48	33	7*25	M12
T00BT40102-32060A	PBBT40 CM32-060	32	60	58	38	8*28	M16
T00BT40102-32100A	PBBT40 CM32-100	32	100	58	38	8*28	M16
T00BT40102-32160A	PBBT40 CM32-160	32	160	58	38	8*28	M16
T00BT40102-32200A	PBBT40 CM32-200	32	200	58	38	8*28	M16
T00BT40102-40060A	PBBT40 CM40-060	40	60	70	41	10*32	M20
T00BT40102-40100A	PBBT40 CM40-100	40	100	70	41	10*32	M20
T00BT40102-40160A	PBBT40 CM40-160	40	160	70	41	10*32	M20
T00BT40102-40200A	PBBT40 CM40-200	40	200	70	41	10*32	M20

PBBT50 COMBI SHELL MILL HOLDER **METRIC**

Order Number	Part Name	d	L	D	L1	W	M
T00BT50102-16070A	PBBT50 CM16-070	16	70	32	27	4*20	M8
T00BT50102-16100A	PBBT50 CM16-100	16	100	32	27	4*20	M8
T00BT50102-16160A	PBBT50 CM16-160	16	160	32	27	4*20	M8
T00BT50102-16200A	PBBT50 CM16-200	16	200	32	27	4*20	M8
T00BT50102-22070A	PBBT50 CM22-070	22	70	40	31	6*25	M10
T00BT50102-22100A	PBBT50 CM22-100	22	100	40	31	6*25	M10
T00BT50102-22160A	PBBT50 CM22-160	22	160	40	31	6*25	M10
T00BT50102-22200A	PBBT50 CM22-200	22	200	40	31	6*25	M10
T00BT50102-27070A	PBBT50 CM27-070	27	70	48	33	7*25	M12
T00BT50102-27100A	PBBT50 CM27-100	27	100	48	33	7*25	M12
T00BT50102-27160A	PBBT50 CM27-160	27	160	48	33	7*25	M12
T00BT50102-27200A	PBBT50 CM27-200	27	200	48	33	7*25	M12
T00BT50102-32070A	PBBT50 CM32-070	32	70	58	38	8*28	M16
T00BT50102-32100A	PBBT50 CM32-100	32	100	58	38	8*28	M16
T00BT50102-32160A	PBBT50 CM32-160	32	160	58	38	8*28	M16
T00BT50102-32200A	PBBT50 CM32-200	32	200	58	38	8*28	M16
T00BT50102-40070A	PBBT50 CM40-070	40	70	70	41	10*32	M20
T00BT50102-40100A	PBBT50 CM40-100	40	100	70	41	10*32	M20
T00BT50102-40160A	PBBT50 CM40-160	40	160	70	41	10*32	M20
T00BT50102-40200A	PBBT50 CM40-200	40	200	70	41	10*32	M20

Note: Combi shell mill holder includes two pins.



Apply For	Pin 1	Pin 2
	for improving unbalanceable effect	for slot key
	Order No	Order No
CM16	T090403-200CC	T090404-198CC
CM22	T090604-250CC	T090606-248CC
CM27	T090705-250CC	T090707-249CC
CM32	T090805-280CC	T090807-279CC
CM40	T091005-320CC	T091008-319CC

**ACCESSORIES:**

DRIVING RING METRIC		
Order Number	Part Name	Pilot Size
T15CM16	CM16 Driving Ring	CM16
T15CM22	CM22 Driving Ring	CM22
T15CM27	CM27 Driving Ring	CM27
T15CM32	CM32 Driving Ring	CM32
T15CM40	CM40 Driving Ring	CM40

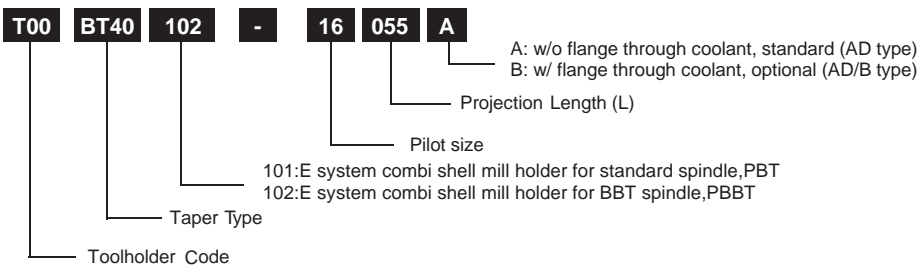


LOCKING SCREW METRIC		
Order Number	Part Name	Pilot Size
T06SM16-DIN	CM16 Lock Screw	CM16
T06SM22-DIN	CM22 Lock Screw	CM22
T06SM27-DIN	CM27 Lock Screw	CM27
T06SM32-DIN	CM32 Lock Screw	CM32
T06SM40-DIN	CM40 Lock Screw	CM40



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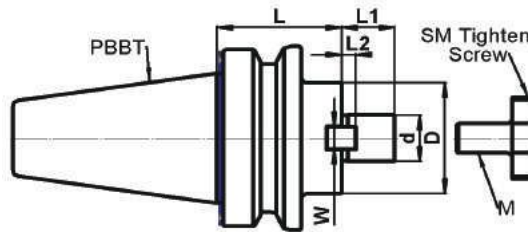
**Order Number Instruction**



## SHELL MILLING HOLDER - 122

### Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



### PBBT30 SHELL MILLING HOLDER METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT30122-16040A	PBBT30 SM16-040	16	40	38	17	5	8	M8
T00BT30122-22040A	PBBT30 SM22-040	22	40	48	19	5	10	M10
T00BT30122-27040A	PBBT30 SM27-040	27	40	60	21	6	12	M12

### PBBT40 SHELL MILLING HOLDER METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT40122-16040A	PBBT40 SM16-040	16	40	38	17	5	8	M8
T00BT40122-16100A	PBBT40-SM16-100	16	100	38	17	5	8	M8
T00BT40122-16160A	PBBT40-SM16-160	16	160	38	17	5	8	M8
T00BT40122-16200A	PBBT40-SM16-200	16	200	38	17	5	8	M8
T00BT40122-22040A	PBBT40 SM22-040	22	40	48	19	5	10	M10
T00BT40122-22100A	PBBT40 SM22-100	22	100	48	19	5	10	M10
T00BT40122-22160A	PBBT40 SM22-160	22	160	48	19	5	10	M10
T00BT40122-22200A	PBBT40 SM22-200	22	200	48	19	5	10	M10
T00BT40122-22040A1	PBBT40 SMB22-040	22	40	60	19	5	10	M10
T00BT40122-22100A1	PBBT40 SMB22-100	22	100	60	19	5	10	M10
T00BT40122-22160A1	PBBT40 SMB22-160	22	160	60	19	5	10	M10
T00BT40122-22200A1	PBBT40 SMB22-200	22	200	60	19	5	10	M10
T00BT40122-27040A	PBBT40 SM27-040	27	40	60	21	6	12	M12
T00BT40122-27100A	PBBT40 SM27-100	27	100	60	21	6	12	M12
T00BT40122-27160A	PBBT40 SM27-160	27	160	60	21	6	12	M12
T00BT40122-27200A	PBBT40 SM27-200	27	200	60	21	6	12	M12
T00BT40122-27060A1	PBBT40 SMB27-060	27	60	75	21	6	12	M12
T00BT40122-27100A1	PBBT40 SMB27-100	27	100	75	21	6	12	M12
T00BT40122-27160A1	PBBT40 SMB27-160	27	160	75	21	6	12	M12
T00BT40122-27200A1	PBBT40 SMB27-200	27	200	75	21	6	12	M12
T00BT40122-32050A	PBBT40 SM32-050	32	50	78	24	7	14	M16
T00BT40122-32100A	PBBT40 SM32-100	32	100	78	24	7	14	M16
T00BT40122-32160A	PBBT40 SM32-160	32	160	78	24	7	14	M16
T00BT40122-32200A	PBBT40 SM32-200	32	200	78	24	7	14	M16
T00BT40122-40050A	PBBT40 SM40-050	40	50	89	27	8.5	16	M20
T00BT40122-40100A	PBBT40 SM40-100	40	100	89	27	8.5	16	M20
T00BT40122-40160A	PBBT40 SM40-160	40	160	89	27	8.5	16	M20
T00BT40122-40200A	PBBT40 SM40-200	40	200	89	27	8.5	16	M20

### PBBT50 SHELL MILLING HOLDER METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT50122-16050A	PBBT50 SM16-050	16	50	38	17	5	8	M8
T00BT50122-16100A	PBBT50 SM16-100	16	100	38	17	5	8	M8
T00BT50122-16160A	PBBT50 SM16-160	16	160	38	17	5	8	M8
T00BT50122-16200A	PBBT50 SM16-200	16	200	38	17	5	8	M8
T00BT50122-22050A	PBBT50 SM22-050	22	50	48	19	5	10	M10
T00BT50122-22100A	PBBT50 SM22-100	22	100	48	19	5	10	M10
T00BT50122-22120A	PBBT50 SM22-120	22	120	48	19	5	10	M10
T00BT50122-22160A	PBBT50 SM22-160	22	160	48	19	5	10	M10
T00BT50122-22200A	PBBT50 SM22-200	22	200	48	19	5	10	M10
T00BT50122-22050A1	PBBT50 SMB22-050	22	100	60	19	5	10	M10
T00BT50122-22100A1	PBBT50 SMB22-100	22	120	60	19	5	10	M10
T00BT50122-22160A1	PBBT50 SMB22-160	22	160	60	19	5	10	M10
T00BT50122-22200A1	PBBT50 SMB22-200	22	200	60	19	5	10	M10
T00BT50122-27050A	PBBT50 SM27-050	27	50	60	21	6	12	M12
T00BT50122-27100A	PBBT50 SM27-100	27	100	60	21	6	12	M12
T00BT50122-27160A	PBBT50 SM27-160	27	160	60	21	6	12	M12
T00BT50122-27200A	PBBT50 SM27-200	27	200	60	21	6	12	M12
T00BT50122-27050A1	PBBT50 SMB27-050	27	50	75	21	6	12	M12
T00BT50122-27100A1	PBBT50 SMB27-100	27	100	75	21	6	12	M12
T00BT50122-27160A1	PBBT50 SMB27-160	27	160	75	21	6	12	M12
T00BT50122-27200A1	PBBT50 SMB27-200	27	200	75	21	6	12	M12
T00BT50122-32050A	PBBT50 SM32-050	32	50	78	24	7	14	M16
T00BT50122-32100A	PBBT50 SM32-100	32	100	78	24	7	14	M16
T00BT50122-32160A	PBBT50 SM32-160	32	160	78	24	7	14	M16
T00BT50122-32200A	PBBT50 SM32-200	32	200	78	24	7	14	M16
T00BT50122-40050A	PBBT50 SM40-050	40	50	89	27	8.5	16	M20

## SHELL MILLING HOLDER - 122

Order Number	Part Name	d	L	D	L1	L2	W	
T00BT50122-40100A	PBBT50 SM40-100	40	100	89	27	8.5	16	M20
T00BT50122-40160A	PBBT50 SM40-160	40	160	89	27	8.5	16	M20
T00BT50122-40200A	PBBT50 SM40-200	40	200	89	27	8.5	16	M20
T00BT50122-60075A	PBBT50 SM60-075	60	75	129	40	12.5	25.4	M16*4

### ACCESSORIES:

#### DRIVING KEY METRIC

Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40



#### LOCK SCREW METRIC

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40



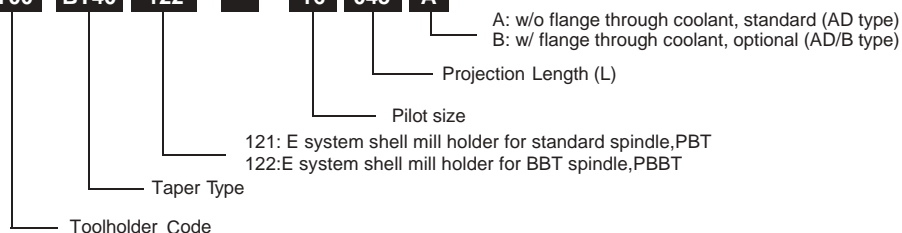
#### LOCK BOLT METRIC

Order Number	Part Name	Pilot Size
T06SM16-BT01	SM16 Lock bolt	SM16
T06SM22-BT01	SM22 Lock bolt	SM22
T06SM27-BT01	SM27 Lock bolt	SM27
T06SM32-BT01	SM32 Lock bolt	SM32
T06SM40-BT01	SM40 Lock bolt	SM40



### Order Number Instruction

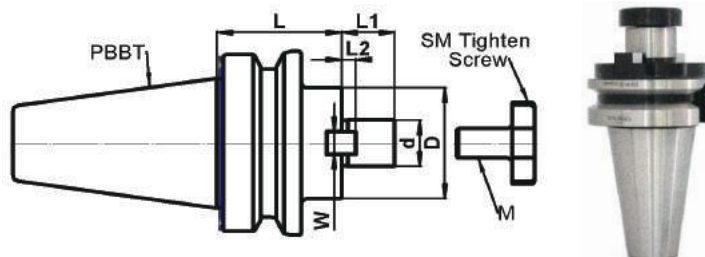
**T00 BT40 122 - 16 045 A**



## SHELL MILLING HOLDER - 122

### Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



### PBBT30 SHELL MILLING HOLDER INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00BT30122A19030A	PBBT30 SM 3/4"-1.18"	3/4"	1.18"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT30122A25045A	PBBT30 SM 1"-1.77"	1"	1.77"	2.25"	0.68"	0.22"	3/8"	1/2"-20

### PBBT40 SHELL MILLING HOLDER INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00BT40122A19051A	PBBT40 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT40122A19102A	PBBT40 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT40122A25051A	PBBT40 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT40122A25102A	PBBT40 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT40122A32051A	PBBT40 SM 1 1/4"-2.00"	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT40122A32102A	PBBT40 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT40122A38051A	PBBT40 SM 1 1/2"-2.00"	1 1/2"	2.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16

### PBBT50 SHELL MILLING HOLDER INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00BT50122A19102A	PBBT50 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50122A19152A	PBBT50 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50122A19203A	PBBT50 SM 3/4"-8.00"	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50122A25051A	PBBT50 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50122A25102A	PBBT50 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50122A25150A	PBBT50 SM 1"-5.90"	1"	5.90"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50122A25152A	PBBT50 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50122A25200A	PBBT50 SM 1"-7.87"	1"	7.87"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50122A25203A	PBBT50 SM 1"-8.00"	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50122A32051A	PBBT50 SM 1 1/4"-2.00"	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50122A32102A	PBBT50 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50122A32152A	PBBT50 SM 1 1/4"-6.00"	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50122A32203A	PBBT50 SM 1 1/4"-8.00"	1 1/4"	8.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50122A38051A	PBBT50 SM 1 1/2"-2.00"	1 1/2"	2.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00BT50122A38102A	PBBT50 SM 1 1/2"-4.00"	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00BT50122A50051A	PBBT50 SM 2"-2.00"	2"	2.00"	4.88"	0.94"	0.39"	3/4"	1"-14
T00BT50122A50102A	PBBT50 SM 2"-4.00"	2"	4.00"	4.88"	0.94"	0.39"	3/4"	1"-14



## SHELL MILLING HOLDER - 122

### ACCESSORIES:

DRIVING KEY INCH		
Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"

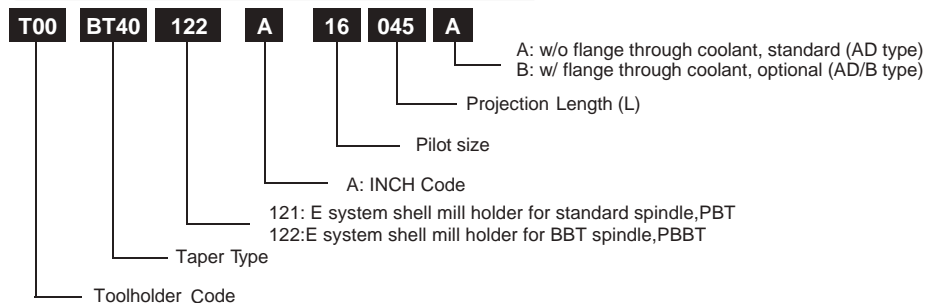


LOCK SCREW INCH		
Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"



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### Order Number Instruction

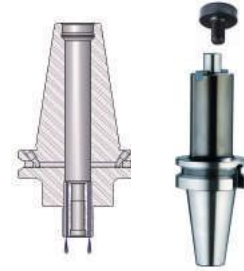
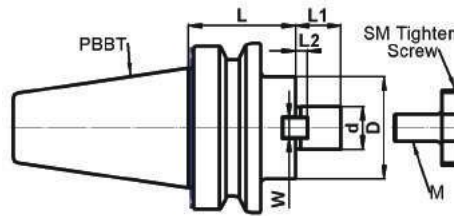


## SHELL MILLING HOLDER COOLANT SLOT - 132

COOLANT SLOT

## Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



## PBBT40 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT40132-16040B	PBBT40 SM16-040J	16	40	38	17	5	8	M8
T00BT40132-16100B	PBBT40 SM16-100J	16	100	38	17	5	8	M8
T00BT40132-16160B	PBBT40 SM16-160J	16	160	38	17	5	8	M8
T00BT40132-16200B	PBBT40 SM16-200J	16	200	38	17	5	8	M8
T00BT40132-22040B	PBBT40 SM22-040J	22	40	48	19	5	10	M10
T00BT40132-22100B	PBBT40 SM22-100J	22	100	48	19	5	10	M10
T00BT40132-22160B	PBBT40 SM22-160J	22	160	48	19	5	10	M10
T00BT40132-22200B	PBBT40 SM22-200J	22	200	48	19	5	10	M10
T00BT40132-22040B01	PBBT40 SMB22-040J	22	40	60	19	5	10	M10
T00BT40132-22100B01	PBBT40 SMB22-100J	22	100	60	19	5	10	M10
T00BT40132-22160B01	PBBT40 SMB22-160J	22	160	60	19	5	10	M10
T00BT40132-22200B01	PBBT40 SMB22-200J	22	200	60	19	5	10	M10
T00BT40132-27040B	PBBT40 SM27-040J	27	40	60	21	6	12	M12
T00BT40132-27100B	PBBT40 SM27-100J	27	100	60	21	6	12	M12
T00BT40132-27160B	PBBT40 SM27-160J	27	160	60	21	6	12	M12
T00BT40132-27200B	PBBT40 SM27-200J	27	200	60	21	6	12	M12
T00BT40132-27060B01	PBBT40 SMB27-060J	27	60	75	21	6	12	M12
T00BT40132-27100B01	PBBT40 SMB27-100J	27	100	75	21	6	12	M12
T00BT40132-27160B01	PBBT40 SMB27-160J	27	160	75	21	6	12	M12
T00BT40132-27200B01	PBBT40 SMB27-200J	27	200	75	21	6	12	M12
T00BT40132-32050B	PBBT40 SM32-050J	32	50	78	24	7	14	M16
T00BT40132-32100B	PBBT40 SM32-100J	32	100	78	24	7	14	M16
T00BT40132-32160B	PBBT40 SM32-160J	32	160	78	24	7	14	M16
T00BT40132-32200B	PBBT40 SM32-200J	32	200	78	24	7	14	M16
T00BT40132-40050B	PBBT40 SM40-050J	40	50	89	27	8.5	16	M20
T00BT40132-40100B	PBBT40 SM40-100J	40	100	89	27	8.5	16	M20
T00BT40132-40160B	PBBT40 SM40-160J	40	160	89	27	8.5	16	M20

## PBBT50 SHELL MILLING HOLDER COOLANT SLOT METRIC

Order Number	Part Name	d	L	D	L1	L2	W	M
T00BT50132-16050B	PBBT50 SM16-050J	16	50	38	17	5	8	M8
T00BT50132-16100B	PBBT50 SM16-100J	16	100	38	17	5	8	M8
T00BT50132-16160B	PBBT50 SM16-160J	16	160	38	17	5	8	M8
T00BT50132-16200B	PBBT50 SM16-200J	16	200	38	17	5	8	M8
T00BT50132-22050B	PBBT50 SM22-050J	22	50	48	19	5	10	M10
T00BT50132-22100B	PBBT50 SM22-100J	22	100	48	19	5	10	M10
T00BT50132-22120B	PBBT50 SM22-120J	22	120	48	19	5	10	M10
T00BT50132-22160B	PBBT50 SM22-160J	22	160	48	19	5	10	M10
T00BT50132-22200B	PBBT50 SM22-200J	22	200	48	19	5	10	M10
T00BT50132-22050B01	PBBT50 SMB22-050J	22	50	60	19	5	10	M10
T00BT50132-22100B01	PBBT50 SMB22-100J	22	100	60	19	5	10	M10
T00BT50132-22160B01	PBBT50 SMB22-160J	22	160	60	19	5	10	M10
T00BT50132-22200B01	PBBT50 SMB22-200J	22	200	60	19	5	10	M10
T00BT50132-27050B	PBBT50 SM27-050J	27	50	60	21	6	12	M12
T00BT50132-27100B	PBBT50 SM27-100J	27	100	60	21	6	12	M12
T00BT50132-27160B	PBBT50 SM27-160J	27	160	60	21	6	12	M12
T00BT50132-27200B	PBBT50 SM27-200J	27	200	60	21	6	12	M12
T00BT50132-27050B01	PBBT50 SMB27-050J	27	50	75	21	6	12	M12
T00BT50132-27100B01	PBBT50 SMB27-100J	27	100	75	21	6	12	M12
T00BT50132-27160B01	PBBT50 SMB27-160J	27	160	75	21	6	12	M12
T00BT50132-27200B01	PBBT50 SMB27-200J	27	200	75	21	6	12	M12
T00BT50132-32050B	PBBT50 SM32-050J	32	50	78	24	7	14	M16
T00BT50132-32100B	PBBT50 SM32-100J	32	100	78	24	7	14	M16
T00BT50132-32160B	PBBT50 SM32-160J	32	160	78	24	7	14	M16
T00BT50132-32200B	PBBT50 SM32-200J	32	200	78	24	7	14	M16
T00BT50132-40050B	PBBT50 SM40-050J	40	50	89	27	8.5	16	M20
T00BT50132-40100B	PBBT50 SM40-100J	40	100	89	27	8.5	16	M20
T00BT50132-40160B	PBBT50 SM40-160J	40	160	89	27	8.5	16	M20
T00BT50132-40200B	PBBT50 SM40-200J	40	200	89	27	8.5	16	M20
T00BT50132-60075B	PBBT50 SM60-075J	60	75	129	40	12.5	25.4	M16*4

**SHELL MILLING HOLDER COOLANT SLOT - 132**

**ACCESSORIES:**

DRIVING KEY METRIC		
Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40
T10SM60	SM60 Driving Key	SM60

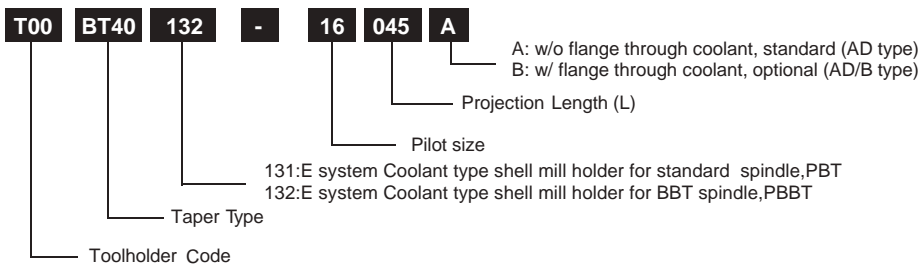


LOCK SCREW METRIC		
Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40



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**Order Number Instruction**

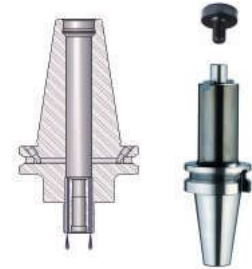
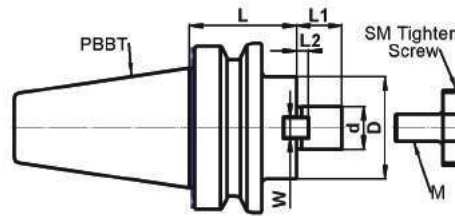


## SHELL MILLING HOLDER COOLANT SLOT - 132

COOLANT SLOT

## Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



## PBBT40 SHELL MILLING ADAPTER COOLANT SLOT INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00BT40132A19051B	PBBT40 SM 3/4"-2.00"	3/4"	2.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT40132A19102B	PBBT40 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT40132A25051B	PBBT40 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT40132A25102B	PBBT40 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT40132A32051B	PBBT40 SM 1 1/4"-2.00"	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT40132A32102B	PBBT40 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT40132A38051B	PBBT40 SM 1 1/2"-2.00"	1 1/2"	2.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16

## PBBT50 SHELL MILLING ADAPTER COOLANT SLOT INCH

Order Number	Part Name	d inch	L	D	L1	L2	W	M
T00BT50132A19102B	PBBT50 SM 3/4"-4.00"	3/4"	4.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50132A19152B	PBBT50 SM 3/4"-6.00"	3/4"	6.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50132A19203B	PBBT50 SM 3/4"-8.00"	3/4"	8.00"	1.75"	0.68"	0.18"	5/16"	3/8"-24
T00BT50132A19102B01	PBBT50 SMB 3/4"-4.00"J	3/4"	4.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT50132A19152B01	PBBT50 SMB 3/4"-6.00"J	3/4"	6.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT50132A19203B01	PBBT50 SMB 3/4"-8.00"J	3/4"	8.00"	1.97"	0.68"	0.18"	5/16"	3/8"-24
T00BT50132A25051B	PBBT50 SM 1"-2.00"	1"	2.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50132A25102B	PBBT50 SM 1"-4.00"	1"	4.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50132A25152B	PBBT50 SM 1"-6.00"	1"	6.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50132A25203B	PBBT50 SM 1"-8.00"	1"	8.00"	2.25"	0.68"	0.22"	3/8"	1/2"-20
T00BT50132A25051B01	PBBT50 SMB 1"-2.00"J	1"	2.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50132A25102B01	PBBT50 SMB 1"-4.00"J	1"	4.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50132A25152B01	PBBT50 SMB 1"-6.00"J	1"	6.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50132A25203B01	PBBT50 SMB 1"-8.00"J	1"	8.00"	2.48"	0.68"	0.22"	3/8"	1/2"-20
T00BT50132A32051B	PBBT50 SM 1 1/4"-2.00"	1 1/4"	2.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50132A32102B	PBBT50 SM 1 1/4"-4.00"	1 1/4"	4.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50132A32152B	PBBT50 SM 1 1/4"-6.00"	1 1/4"	6.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50132A32203B	PBBT50 SM 1 1/4"-8.00"	1 1/4"	8.00"	2.75"	0.68"	0.28"	1/2"	5/8"-18
T00BT50132A32051B01	PBBT50 SMB 1 1/4"-2.00"J	1 1/4"	2.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50132A32102B01	PBBT50 SMB 1 1/4"-4.00"J	1 1/4"	4.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50132A32152B01	PBBT50 SMB 1 1/4"-6.00"J	1 1/4"	6.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50132A32203B01	PBBT50 SMB 1 1/4"-8.00"J	1 1/4"	8.00"	2.90"	0.68"	0.28"	1/2"	5/8"-18
T00BT50132A38051B	PBBT50 SM 1 1/2"-2.00"	1 1/2"	2.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00BT50132A38102B	PBBT50 SM 1 1/2"-4.00"	1 1/2"	4.00"	3.38"	0.94"	0.35"	5/8"	3/4"-16
T00BT50132A38051B01	PBBT50 SMB 1 1/2"-2.00"J	1 1/2"	2.00"	3.90"	0.94"	0.35"	5/8"	3/4"-16
T00BT50132A38102B01	PBBT50 SMB 1 1/2"-4.00"J	1 1/2"	4.00"	3.90"	0.94"	0.35"	5/8"	3/4"-16
T00BT50132A50051B	PBBT50 SM 2"-2.00"	2"	2.00"	4.88"	0.94"	0.39"	3/4"	1"-14
T00BT50132A50102B	PBBT50 SM 2"-4.00"	2"	4.00"	4.88"	0.94"	0.39"	3/4"	1"-14

SHELL MILLING HOLDER COOLANT SLOT - 132

ACCESSORIES:

DRIVING KEY INCH		
Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"

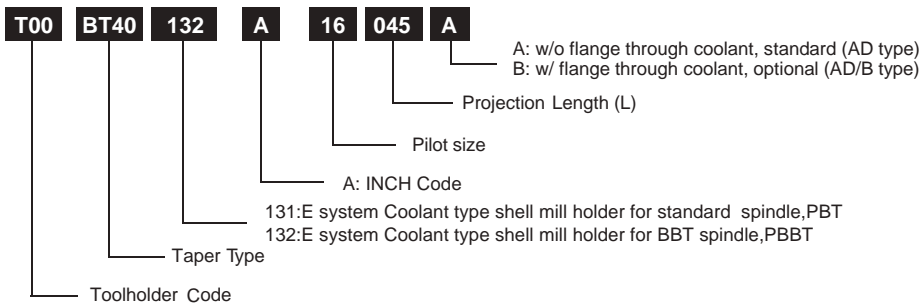


LOCK SCREW INCH		
Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"



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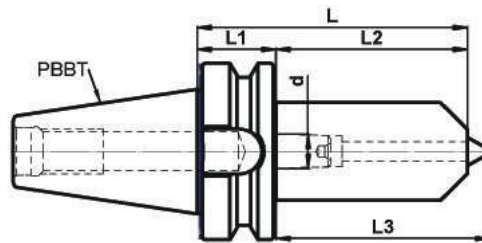
Order Number Instruction



**DRILL CHUCK HOLDER - 142**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBBT30 DRILL CHUCK HOLDER**

Order Number	Part Name	Mount	Length	Capabilities		L1	L2	L3
T00BT30142-08098C-B12	PBBT30 DC08-098-B12	B12	98	0.3-8	1/64-5/16"	30	68	76
T00BT30142-10110C-B12	PBBT30 DC10-110-B12	B12	110	0.3-10	1/64-3/8"	30	80	92
T00BT30142-13120C-B12	PBBT30 DC13-120-B12	B12	120	0.3-13	1/64-1/2"	30	90	102
T00BT30142A08098C-JT2	PBBT30 DC5/16"-3.86"-JT1	JT1	3.86"	0.3-8	1/64-5/16"	1.18"	2.44"	2.68"
T00BT30142A09110C-JT2	PBBT30 DC3/8"-4.33"-JT2	JT2	4.33"	0.3-10	1/64-3/8"	1.18"	3.15"	3.62"
T00BT30142A12120C-JT2	PBBT30 DC1/2"-4.72"-JT2	JT2	4.72"	0.3-13	1/64-1/2"	1.18"	3.54"	4.01"

**PBBT40 DRILL CHUCK HOLDER**

Order Number	Part Name	Mount	Length	Capabilities		L1	L2	L3
T00BT40142-08098C-B12	PBBT40 DC08-098-B12	B12	98	0.3-8	1/64-5/16"	30	68	76
T00BT40142-10110C-B12	PBBT40 DC10-110-B12	B12	110	0.3-10	1/64-3/8"	30	80	92
T00BT40142-13120C-B12	PBBT40 DC13-120-B12	B12	120	0.3-13	1/64-1/2"	30	90	102
T01BT40142-16127C-B16	PBBT40 DC16-127-B16	B16	127	3-16	1/8-5/8"	30	97	110
T00BT40142A09110C-JT2	PBBT40 DC3/8"-4.33"-JT2	JT2	4.33"	0.3-10	1/64-3/8"	1.18"	3.15"	3.62"
T00BT40142A12120C-JT2	PBBT40 DC1/2"-4.72"-JT2	JT2	4.72"	0.3-13	1/64-1/2"	1.18"	3.54"	4.01"
T01BT40142A16127C-JT6	PBBT40 DC16-5.00"-JT6	JT6	5.00"	3-16	1/8-5/8"	1.18"	3.82"	4.33"

**PBBT50 DRILL CHUCK HOLDER**

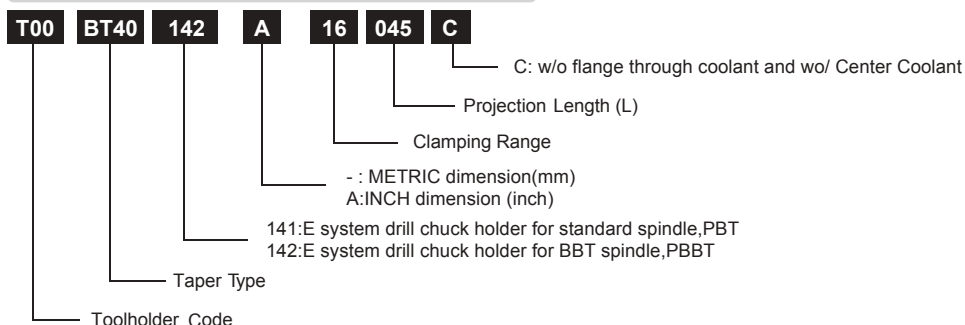
Order Number	Part Name	Mount	Length	Capabilities		L1	L2	L3
T00BT50142-13132C-B12	PBBT50 DC13-132-B12	B12	132	0.3-13	1/64-1/2"	42	90	102
T00BT50142-16139C-B16	PBBT50 DC1/2"-5.19"-JT2	B16	139	3-16	1/8-5/8"	42	97	110
T00BT50142A12132C-JT2	PBBT50 DC16-139-B16	JT2	5.19"	0.3-13	1/64-1/2"	1.65"	3.54"	4.01"
T00BT50142A16139C-JT6	PBBT50 DC5/8"-5.47"-JT6	JT6	5.47"	3-16	1/8-5/8"	1.65"	3.82"	4.33"

**ACCESSORIES:**

Order Number	Part Name	Type	DC size
T07DC08-C	DC08 Wrench	C Type	8, 5/16"
T07DC10-C	DC10 Wrench	C Type	10, 3/8"
T07DC13-C	DC13 Wrench	C Type	13, 1/2"
T07DC16-C	DC16 Wrench	C Type	16, 5/8"



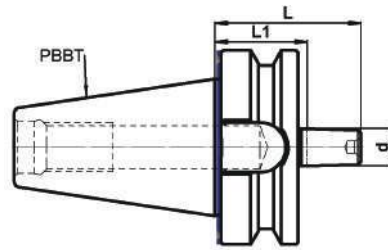
**Order Number Instruction**



## DRILL CHUCK ARBOR - 142

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBBT30 DRILL CHUCK ARBOR**

Order Number	Part Name	Mount	Length	L	Taper
T01BT30142B12030C	PBBT30 B12-030	B12	30	48	B12
T01BT30142-J1030C	PBBT30 JT1-030	JT1	1.18"	2.05"	JT1
T01BT30142-JT2030C	PBBT30 JT2-030	JT2	1.18"	2.09"	JT2
T01BT30142-J6030C	PBBT30 JT6-030	JT6	1.18"	2.13"	JT6

**PBBT40 DRILL CHUCK ARBOR**

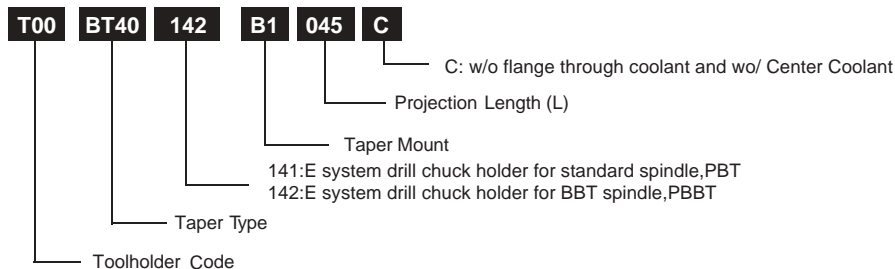
Order Number	Part Name	Mount	Length	L	Taper
T01BT40142B12030C	PBBT40 B12-030	B12	30	48	B12
T01BT40142B16030C	PBBT40 B16-030	B16	30	53	B16
T01BT40142-J2030C	PBBT40 JT2-030	JT2	1.18"	2.09"	JT2
T01BT40142-J6030C	PBBT40 JT6-030	JT6	1.18"	2.13"	JT6

**PBBT50 DRILL CHUCK ARBOR**

Order Number	Part Name	Mount	Length	L	Taper
T01BT50142B12042C	PBBT50 B12-042	B12	42	60	B12
T01BT50142B16042C	PBBT50 B16-042	B16	42	65	B16
T01BT50142-J2042C	PBBT50 JT2-042	JT2	1.65"	2.48"	JT2
T01BT50142-J6042C	PBBT50 JT6-042	JT6	1.65"	2.6"	JT6



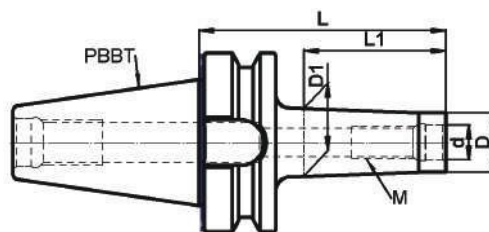
**Order Number Instruction**



## SCREW-IN HOLDER - 202

### Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.005mm(0.0002")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



### PBBT30 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1
T00BT30202-08035A	PBBT30 M08-035	M8	35	15	15	8.5	10
T00BT30202-08065A	PBBT30 M08-065	M8	65	15	16	8.5	40
T00BT30202-08087A	PBBT30 M08-087	M8	87	13	23	8.5	50
T00BT30202-08100A	PBBT30 M08-100	M8	100	13	23	8.5	50
T00BT30202-10035A	PBBT30 M10-035	M10	35	18	18	10.5	10
T00BT30202-10065A	PBBT30 M10-065	M10	65	18	20	10.5	40
T00BT30202-10087A	PBBT30 M10-087	M10	87	18	25	10.5	50
T00BT30202-10100A	PBBT30 M10-100	M10	100	18	25	10.5	50
T00BT30202-12035A	PBBT30 M12-035	M12	35	21	21	12.5	10
T00BT30202-12065A	PBBT30 M12-065	M12	65	21	23	12.5	40
T00BT30202-12087A	PBBT30 M12-087	M12	87	21	24	12.5	50
T00BT30202-12100A	PBBT30 M12-100	M12	100	21	24	12.5	50
T00BT30202-16035A	PBBT30 M16-035	M16	35	29	29	17	10
T00BT30202-16065A	PBBT30 M16-065	M16	65	29	33	17	40
T00BT30202-16087A	PBBT30 M16-087	M16	87	29	34	17	50
T00BT30202-16100A	PBBT30 M16-100	M16	100	29	34	17	50

### PBBT40 SCREW-IN HOLDER METRIC

Order Number	Part Name	M	L	D	D1	d	L1
T00BT40202-08040A	PBBT40 M08-040	M8	40	13	15	8.5	10
T00BT40202-08065A	PBBT40 M08-065	M8	65	13	16	8.5	35
T00BT40202-08087A	PBBT40 M08-087	M8	87	13	23	8.5	50
T00BT40202-08100A	PBBT40 M08-100	M8	100	13	23	8.5	50
T00BT40202-08127A	PBBT40 M08-127	M8	127	13	23	8.5	50
T00BT40202-08160A	PBBT40 M08-160	M8	160	13	23	8.5	50
T00BT40202-08200A	PBBT40 M08-200	M8	200	13	23	8.5	50
T00BT40202-10040A	PBBT40 M10-040	M10	40	18	18	10.5	10
T00BT40202-10065A	PBBT40 M10-065	M10	65	18	20	10.5	30
T00BT40202-10087A	PBBT40 M10-087	M10	87	18	25	10.5	50
T00BT40202-10100A	PBBT40 M10-100	M10	100	18	25	10.5	50
T00BT40202-10127A	PBBT40 M10-127	M10	127	18	25	10.5	50
T00BT40202-10160A	PBBT40 M10-160	M10	160	18	25	10.5	50
T00BT40202-10200A	PBBT40 M10-200	M10	200	18	25	10.5	50
T00BT40202-12040A	PBBT40 M12-040	M12	40	21	21	12.5	10
T00BT40202-12065A	PBBT40 M12-065	M12	65	21	23	12.5	40
T00BT40202-12087A	PBBT40 M12-087	M12	87	21	24	12.5	50
T00BT40202-12100A	PBBT40 M12-100	M12	100	21	24	12.5	50
T00BT40202-12127A	PBBT40 M12-127	M12	127	21	35	12.5	90
T00BT40202-12160A	PBBT40 M12-160	M12	160	21	35	12.5	90
T00BT40202-12200A	PBBT40 M12-200	M12	200	21	35	12.5	90
T00BT40202-16040A	PBBT40 M16-040	M16	40	29	29	17	10
T00BT40202-16065A	PBBT40 M16-065	M16	65	29	33	17	40
T00BT40202-16087A	PBBT40 M16-087	M16	87	29	34	17	50
T00BT40202-16100A	PBBT40 M16-100	M16	100	29	34	17	65
T00BT40202-16127A	PBBT40 M16-127	M16	127	29	39	17	90
T00BT40202-16160A	PBBT40 M16-160	M16	160	29	39	17	90



**SCREW-IN HOLDER - 202**

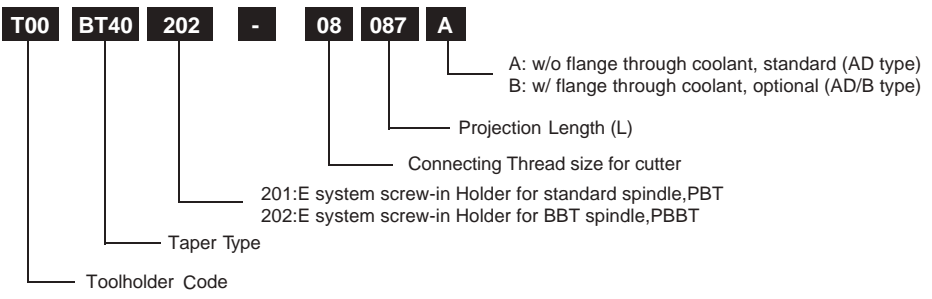
**PBBT50 SCREW-IN HOLDER METRIC**

Order Number	Part Name	M	L	D	D1	d	L1
T00BT50202-08087A	PBBT50 M08-087	M8	87	13	23	12.5	40
T00BT50202-08100A	PBBT50 M08-100	M8	100	13	23	12.5	50
T00BT50202-08127A	PBBT50 M08-127	M8	127	13	23	12.5	50
T00BT50202-10087A	PBBT50 M10-087	M10	87	18	25	12.5	40
T00BT50202-10100A	PBBT50 M10-100	M10	100	18	25	12.5	50
T00BT50202-10127A	PBBT50 M10-127	M10	127	18	25	12.5	50
T00BT50202-12100A	PBBT50 M12-100	M12	100	21	24	12.5	50
T00BT50202-12127A	PBBT50 M12-127	M12	127	21	35	12.5	75
T00BT50202-12160A	PBBT50 M12-160	M12	160	21	35	12.5	75
T00BT50202-12200A	PBBT50 M12-200	M12	200	21	35	12.5	75
T00BT50202-16100A	PBBT50 M16-100	M16	100	29	34	17	50
T00BT50202-16127A	PBBT50 M16-127	M16	127	29	39	17	75
T00BT50202-16160A	PBBT50 M16-160	M16	160	29	39	17	75
T00BT50202-16200A	PBBT50 M16-200	M16	200	29	39	17	75

Note: Order excludes Screw-in cutter.



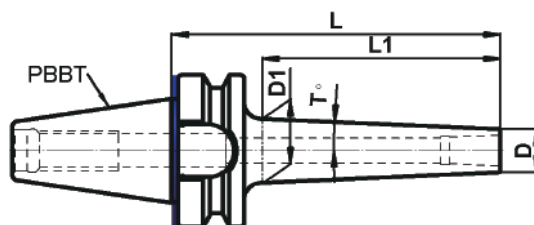
**Order Number Instruction**



## SLIM COLLET CHUCK - 212

### Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



### PBBT30 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1
T00BT30212-06100A	PBBT30 HC06-100	HC06	100	100	13	20	2.5	75
T00BT30212-06160A	PBBT30 HC06-160	HC06	160	160	13	25	2.5	135
T00BT30212-06200A	PBBT30 HC06-200	HC06	200	200	13	29	2.5	175
T00BT30212-10100A	PBBT30 HC10-100	HC10	100	100	20	28	3.0	75
T00BT30212-10160A	PBBT30 HC10-160	HC10	160	160	20	34	3.0	135
T00BT30212-10200A	PBBT30 HC10-200	HC10	200	200	20	39	3.0	175

### PBBT40 SLIM COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	L	D	D1	T°	L1
T00BT40212-06100A	PBBT40 HC06-100	HC06	100	100	13	19	2.5	70
T00BT40212-06160A	PBBT40 HC06-160	HC06	160	160	13	24	2.5	130
T00BT40212-06200A	PBBT40 HC06-200	HC06	200	200	13	28	2.5	170
T00BT40212-10100A	PBBT40 HC10-100	HC10	100	100	20	28	3.0	70
T00BT40212-10160A	PBBT40 HC10-160	HC10	160	160	20	34	3.0	130
T00BT40212-10200A	PBBT40 HC10-200	HC10	200	200	20	38	3.0	170
T00BT40212-16100A	PBBT40 HC16-100	HC16	100	100	32	39	3.0	70
T00BT40212-16160A	PBBT40 HC16-160	HC16	160	160	32	45	3.0	130
T00BT40212-16200A	PBBT40 HC16-200	HC16	200	200	32	50	3.0	170

### PBBT50 SLIM COLLET CHUCK METRIC

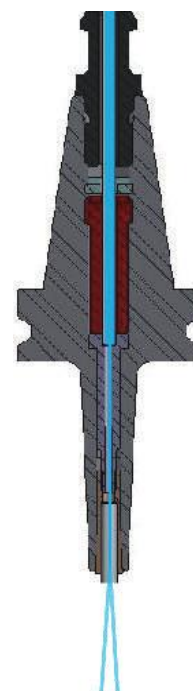
Order Number	Part Name	Collet	Length	L	D	D1	T°	L1
T00BT50212-06100A	PBBT50 HC06-100	HC06	100	100	13	19	2.5	60
T00BT50212-06160A	PBBT50 HC06-160	HC06	160	160	13	24	2.5	120
T00BT50212-06200A	PBBT50 HC06-200	HC06	200	200	13	28	2.5	160
T00BT50212-10100A	PBBT50 HC10-100	HC10	100	100	20	27	3.0	60
T00BT50212-10160A	PBBT50 HC10-160	HC10	160	160	20	33	3.0	120
T00BT50212-10200A	PBBT50 HC10-200	HC10	200	200	20	37	3.0	160
T00BT50212-16120A	PBBT50 HC16-120	HC16	120	120	32	40	3.0	80
T00BT50212-16160A	PBBT50 HC16-160	HC16	160	160	32	44	3.0	120
T00BT50212-16200A	PBBT50 HC16-200	HC16	200	200	32	49	3.0	160

Note: Order exclude HC collet

### ACCESSORIES:

#### HC COLLETS METRIC

Order Number	Part Name	Collet	Shank
T03HC06-030	HC06 Collet 3mm	HC06	3
T03HC06-040	HC06 Collet 4mm	HC06	4
T03HC06-050	HC06 Collet 5mm	HC06	5
T03HC06-060	HC06 Collet 6mm	HC06	6
T03HC10-030	HC10 Collet 3mm	HC10	3
T03HC10-040	HC10 Collet 4mm	HC10	4
T03HC10-050	HC10 Collet 5mm	HC10	5
T03HC10-060	HC10 Collet 6mm	HC10	6
T03HC10-080	HC10 Collet 8mm	HC10	8
T03HC10-100	HC10 Collet 10mm	HC10	10
T03HC16-060	HC16 Collet 6mm	HC16	6
T03HC16-080	HC16 Collet 8mm	HC16	8
T03HC16-100	HC16 Collet 10mm	HC16	10
T03HC16-120	HC16 Collet 12mm	HC16	12
T03HC16-160	HC16 Collet 16mm	HC16	16



SLIM COLLET CHUCK - 212

HC COLLETS INCH			
Order Number	Part Name	Collet	Shank
T03HC06A030	HC06 Collet 1/8"	HC06	1/8"
T03HC06A050	HC06 Collet 3/16"	HC06	3/16"
T03HC06A060	HC06 Collet 1/4"	HC06	1/4"
T03HC10A030	HC10 Collet 1/8"	HC10	1/8"
T03HC10A040	HC10 Collet 3/16"	HC10	3/16"
T03HC10A060	HC10 Collet 1/4"	HC10	1/4"
T03HC10A080	HC10 Collet 5/16"	HC10	5/16"
T03HC10A100	HC10 Collet 3/8"	HC10	3/8"
T03HC16A060	HC16 Collet 1/4"	HC16	1/4"
T03HC16A080	HC16 Collet 5/16"	HC16	5/16"
T03HC16A100	HC16 Collet 3/8"	HC16	3/8"
T03HC16A120	HC16 Collet 1/2"	HC16	1/2"
T03HC16A160	HC16 Collet 5/8"	HC16	5/8"



HC DRAWBAR	
Order Number	Part Name
T06HC06100-BT40	BT40 HC06100 Drawbar Screw
T06HC06160-BT40	BT40 HC06160 Drawbar Screw
T06HC06200-BT40	BT40 HC06200 Drawbar Screw
T06HC10100-BT40	BT40 HC10100 Drawbar Screw
T06HC10160-BT40	BT40 HC10160 Drawbar Screw
T06HC10200-BT40	BT40 HC10200 Drawbar Screw
T06HC16100-BT40	BT40 HC16100 Drawbar Screw
T06HC16160-BT40	BT40 HC16160 Drawbar Screw
T06HC16200-BT40	BT40 HC16200 Drawbar Screw
T06HC16100-BT50	BT50 HC16100 Drawbar Screw
T06HC16160-BT50	BT50 HC16160 Drawbar Screw
T06HC16200-BT50	BT50 HC16200 Drawbar Screw

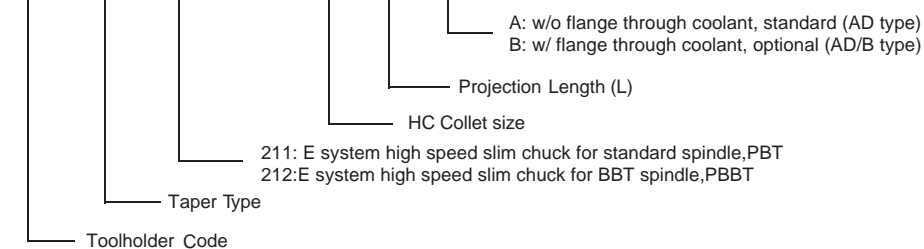


HC SCREW	
Order Number	Part Name
T06HC-BT40-01	BT40 HC06-01
T06HC-BT40-02	BT40 HC06-02
T06HC-BT50-01	BT50 HC06-01



Order Number Instruction

T00 BT40 212 - 06 100 A

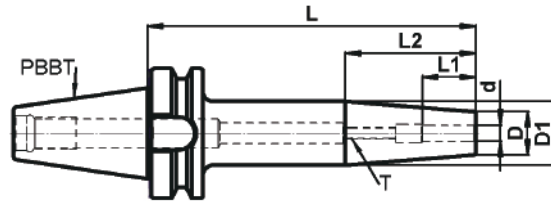


## SHRINK-FIT HOLDER 4.5° - 222

4.5°

## Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



## PBBT30 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT30222-03070A	PBBT30 SF3-070-4.5°	3	70	3	35	15	10	16	S10	YES
T00BT30222-03100A	PBBT30 SF3-100-4.5°	3	100	3	35	15	10	16	S10	YES
T00BT30222-04070A	PBBT30 SF4-070-4.5°	4	70	4	35	16	12	18	S10	YES
T00BT30222-04100A	PBBT30 SF4-100-4.5°	4	100	4	35	16	12	18	S10	YES
T00BT30222-05070A	PBBT30 SF5-070-4.5°	5	70	5	35	20	12	18	S10	YES
T00BT30222-05100A	PBBT30 SF5-100-4.5°	5	100	5	35	20	12	18	S10	YES
T00BT30222-06070A	PBBT30 SF6-070-4.5°	6	70	6	35	22	21	27	S10	YES
T00BT30222-06100A	PBBT30 SF6-100-4.5°	6	100	6	35	22	21	27	S10	YES
T00BT30222-08070A	PBBT30 SF8-070-4.5°	8	70	8	35	26	21	27	M5	YES
T00BT30222-08100A	PBBT30 SF8-100-4.5°	8	100	8	35	26	21	27	M5	YES
T00BT30222-10070A	PBBT30 SF10-070-4.5°	10	70	10	35	31	24	30	M8	YES
T00BT30222-10100A	PBBT30 SF10-100-4.5°	10	100	10	35	31	24	30	M8	YES
T00BT30222-12070A	PBBT30 SF12-070-4.5°	12	70	12	35	36	24	30	M10	YES
T00BT30222-12100A	PBBT30 SF12-100-4.5°	12	100	12	35	36	24	30	M10	YES
T00BT30222-14070A	PBBT30 SF14-070-4.5°	14	70	14	40	36	27	33	M10	YES
T00BT30222-14100A	PBBT30 SF14-100-4.5°	14	100	14	40	36	27	33	M10	YES
T00BT30222-16070A	PBBT30 SF16-070-4.5°	16	70	16	40	39	27	33	M12	YES
T00BT30222-16100A	PBBT30 SF16-100-4.5°	16	100	16	40	39	27	33	M12	YES
T00BT30222-18070A	PBBT30 SF18-070-4.5°	18	70	18	45	39	33	40	M12	YES
T00BT30222-18100A	PBBT30 SF18-100-4.5°	18	100	18	45	39	33	40	M12	YES
T00BT30222-20070A	PBBT30 SF20-070-4.5°	20	70	20	45	41	33	40	M16	YES
T00BT30222-20100A	PBBT30 SF20-100-4.5°	20	100	20	45	41	33	40	M16	YES

## PBBT40 SHRINK FIT HOLDER 4.5° METRIC

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT40222-03080A	PBBT40 SF3-080-4.5°	3	80	3	48	15	10	18	S10	YES
T00BT40222-03100A	PBBT40 SF3-100-4.5°	3	100	3	63	15	10	20	S10	YES
T00BT40222-03160A	PBBT40 SF3-160-4.5°	3	160	3	63	15	10	20	S10	YES
T00BT40222-04080A	PBBT40 SF4-080-4.5°	4	80	4	48	16	12	20	S10	YES
T00BT40222-04100A	PBBT40 SF4-100-4.5°	4	100	4	68	16	12	23	S10	YES
T00BT40222-04160A	PBBT40 SF4-160-4.5°	4	160	4	63	16	12	22	S10	YES
T00BT40222-05080A	PBBT40 SF5-080-4.5°	5	80	5	48	20	12	20	S10	YES
T00BT40222-05100A	PBBT40 SF5-100-4.5°	5	100	5	68	20	12	23	S10	YES
T00BT40222-05160A	PBBT40 SF5-160-4.5°	5	160	5	63	20	12	22	S10	YES
T00BT40222-06090A	PBBT40 SF6-090-4.5°	6	90	6	38	22	21	27	M5	YES
T00BT40222-06100A	PBBT40 SF6-100-4.5°	6	100	6	38	22	21	27	M5	YES
T00BT40222-06120A	PBBT40 SF6-120-4.5°	6	120	6	38	22	21	27	M5	YES
T00BT40222-06160A	PBBT40 SF6-160-4.5°	6	160	6	38	22	21	27	M5	YES
T00BT40222-06200A	PBBT40 SF6-200-4.5°	6	200	6	38	22	21	27	M5	YES
T00BT40222-08090A	PBBT40 SF8-090-4.5°	8	90	8	38	22	21	27	M6	YES
T00BT40222-08100A	PBBT40 SF8-100-4.5°	8	100	8	38	22	21	27	M6	YES
T00BT40222-08120A	PBBT40 SF8-120-4.5°	8	120	8	38	22	21	27	M6	YES
T00BT40222-08160A	PBBT40 SF8-160-4.5°	8	160	8	38	22	21	27	M6	YES
T00BT40222-08200A	PBBT40 SF8-200-4.5°	8	200	8	38	22	21	27	M6	YES
T00BT40222-10090A	PBBT40 SF10-090-4.5°	10	90	10	59	31	24	33	M8	YES
T00BT40222-10100A	PBBT40 SF10-100-4.5°	10	100	10	64	31	24	34	M8	YES
T00BT40222-10120A	PBBT40 SF10-120-4.5°	10	120	10	64	31	24	34	M8	YES
T00BT40222-10160A	PBBT40 SF10-160-4.5°	10	160	10	64	31	24	34	M8	YES
T00BT40222-10200A	PBBT40 SF10-200-4.5°	10	200	10	64	31	24	34	M8	YES
T00BT40222-12090A	PBBT40 SF12-090-4.5°	12	90	12	59	36	24	33	M10	YES
T00BT40222-12120A	PBBT40 SF12-120-4.5°	12	120	12	64	36	24	34	M10	YES
T00BT40222-12160A	PBBT40 SF12-160-4.5°	12	160	12	64	36	24	34	M10	YES
T00BT40222-12200A	PBBT40 SF12-200-4.5°	12	200	12	64	36	24	34	M10	YES
T00BT40222-14090A	PBBT40 SF14-090-4.5°	14	90	14	57	36	27	36	M10	YES
T00BT40222-14120A	PBBT40 SF14-120-4.5°	14	120	14	57	36	27	36	M10	YES
T00BT40222-14160A	PBBT40 SF14-160-4.5°	14	160	14	57	36	27	36	M10	YES
T00BT40222-14200A	PBBT40 SF14-200-4.5°	14	200	14	57	36	27	36	M10	YES
T00BT40222-16090A	PBBT40 SF16-090-4.5°	16	90	16	57	36	27	36	M12	YES
T00BT40222-16100A	PBBT40 SF16-100-4.5°	16	100	16	57	36	27	36	M12	YES
T00BT40222-16120A	PBBT40 SF16-120-4.5°	16	120	16	57	36	27	36	M12	YES
T00BT40222-16160A	PBBT40 SF16-160-4.5°	16	160	16	57	36	27	36	M12	YES
T00BT40222-16200A	PBBT40 SF16-200-4.5°	16	200	16	57	36	27	36	M12	YES
T00BT40222-18090A	PBBT40 SF18-090-4.5°	18	90	18	57	39	33	42	M12	YES

**SHRINK-FIT HOLDER 4.5° - 222**

4.5°

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT40222-18160A	PBBT40 SF18-160-4.5°	18	160	18	57	39	33	42	M12	YES
T00BT40222-20090A	PBBT40 SF20-090-4.5°	20	90	20	57	39	33	42	M16	YES
T00BT40222-20120A	PBBT40 SF20-120-4.5°	20	120	20	57	39	33	42	M16	YES
T00BT40222-20160A	PBBT40 SF20-160-4.5°	20	160	20	57	39	33	42	M16	YES
T00BT40222-20200A	PBBT40 SF20-200-4.5°	20	200	20	57	39	33	42	M16	YES
T00BT40222-25100A	PBBT40 SF25-100-4.5°	25	100	25	57	47	44	53	M16	YES
T00BT40222-25120A	PBBT40 SF25-120-4.5°	25	120	25	57	47	44	53	M16	YES
T00BT40222-25160A	PBBT40 SF25-160-4.5°	25	160	25	57	47	44	53	M16	YES
T00BT40222-25200A	PBBT40 SF25-200-4.5°	25	200	25	57	47	44	53	M16	YES
T00BT40222-32100A	PBBT40 SF32-100-4.5°	32	100	32	57	47	44	53	M16	YES

**PBBT50 SHRINK FIT HOLDER 4.5° METRIC**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT50222-03100A	PBBT50 SF3-100-4.5°	3	100	3	58	15	10	19	S10	YES
T00BT50222-03160A	PBBT50 SF3-160-4.5°	3	160	3	68	15	10	20	S10	YES
T00BT50222-03200A	PBBT50 SF3-200-4.5°	3	160	3	68	15	10	20	S10	YES
T00BT50222-04100A	PBBT50 SF4-100-4.5°	4	100	4	58	16	12	21	S10	YES
T00BT50222-04160A	PBBT50 SF4-160-4.5°	4	160	4	63	16	12	22	S10	YES
T00BT50222-04200A	PBBT50 SF4-200-4.5°	4	200	4	63	16	12	22	S10	YES
T00BT50222-05100A	PBBT50 SF5-100-4.5°	5	100	5	58	20	12	21	S10	YES
T00BT50222-05160A	PBBT50 SF5-160-4.5°	5	160	5	58	20	12	21	S10	YES
T00BT50222-05200A	PBBT50 SF5-200-4.5°	5	200	5	58	20	12	21	S10	YES
T00BT50222-06100A	PBBT50 SF6-100-4.5°	6	100	6	38	22	21	27	M5	YES
T00BT50222-06160A	PBBT50 SF6-160-4.5°	6	160	6	38	22	21	27	M5	YES
T00BT50222-06200A	PBBT50 SF6-200-4.5°	6	200	6	38	22	21	27	M5	YES
T00BT50222-08100A	PBBT50 SF8-100-4.5°	8	100	8	38	22	21	27	M5	YES
T00BT50222-08160A	PBBT50 SF8-160-4.5°	8	160	8	38	22	21	27	M5	YES
T00BT50222-08200A	PBBT50 SF8-200-4.5°	8	200	8	38	22	21	27	M5	YES
T00BT50222-10100A	PBBT50 SF10-100-4.5°	10	100	10	59	31	24	33	M8	YES
T00BT50222-10160A	PBBT50 SF10-160-4.5°	10	160	10	64	31	24	34	M8	YES
T00BT50222-10200A	PBBT50 SF10-200-4.5°	10	200	10	64	36	24	34	M8	YES
T00BT50222-12100A	PBBT50 SF12-100-4.5°	12	100	12	59	36	24	33	M8	YES
T00BT50222-12160A	PBBT50 SF12-160-4.5°	12	160	12	64	36	24	34	M8	YES
T00BT50222-12200A	PBBT50 SF12-200-4.5°	12	200	12	64	36	24	34	M8	YES
T00BT50222-14100A	PBBT50 SF14-100-4.5°	14	100	14	64	36	27	36	M10	YES
T00BT50222-14160A	PBBT50 SF14-160-4.5°	14	160	14	64	36	27	36	M10	YES
T00BT50222-14200A	PBBT50 SF14-200-4.5°	14	200	14	64	36	27	36	M10	YES
T00BT50222-16100A	PBBT50 SF16-100-4.5°	16	100	16	44	36	27	34	M10	YES
T00BT50222-16160A	PBBT50 SF16-160-4.5°	16	160	16	64	36	27	36	M10	YES
T00BT50222-16200A	PBBT50 SF16-200-4.5°	16	200	16	64	36	27	36	M10	YES
T00BT50222-18100A	PBBT50 SF18-100-4.5°	18	100	18	57	39	33	42	M12	YES
T00BT50222-18160A	PBBT50 SF18-160-4.5°	18	160	18	57	39	33	42	M12	YES
T00BT50222-18200A	PBBT50 SF18-200-4.5°	18	200	18	57	39	33	42	M12	YES
T00BT50222-20100A	PBBT50 SF20-100-4.5°	20	100	20	57	39	33	42	M16	YES
T00BT50222-20160A	PBBT50 SF20-160-4.5°	20	160	20	57	39	33	42	M16	YES
T00BT50222-20200A	PBBT50 SF20-200-4.5°	20	200	20	57	39	33	42	M16	YES
T00BT50222-25100A	PBBT50 SF25-100-4.5°	25	100	25	57	47	44	53	M16	YES
T00BT50222-25160A	PBBT50 SF25-160-4.5°	25	160	25	57	47	44	53	M16	YES
T00BT50222-25200A	PBBT50 SF25-200-4.5°	25	200	25	57	47	44	53	M16	YES
T00BT50222-32100A	PBBT50 SF32-100-4.5°	32	100	32	57	47	44	53	M16	YES
T00BT50222-32160A	PBBT50 SF32-160-4.5°	32	160	32	57	47	44	53	M16	YES
T00BT50222-32200A	PBBT50 SF32-200-4.5°	32	200	32	57	47	44	53	M16	YES

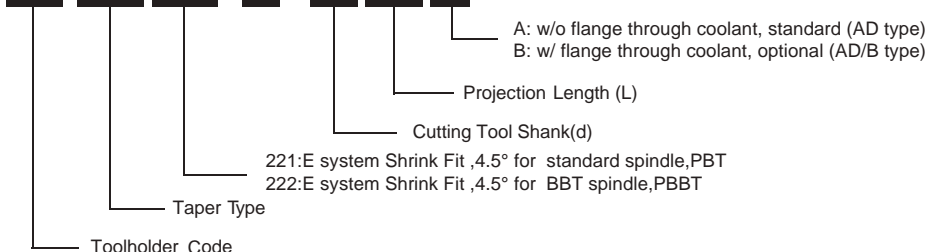
Note:

1. Cutter Shank Tolerance:

3 mm to 6mm : H4

Over 6mm : H6

2. For carbide and HSS tooling.

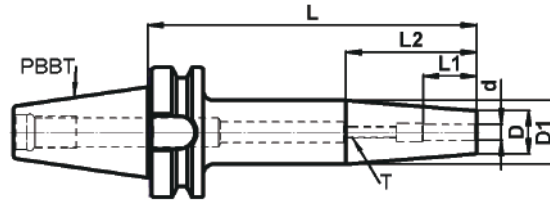

**Order Number Instruction**
**T00 BT40 222 - 3 100 A**


## SHRINK-FIT HOLDER 4.5° - 222

4.5°

## Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



## PBBT30 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT30222A03070A	PBBT30 SF1/8"-2.76"-4.5°	1/8"	2.76"	1/8"	1.38"	0.59"	0.393"	0.63"	S10	YES
T00BT30222A03102A	PBBT30 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	1.38"	0.59"	0.393"	0.63"	S10	YES
T00BT30222A05070A	PBBT30 SF3/16"-2.76"-4.5°	3/16"	2.76"	3/16"	1.38"	0.79"	0.472"	0.71"	S10	YES
T00BT30222A05102A	PBBT30 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	1.38"	0.79"	0.472"	0.71"	S10	YES
T00BT30222A06070A	PBBT30 SF1/4"-2.76"-4.5°	1/4"	2.76"	1/4"	1.38"	0.87"	0.83"	1.06"	M5	YES
T00BT30222A06102A	PBBT30 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.38"	0.87"	0.83"	1.18"	M5	YES
T00BT30222A08070A	PBBT30 SF5/16"-2.76"-4.5°	5/16"	2.76"	5/16"	1.38"	1.02"	0.83"	1.06"	M6	YES
T00BT30222A08102A	PBBT30 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.38"	1.02"	0.83"	1.18"	M6	YES
T00BT30222A09070A	PBBT30 SF3/8"-2.76"-4.5°	3/8"	2.76"	3/8"	1.38"	1.22"	0.94"	1.18"	M8	YES
T00BT30222A09102A	PBBT30 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	1.38"	1.22"	0.94"	1.18"	M8	YES
T00BT30222A12070A	PBBT30 SF1/2"-2.76"-4.5°	1/2"	2.76"	1/2"	1.38"	1.42"	0.94"	1.18"	M10	YES
T00BT30222A12102A	PBBT30 SF1/2"-4.00"-4.5°	1/2"	4.00"	1/2"	1.38"	1.42"	0.94"	1.18"	M10	YES
T00BT30222A16070A	PBBT30 SF5/8"-2.76"-4.5°	5/8"	2.76"	5/8"	2.77"	1.54"	1.06"	1.30"	M12	YES
T00BT30222A16102A	PBBT30 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	2.77"	1.54"	1.06"	1.30"	M12	YES
T00BT30222A19070A	PBBT30 SF3/4"-2.76"-4.5°	3/4"	2.76"	3/4"	2.77"	1.61"	1.3"	1.57"	M12	YES
T00BT30222A19102A	PBBT30 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.77"	1.61"	1.3"	1.57"	M12	YES

## PBBT40 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT40222A03080A	PBBT40 SF1/8"-3.15"-4.5°	1/8"	3.15"	1/8"	1.89"	0.59"	0.393"	0.71"	S10	YES
T00BT40222A03102A	PBBT40 SF1/8"-4.00"-4.5°	1/8"	4.00"	1/8"	2.50"	0.59"	0.393"	0.79"	S10	YES
T00BT40222A03160A	PBBT40 SF1/8"-6.30"-4.5°	1/8"	6.30"	1/8"	2.50"	0.59"	0.393"	0.79"	S10	YES
T00BT40222A05080A	PBBT40 SF3/16"-3.15"-4.5°	3/16"	3.15"	3/16"	1.89"	0.79"	0.472"	0.79"	S10	YES
T00BT40222A05102A	PBBT40 SF3/16"-4.00"-4.5°	3/16"	4.00"	3/16"	2.50"	0.79"	0.472"	0.87"	S10	YES
T00BT40222A05160A	PBBT40 SF3/16"-6.30"-4.5°	3/16"	6.30"	3/16"	2.50"	0.79"	0.472"	0.87"	S10	YES
T00BT40222A06102A	PBBT40 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.50"	0.87"	0.83"	1.06"	M5	YES
T00BT40222A06160A	PBBT40 SF1/4"-6.30"-4.5°	1/4"	6.30"	1/4"	2.52"	0.87"	0.83"	1.22"	M5	YES
T00BT40222A08102A	PBBT40 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.50"	1.02"	0.83"	1.06"	M5	YES
T00BT40222A08160A	PBBT40 SF5/16"-6.30"-4.5°	5/16"	6.30"	5/16"	2.52"	1.02"	0.83"	1.22"	M5	YES
T00BT40222A09102A	PBBT40 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	2.32"	1.22"	0.94"	1.30"	M8	YES
T00BT40222A09160A	PBBT40 SF3/8"-6.30"-4.5°	3/8"	6.30"	3/8"	2.52"	1.22"	0.94"	1.34"	M8	YES
T00BT40222A12102A	PBBT40 SF1/2"-4.00"-4.5°	1/2"	4.00"	1/2"	2.32"	1.42"	0.94"	1.30"	M8	YES
T00BT40222A12160A	PBBT40 SF1/2"-6.30"-4.5°	1/2"	6.30"	1/2"	2.52"	1.42"	0.94"	1.34"	M8	YES
T00BT40222A16102A	PBBT40 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00BT40222A16160A	PBBT40 SF5/8"-6.30"-4.5°	5/8"	6.30"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00BT40222A19102A	PBBT40 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.25"	1.61"	1.3"	1.65"	M12	YES
T00BT40222A19160A	PBBT40 SF3/4"-6.30"-4.5°	3/4"	6.30"	3/4"	2.25"	1.61"	1.3"	1.65"	M12	YES
T00BT40222A22102A	PBBT40 SF7/8"-4.00"-4.5°	7/8"	4.00"	7/8"	2.25"	1.61"	1.3"	1.65"	M16	YES
T00BT40222A25102A	PBBT40 SF1"-4.00"-4.5°	1"	4.00"	1"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT40222A25160A	PBBT40 SF1"-6.30"-4.5°	1"	6.30"	1"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT40222A32102A	PBBT40 SF1 1/4"-4.00"-4.5°	1 1/4"	4.00"	1 1/4"	2.25"	1.85"	1.73"	2.08"	M16	YES

## PBBT50 SHRINK FIT HOLDER 4.5° INCH

Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT50222A06102A	PBBT50 SF1/4"-4.00"-4.5°	1/4"	4.00"	1/4"	1.50"	0.87"	0.83"	1.06"	M5	YES
T00BT50222A06160A	PBBT50 SF1/4"-6.30"-4.5°	1/4"	6.30"	1/4"	2.52"	0.87"	0.83"	1.22"	M5	YES
T00BT50222A06203A	PBBT50 SF1/4"-8.00"-4.5°	1/4"	8.00"	1/4"	2.52"	0.87"	0.83"	1.22"	M5	YES
T00BT50222A08102A	PBBT50 SF5/16"-4.00"-4.5°	5/16"	4.00"	5/16"	1.50"	0.87"	0.83"	1.06"	M6	YES
T00BT50222A08160A	PBBT50 SF5/16"-6.30"-4.5°	5/16"	6.30"	5/16"	2.52"	0.87"	0.83"	1.22"	M6	YES
T00BT50222A08203A	PBBT50 SF5/16"-8.00"-4.5°	5/16"	8.00"	5/16"	2.52"	0.87"	0.83"	1.22"	M6	YES
T00BT50222A09102A	PBBT50 SF3/8"-4.00"-4.5°	3/8"	4.00"	3/8"	2.32"	1.22"	0.94"	2.32"	M8	YES
T00BT50222A09160A	PBBT50 SF3/8"-6.30"-4.5°	3/8"	6.30"	3/8"	2.52"	1.22"	0.94"	2.52"	M8	YES
T00BT50222A12102A	PBBT50 SF1/2"-4.00"-4.5°	1/2"	4.00"	1/2"	2.32"	1.42"	0.94"	1.34"	M10	YES
T00BT50222A12160A	PBBT50 SF1/2"-6.30"-4.5°	1/2"	6.30"	1/2"	2.52"	1.42"	0.94"	1.34"	M10	YES
T00BT50222A12203A	PBBT50 SF1/2"-8.00"-4.5°	1/2"	8.00"	1/2"	2.52"	1.42"	0.94"	1.34"	M10	YES
T00BT50222A16102A	PBBT50 SF5/8"-4.00"-4.5°	5/8"	4.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00BT50222A16160A	PBBT50 SF5/8"-6.30"-4.5°	5/8"	6.30"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00BT50222A16203A	PBBT50 SF5/8"-8.00"-4.5°	5/8"	8.00"	5/8"	1.75"	1.54"	1.06"	1.34"	M12	YES
T00BT50222A19102A	PBBT50 SF3/4"-4.00"-4.5°	3/4"	4.00"	3/4"	2.25"	1.61"	1.3"	1.65"	M12	YES
T00BT50222A19160A	PBBT50 SF3/4"-6.30"-4.5°	3/4"	6.30"	3/4"	2.25"	1.61"	1.3"	1.65"	M12	YES
T00BT50222A19203A	PBBT50 SF3/4"-8.00"-4.5°	3/4"	8.00"	3/4"	2.25"	1.61"	1.3"	1.65"	M12	YES

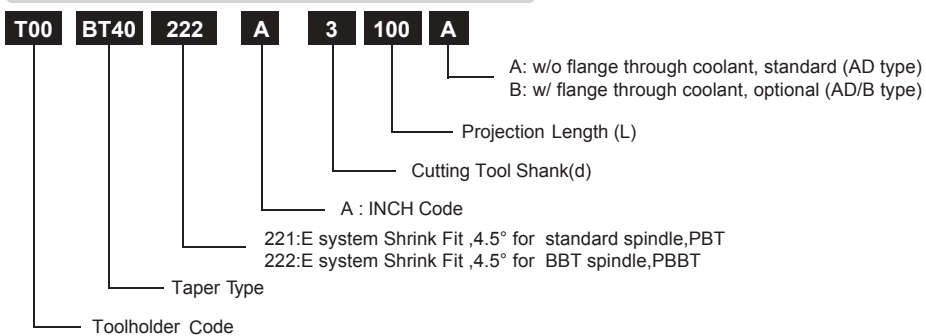
Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT50222A25102A	PBBT50 SF1"-4.00"-4.5°	1"	4.00"	1"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT50222A25160A	PBBT50 SF1"-6.30"-4.5°	1"	6.30"	1"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT50222A25203A	PBBT50 SF1"-8.00"-4.5°	1"	8.00"	1"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT50222A32102A	PBBT50 SF1 1/4"-4.00"-4.5°	1 1/4"	4.00"	1 1/4"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT50222A32160A	PBBT50 SF1 1/4"-6.30"-4.5°	1 1/4"	6.30"	1 1/4"	2.25"	1.85"	1.73"	2.08"	M16	YES
T00BT50222A32203A	PBBT50 SF1 1/4"-8.00"-4.5°	1 1/4"	8.00"	1 1/4"	2.25"	1.85"	1.73"	2.08"	M16	YES

## Note:

- Cutter Shank Tolerance:  
3 mm to 6mm : H4  
Over 6mm : H6
- For carbide and HSS tooling.



## Order Number Instruction

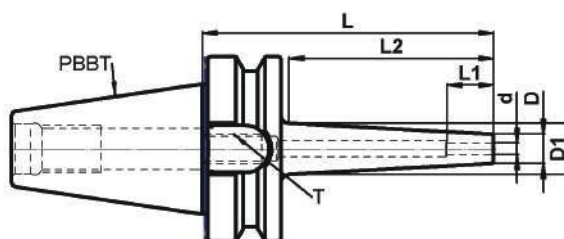


**SHRINK-FIT HOLDER 3° - 242**

3°

## Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm


**PBBT30 SHRINK FIT HOLDER 3° METRIC**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT30242-03100A	PBBT30 SF03-100-3°	3	100	3	75	15	9	17	S10	NO
T00BT30242-03160A	PBBT30 SF03-160-3°	3	160	3	135	15	9	23	S10	NO
T00BT30242-04100A	PBBT30 SF04-100-3°	4	100	4	75	16	10	18	S10	NO
T00BT30242-04160A	PBBT30 SF04-160-3°	4	160	4	135	16	10	24	S10	NO
T00BT30242-05100A	PBBT30 SF05-100-3°	5	100	5	75	20	11	19	S10	NO
T00BT30242-05160A	PBBT30 SF05-160-3°	5	160	5	135	20	11	25	S10	NO
T00BT30242-06100A	PBBT30 SF06-100-3°	6	100	6	75	22	12	20	M5	NO
T00BT30242-06160A	PBBT30 SF06-160-3°	6	160	6	135	22	12	26	M5	NO
T00BT30242-08100A	PBBT30 SF08-100-3°	8	100	8	75	26	14	22	M6	NO
T00BT30242-08160A	PBBT30 SF08-160-3°	8	160	8	135	26	14	28	M6	NO
T00BT30242-10100A	PBBT30 SF10-100-3°	10	100	10	75	31	16	24	M8	NO
T00BT30242-10160A	PBBT30 SF10-160-3°	10	160	10	135	31	16	30	M8	NO
T00BT30242-12100A	PBBT30 SF12-100-3°	12	100	12	75	36	18	26	M10	NO
T00BT30242-12160A	PBBT30 SF12-160-3°	12	160	12	135	36	18	32	M10	NO
T00BT30242-16100A	PBBT30 SF16-100-3°	16	100	16	75	39	22	30	M12	NO
T00BT30242-16160A	PBBT30 SF16-160-3°	16	160	16	135	39	22	36	M12	NO

**PBBT40 SHRINK FIT HOLDER 3° METRIC**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT40242-03100A	PBBT40 SF03-100-3°	3	100	3	70	15	9	17	S10	NO
T00BT40242-03160A	PBBT40 SF03-160-3°	3	160	3	130	15	9	23	S10	NO
T00BT40242-04100A	PBBT40 SF04-100-3°	4	100	4	70	16	10	18	S10	NO
T00BT40242-04160A	PBBT40 SF04-160-3°	4	160	4	130	16	10	24	S10	NO
T00BT40242-05100A	PBBT30 SF05-100-3°	5	100	5	75	20	11	19	S10	NO
T00BT40242-05160A	PBBT40 SF05-160-3°	5	160	5	130	20	11	25	S10	NO
T00BT40242-06100A	PBBT40 SF06-100-3°	6	100	6	70	22	12	20	S10	NO
T00BT40242-06160A	PBBT40 SF06-160-3°	6	160	6	130	22	12	26	S10	NO
T00BT40242-06200A	PBBT40 SF06-200-3°	6	200	6	170	22	12	30	S10	NO
T00BT40242-08100A	PBBT40 SF08-100-3°	8	100	8	70	26	14	22	M6	NO
T00BT40242-08160A	PBBT40 SF08-160-3°	8	160	8	130	26	14	28	M6	NO
T00BT40242-08200A	PBBT40 SF08-200-3°	8	200	8	170	26	14	32	M6	NO
T00BT40242-10100A	PBBT40 SF10-100-3°	10	100	10	70	31	16	24	M8	NO
T00BT40242-10160A	PBBT40 SF10-160-3°	10	160	10	130	31	16	30	M8	NO
T00BT40242-10200A	PBBT40 SF10-200-3°	10	200	10	170	31	16	34	M8	NO
T00BT40242-12100A	PBBT40 SF12-100-3°	12	100	12	70	36	18	26	M10	NO
T00BT40242-12160A	PBBT40 SF12-160-3°	12	160	12	130	36	18	32	M10	NO
T00BT40242-12200A	PBBT40 SF12-200-3°	12	200	12	170	36	18	36	M10	NO
T00BT40242-16100A	PBBT40 SF16-100-3°	16	100	16	70	39	22	30	M12	NO
T00BT40242-16160A	PBBT40 SF16-160-3°	16	160	16	130	39	22	36	M12	NO
T00BT40242-16200A	PBBT40 SF16-200-3°	16	200	16	170	39	22	40	M12	NO
T00BT40242-20100A	PBBT40 SF20-100-3°	20	100	20	70	41	27	35	M16	NO
T00BT40242-20160A	PBBT40 SF20-160-3°	20	160	20	130	41	27	41	M16	NO
T00BT40242-20200A	PBBT40 SF20-200-3°	20	200	20	170	41	27	45	M16	NO
T00BT40242-25100A	PBBT40 SF25-100-3°	25	100	25	70	47	34	42	M16	NO
T00BT40242-25160A	PBBT40 SF25-160-3°	25	160	25	130	47	34	48	M16	NO
T00BT40242-25200A	PBBT40 SF25-200-3°	25	200	25	170	47	34	52	M16	NO

**PBBT50 SHRINK FIT HOLDER 3° METRIC**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT50242-06100A	PBBT50 SF06-100-3°	6	100	6	60	22	12	19	S10	NO
T00BT50242-06160A	PBBT50 SF06-160-3°	6	160	6	120	22	12	25	S10	NO
T00BT50242-06200A	PBBT50 SF06-200-3°	6	200	6	160	22	12	29	S10	NO
T00BT50242-08100A	PBBT50 SF08-100-3°	8	100	8	60	26	14	21	M6	NO
T00BT50242-08160A	PBBT50 SF08-160-3°	8	160	8	120	26	14	27	M6	NO
T00BT50242-08200A	PBBT50 SF08-200-3°	8	200	8	160	26	14	31	M6	NO
T00BT50242-10100A	PBBT50 SF10-100-3°	10	100	10	60	31	16	23	M8	NO
T00BT50242-10160A	PBBT50 SF10-160-3°	10	160	10	120	31	16	29	M8	NO
T00BT50242-10200A	PBBT50 SF10-200-3°	10	200	10	160	31	16	33	M8	NO
T00BT50242-12100A	PBBT50 SF12-100-3°	12	100	12	60	36	18	25	M10	NO
T00BT50242-12160A	PBBT50 SF12-160-3°	12	160	12	120	36	18	31	M10	NO
T00BT50242-12200A	PBBT50 SF12-200-3°	12	200	12	160	36	18	35	M10	NO
T00BT50242-16100A	PBBT50 SF16-100-3°	16	100	16	60	39	22	29	M12	NO



**SHRINK-FIT HOLDER 3° - 242**

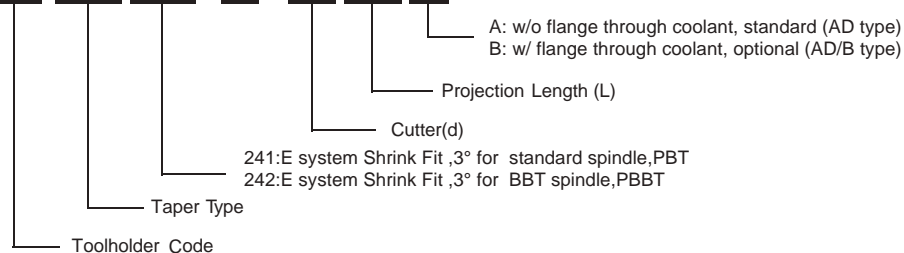
3°

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT50242-16160A	PBBT50 SF16-160-3°	16	160	16	120	39	22	35	M12	NO
T00BT50242-16200A	PBBT50 SF16-200-3°	16	200	16	160	39	22	39	M12	NO
T00BT50242-20100A	PBBT50 SF20-100-3°	20	100	20	60	41	27	34	M16	NO
T00BT50242-20160A	PBBT50 SF20-160-3°	20	160	20	120	41	27	40	M16	NO
T00BT50242-20200A	PBBT50 SF20-200-3°	20	200	20	160	41	27	44	M16	NO
T00BT50242-25100A	PBBT50 SF25-100-3°	25	100	25	60	47	34	41	M16	NO
T00BT50242-25160A	PBBT50 SF25-160-3°	25	160	25	120	47	34	47	M16	NO
T00BT50242-25200A	PBBT50 SF25-200-3°	25	200	25	160	47	34	51	M16	NO

## Note:

- Cutter Shank Tolerance:  
3 mm ~ 4mm : H4  
5mm : H5  
Larger than 6mm : H6
- For carbide tooling.

## Order Number Instruction

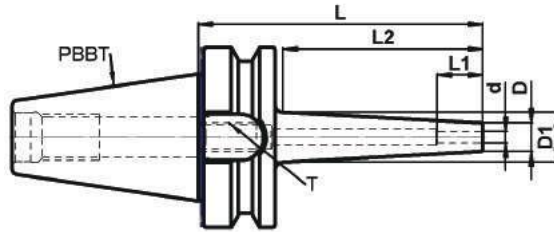
**T00 BT40 242 - 3 100 A**


**SHRINK-FIT HOLDER 3° - 242**

3°

## Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm


**PBBT30 SHRINK FIT HOLDER 3° INCH**

Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT30242A03102A	PBBT30 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.95"	0.59"	0.36"	0.67"	S10	NO
T00BT30242A05102A	PBBT30 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.95"	0.79"	0.43"	0.75"	S10	NO
T00BT30242A06102A	PBBT30 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.95"	0.87"	0.47"	0.79"	M5	NO
T00BT30242A06160A	PBBT30 SF1/4"-6.30"-3°	1/4"	6.30"	1/4"	5.32"	0.87"	0.47"	1.03"	M5	NO
T00BT30242A08102A	PBBT30 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.95"	1.02"	0.55"	0.87"	M6	NO
T00BT30242A08160A	PBBT30 SF5/16"-6.30"-3°	5/16"	6.30"	5/16"	5.32"	1.02"	0.55"	1.11"	M6	NO
T00BT30242A09102A	PBBT30 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.95"	1.22"	0.63"	0.94"	M8	NO
T00BT30242A09160A	PBBT30 SF3/8"-6.30"-3°	3/8"	6.30"	3/8"	5.32"	1.22"	0.63"	1.19"	M8	NO
T00BT30242A12102A	PBBT30 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.95"	1.42"	0.71"	1.02"	M10	NO
T00BT30242A12160A	PBBT30 SF1/2"-6.30"-3°	1/2"	6.30"	1/2"	5.32"	1.42"	0.71"	1.27"	M10	NO
T00BT30242A16102A	PBBT30 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.95"	1.54"	0.87"	1.18"	M12	NO
T00BT30242A16160A	PBBT30 SF5/8"-6.30"-3°	5/8"	6.30"	5/8"	5.32"	1.54"	0.87"	1.42"	M12	NO

**PBBT40 SHRINK FIT HOLDER 3° INCH**

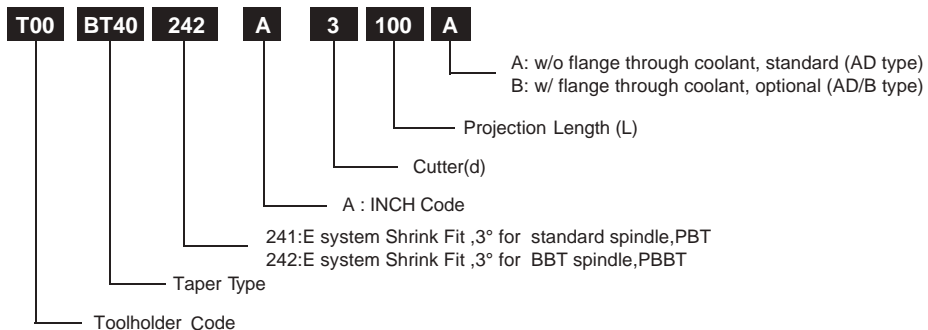
Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT40242A03102A	PBBT40 SF1/8"-4.00"-3°	1/8"	4.00"	1/8"	2.76"	0.59"	0.36"	0.65"	S10	NO
T00BT40242A03160A	PBBT40 SF1/8"-6.30"-3°	1/8"	6.30"	1/8"	5.12"	0.59"	0.36"	0.89"	S10	NO
T00BT40242A05102A	PBBT40 SF3/16"-4.00"-3°	3/16"	4.00"	3/16"	2.76"	0.79"	0.43"	0.72"	S10	NO
T00BT40242A06102A	PBBT40 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.76"	0.87"	0.47"	0.76"	M5	NO
T00BT40242A06160A	PBBT40 SF1/4"-6.30"-3°	1/4"	6.30"	1/4"	5.12"	0.87"	0.47"	1.01"	M5	NO
T00BT40242A08102A	PBBT40 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.76"	1.02"	0.55"	0.84"	M6	NO
T00BT40242A08160A	PBBT40 SF5/16"-6.30"-3°	5/16"	6.30"	5/16"	5.12"	1.02"	0.55"	1.09"	M6	NO
T00BT40242A09102A	PBBT40 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.76"	1.22"	0.63"	0.84"	M8	NO
T00BT40242A09160A	PBBT40 SF3/8"-6.30"-3°	3/8"	6.30"	3/8"	5.12"	1.22"	0.63"	1.09"	M8	NO
T00BT40242A12102A	PBBT40 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.76"	1.42"	0.71"	1.00"	M10	NO
T00BT40242A12160A	PBBT40 SF1/2"-6.30"-3°	1/2"	6.30"	1/2"	5.12"	1.42"	0.71"	1.25"	M10	NO
T00BT40242A16102A	PBBT40 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.76"	1.54"	0.87"	1.16"	M12	NO
T00BT40242A16160A	PBBT40 SF5/8"-6.30"-3°	5/8"	6.30"	5/8"	5.12"	1.54"	0.87"	1.41"	M12	NO
T00BT40242A19102A	PBBT40 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.76"	1.61"	1.06"	1.36"	M16	NO
T00BT40242A19160A	PBBT40 SF3/4"-6.30"-3°	3/4"	6.30"	3/4"	5.12"	1.61"	1.06"	1.60"	M16	NO
T00BT40242A25102A	PBBT40 SF1"-4.00"-3°	1"	4.00"	1"	2.75"	1.85"	1.34"	1.63"	M16	NO
T00BT40242A25160A	PBBT40 SF1"-6.30"-3°	1"	6.30"	1"	5.12"	1.85"	1.34"	1.88"	M16	NO

**PBBT50 SHRINK FIT HOLDER 3° INCH**

Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT50242A06102A	PBBT50 SF1/4"-4.00"-3°	1/4"	4.00"	1/4"	2.36"	0.87"	0.47"	0.72"	M5	NO
T00BT50242A06160A	PBBT50 SF1/4"-6.30"-3°	1/4"	6.30"	1/4"	4.72"	0.87"	0.47"	0.97"	M5	NO
T00BT50242A06203A	PBBT50 SF1/4"-8.00"-3°	1/4"	8.00"	1/4"	6.30"	0.87"	0.47"	1.14"	M5	NO
T00BT50242A08102A	PBBT50 SF5/16"-4.00"-3°	5/16"	4.00"	5/16"	2.36"	1.02"	0.55"	0.80"	M6	NO
T00BT50242A08160A	PBBT50 SF5/16"-6.30"-3°	5/16"	6.30"	5/16"	4.72"	1.02"	0.55"	1.05"	M6	NO
T00BT50242A08203A	PBBT50 SF5/16"-8.00"-3°	5/16"	8.00"	5/16"	6.30"	1.02"	0.55"	1.22"	M6	NO
T00BT50242A09102A	PBBT50 SF3/8"-4.00"-3°	3/8"	4.00"	3/8"	2.36"	1.22"	0.63"	0.88"	M8	NO
T00BT50242A09160A	PBBT50 SF3/8"-6.30"-3°	3/8"	6.30"	3/8"	4.72"	1.22"	0.63"	1.13"	M8	NO
T00BT50242A09203A	PBBT50 SF3/8"-8.00"-3°	3/8"	8.00"	3/8"	6.30"	1.22"	0.63"	1.29"	M8	NO
T00BT50242A12102A	PBBT50 SF1/2"-4.00"-3°	1/2"	4.00"	1/2"	2.36"	1.42"	0.71"	0.96"	M10	NO
T00BT50242A12160A	PBBT50 SF1/2"-6.30"-3°	1/2"	6.30"	1/2"	4.72"	1.42"	0.71"	1.21"	M10	NO
T00BT50242A12203A	PBBT50 SF1/2"-8.00"-3°	1/2"	8.00"	1/2"	6.30"	1.42"	0.71"	1.37"	M10	NO
T00BT50242A16102A	PBBT50 SF5/8"-4.00"-3°	5/8"	4.00"	5/8"	2.36"	1.54"	0.87"	1.12"	M12	NO
T00BT50242A16160A	PBBT50 SF5/8"-6.30"-3°	5/8"	6.30"	5/8"	4.72"	1.54"	0.87"	1.37"	M12	NO
T00BT50242A16203A	PBBT50 SF5/8"-8.00"-3°	5/8"	8.00"	5/8"	6.30"	1.54"	0.87"	1.53"	M12	NO
T00BT50242A19102A	PBBT50 SF3/4"-4.00"-3°	3/4"	4.00"	3/4"	2.36"	1.61"	1.06"	1.31"	M16	NO
T00BT50242A19160A	PBBT50 SF3/4"-6.30"-3°	3/4"	6.30"	3/4"	4.72"	1.61"	1.06"	1.56"	M16	NO
T00BT50242A19203A	PBBT50 SF3/4"-8.00"-3°	3/4"	8.00"	3/4"	6.30"	1.61"	1.06"	1.73"	M16	NO
T00BT50242A25102A	PBBT50 SF1"-4.00"-3°	1"	4.00"	1"	2.36"	1.85"	1.34"	1.59"	M16	NO
T00BT50242A25160A	PBBT50 SF1"-6.30"-3°	1"	6.30"	1"	4.72"	1.85"	1.34"	1.84"	M16	NO
T00BT50242A25203A	PBBT50 SF1"-8.00"-3°	1"	8.00"	1"	6.30"	1.85"	1.34"	2.00"	M16	NO

**SHRINK-FIT HOLDER 3° - 242**
**3°**
**Note:**

1. Cutter Shank Tolerance:  
 3 mm ~ 4mm : H4  
 5mm : H5  
 Larger than 6mm : H6
2. For carbide tooling.

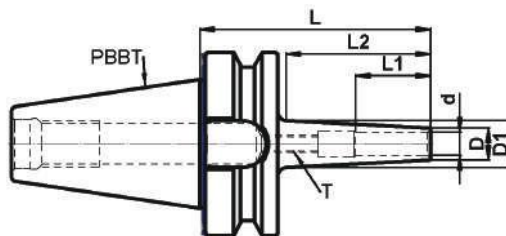
**Order Number Instruction**


**SHRINK-FIT HOLDER 3° SLIM - 252**

3° SLIM

## Quality

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm


**PBBT40 SHRINK FIT HOLDER 3° SLIM METRIC**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT40252-03100A	PBBT40 SF03-100-3°Slim	3	100	3	70	15	6	14	S10	NO
T00BT40252-03160A	PBBT40 SF03-160-3°Slim	3	160	3	130	15	6	20	S10	NO
T00BT40252-04100A	PBBT40 SF04-100-3°Slim	4	100	4	70	16	7	15	S10	NO
T00BT40252-04160A	PBBT40 SF04-160-3°Slim	4	160	4	130	16	7	21	S10	NO
T00BT40252-05100A	PBBT40 SF05-100-3°Slim	5	100	5	70	20	8	16	S10	NO
T00BT40252-05160A	PBBT40 SF05-160-3°Slim	5	160	5	130	20	8	22	S10	NO
T00BT40252-06100A	PBBT40 SF06-100-3°Slim	6	100	6	70	22	9	17	S10	NO
T00BT40252-06160A	PBBT40 SF06-160-3°Slim	6	160	6	130	22	9	23	S10	NO
T00BT40252-06200A	PBBT40 SF06-200-3°Slim	6	200	6	170	22	9	27	S10	NO
T00BT40252-08100A	PBBT40 SF08-100-3°Slim	8	100	8	70	26	11	19	M6	NO
T00BT40252-08160A	PBBT40 SF08-160-3°Slim	8	160	8	130	26	11	25	M6	NO
T00BT40252-08200A	PBBT40 SF08-200-3°Slim	8	200	8	170	26	11	29	M6	NO
T00BT40252-10100A	PBBT40 SF10-100-3°Slim	10	100	10	70	31	13	21	M8	NO
T00BT40252-10160A	PBBT40 SF10-160-3°Slim	10	160	10	130	31	13	27	M8	NO
T00BT40252-10200A	PBBT40 SF10-200-3°Slim	10	200	10	170	31	13	31	M8	NO
T00BT40252-12100A	PBBT40 SF12-100-3°Slim	12	100	12	70	36	15	23	M10	NO
T00BT40252-12160A	PBBT40 SF12-160-3°Slim	12	160	12	130	36	15	29	M10	NO
T00BT40252-12200A	PBBT40 SF12-200-3°Slim	12	200	12	170	36	15	33	M10	NO

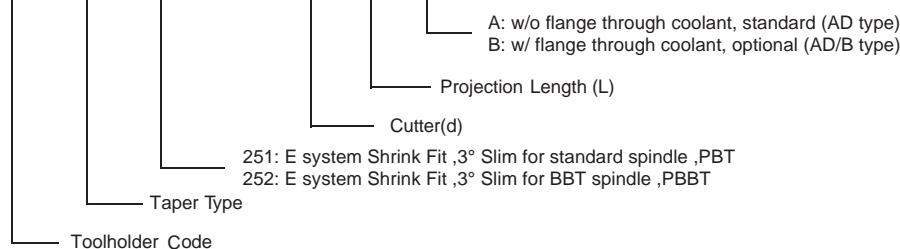
**PBBT50 SHRINK FIT HOLDER 3° SLIM METRIC**

Order Number	Part Name	Cutter	L	d	L2	L1	D	D1	T	HSS
T00BT50252-06100A	PBBT50 SF06-100-3°Slim	6	100	6	60	22	9	16	S10	NO
T00BT50252-06160A	PBBT50 SF06-160-3°Slim	6	160	6	120	22	9	22	S10	NO
T00BT50252-08100A	PBBT50 SF08-100-3°Slim	8	100	8	60	26	11	18	M6	NO
T00BT50252-08160A	PBBT50 SF08-160-3°Slim	8	160	8	120	26	11	24	M6	NO
T00BT50252-10100A	PBBT50 SF10-100-3°Slim	10	100	10	60	31	13	20	M8	NO
T00BT50252-10160A	PBBT50 SF10-160-3°Slim	10	160	10	120	31	13	26	M8	NO
T00BT50252-12100A	PBBT50 SF12-100-3°Slim	12	100	12	60	36	15	22	M10	NO
T00BT50252-12160A	PBBT50 SF12-160-3°Slim	12	160	12	120	36	15	28	M10	NO

## Note:

- Cutter Shank Tolerance:  
3 mm ~ 4mm : H4  
5mm : H5  
Larger than 6mm : H6
- For carbide tooling.

## Order Number Instruction

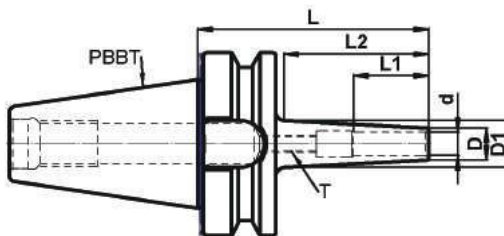
**T00 BT40 252 - 3 100 A**


**SHRINK-FIT HOLDER 3° SLIM - 252**

3° SLIM

**Quality**

- Taper Angle Tolerance: AT3+
- Hardness: HRC 52 ± 2
- Seat Runout: 0.003mm(0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm

**PBBT40 SHRINK FIT HOLDER 3° SLIM INCH**

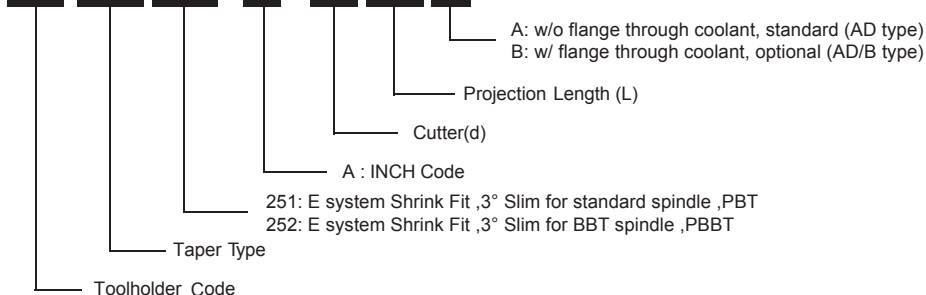
Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT40252A03102A	PBBT40 SF1/8"-4.00"-3° Silm	1/8"	4.00"	1/8"	2.76"	0.59"	0.24"	0.55"	S10	NO
T00BT40252A03160A	PBBT40 SF1/8"-6.30"-3° Silm	1/8"	6.30"	1/8"	5.12"	0.59"	0.24"	0.79"	S10	NO
T00BT40252A05102A	PBBT40 SF3/16"-4.00"-3° Silm	3/16"	4.00"	3/16"	2.76"	0.79"	0.31"	0.63"	S10	NO
T00BT40252A05160A	PBBT40 SF3/16"-6.30"-3° Silm	3/16"	6.30"	3/16"	5.12"	0.79"	0.31"	0.87"	S10	NO
T00BT40252A06102A	PBBT40 SF1/4"-4.00"-3° Silm	1/4"	4.00"	1/4"	2.76"	0.87"	0.35"	0.67"	M5	NO
T00BT40252A06160A	PBBT40 SF1/4"-6.30"-3° Silm	1/4"	6.30"	1/4"	5.12"	0.87"	0.35"	0.91"	M5	NO
T00BT40252A08102A	PBBT40 SF5/16"-4.00"-3° Silm	5/16"	4.00"	5/16"	2.76"	1.02"	0.43"	0.75"	M6	NO
T00BT40252A08160A	PBBT40 SF5/16"-6.30"-3° Silm	5/16"	6.30"	5/16"	5.12"	1.02"	0.43"	1.00"	M6	NO
T00BT40252A09102A	PBBT40 SF3/8"-4.00"-3° Silm	3/8"	4.00"	3/8"	2.76"	1.22"	0.51"	0.83"	M8	NO
T00BT40252A09160A	PBBT40 SF3/8"-6.30"-3° Silm	3/8"	6.30"	3/8"	5.12"	1.22"	0.51"	1.06"	M8	NO
T00BT40252A12102A	PBBT40 SF1/2"-4.00"-3° Silm	1/2"	4.00"	1/2"	2.76"	1.42"	0.63"	0.91"	M10	NO
T00BT40252A12160A	PBBT40 SF1/2"-6.30"-3° Silm	1/2"	6.30"	1/2"	5.12"	1.42"	0.63"	1.14"	M10	NO

**PBBT50 SHRINK FIT HOLDER 3° SLIM INCH**

Order Number	Part Name	Cutter	L	d inch	L2	L1	D	D1	T	HSS
T00BT50252A06102A	PBBT50 SF1/4"-4.00"-3° Slim	1/4"	4.00"	1/4"	2.32"	0.87"	0.36"	0.63"	M5	NO
T00BT50252A06160A	PBBT50 SF1/4"-6.30"-3° Slim	1/4"	6.30"	1/4"	4.69"	0.87"	0.36"	0.87"	M5	NO
T00BT50252A08102A	PBBT50 SF5/16"-4.00"-3° Slim	5/16"	4.00"	5/16"	2.32"	1.02"	0.43"	0.71"	M6	NO
T00BT50252A08160A	PBBT50 SF5/16"-6.30"-3° Slim	5/16"	6.30"	5/16"	4.69"	1.02"	0.43"	0.94"	M6	NO
T00BT50252A09102A	PBBT50 SF3/8"-4.00"-3° Slim	3/8"	4.00"	3/8"	2.32"	1.22"	0.51"	0.79"	M8	NO
T00BT50252A09160A	PBBT50 SF3/8"-6.30"-3° Slim	3/8"	6.30"	3/8"	4.69"	1.22"	0.51"	1.02"	M8	NO
T00BT50252A12102A	PBBT50 SF1/2"-4.00"-3° Slim	1/2"	4.00"	1/2"	2.32"	1.42"	0.63"	0.87"	M10	NO
T00BT50252A12160A	PBBT50 SF1/2"-6.30"-3° Slim	1/2"	6.30"	1/2"	4.69"	1.42"	0.63"	1.10"	M10	NO

**Note:**

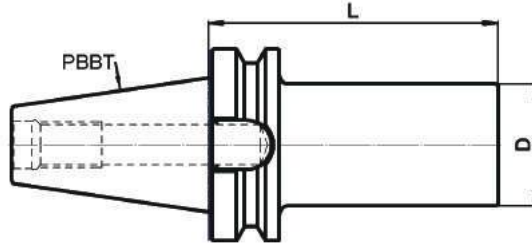
- Cutter Shank Tolerance:  
3 mm ~ 4mm : H4  
5mm : H5  
Larger than 6mm : H6
- For carbide tooling.

**Order Number Instruction**
**T00 BT40 252 A 3 100 A**


BLANK ARBOR - 312

**Quality**

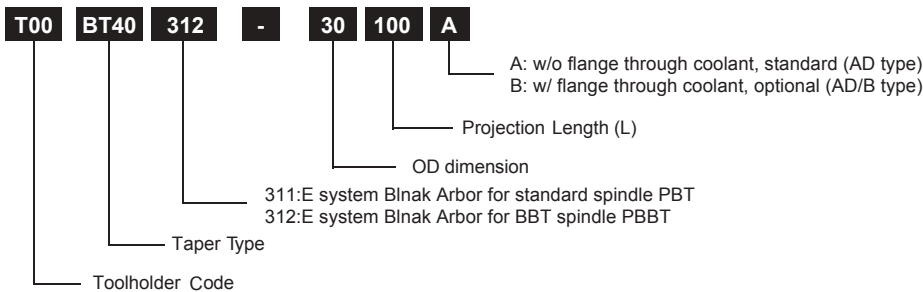
- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 58±2 on taper
- Hardness: HRC26~40 on Shank



BLANK ARBOR METRIC

Order Number	Part Name	D METRIC	D INCH	L METRIC	L INCH
T00BT30312-64160	PBBT30 BL 64-160	63.5	2.50"	160	6.300"
T00BT30312-64200	PBBT30 BL 64-200	63.5	2.50"	200	7.874"
T00BT40312-64160	PBBT40 BL 64-160	63.5	2.50"	160	6.300"
T00BT40312-64200	PBBT40 BL 64-200	63.5	2.50"	200	7.874"
T00BT50312-99200	PBBT50 BL 99-200	99	3.90"	200	7.874"
T00BT50312-99280	PBBT50 BL 99-280	99	3.90"	280	11.024"

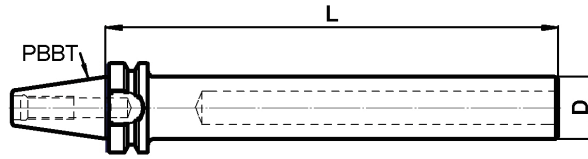
Order Number Instruction



**TEST ARBOR - G002 *Hollow* / GS02 *Solid***

**Quality**

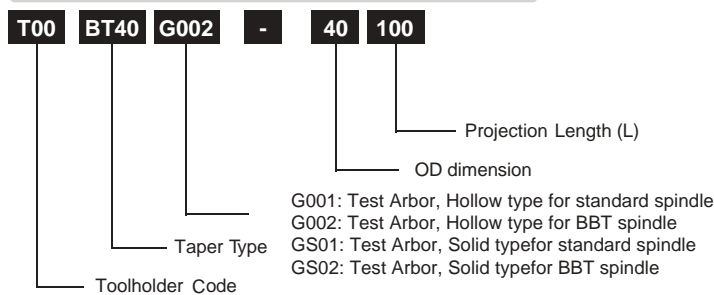
- Taper Angle Tolerance: AT1
- Case Hardness: HRC 58±2
- Runout: 0.002mm (0.00008")
- Cylindricity: 0.003mm ( 0.00012")



**PBBT TEST ARBOR METRIC**

Order Number	Part Name	OD	L
T00BT30G002-32235	PBBT30 G002 32-235	32	235
T00BT30GS02-32200	PBBT30 GS02 32-200	32	200
T00BT40G002-40320	PBBT40 G002 40-320	40	320
T00BT40GS02-40320	PBBT40 GS02 40-320	40	320
T00BT50G002-50320	PBBT50 G002 50-320	50	320
T00BT50GS02-50320	PBBT50 GS02 50-320	50	320

**Order Number Instruction**





## ***INFINITE*** TOOL HOLDER

***INFINITE*** Combination

***INFINITE*** Flexibility

***INFINITE*** Tooling efficiency

***INFINITE*** Rigidity

***INFINITE*** Performance,

and much more...

## **I** SYSTEM TOOL HOLDER

**I** SYSTEM - IR BASE

**I** SYSTEM - IR EXTENSION BASE

**IPE** SYSTEM - IR BASE

**IPE** SYSTEM - IR EXTENSION CHUCK

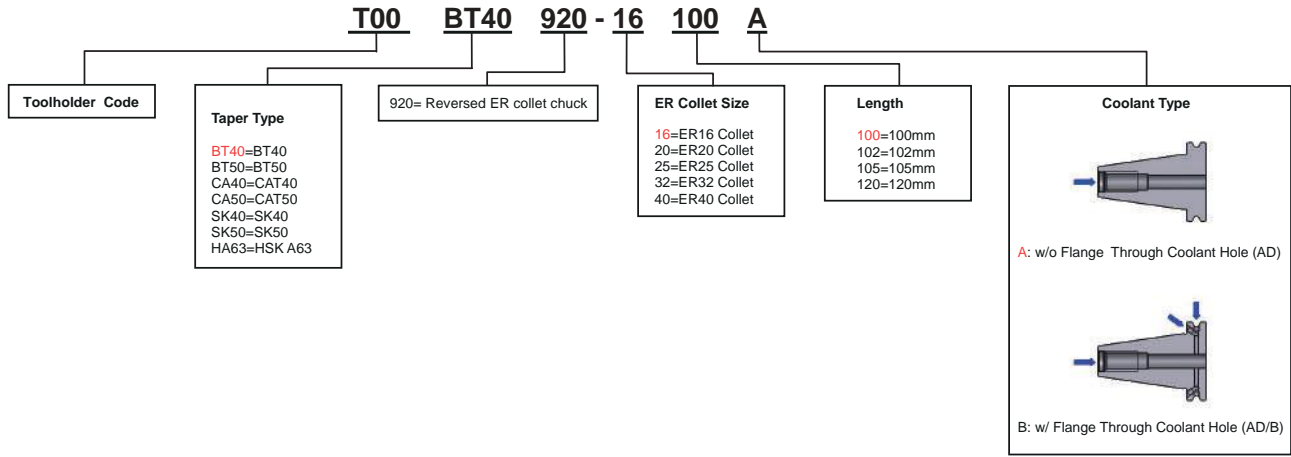


# I SYSTEM TOOL HOLDERS (INFINITE)

## Order Number Instruction

**I SYSTEM** Toolholder: Reversed ER Collet Chuck

Example: T00BT40920-16100A

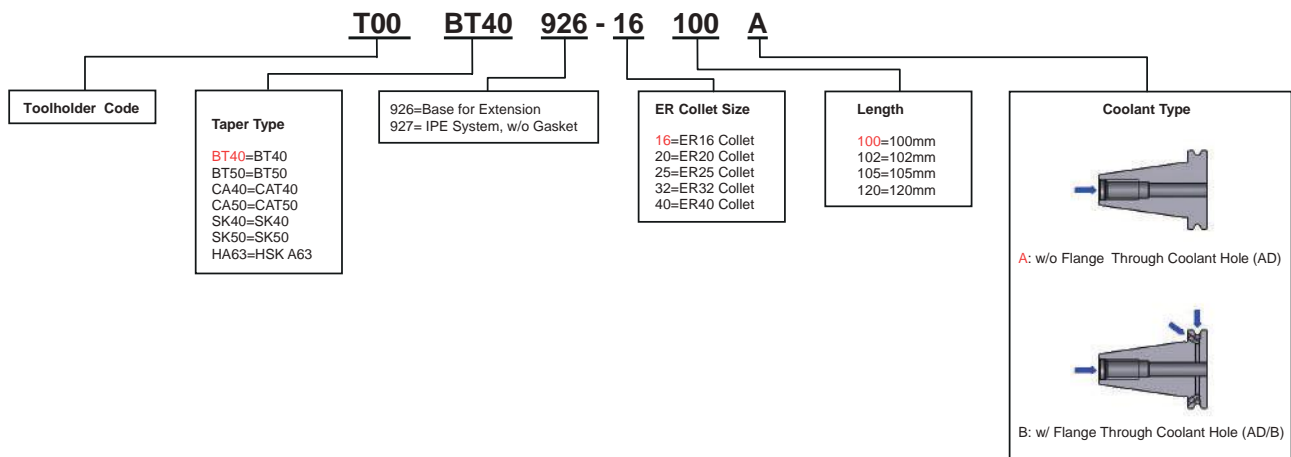


**Note**

**Example:** T00BT40920-16100A Reversed Collet Chuck, the part name is BT40 ER16-100-IN

**I SYSTEM** Toolholder: Base for Extension

Example: T00BT40926-16100A

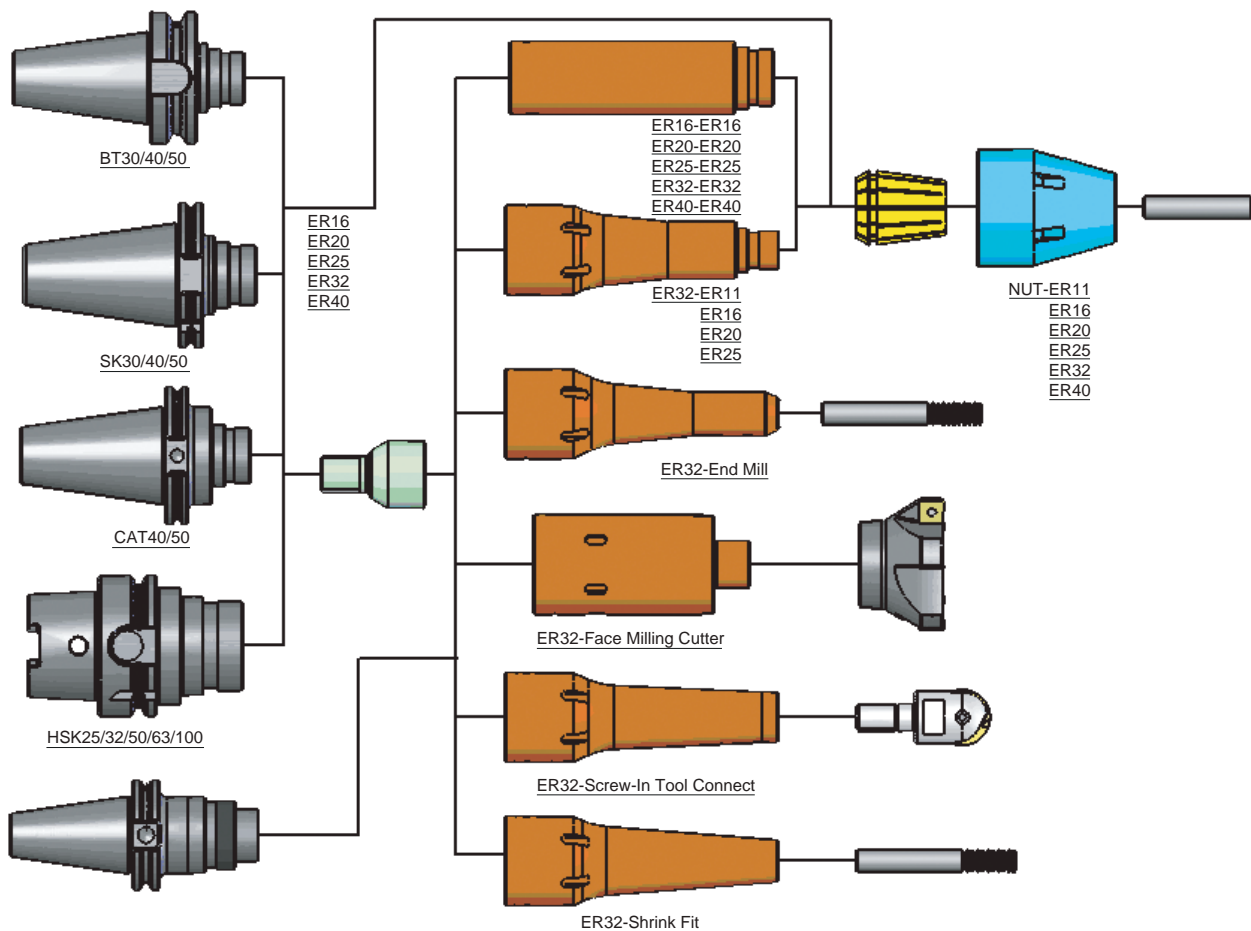


**Note**

- 1.Example:** T00BT40926-16100 for bade extension, part name is BT40 ER 16-100-EX
- Please refer to our I-system extensions for you appropriate assembly needs.

# REVOLUTIONARY TOOL HOLDER MODULE

*Simultaneously providing flexibility and stability,  
State of the art engineering and ingenuity make infinite combinations possible and simple.  
Super powerful clamping force, surpassing conventional ER collet type or shrink fit chuck.*



With the invention of PrimeTool **INFINITE** SYSTEM, tooling system is getting smarter than ever. Imagine how different it will mean to your investment and machining requirements if one system can provide all the solutions you need for different applications!

PrimeTool makes the impossible task become a reality by introducing our **INFINITE** SYSTEM tooling system.

At present, high-precision metal machining, such as drilling, reaming, boring, thread milling, inner/outer diameter drilling, or surface milling, usually require many different types of toolholders and cutters. Therefore, huge efforts are required to procure toolholders for different specific functions. It is an even more daunting task to manage their various characteristics such as precision, clamping force, and different fields of applications.

PrimeTool **INFINITE** SYSTEM utilize the concept of modulization to resolve this problem. By using one patent toolholder base, we can add to it many different extension adapters, which will then be coupled with its specific cutters.

For example, as shown in our diagram, users can choose to connect to their toolholder base to an ER collet cutter or a face milling cutter simply by changing the extension adapter. Many functions can then be created by switching to different extension adapters. The length and diameter of the extension adapters can even be flexible to provide many different needs of applications.

# BENEFITS AND ADVANTAGES

- **Interchangeability:**  
With same assortment of extension adapters, **INFINITE SYSTEM** can be applied to all kinds of spindle types and provide a maximum combinations of choices and cost effectiveness.
- **Multiple-functions:**  
Applicable to ER collets, end milling, combi shell milling, screw-in tool connect, shrink fit, and many more.
- **Superior clamping force:**  
Reverse ER Collet-to-Nut assembly provides more contact area and friction force than traditional assembly.
- **Flexible in length:**  
Multiple length extensions can meet customer's various applications.
- **Excellent concentricity:**  
Shank with connector design or integrated shank design can offer excellent concentricity.
- **Minimized machining interference:**  
Small-diameter nut design decreases machining interference.
- **Available for dual face contact:**  
Improving machining precision and quality.

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## Fixture Connector

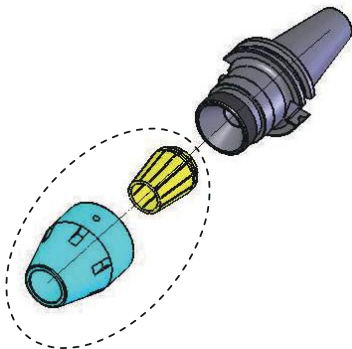


The **INFINITE SYSTEM** is extremely precise in terms of its concentricity, thanks to our patented design of an interior fixture connector between the toolholder base and the extension rod. This connector provides a very precise fit between the extension rod and toolholder base, and also enhances the overall tooling system rigidity.

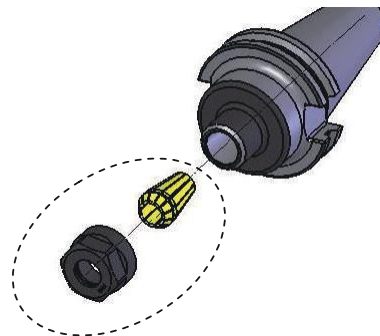
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## Reversed Collet-to-Nut Design

Reversed Collet-to-Nut



Conventional Collet-to-Nut



**INFINITE SYSTEM** includes the special design of reversed mounting a conventional ER collet and its redesigned collet nut. Conventional ER collet clamping often results in insufficient clamping force when encountered with heavier cutting applications. In our new design, due to smaller nut front than conventional ER nut, the length of the cutter does not need to be extended as far while still adding much needed clearance in difficult and tight machining applications. This design increases the contact area of the cutter with the tool chuck apparatus, and reduces the impact of external forces, thus machining precision of the cutter is significantly improved.

For heavy duty machining applications, the **INFINITE SYSTEM** can easily meet any strict requirements for precision and efficiency.

Now we bring you a “one that fits all” system. It not only replaces many specific function toolholders but also *surpasses* their performance in many ways!

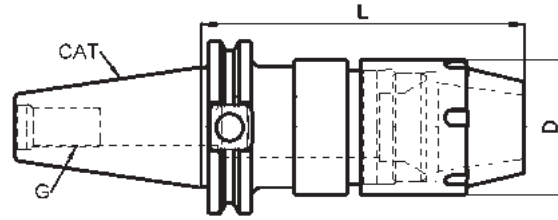
**INFINITE TOOL HOLDER**

**REVERSED ER COLLET CHUCK - 920**

**CAT 40-50**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**CAT40 I SYSTEM, REVERSED ER COLLET CHUCK INCH**

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA40920-11102A	CAT40 ER11-4.00"-IN	ER11	4.00"	1/16"~1/4"	0.75"	4.00"	5/8"-11
T00CA40920-16102A	CAT40 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	
T00CA40920-20102A	CAT40 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA40920-25102A	CAT40 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA40920-32120A	CAT40 ER32-4.72"-IN	ER32	4.72"	3/32"~3/4"	1.97"	4.72"	
T00CA40920-40120A	CAT40 ER40-4.72"-IN	ER40	4.72"	1/8"~1"	2.48"	4.72"	

**CAT50 I SYSTEM, REVERSED ER COLLET CHUCK INCH**

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA50920-16102A	CAT50 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	1"-8
T00CA50920-20102A	CAT50 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA50920-25102A	CAT50 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA50920-32102A	CAT50 ER32-4.00"-IN	ER32	4.00"	3/32"~3/4"	1.97"	4.00"	
T00CA50920-40105A	CAT50 ER40-4.13"-IN	ER40	4.13"	1/8"~1"	2.48"	4.13"	

**CAT IR EXTENSION BASE - 926**

**CAT40 I SYSTEM, IR EXTENSION BASE INCH**

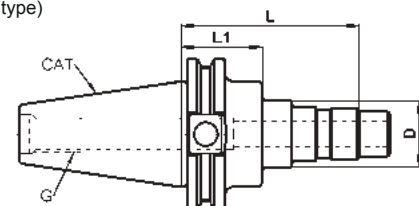
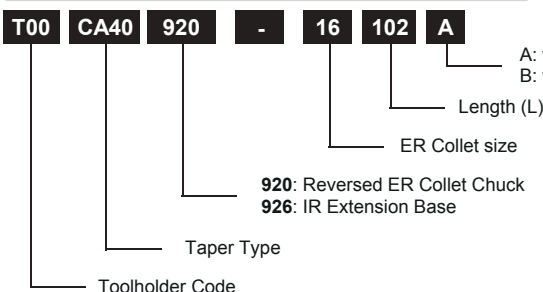
Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA40926-08072A	CAT40 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	5/8"-11
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA40926-11102A	CAT40 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA40926-16102A	CAT40 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA40926-20102A	CAT40 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA40926-25102A	CAT40 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA40926-32120A	CAT40 IR32-4.72"-EX	IR32	4.72"	X	1.97"	3.29"	2.146"	
T00CA40926-32120AG	CAT40 IR32-4.72"-EXG	IR32	4.72"	X	1.97"	3.29"	2.146"	
T00CA40926-40120A	CAT40 IR40-4.72"-EX	IR40	4.72"	X	2.48"	3.11"	1.988"	

**CAT50 I SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA50926-08072A	CAT50 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	1"-8
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA50926-11102A	CAT50 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA50926-16102A	CAT50 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA50926-20102A	CAT50 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA50926-25102A	CAT50 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA50926-32102A	CAT50 IR32-4.00"-EX	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50926-32102AG	CAT50 IR32-4.00"-EXG	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50926-40105A	CAT50 IR40-4.13"-EX	IR40	4.13"	X	2.75"	2.52"	1.398"	



**Order Number Instruction**



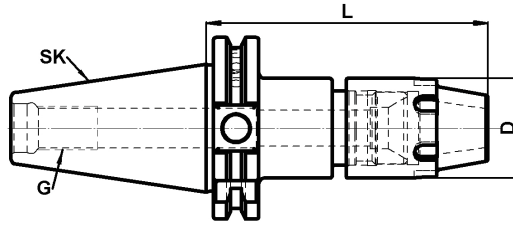
**INFINITE TOOL HOLDER**

**REVERSED ER COLLET CHUCK - 920**

**SK 40-50**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness:HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**SK40 I SYSTEM, REVERSED ER COLLET CHUCK METRIC**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK40920-11100A	SK40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00SK40920-16100A	SK40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK40920-20100A	SK40 ER20-100-IN	ER20	100	1~13	34	100	
T00SK40920-25100A	SK40 ER25-100-IN	ER25	100	1~16	42	100	
T00SK40920-32100A	SK40 ER32-100-IN	ER32	100	2~20	50	100	
T00SK40920-40120A	SK40 ER40-120-IN	ER40	120	3~26	63	120	

**SK50 I SYSTEM, REVERSED ER COLLET CHUCK METRIC**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK50920-11100A	SK50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00SK50920-16100A	SK50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK50920-20100A	SK50 ER20-100-IN	ER20	100	1~13	34	100	
T00SK50920-25100A	SK50 ER25-100-IN	ER25	100	1~16	42	100	
T00SK50920-32100A	SK50 ER32-100-IN	ER32	100	2~20	50	100	
T00SK50920-40105A	SK50 ER40-105-IN	ER40	105	3~26	63	105	

**SK IR EXTENSION BASE - 926**

**SK40 I SYSTEM, IR EXTENSION BASE METRIC**

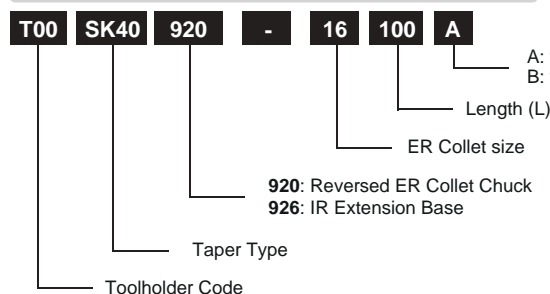
Order Number	Part Name	Base	Length	D	L	L1	G
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50	12	49	30.6	M16
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK40926-11070A	SK40 IR11-070-EX	IR11	70	19	53	35.0	
T00SK40926-16100A	SK40 IR16-100-EX	IR16	100	28	75	46.0	
T00SK40926-20100A	SK40 IR20-100-EX	IR20	100	34	72	45.0	
T00SK40926-25100A	SK40 IR25-100-EX	IR25	100	42	69	38.0	
T00SK40926-32100A	SK40 IR32-100-EX	IR32	100	50	64	34.5	
T00SK40926-32100AG	SK40 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK40926-40120A	SK40 IR40-120-EX	IR40	120	63	79	50.5	

**SK50 I SYSTEM, IR EXTENSION BASE METRIC**

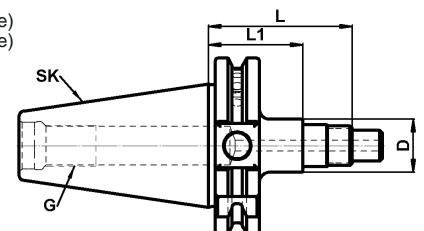
Order Number	Part Name	Base	Length	D	L	L1	G
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50	12	49	30.6	M24
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK50926-11100A	SK50 IR11-100-EX	IR11	100	19	83	65.0	
T00SK50926-16100A	SK50 IR16-100-EX	IR16	100	28	75	46.0	
T00SK50926-20100A	SK50 IR20-100-EX	IR20	100	34	72	45.0	
T00SK50926-25100A	SK50 IR25-100-EX	IR25	100	42	69	38.0	
T00SK50926-32100A	SK50 IR32-100-EX	IR32	100	50	64	34.5	
T00SK50926-32110AG	SK50 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK50926-40105A	SK50 IR40-105-EX	IR40	105	63	64	35.5	
T00SK50926-41105A	SK50 IR41-105-EX	IR41	105	70	64	35.5	



**Order Number Instruction**



A: w/o flange through coolant, standard (AD type)  
 B: w/ flange through coolant, optional (AD/B type)



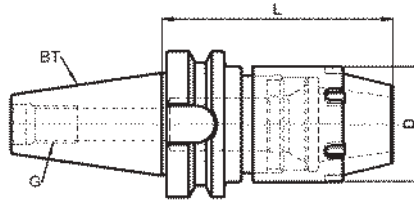
**INFINITE TOOL HOLDER**

**REVERSED ER COLLET CHUCK - 920**

**BT 30-40-50**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**BT30 I SYSTEM, REVERSED ER COLLET CHUCK METRIC**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT30920-11100A	BT30 ER11-100-IN	ER11	100	0.5~7	19	100	M12
T00BT30920-16100A	BT30 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT30920-20100A	BT30 ER20-100-IN	ER20	100	1~13	34	100	
T00BT30920-25100A	BT30 ER25-100-IN	ER25	100	1~16	42	100	
T00BT30920-32100A	BT30 ER32-100-IN	ER32	100	2~20	50	100	

**BT40 I SYSTEM, REVERSED ER COLLET CHUCK METRIC**

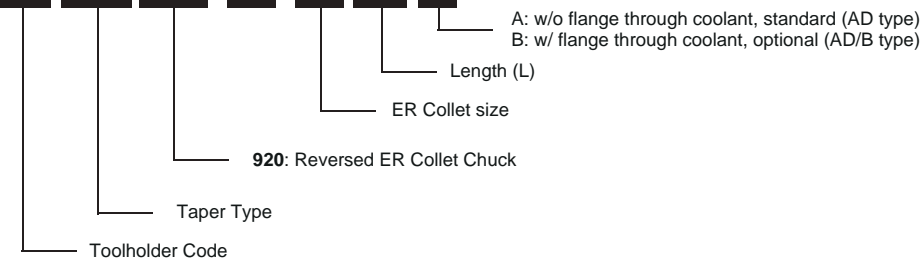
Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT40920-11100A	BT40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00BT40920-16100A	BT40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT40920-20100A	BT40 ER20-100-IN	ER20	100	1~13	34	100	
T00BT40920-25100A	BT40 ER25-100-IN	ER25	100	1~16	42	100	
T00BT40920-32100A	BT40 ER32-100-IN	ER32	100	2~20	50	100	
T00BT40920-40100A	BT40 ER40-100-IN	ER40	100	3~26	63	100	

**BT50 I SYSTEM, REVERSED ER COLLET CHUCK METRIC**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT50920-11100A	BT50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00BT50920-16100A	BT50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT50920-20100A	BT50 ER20-100-IN	ER20	100	1~13	34	100	
T00BT50920-25110A	BT50 ER25-110-IN	ER25	110	1~16	42	110	
T00BT50920-32110A	BT50 ER32-110-IN	ER32	110	2~20	50	110	
T00BT50920-40120A	BT50 ER40-120-IN	ER40	120	3~26	63	120	

**Order Number Instruction**

**T00 BT40 920 - 16 100 A**



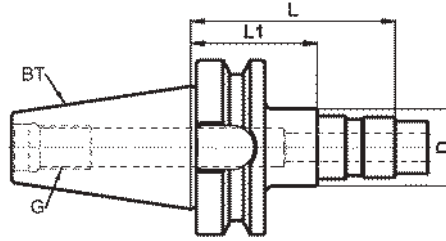
INFINITE TOOL HOLDER

BT IR EXTENSION BASE - 926

BT 30-40-50

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



BT30 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70	12	69	50.6	M12
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT30926-11100A	BT30 IR11-100-EX	IR11	100	19	83	65.0	
T00BT30926-16100A	BT30 IR16-100-EX	IR16	100	28	75	46.0	
T00BT30926-20100A	BT30 IR20-100-EX	IR20	100	34	72	45.0	
T00BT30926-25100A	BT30 IR25-100-EX	IR25	100	42	69	38.0	
T00BT30926-32100A	BT30 IR32-100-EX	IR32	100	50	64	34.5	
T00BT30926-32100AG	BT30 IR32-100-EXG	IR32	100	50	64	34.5	

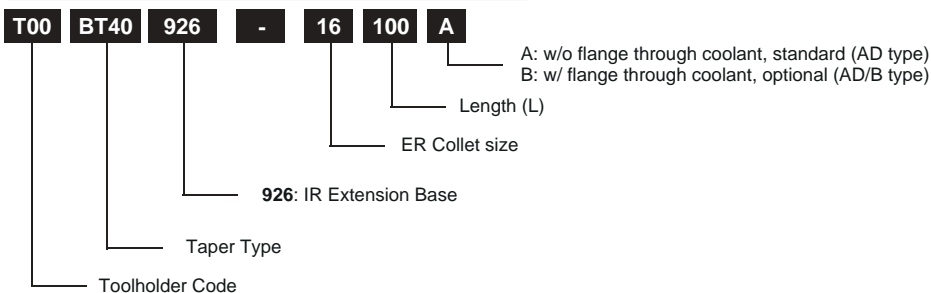
BT40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70	12	69	50.6	M16
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT40926-11070A	BT40 IR11-070-EX	IR11	70	19	53	35.0	
T00BT40926-11100A	BT40 IR11-100-EX	IR11	100	19	83	65.0	
T00BT40926-16100A	BT40 IR16-100-EX	IR16	100	28	75	46.0	
T00BT40926-20100A	BT40 IR20-100-EX	IR20	100	34	72	45.0	
T00BT40926-25100A	BT40 IR25-100-EX	IR25	100	42	69	38.0	
T00BT40926-32100A	BT40 IR32-100-EX	IR32	100	50	64	34.5	
T00BT40926-32100AG	BT40 IR32-100-EXG	IR32	100	50	64	34.5	
T00BT40926-40100A	BT40 IR40-100-EX	IR40	100	63	59	30.5	

BT50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70	12	69	50.6	M24
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT50926-11100A	BT50 IR11-100-EX	IR11	100	19	83	65.0	
T00BT50926-16100A	BT50 IR16-100-EX	IR16	100	28	75	46.0	
T00BT50926-20100A	BT50 IR20-100-EX	IR20	100	34	72	45.0	
T00BT50926-25110A	BT50 IR25-110-EX	IR25	110	42	79	48.0	
T00BT50926-32110A	BT50 IR32-110-EX	IR32	110	50	74	44.5	
T00BT50926-32110AG	BT50 IR32-110-EXG	IR32	110	50	74	44.5	
T00BT50926-40120A	BT50 IR40-120-EX	IR40	120	63	79	50.5	
T00BT50926-42120A	BT50 IR42-120-EX	IR42	120	85	79	50.5	

Order Number Instruction





## ***IPE*** SYSTEM TOOL HOLDER

***EXTREME INFINITE*** Combination

***EXTREME INFINITE*** Flexibility

***EXTREME INFINITE*** Tooling efficiency

***EXTREME INFINITE*** Rigidity

***EXTREME INFINITE*** Performance,

and much more...

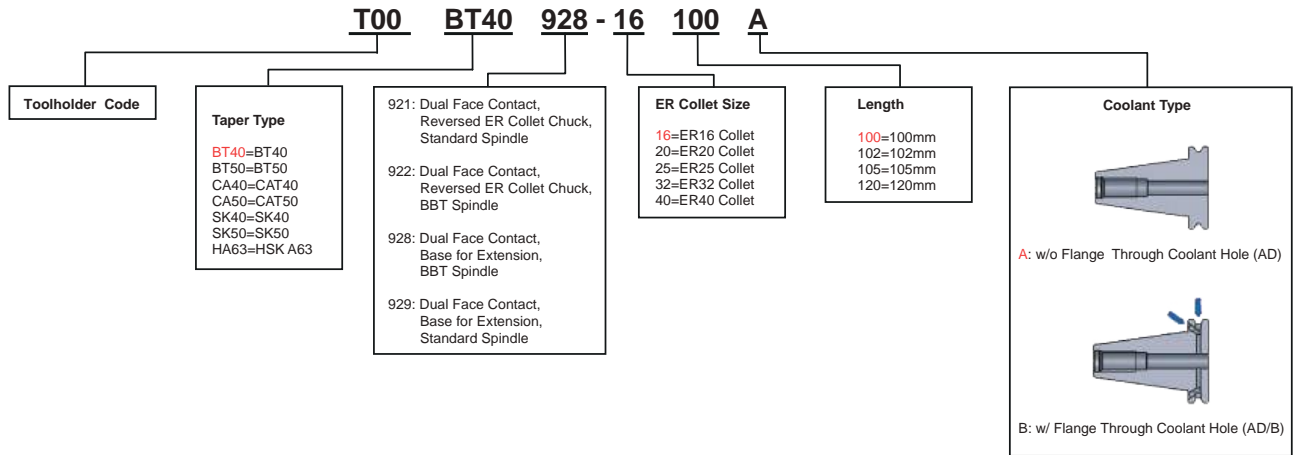
## ***IPE*** SYSTEM TOOL HOLDERS

**IPE** SYSTEM - **REVERSED** ER COLLET CHUCK

**IPE** SYSTEM - **IR** EXTENSION BASE



Example: T00BT40928-16100A



**Note**

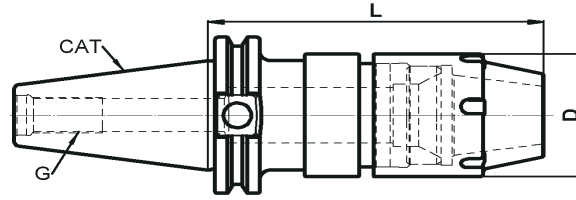
**Example:** T00BT40920-16100A Dual face contact, Reversed ER collet chuck, the part name is PBBT40 ER16-100-IN for BBT Spindle

**REVERSED ER COLLET CHUCK - 921**

**PCAT 40-50**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PCAT40 IPE SYSTEM, REVERSED ER COLLET CHUCK INCH, STANDARD SPINDLE**

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA40921-11102A	PCAT40 ER11-4.00"-IN	ER11	4.00"	1/16"~1/4"	0.75"	4.00"	5/8"-11
T00CA40921-16102A	PCAT40 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	
T00CA40921-20102A	PCAT40 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA40921-25102A	PCAT40 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA40921-32120A	PCAT40 ER32-4.72"-IN	ER32	4.72"	3/32"~3/4"	1.97"	4.72"	
T00CA40921-40120A	PCAT40 ER40-4.72"-IN	ER40	4.72"	1/8"~1"	2.48"	4.72"	

**PCAT50 IPE SYSTEM, REVERSED ER COLLET CHUCK INCH, STANDARD SPINDLE**

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA50921-16102A	PCAT50 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	1"-8
T00CA50921-20102A	PCAT50 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA50921-25102A	PCAT50 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA50921-32102A	PCAT50 ER32-4.00"-IN	ER32	4.00"	3/32"~3/4"	1.97"	4.00"	
T00CA50921-40105A	PCAT50 ER40-4.13"-IN	ER40	4.13"	1/8"~1"	2.48"	4.13"	

**PCAT IR EXTENSION BASE - 929**

**PCAT40 IPE SYSTEM, IR EXTENSION BASE INCH, STANDARD SPINDLE**

Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA40929-08072A	PCAT40 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	5/8"-11
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA40929-11102A	PCAT40 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA40929-16102A	PCAT40 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA40929-20102A	PCAT40 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA40929-25102A	PCAT40 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA40929-32120A	PCAT40 IR32-4.72"-EX	IR32	4.72"	X	1.97"	3.29"	2.421"	1"-8
T00CA40929-32120AG	PCAT40 IR32-4.72"-EXG	IR32	4.72"	X	1.97"	3.29"	2.421"	
T00CA40929-40120A	PCAT40 IR40-4.72"-EX	IR40	4.72"	X	2.48"	3.11"	1.988"	

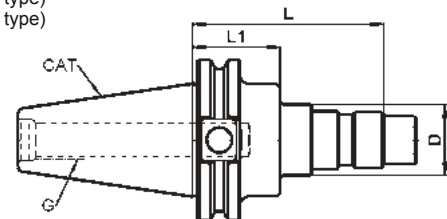
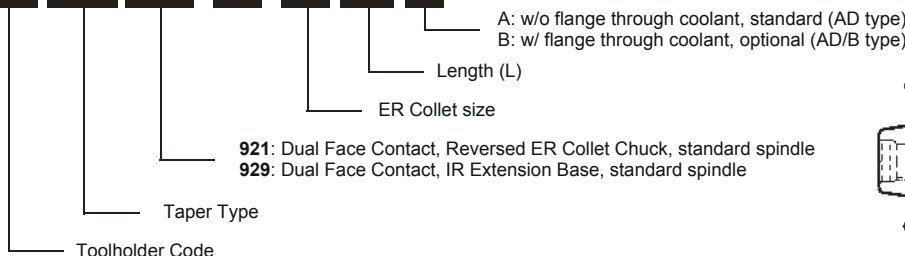
**PCAT50 IPE SYSTEM, IR EXTENSION BASE INCH, STANDARD SPINDLE**

Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	1"-8
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA50929-11102A	PCAT50 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA50929-16102A	PCAT50 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA50929-20102A	PCAT50 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA50929-25102A	PCAT50 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA50929-32102A	PCAT50 IR32-4.00"-EX	IR32	4.00"	X	2.75"	2.56"	1.421"	1"-8
T00CA50929-32102AG	PCAT50 IR32-4.00"-EXG	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50929-40105A	PCAT50 IR40-4.13"-EX	IR40	4.13"	X	2.75"	2.52"	1.398"	



**Order Number Instruction**

**T00 CA40 921 - 16 102 A**

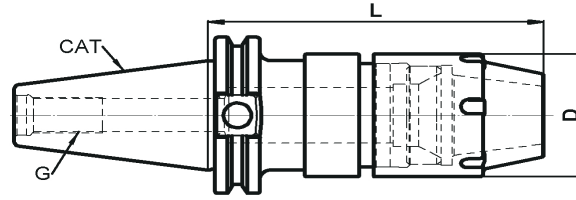


**REVERSED ER COLLET CHUCK - 922**

**PBCAT 40-50**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBCAT40 IPE SYSTEM, REVERSED ER COLLET CHUCK INCH, BBT SPINDLE**

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA40922-11102A	PBCAT40 ER11-4.00"-IN	ER11	4.00"	1/16"~1/4"	0.75"	4.00"	5/8"-11
T00CA40922-16102A	PBCAT40 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	
T00CA40922-20102A	PBCAT40 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA40922-25102A	PBCAT40 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA40922-32120A	PBCAT40 ER32-4.72"-IN	ER32	4.72"	3/32"~3/4"	1.97"	4.72"	
T00CA40922-40120A	PBCAT40 ER40-4.72"-IN	ER40	4.72"	1/8"~1"	2.48"	4.72"	

**PBCAT50 IPE SYSTEM, REVERSED ER COLLET CHUCK INCH, BBT SPINDLE**

Order Number	Part Name	Base	Length	Range	D	L	G
T00CA50922-16102A	PBCAT50 ER16-4.00"-IN	ER16	4.00"	1/16"~13/32"	1.10"	4.00"	1"-8
T00CA50922-20102A	PBCAT50 ER20-4.00"-IN	ER20	4.00"	1/16"~1/2"	1.34"	4.00"	
T00CA50922-25102A	PBCAT50 ER25-4.00"-IN	ER25	4.00"	1/16"~5/8"	1.66"	4.00"	
T00CA50922-32102A	PBCAT50 ER32-4.00"-IN	ER32	4.00"	3/32"~3/4"	1.97"	4.00"	
T00CA50922-40105A	PBCAT50 ER40-4.13"-IN	ER40	4.13"	1/8"~1"	2.48"	4.13"	

**PBCAT IR EXTENSION BASE - 928**

**PBCAT40 IPE SYSTEM, IR EXTENSION BASE INCH, BBT SPINDLE**

Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	5/8"-11
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA40928-11102A	PBCAT40 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA40928-16102A	PBCAT40 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA40928-20102A	PBCAT40 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA40928-25102A	PBCAT40 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA40928-32120A	PBCAT40 IR32-4.72"-EX	IR32	4.72"	X	1.97"	3.29"	2.146"	
T00CA40928-32120AG	PBCAT40 IR32-4.72"-EXG	IR32	4.72"	X	1.97"	3.29"	2.146"	
T00CA40928-40120A	PBCAT40 IR40-4.72"-EX	IR40	4.72"	X	2.48"	3.11"	1.988"	

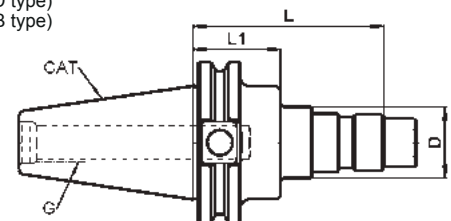
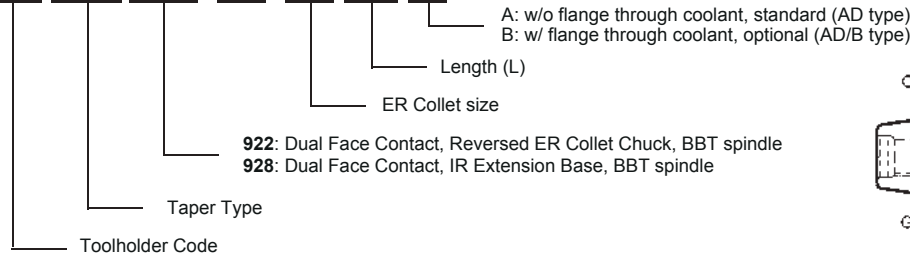
**PBCAT50 IPE SYSTEM, IR EXTENSION BASE INCH, BBT SPINDLE**

Order Number	Part Name	Base	Length	Range	D	L	L1	G
T00CA50928-08072A	PBCAT50 IR08-2.82"-EX	IR08	2.82"	X	0.47"	2.78"	2.055"	1"-8
T00CA50928-8S072A	PBCAT50 IR8S-2.82"-EX	IR8S	2.82"	X	0.63"	2.78"	2.055"	
T00CA50928-11102A	PBCAT50 IR11-4.00"-EX	IR11	4.00"	X	0.75"	3.33"	2.622"	
T00CA50928-16102A	PBCAT50 IR16-4.00"-EX	IR16	4.00"	X	1.10"	3.00"	1.874"	
T00CA50928-20102A	PBCAT50 IR20-4.00"-EX	IR20	4.00"	X	1.34"	2.88"	1.835"	
T00CA50928-25102A	PBCAT50 IR25-4.00"-EX	IR25	4.00"	X	1.66"	2.78"	1.559"	
T00CA50928-32102A	PBCAT50 IR32-4.00"-EX	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50928-32102AG	PBCAT50 IR32-4.00"-EXG	IR32	4.00"	X	2.75"	2.56"	1.421"	
T00CA50928-40105A	PBCAT50 IR40-4.13"-EX	IR40	4.13"	X	2.75"	2.52"	1.398"	



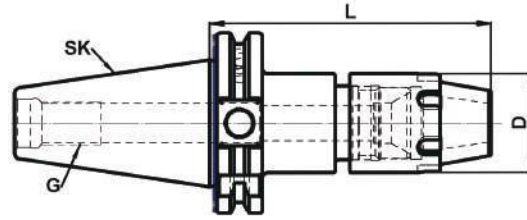
**Order Number Instruction**

**T00 CA40 922 - 16 102 A**



**REVERSED ER COLLET CHUCK - 921**

- Quality**
- Taper Angle Tolerance: AT3+
  - Case Hardness: HRC 56 ± 2
  - Seat Runout: 0.003mm (0.00012")
  - Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PSK40 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC STANDARD SPINDLE**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK40921-11100A	PSK40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00SK40921-16100A	PSK40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK40921-20100A	PSK40 ER20-100-IN	ER20	100	1~13	34	100	
T00SK40921-25100A	PSK40 ER25-100-IN	ER25	100	1~16	42	100	
T00SK40921-32100A	PSK40 ER32-100-IN	ER32	100	2~20	50	100	
T00SK40921-40120A	PSK40 ER40-120-IN	ER40	120	3~26	63	120	

**PSK50 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC STANDARD SPINDLE**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK50921-11100A	PSK50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00SK50921-16100A	PSK50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK50921-20100A	PSK50 ER20-100-IN	ER20	100	1~13	34	100	
T00SK50921-25100A	PSK50 ER25-100-IN	ER25	100	1~16	42	100	
T00SK50921-32100A	PSK50 ER32-100-IN	ER32	100	2~20	50	100	
T00SK50921-40105A	PSK50 ER40-105-IN	ER40	105	3~26	63	105	

**PSK IR EXTENSION BASE - 929**

**PSK40 IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	Length	D	L	L1	G
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50	12	49	30.6	M16
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK40929-11070A	PSK40 IR11-070-EX	IR11	70	19	53	35.0	
T00SK40929-16100A	PSK40 IR16-100-EX	IR16	100	28	75	46.0	
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100	34	72	45.0	
T00SK40929-25100A	PSK40 IR25-100-EX	IR25	100	42	69	38.0	
T00SK40929-32100A	PSK40 IR32-100-EX	IR32	100	50	64	34.5	
T00SK40929-32100AG	PSK40 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK40929-40120A	PSK40 IR40-120-EX	IR40	120	63	79	50.5	

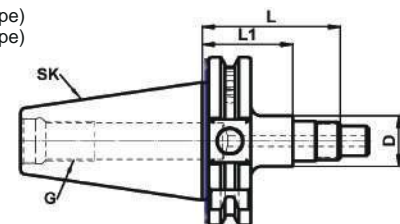
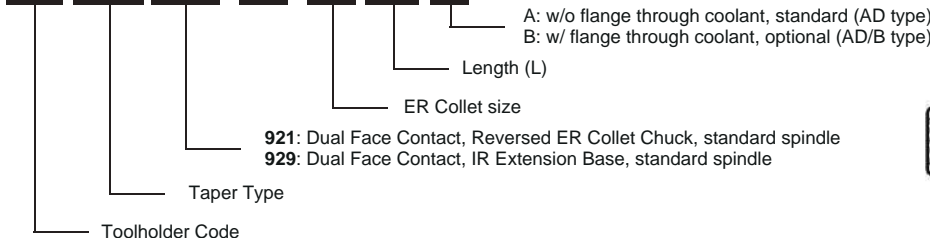


**PSK50 IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	Length	D	L	L1	G
T00SK50929-08050A	PSK50 IR08-050-EX	IR08	50	12	49	30.6	M24
T00SK50929-8S050A	PSK50 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK50929-11100A	PSK50 IR11-100-EX	IR11	100	19	83	65.0	
T00SK50929-16100A	PSK50 IR16-100-EX	IR16	100	28	75	46.0	
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100	34	72	45.0	
T00SK50929-25100A	PSK50 IR25-100-EX	IR25	100	42	69	38.0	
T00SK50929-32100A	PSK50 IR32-100-EX	IR32	100	50	74	34.5	
T00SK50929-32100AG	PSK50 IR32-100-EXG	IR32	100	50	74	34.5	
T00SK50929-40105A	PSK50 IR40-105-EX	IR40	105	63	79	35.5	
T00SK50929-41105A	PSK50 IR41-105-EX	IR41	105	70	79	35.5	

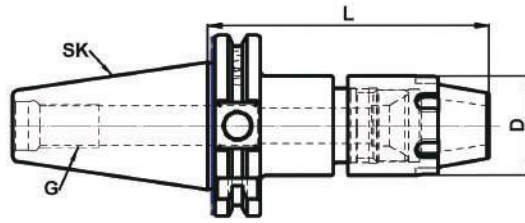
**Order Number Instruction**

**T00 SK40 921 - 16 100 A**



**REVERSED ER COLLET CHUCK - 922**

- Quality**
- Taper Angle Tolerance: AT3+
  - Case Hardness: HRC 56 ± 2
  - Seat Runout: 0.003mm (0.00012")
  - Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBSK40 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC, BBT SPINDLE**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK40922-11100A	PBSK40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00SK40922-16100A	PBSK40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK40922-20100A	PBSK40 ER20-100-IN	ER20	100	1~13	34	100	
T00SK40922-25100A	PBSK40 ER25-100-IN	ER25	100	1~16	42	100	
T00SK40922-32100A	PBSK40 ER32-100-IN	ER32	100	2~20	50	100	
T00SK40922-40120A	PBSK40 ER40-120-IN	ER40	120	3~26	63	120	

**PBSK50 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC, BBT SPINDLE**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00SK50922-11100A	PBSK50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00SK50922-16100A	PBSK50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00SK50922-20100A	PBSK50 ER20-100-IN	ER20	100	1~13	34	100	
T00SK50922-25100A	PBSK50 ER25-100-IN	ER25	100	1~16	42	100	
T00SK50922-32100A	PBSK50 ER32-100-IN	ER32	100	2~20	50	100	
T00SK50922-40105A	PBSK50 ER40-105-IN	ER40	105	3~26	63	105	

**PBSK IR EXTENSION BASE - 928**

**PBSK40 IPE SYSTEM, IR EXTENSION BASE METRIC, BBT SPINDLE**

Order Number	Part Name	Base	Length	D	L	L1	G
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50	12	49	30.6	M16
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK40928-11070A	PBSK40 IR11-070-EX	IR11	70	19	53	35.0	
T00SK40928-16100A	PBSK40 IR16-100-EX	IR16	100	28	75	46.0	
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100	34	72	45.0	
T00SK40928-25100A	PBSK40 IR25-100-EX	IR25	100	42	69	38.0	
T00SK40928-32100A	PBSK40 IR32-100-EX	IR32	100	50	64	34.5	
T00SK40928-32100AG	PBSK40 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK40928-40120A	PBSK40 IR40-120-EX	IR40	120	63	79	50.5	

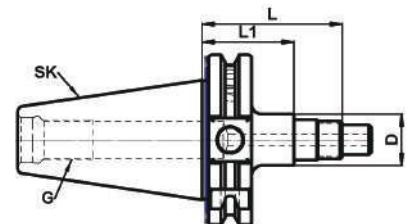
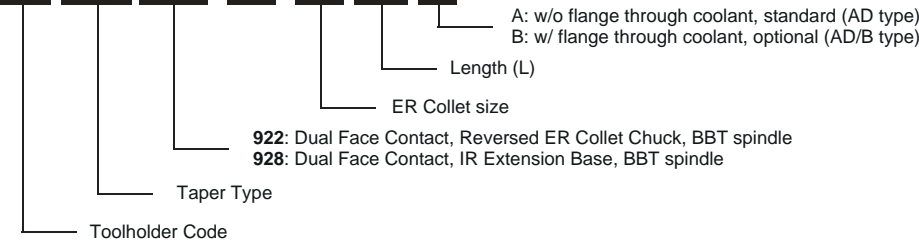


**PBSK50 IPE SYSTEM, IR EXTENSION BASE METRIC, BBT SPINDLE**

Order Number	Part Name	Base	Length	D	L	L1	G
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50	12	49	30.6	M24
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50	16	49	30.6	
T00SK50928-11100A	PBSK50 IR11-100-EX	IR11	100	19	83	65.0	
T00SK50928-16100A	PBSK50 IR16-100-EX	IR16	100	28	75	46.0	
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100	34	72	45.0	
T00SK50928-25100A	PBSK50 IR25-100-EX	IR25	100	42	69	38.0	
T00SK50928-32100A	PBSK50 IR32-100-EX	IR32	100	50	64	34.5	
T00SK50928-32100AG	PBSK50 IR32-100-EXG	IR32	100	50	64	34.5	
T00SK50928-40105A	PBSK50 IR40-105-EX	IR40	105	63	64	35.5	
T00SK50928-41105A	PBSK50 IR41-105-EX	IR41	105	70	64	35.5	

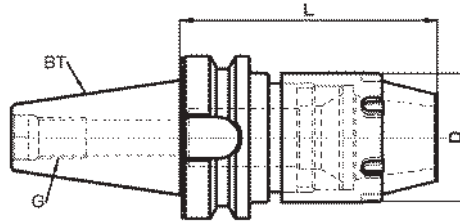
**Order Number Instruction**

**T00 SK40 922 - 16 100 A**



**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness:HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBT30 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC STANDARD SPINDLE**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT30921-11100A	PBT30 ER11-100-IN	ER11	100	0.5~7	19	100	M12
T00BT30921-16100A	PBT30 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT30921-20100A	PBT30 ER20-100-IN	ER20	100	1~13	34	100	
T00BT30921-25100A	PBT30 ER25-100-IN	ER25	100	1~16	42	100	
T00BT30921-32100A	PBT30 ER32-100-IN	ER32	100	2~20	50	100	

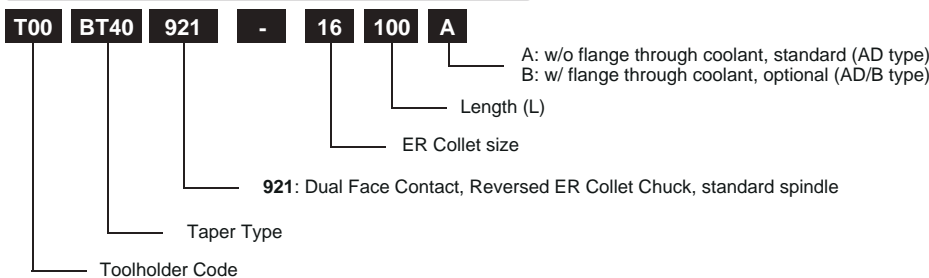
**PBT40 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC STANDARD SPINDLE**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT40921-11100A	PBT40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00BT40921-16100A	PBT40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT40921-20100A	PBT40 ER20-100-IN	ER20	100	1~13	34	100	
T00BT40921-25100A	PBT40 ER25-100-IN	ER25	100	1~16	42	100	
T00BT40921-32100A	PBT40 ER32-100-IN	ER32	100	2~20	50	100	
T00BT40921-40100A	PBT40 ER40-100-IN	ER40	100	3~26	63	100	

**PBT50 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC STANDARD SPINDLE**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT50921-11100A	PBT50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00BT50921-16100A	PBT50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT50921-20100A	PBT50 ER20-100-IN	ER20	100	1~13	34	100	
T00BT50921-25110A	PBT50 ER25-110-IN	ER25	110	1~16	42	110	
T00BT50921-32110A	PBT50 ER32-110-IN	ER32	110	2~20	50	110	
T00BT50921-40120A	PBT50 ER40-120-IN	ER40	120	3~26	63	120	

**Order Number Instruction**

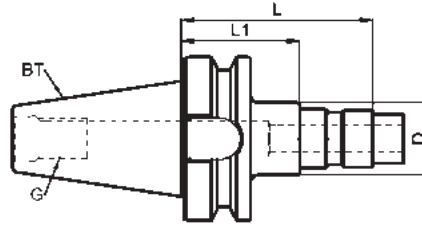


**PBT IR EXTENSION BASE - 929**

**PBT 30-40-50**

**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness:HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBT30 IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT30929-08070A	PBT30 IR8-070-EX	IR08	70	12	69	50.6	M12
T00BT30929-8S070A	PBT30 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT30929-11100A	PBT30 IR11-100-EX	IR11	100	19	83	65.0	
T00BT30929-16100A	PBT30 IR16-100-EX	IR16	100	28	75	46.0	
T00BT30929-20100A	PBT30 IR20-100-EX	IR20	100	34	72	45.0	
T00BT30929-25100A	PBT30 IR25-100-EX	IR25	100	42	69	38.0	
T00BT30929-32100A	PBT30 IR32-100-EX	IR32	100	50	64	34.5	
T00BT30929-32100AG	PBT30 IR32-100-EXG	IR32	100	50	64	34.5	

**PBT40 IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

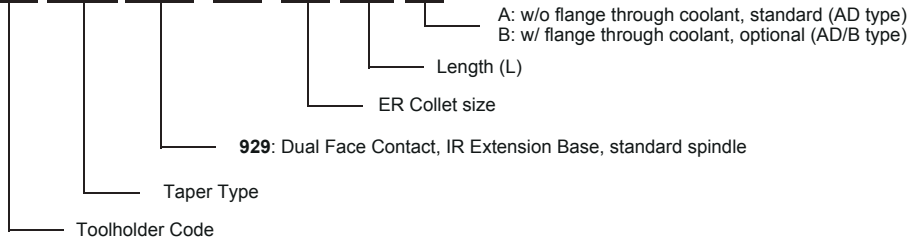
Order Number	Part Name	Base	Length	D	L	L1	G
T00BT40929-08070A	PBT40 IR8-070-EX	IR08	70	12	69	50.6	M16
T00BT40929-8S070A	PBT40 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT40929-11070A	PBT40 IR11-070-EX	IR11	70	19	53	35.0	
T00BT40929-11100A	PBT40 IR11-100-EX	IR11	100	19	83	65.0	
T00BT40929-16100A	PBT40 IR16-100-EX	IR16	100	28	75	46.0	
T00BT40929-20100A	PBT40 IR20-100-EX	IR20	100	34	72	45.0	
T00BT40929-25100A	PBT40 IR25-100-EX	IR25	100	42	69	38.0	
T00BT40929-32100A	PBT40 IR32-100-EX	IR32	100	50	64	34.5	
T00BT40929-32100AG	PBT40 IR32-100-EXG	IR32	100	50	64	34.5	
T00BT40929-40100A	PBT40 IR40-100-EX	IR40	100	63	59	30.5	

**PBT50 IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT50929-08070A	PBT50 IR8-070-EX	IR08	70	12	69	50.6	M24
T00BT50929-8S070A	PBT50 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT50929-11100A	PBT50 IR11-100-EX	IR11	100	19	83	65.0	
T00BT50929-16100A	PBT50 IR16-100-EX	IR16	100	28	75	46.0	
T00BT50929-20100A	PBT50 IR20-100-EX	IR20	100	34	72	45.0	
T00BT50929-25110A	PBT50 IR25-110-EX	IR25	110	42	79	48.0	
T00BT50929-32110A	PBT50 IR32-110-EX	IR32	110	50	74	44.5	
T00BT50929-32110AG	PBT50 IR32-110-EXG	IR32	110	50	74	44.5	
T00BT50929-40120A	PBT50 IR40-120-EX	IR40	120	63	79	50.5	
T00BT50929-42120A	PBT50 IR42-120-EX	IR42	120	85	79	50.5	

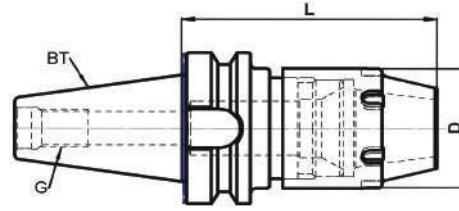
**Order Number Instruction**

**T00 BT40 929 - 16 100 A**



**Quality**

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



**PBBT30 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC, BBT SPINDLE**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT30922-11100A	PBBT30 ER11-100-IN	ER11	100	0.5~7	19	100	M12
T00BT30922-16100A	PBBT30 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT30922-20100A	PBBT30 ER20-100-IN	ER20	100	1~13	34	100	
T00BT30922-25100A	PBBT30 ER25-100-IN	ER25	100	1~16	42	100	
T00BT30922-32100A	PBBT30 ER32-100-IN	ER32	100	2~20	50	100	

**PBBT40 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC, BBT SPINDLE**

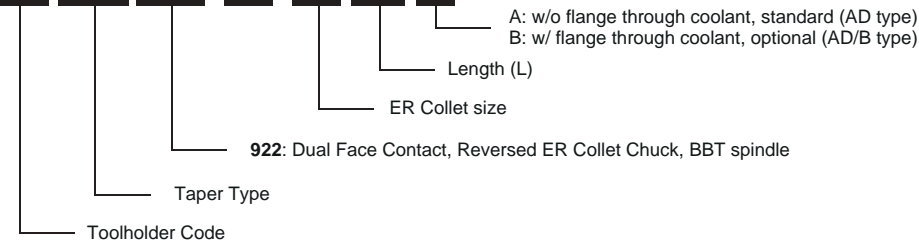
Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT40922-11100A	PBBT40 ER11-100-IN	ER11	100	0.5~7	19	100	M16
T00BT40922-16100A	PBBT40 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT40922-20100A	PBBT40 ER20-100-IN	ER20	100	1~13	34	100	
T00BT40922-25100A	PBBT40 ER25-100-IN	ER25	100	1~16	42	100	
T00BT40922-32100A	PBBT40 ER32-100-IN	ER32	100	2~20	50	100	
T00BT40922-40100A	PBBT40 ER40-100-IN	ER40	100	3~26	63	100	

**PBBT50 IPE SYSTEM, REVERSED ER COLLET CHUCK METRIC, BBT SPINDLE**

Order Number	Part Name	ER size	Length	Range	D	L	G
T00BT50922-11100A	PBBT50 ER11-100-IN	ER11	100	0.5~7	19	100	M24
T00BT50922-16100A	PBBT50 ER16-100-IN	ER16	100	0.5~10	28	100	
T00BT50922-20100A	PBBT50 ER20-100-IN	ER20	100	1~13	34	100	
T00BT50922-25110A	PBBT50 ER25-110-IN	ER25	110	1~16	42	110	
T00BT50922-32110A	PBBT50 ER32-110-IN	ER32	110	2~20	50	110	
T00BT50922-40120A	PBBT50 ER40-120-IN	ER40	120	3~26	63	120	

**Order Number Instruction**

**T00 BT40 922 - 16 100 A**



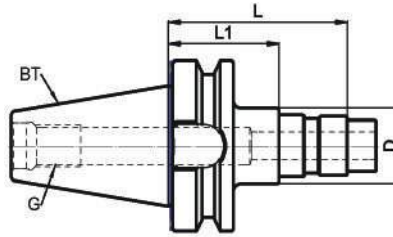


PBBT IR EXTENSION BASE - 928

PBBT 30-40-50

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



PBBT30 IPE SYSTEM, IR EXTENSION BASE METRIC, BBT SPINDLE

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70	12	69	50.6	M12
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT30928-11100A	PBBT30 IR11-100-EX	IR11	100	19	83	65.0	
T00BT30928-16100A	PBBT30 IR16-100-EX	IR16	100	28	75	46.0	
T00BT30928-20100A	PBBT30 IR20-100-EX	IR20	100	34	72	45.0	
T00BT30928-25100A	PBBT30 IR25-100-EX	IR25	100	42	69	38.0	
T00BT30928-32100A	PBBT30 IR32-100-EX	IR32	100	50	64	34.5	
T00BT30928-32100AG	PBBT30 IR32-100-EXG	IR32	100	50	64	34.5	

PBBT40 IPE SYSTEM, IR EXTENSION BASE METRIC, BBT SPINDLE

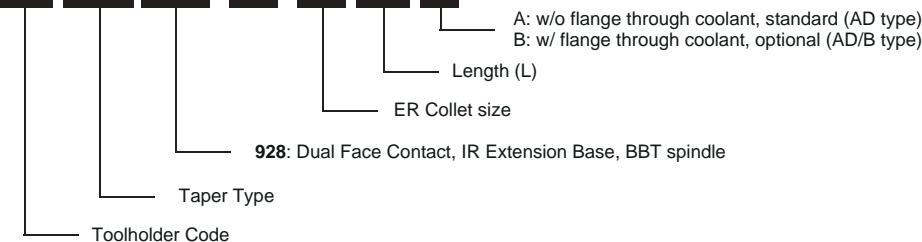
Order Number	Part Name	Base	Length	D	L	L1	G
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70	12	69	50.6	M16
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT40928-11070A	PBBT40 IR11-070-EX	IR11	70	19	53	35.0	
T00BT40928-11100A	PBBT40 IR11-100-EX	IR11	100	19	83	65.0	
T00BT40928-16100A	PBBT40 IR16-100-EX	IR16	100	28	75	46.0	
T00BT40928-20100A	PBBT40 IR20-100-EX	IR20	100	34	72	45.0	
T00BT40928-25100A	PBBT40 IR25-100-EX	IR25	100	42	69	38.0	
T00BT40928-32100A	PBBT40 IR32-100-EX	IR32	100	50	64	34.5	
T00BT40928-32100AG	PBBT40 IR32-100-EXG	IR32	100	50	64	34.5	
T00BT40928-40100A	PBBT40 IR40-100-EX	IR40	100	63	59	30.5	

PBBT50 IPE SYSTEM, IR EXTENSION BASE METRIC, BBT SPINDLE

Order Number	Part Name	Base	Length	D	L	L1	G
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70	12	69	50.6	M24
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70	16	69	50.6	
T00BT50928-11100A	PBBT50 IR11-100-EX	IR11	100	19	83	65.0	
T00BT50928-16100A	PBBT50 IR16-100-EX	IR16	100	28	75	46.0	
T00BT50928-20100A	PBBT50 IR20-100-EX	IR20	100	34	72	45.0	
T00BT50928-25110A	PBBT50 IR25-110-EX	IR25	110	42	79	48.0	
T00BT50928-32110A	PBBT50 IR32-110-EX	IR32	110	50	74	44.5	
T00BT50928-32110AG	PBBT50 IR32-110-EXG	IR32	110	50	74	44.5	
T00BT50928-40120A	PBBT50 IR40-120-EX	IR40	120	63	79	50.5	
T00BT50928-40120A	PBBT50 IR42-120-EX	IR42	120	85	79	50.5	

Order Number Instruction

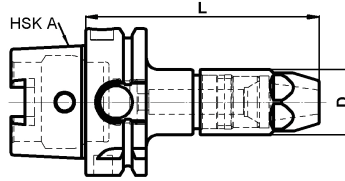
T00 BT40 928 - 16 100 A



REVERSED ER COLLET CHUCK - 920

Quality

- Taper Angle Tolerance: ±0.003mm
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 60000 rpm



HSK A32 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA32920-11080	HSK A32 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HA32920-16080	HSK A32 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"

HSK A40 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA40920-11080	HSK A40 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HA40920-16080	HSK A40 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"
T00HA40920-20080	HSK A40 ER20-080-IN	ER20	80	1~13	34	80	3.15"

HSK A50 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA50920-11100	HSK A50 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HA50920-16100	HSK A50 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA50920-20100	HSK A50 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA50920-25100	HSK A50 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA50920-32110	HSK A50 ER32-110-IN	ER32	110	2~20	50	110	4.33"

HSK A63 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA63920-11100	HSK A63 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HA63920-16100	HSK A63 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA63920-20100	HSK A63 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA63920-25100	HSK A63 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA63920-32110	HSK A63 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA63920-40120	HSK A63 ER40-120-IN	ER40	120	3~26	63	120	4.72"

HSK A80 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA80920-11100	HSK A80 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HA80920-16100	HSK A80 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA80920-20100	HSK A80 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA80920-25100	HSK A80 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA80920-32110	HSK A80 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA80920-40120	HSK A80 ER40-120-IN	ER40	120	3~26	63	120	4.72"

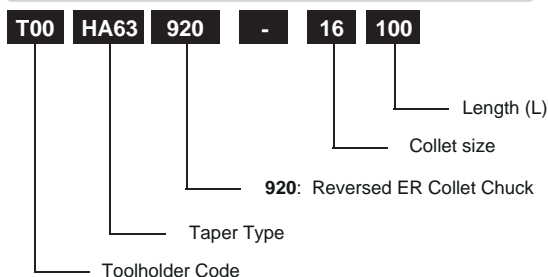
HSK A100 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA10920-16100	HSK A100 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA10920-20100	HSK A100 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA10920-25100	HSK A100 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA10920-32110	HSK A100 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA10920-40120	HSK A100 ER40-120-IN	ER40	120	3~26	63	120	4.72"

HSK A125 I SYSTEM, REVERSED ER COLLET CHUCK METRIC

Order Number	Part Name	Base	Length	Range	D	L	Length
T00HA12920-16100	HSK A125 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HA12920-20100	HSK A125 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HA12920-25100	HSK A125 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HA12920-32110	HSK A125 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HA12920-40120	HSK A125 ER40-120-IN	ER40	120	3~26	63	120	4.72"

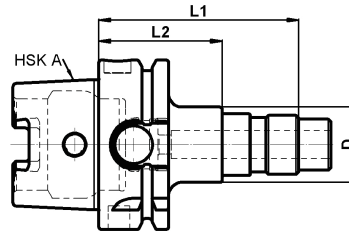
Order Number Instruction



HSK A - IR EXTENSION BASE - 926

Quality

- Taper Angle Tolerance: AT3+
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G6.3 25000 rpm  
Option to G2.5 25000 rpm



HSK A32 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HA32926-11070	HSK A32 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"

HSK A40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HA40926-11080	HSK A40 IR11-080-EX	IR11	80	x	19	63	45.0	3.15"
T00HA40926-16080	HSK A40 IR16-080-EX	IR16	80	x	28	55	26.0	3.15"
T00HA40926-20080	HSK A40 IR20-080-EX	IR20	80	x	34	52	25.0	3.15"

HSK A50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HA50926-11070	HSK A50 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HA50926-16100	HSK A50 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA50926-20100	HSK A50 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA50926-25100	HSK A50 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA50926-32120	HSK A50 IR32-120-EX	IR32	120	x	50	84	54.5	4.33"

HSK A63 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA63926-08070	HSK A63 IR08-070-EX	IR08	70	x	12	69	50.6	2.76"
T00HA63926-8S070	HSK A63 IR8S-070-EX	IR8S	70	x	16	69	50.6	2.76"
T00HA63926-11070	HSK A63 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HA63926-11100	HSK A63 IR11-100-EX	IR11	100	x	19	83	65.0	3.94"
T00HA63926-16100	HSK A63 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA63926-20100	HSK A63 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA63926-25100	HSK A63 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA63926-32110	HSK A63 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA63926-32110G	HSK A63 IR32-110-EXG	IR32	110	x	50	74	44.5	4.33"
T00HA63926-40120	HSK A63 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"

HSK A80 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA80926-16100	HSK A80 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA80926-20100	HSK A80 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA80926-25100	HSK A80 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA80926-32110	HSK A80 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA80926-40120	HSK A80 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"

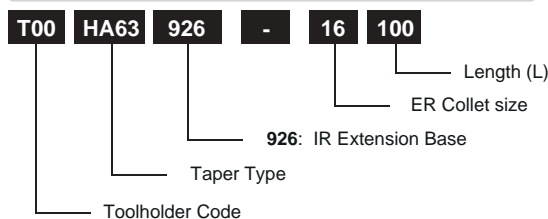
HSK A100 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70	x	12	69	50.6	2.76"
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70	x	16	69	50.6	2.76"
T00HA10926-11100	HSK A100 IR11-100-EX	IR11	100	x	19	83	65.0	3.94"
T00HA10926-16100	HSK A100 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HA10926-20100	HSK A100 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HA10926-25100	HSK A100 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HA10926-32110	HSK A100 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA10926-32110G	HSK A100 IR32-110-EXG	IR32	110	x	50	74	44.5	4.33"
T00HA10926-40120	HSK A100 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"
T00HA10926-42120	HSK A100 IR42-120-EX	IR42	120	x	85	79	50.5	4.72"

HSK A125 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	Length	Range	D	L1	L2	Length
T00HA12926-16100	HSK A125 IR16-100-EX	IR16	100	x	50	75	46.0	3.94"
T00HA12926-20100	HSK A125 IR20-100-EX	IR20	100	x	50	72	45.0	3.94"
T00HA12926-25110	HSK A125 IR25-110-EX	IR25	110	x	50	79	48.0	4.33"
T00HA12926-32110	HSK A125 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HA12926-40120	HSK A125 IR40-120-EX	IR40	120	x	63	79	50.5	4.72"
T00HA12926-42120	HSK A125 IR42-120-EX	IR42	120	x	85	79	50.5	4.72"

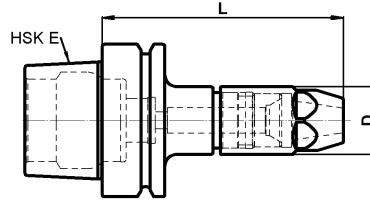
Order Number Instruction



**REVERSED ER COLLET CHUCK - 920**

**Quality**

- Taper Angle Tolerance: ±0.003mm
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm  
 Option to G2.5 60000 rpm



**HSK E32 I SYSTEM, REVERSE ER COLLET CHUCK METRIC**

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE32920-11080	HSK E32 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HE32920-16080	HSK E32 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"

**HSK E40 I SYSTEM, REVERSE ER COLLET CHUCK METRIC**

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE40920-11080	HSK E40 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HE40920-16080	HSK E40 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"
T00HE40920-20080	HSK E40 ER20-080-IN	ER20	80	1~13	34	80	3.15"

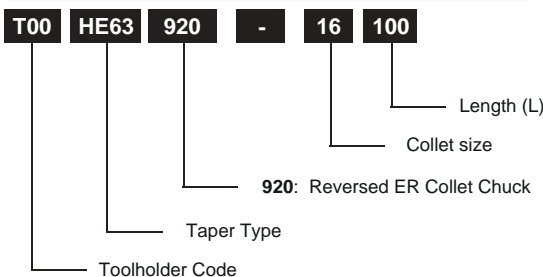
**HSK E50 I SYSTEM, REVERSE ER COLLET CHUCK METRIC**

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE50920-11100	HSK E50 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HE50920-16100	HSK E50 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HE50920-20100	HSK E50 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HE50920-25100	HSK E50 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HE50920-32110	HSK E50 ER32-110-IN	ER32	110	2~20	50	110	4.33"

**HSK E63 I SYSTEM, REVERSE ER COLLET CHUCK METRIC**

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HE63920-11100	HSK E63 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HE63920-16100	HSK E63 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HE63920-20100	HSK E63 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HE63920-25100	HSK E63 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HE63920-32110	HSK E63 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HE63920-40120	HSK E63 ER40-120-IN	ER40	120	3~26	63	120	4.72"

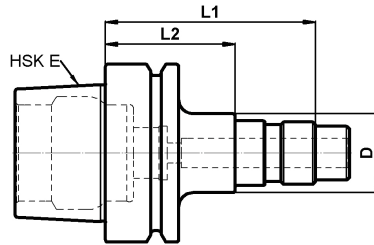
**Order Number Instruction**



HSK E - IR EXTENSION BASE - 926

**Quality**

- Taper Angle Tolerance:  $\pm 0.003\text{mm}$
- Case Hardness: HRC  $56 \pm 2$
- Seat Runout:  $0.003\text{mm}$  ( $0.00012''$ )
- Balance: G2.5 25000 rpm  
Option to G2.5 60000 rpm



**HSK E25 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE25926-08040	HSK E25 IR08-040-EX	IR08	40	x	12	39	20.6	1.57"
T00HE25926-8S040	HSK E25 IR8S-040-EX	IR8S	40	x	16	39	20.6	1.57"
T00HE25926-11050	HSK E25 IR11-050-EX	IR11	50	x	19	33	15.0	1.97"

**HSK E32 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HE32926-11070	HSK E32 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"

**HSK E40 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HE40926-11080	HSK E40 IR11-080-EX	IR11	80	x	19	63	45.0	3.15"
T00HE40926-16080	HSK E40 IR16-080-EX	IR16	80	x	28	55	26.0	3.15"
T00HE40926-20080	HSK E40 IR20-080-EX	IR20	80	x	34	52	25.0	3.15"

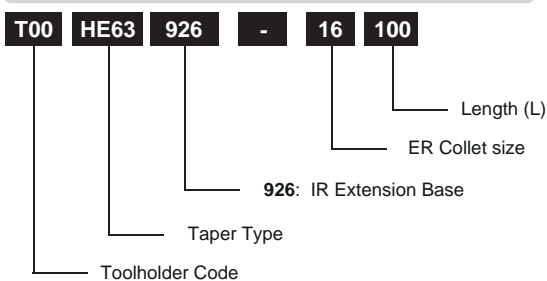
**HSK E50 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HE50926-11070	HSK E50 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HE50926-16100	HSK E50 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HE50926-20100	HSK E50 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HE50926-25110	HSK E50 IR25-110-EX	IR25	110	x	42	79	48.0	4.33"
T00HE50926-32120	HSK E50 IR32-120-EX	IR32	120	x	50	84	54.5	4.72"

**HSK E63 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70	x	12	69	50.6	2.76"
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70	x	16	69	50.6	2.76"
T00HE63926-11070	HSK E63 IR11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HE63926-16100	HSK E63 IR16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HE63926-20100	HSK E63 IR20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HE63926-25100	HSK E63 IR25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HE63926-32110	HSK E63 IR32-110-EX	IR32	110	x	50	74	44.5	4.33"

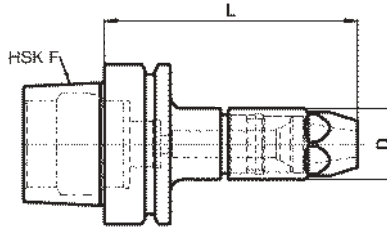
**Order Number Instruction**



REVERSED ER COLLET CHUCK - 920

Quality

- Taper Angle Tolerance: ±0.003mm
- Case Hardness: HRC 56 ± 2
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm  
Option to G2.5 60000 rpm



HSK F40 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF40920-11080	HSK F40 ER11-080-IN	ER11	80	0.5~7	19	80	3.15"
T00HF40920-16080	HSK F40 ER16-080-IN	ER16	80	0.5~10	28	80	3.15"
T00HF40920-20080	HSK F40 ER20-080-IN	ER20	80	1~13	34	80	3.15"

HSK F50 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF50920-11100	HSK F50 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HF50920-16100	HSK F50 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HF50920-20100	HSK F50 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HF50920-25100	HSK F50 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HF50920-32110	HSK F50 ER32-110-IN	ER32	110	2~20	50	110	4.33"

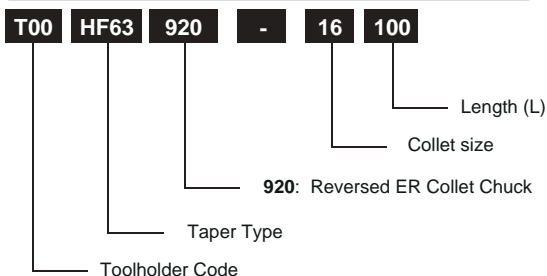
HSK F63 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF63920-11100	HSK F63 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HF63920-16100	HSK F63 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HF63920-20100	HSK F63 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HF63920-25100	HSK F63 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HF63920-32110	HSK F63 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HF63920-40120	HSK F63 ER40-120-IN	ER40	120	3~26	63	120	4.72"

HSK F80 I SYSTEM, REVERSE ER COLLET CHUCK METRIC

Order Number	Part Number	Base	Length	Range	D	L	Length
T00HF80920-11100	HSK F80 ER11-100-IN	ER11	100	0.5~7	19	100	3.94"
T00HF80920-16100	HSK F80 ER16-100-IN	ER16	100	0.5~10	28	100	3.94"
T00HF80920-20100	HSK F80 ER20-100-IN	ER20	100	1~13	34	100	3.94"
T00HF80920-25100	HSK F80 ER25-100-IN	ER25	100	1~16	42	100	3.94"
T00HF80920-32110	HSK F80 ER32-110-IN	ER32	110	2~20	50	110	4.33"
T00HF80920-40120	HSK F80 ER40-120-IN	ER40	120	3~26	63	120	4.72"

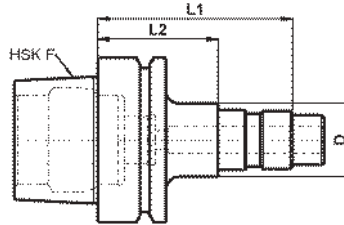
Order Number Instruction



HSK F - IR EXTENSION BASE - 926

Quality

- Taper Angle Tolerance:  $\pm 0.003\text{mm}$
- Case Hardness: HRC  $56 \pm 2$
- Seat Runout: 0.003mm (0.00012")
- Balance: G2.5 25000 rpm  
Option to G2.5 60000 rpm



HSK F40 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF40926-08050	HSK F40 ER08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF40926-8S050	HSK F40 ER8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF40926-11070	HSK F40 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF40926-16100	HSK F40 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF40926-20100	HSK F40 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"

HSK F50 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF50926-08050	HSK F50 ER08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF50926-8S050	HSK F50 ER8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF50926-11070	HSK F50 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF50926-16100	HSK F50 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF50926-20100	HSK F50 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HF50926-25110	HSK F50 ER25-110-EX	IR25	110	x	42	79	48.0	4.33"
T00HF50926-32120	HSK F50 ER32-120-EX	IR32	120	x	50	84	54.5	4.72"

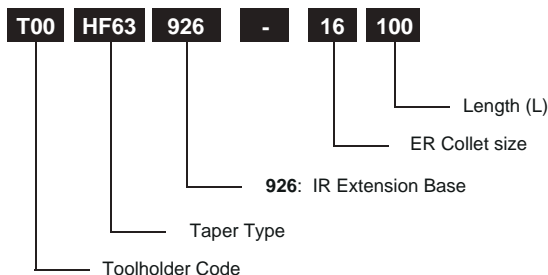
HSK F63 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF63926-11070	HSK F63 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF63926-16100	HSK F63 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF63926-20100	HSK F63 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HF63926-25100	HSK F63 ER25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HF63926-32110	HSK F63 ER32-110-EX	IR32	110	x	50	64	34.5	3.94"
T00HF63926-40120	HSK F63 ER40-120-EX	IR40	120	x	63	79	50.5	4.72"

HSK F80 I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Number	Base	Length	Range	D	L1	L2	Length
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50	x	12	49	30.6	1.97"
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50	x	16	49	30.6	1.97"
T00HF80926-11070	HSK F80 ER11-070-EX	IR11	70	x	19	53	35.0	2.76"
T00HF80926-16100	HSK F80 ER16-100-EX	IR16	100	x	28	75	46.0	3.94"
T00HF80926-20100	HSK F80 ER20-100-EX	IR20	100	x	34	72	45.0	3.94"
T00HF80926-25100	HSK F80 ER25-100-EX	IR25	100	x	42	69	38.0	3.94"
T00HF80926-32110	HSK F80 ER32-110-EX	IR32	110	x	50	74	44.5	4.33"
T00HF80926-40120	HSK F80 ER40-120-EX	IR40	120	x	63	79	50.5	4.72"

Order Number Instruction



# I SYSTEM TOOL HOLDERS - IR EXTENSION



**926**  
Extension Shank  
**IR BASE**  
T12ERXX926-XXXX



**926**  
Extension Shank  
**STRAIGHT BASE**  
T12SSXX926-XXXX



**926**  
Extension Shank  
**LATHE BASE W/FLAT**  
T12SSXX926-XXXXL



**M20**  
ER Collet Chuck  
**MINI NUT**  
T12ERXXM20-XXXX



**020**  
ER Collet Chuck  
T12ERXX020-XXXX



**920**  
ER Collet Chuck  
**REVERSE**  
T12ERXX920-XXXXX



**030**  
End Mill Holder  
**COOLANT SLOT**  
T12ERXX030-XXXX



**040**  
End Mill Holder  
T12ERXX040-XXXX



**050**  
End Mill Holder  
**WHISTLE**  
T12ERXX050-XXXX



**120**  
Shell Milling Holder  
T12ERXX120-XXXX



**130**  
Shell Milling Holder  
**COOLANT SLOT**  
T12ERXX130-XXXX



**200**  
Screw-In Chuck  
T12ERXX200-XXXX



**210**  
Slim Collet Chuck  
T12ERXX210-XXXX



**220**  
Shrink-Fit Holder  
**4.5°**  
T12ERXX220-XXXX



**230**  
Shrink-Fit Holder  
**4.5° SLIM**  
T12ERXX230-XXXX



**240**  
Shrink-Fit Holder  
**3°**  
T12ERXX240-XXXX



**250**  
Shrink-Fit Holder  
**3° SLIM**  
T12ERXX250-XXXX



**310**  
Blank  
**EXTENSION**  
T12ERXX310-XXXX

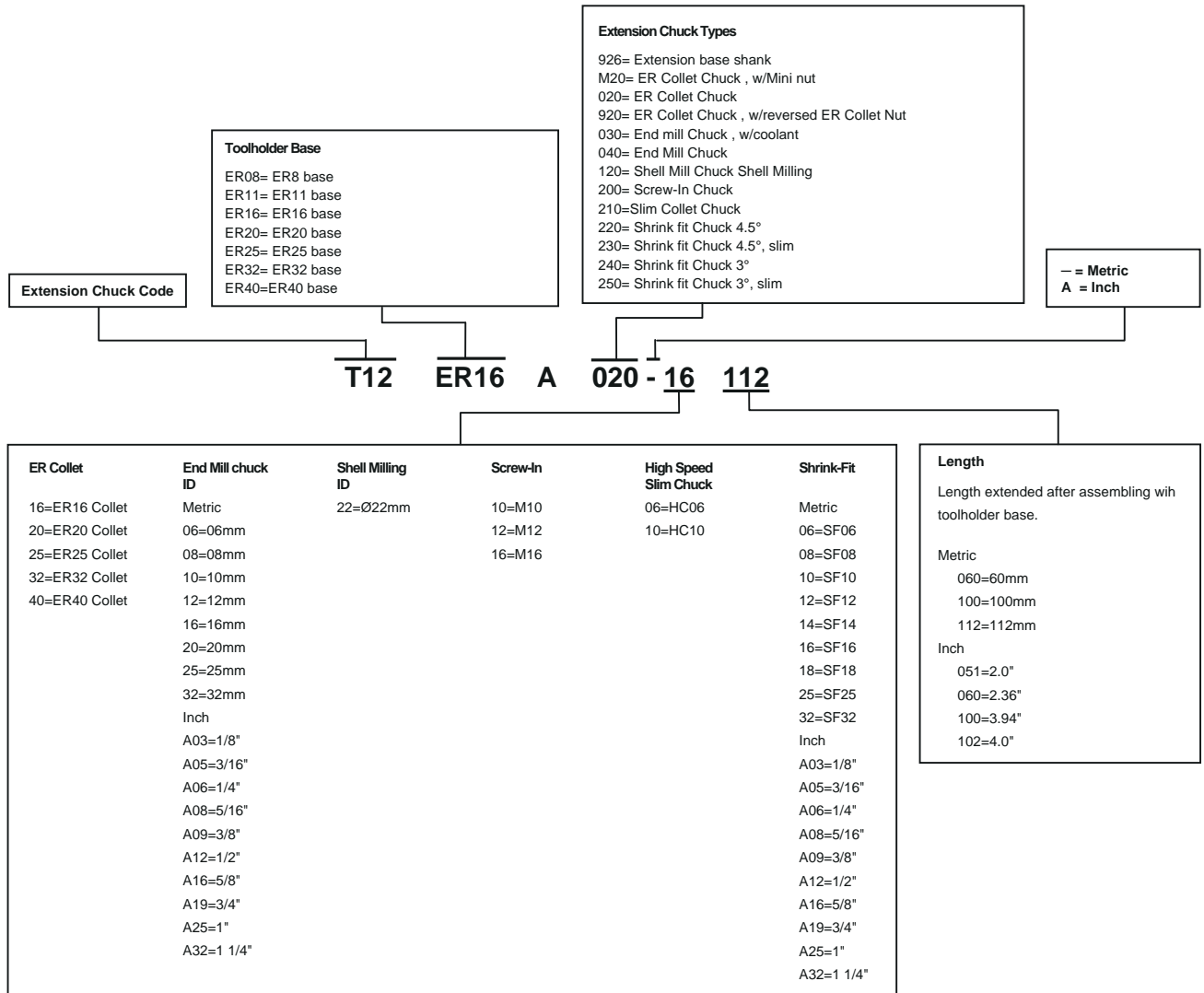


**G000**  
Test Arbor  
**EXTENSION**  
T12ERXXG000-XXXX



# I SYSTEM TOOL HOLDERS - IR EXTENSION

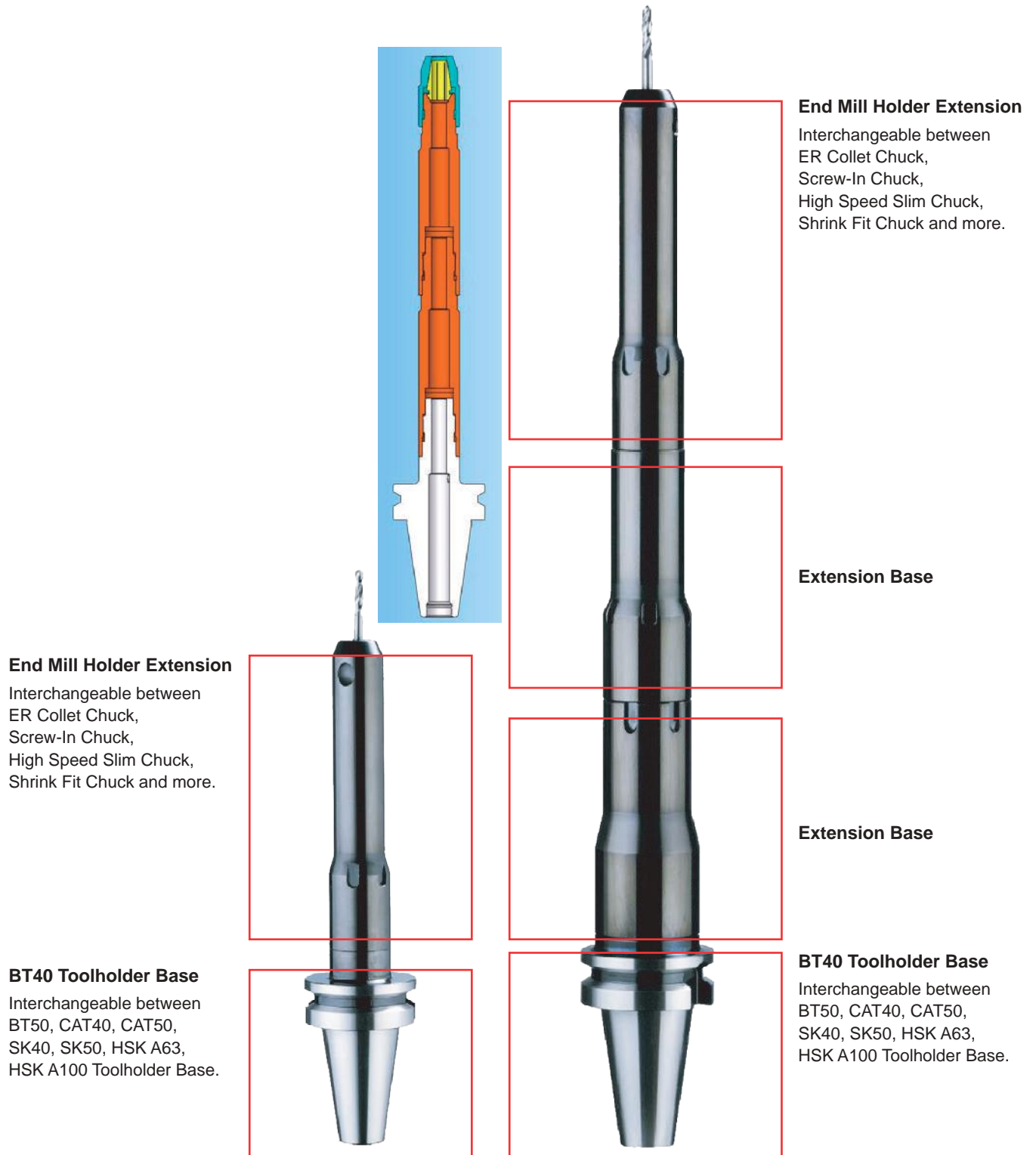
## Order No Instruction



## I SYSTEM TOOL HOLDERS (INFINITE) EXTENSION CHUCK

<b>926</b> IR EXTENSION BASE			
<b>926</b> STRAIGHT BASE			
<b>926</b> LATHE BASE FLAT			
<b>M20</b> ER COLLET CHUCK MINI NUT		<b>020</b> ER COLLET CHUCK	
<b>920</b> ER COLLET CHUCK REVERSED			
<b>030</b> END MILL HOLDER COOLANT SLOT		<b>040</b> END MILL HOLDER	
<b>050</b> END MILL HOLDER WHISTLE			
<b>120</b> SHELL MILL HOLDER		<b>130</b> SHELL MILL HOLDER COOLANT SLOT	
<b>200</b> SCREW-IN CHUCK			
<b>210</b> SLIM COLLET CHUCK			
<b>220</b> SHRINK FIT 4.5°		<b>230</b> SHRINK FIT 4.5° SLIM	
<b>240</b> SHRINK FIT 3°		<b>250</b> SHRINK FIT 3° SLIM	

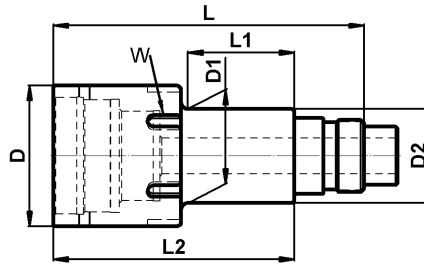
## I SYSTEM TOOL HOLDERS (INFINITE)



**IR EXTENSION BASE - 926 EXTENSION**

**Quality**

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



**IR EXTENSION BASE METRIC**

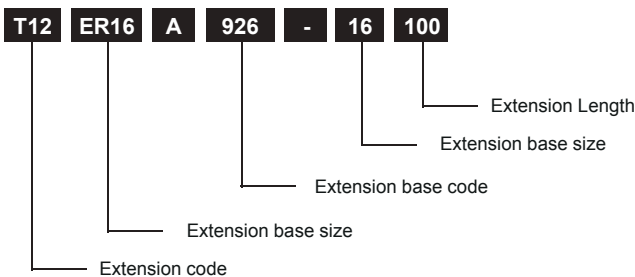
Order Number	Part Name	Base	Extension		D	D1	D2	L	L1	L2	W Wrench
			Size	Length							
T12ER08A926-08035	IR08-IR08-035-EX	IR08	IR08	35	12	12	12	54	X	35	T07IR0801
T12ER08A926-08050	IR08-IR08-050-EX	IR08	IR08	50	12	12	12	69	X	50	T07IR0801
T12ER08A926-08100	IR08-IR08-100-EX	IR08	IR08	100	12	12	12	119	X	100	T07IR0801
T12ER8SA926-08050	IR8S-IR08-050-EX	IR8S	IR08	50	16	14	12	69	14	50	T07IR8S01
T12ER8SA926-08100	IR8S-IR08-100-EX	IR8S	IR08	100	16	16	12	119	46	100	T07IR8S01
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	50	16	16	16	69	X	50	T07IR8S01
T12ER8SA926-8S100	IR8S-IR8S-100-EX	IR8S	IR8S	100	16	16	16	119	X	100	T07IR8S01
T12ER11A926-08020	IR11-IR08-020-EX	IR11	IR08	20	19	12	12	54	X	36	T07ER1101
T12ER11A926-08050	IR11-IR08-050-EX	IR11	IR08	50	19	15	12	84	29	66	T07ER1101
T12ER11A926-08070	IR11-IR08-070-EX	IR11	IR08	70	19	16	12	104	49	86	T07ER1101
T12ER11A926-08100	IR11-IR08-100-EX	IR11	IR08	100	19	19	12	134	80	116	T07ER1101
T12ER11A926-8S050	IR11-IR8S-050-EX	IR11	IR8S	50	19	16	16	84	29	66	T07ER1101
T12ER11A926-8S070	IR11-IR8S-070-EX	IR11	IR8S	70	19	16	16	104	49	86	T07ER1101
T12ER11A926-8S100	IR11-IR8S-100-EX	IR11	IR8S	100	19	16	16	134	79	116	T07ER1101
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	19	19	19	118	x	100	T07ER1101
T12ER11A926-11200	IR11-IR11-200-EX	IR11	IR11	200	19	19	19	218	x	200	T07ER1101
T12ER16A926-11050	IR16-IR11-050-EX	IR16	IR11	50	28	28	28	87	x	69	T07ER1601
T12ER16A926-11100	IR16-IR11-100-EX	IR16	IR11	100	28	19	19	137	55	119	T07ER1601
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	28	28	28	129	X	100	T07ER1601
T12ER16A926-16112	IR16-IR16-112-EX	IR16	IR16	112	28	28	28	141	x	112	T07ER1601
T12ER16A926-16200	IR16-IR16-200-EX	IR16	IR16	200	28	28	28	229	X	200	T07ER1601
T12ER20A926-16050	IR20-IR16-050-EX	IR20	IR16	50	34	34	34	80	X	51	T07IR2004
T12ER20A926-16100	IR20-IR16-100-EX	IR20	IR16	100	34	28	28	130	53	101	T07IR2004
T12ER20A926-16112	IR20-IR16-112-EX	IR20	IR16	112	34	28	28	142	65	113	T07IR2004
T12ER20A926-20100	IR20-IR20-100-EX	IR20	IR20	100	34	34	34	127	x	100	T07IR2004
T12ER20A926-20112	IR20-IR20-112-EX	IR20	IR20	112	34	34	34	139	x	112	T07IR2004
T12ER20A926-20200	IR20-IR20-200-EX	IR20	IR20	200	34	34	34	227	x	200	T07IR2004
T12ER25A926-16050	IR25-IR16-050-EX	IR25	IR16	50	42	42	42	87	x	58	T07ER2502
T12ER25A926-16100	IR25-IR16-100-EX	IR25	IR16	100	42	28	28	137	47	108	T07ER2502
T12ER25A926-16112	IR25-IR16-112-EX	IR25	IR16	112	42	28	28	149	59	120	T07ER2502
T12ER25A926-20050	IR25-IR20-050-EX	IR25	IR20	50	42	42	42	84	x	57	T07ER2502
T12ER25A926-20100	IR25-IR20-100-EX	IR25	IR20	100	42	34	34	134	46	107	T07ER2502
T12ER25A926-20112	IR25-IR20-112-EX	IR25	IR20	112	42	34	34	146	58	119	T07ER2502
T12ER25A926-25100	IR25-IR25-100-EX	IR25	IR25	100	42	42	42	131	x	100	T07IR2504
T12ER25A926-25112	IR25-IR25-112-EX	IR25	IR25	112	42	42	42	143	x	112	T07IR2504
T12ER25A926-25200	IR25-IR25-200-EX	IR25	IR25	200	42	42	42	231	x	200	T07IR2504
T12ER32A926-16050	IR32-IR16-050-EX	IR32	IR16	50	50	34	34	90	4	62	T07ER3202
T12ER32A926-16100	IR32-IR16-100-EX	IR32	IR16	100	50	28	28	140	54	112	T07ER3202
T12ER32A926-20050	IR32-IR20-050-EX	IR32	IR20	50	50	50	50	87	x	61	T07ER3202
T12ER32A926-20100	IR32-IR20-100-EX	IR32	IR20	100	50	34	34	137	40	111	T07ER3202
T12ER32A926-25055	IR32-IR25-055-EX	IR32	IR25	55	50	50	50	90	x	59	T07ER3202
T12ER32A926-25100	IR32-IR25-100-EX	IR32	IR25	100	50	42	42	135	77	104	T07ER3202
T12ER32A926-25112	IR32-IR25-112-EX	IR32	IR25	112	50	42	42	147	59	116	T07ER3202
T12ER32A926-32100	IR32-IR32-100-EX	IR32	IR32	100	50	50	50	129	x	100	T07IR3204
T12ER32A926-32200	IR32-IR32-200-EX	IR32	IR32	200	50	50	50	229	x	200	T07IR3204
T12ER40A926-25060	IR40-IR25-060-EX	IR40	IR25	60	63	42	42	89	10	108	T07ER4002
T12ER40A926-25100	IR40-IR25-100-EX	IR40	IR25	100	63	42	42	139	50	108	T07ER4002
T12ER40A926-25112	IR40-IR25-112-EX	IR40	IR25	112	63	42	42	151	62	120	T07ER4002
T12ER40A926-32060	IR40-IR32-060-EX	IR40	IR32	60	63	50	50	93	47	104	T07ER4002
T12ER40A926-32100	IR40-IR32-100-EX	IR40	IR32	100	63	50	50	133	47	104	T07ER4002
T12ER40A926-32112	IR40-IR32-112-EX	IR40	IR32	112	63	50	50	145	59	116	T07ER4002
T12ER40A926-40100	IR40-IR40-100-EX	IR40	IR40	100	63	63	63	129	x	100	T07IR4004
T12ER40A926-40112	IR40-IR40-112-EX	IR40	IR40	112	63	63	63	141	x	112	T07IR4004
T12ER40A926-41100	IR40-IR41-100-EX	IR40	IR41	100	63	70	70	129	40	100	T07IR4004
T12ER40A926-42100	IR40-IR42-100-EX	IR40	IR42	100	63	85	85	129	40	100	T07IR4004
T12ER41A926-41100	IR41-IR41-100-EX	IR41	IR41	100	70	70	70	129	x	100	T07IR4104
T12ER41A926-42100	IR41-IR42-100-EX	IR41	IR42	100	70	85	85	129	40	100	T07IR4104
T12ER42A926-42100	IR42-IR42-100-EX	IR42	IR42	100	85	85	85	129	x	100	T07IR4204

**IR EXTENSION BASE - 926 EXTENSION**

**IR EXTENSION BASE INCH**

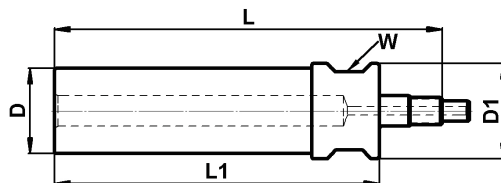
Order Number	Part Name	Base	Extension		D	D1	D2	L	L1	L2	W Wrench
			Size	Length							
T12ER08A926A08034	IR08-IR08-1.32"-EX	IR08	IR08	1.32"	0.470"	0.470"	0.470"	2.047"	x	1.32"	T07IR0801
T12ER08A926A08051	IR08-IR08-2.00"-EX	IR08	IR08	2.00"	0.470"	0.470"	0.470"	2.728"	x	2.00"	T07IR0801
T12ER08A926A08072	IR08-IR08-2.84"-EX	IR08	IR08	2.84"	0.470"	0.470"	0.470"	3.547"	x	2.84"	T07IR0801
T12ER08A926A08102	IR08-IR08-4.00"-EX	IR08	IR08	4.00"	0.470"	0.470"	0.470"	4.728"	x	4.00"	T07IR0801
T12ER8SA926A08102	IR8S-IR08-4.00"-EX	IR8S	IR08	4.00"	0.630"	0.470"	0.470"	4.728"	1.803"	4.00"	T07IR8S01
T12ER8SA926A8S102	IR8S-IR8S-4.00"-EX	IR8S	IR8S	4.00"	0.630"	0.630"	0.630"	4.728"	x	4.00"	T07IR8S01
T12ER8SA926A8S127	IR8S-IR8S-5.00"-EX	IR8S	IR8S	5.00"	0.630"	0.630"	0.630"	5.728"	x	5.00"	T07IR8S01
T12ER11A926A11102	IR11-IR11-4.00"-EX	IR11	IR11	4.00"	0.750"	0.750"	0.750"	4.709"	x	4.00"	T07IR1101
T12ER11A926A11127	IR11-IR11-5.00"-EX	IR11	IR11	5.00"	0.750"	0.750"	0.750"	5.709"	x	5.00"	T07IR1101
T12ER11A926A11203	IR11-IR11-8.00"-EX	IR11	IR11	8.00"	0.750"	0.750"	0.750"	8.709"	x	8.00"	T07IR1101
T12ER16A926A16102	IR16-IR16-4.00"-EX	IR16	IR16	4.00"	1.103"	1.103"	1.103"	5.122"	x	4.00"	T07IR1601
T12ER16A926A16127	IR16-IR16-5.00"-EX	IR16	IR16	5.00"	1.103"	1.103"	1.103"	6.122"	x	5.00"	T07IR1601
T12ER16A926A16203	IR16-IR16-8.00"-EX	IR16	IR16	8.00"	1.103"	1.103"	1.103"	9.122"	x	8.00"	T07IR1601
T12ER20A926A20102	IR20-IR20-4.00"-EX	IR20	IR20	4.00"	1.340"	1.340"	1.340"	5.043"	x	4.00"	T07IR2004
T12ER20A926A20127	IR20-IR20-5.00"-EX	IR20	IR20	5.00"	1.340"	1.340"	1.340"	6.043"	x	5.00"	T07IR2004
T12ER20A926A20203	IR20-IR20-8.00"-EX	IR20	IR20	8.00"	1.340"	1.340"	1.340"	9.043"	x	8.00"	T07IR2004
T12ER25A926A25102	IR25-IR25-4.00"-EX	IR25	IR25	4.00"	1.660"	1.660"	1.660"	5.221"	x	4.00"	T07IR2504
T12ER25A926A25127	IR25-IR25-5.00"-EX	IR25	IR25	5.00"	1.660"	1.660"	1.660"	6.221"	x	5.00"	T07IR2504
T12ER25A926A25203	IR25-IR25-8.00"-EX	IR25	IR25	8.00"	1.660"	1.660"	1.660"	9.221"	x	8.00"	T07IR2504
T12ER32A926A32102	IR32-IR32-4.00"-EX	IR32	IR32	4.00"	1.970"	1.970"	1.970"	5.142"	x	4.00"	T07IR3204
T12ER32A926A32127	IR32-IR32-5.00"-EX	IR32	IR32	5.00"	1.970"	1.970"	1.970"	6.142"	x	5.00"	T07IR3204
T12ER32A926A32203	IR32-IR32-8.00"-EX	IR32	IR32	8.00"	1.970"	1.970"	1.970"	9.142"	x	8.00"	T07IR3204
T12ER40A926A40102	IR40-IR40-4.00"-EX	IR40	IR40	4.00"	2.480"	2.480"	2.480"	5.122"	x	4.00"	T07IR4004
T12ER40A926A40127	IR40-IR40-5.00"-EX	IR40	IR40	5.00"	2.480"	2.480"	2.480"	6.122"	x	5.00"	T07IR4004
T12ER41A926A41102	IR41-IR41-4.00"-EX	IR41	IR41	4.00"	2.750"	2.750"	2.750"	5.122"	x	4.00"	T07IR4104
T12ER41A926A42102	IR41-IR42-4.00"-EX	IR41	IR42	4.00"	2.750"	3.350"	3.350"	5.122"	x	4.00"	T07IR4104

**Order Number Instruction**



**Quality**

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



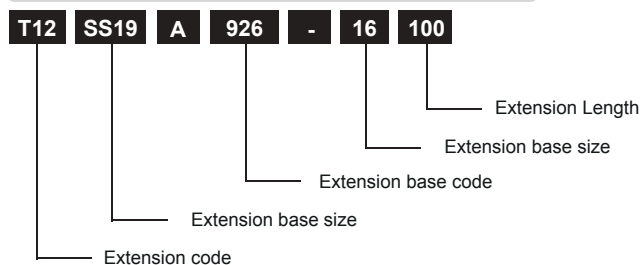
**IR EXTENSION BASE STRAIGHT METRIC**

Order Number	Part Name	Base	Extension		D	D1	L	L1	W Wrench
			Size	Length					
T12SS08A926-8S096	SS08-IR8S-096-EX	SS08	IR8S	96	8	16	123	96	T07IR8S01
T12SS08A926-11096	SS08-IR11-096-EX	SS08	IR11	96	8	19	125	96	T07ER1101
T12SS12A926-11096	SS12-IR11-096-EX	SS12	IR11	96	12	19	125	96	T07ER1101
T12SS12A926-16096	SS12-IR16-096-EX	SS12	IR16	96	12	28	138	96	T07ER1601
T12SS16A926-11096	SS16-IR11-096-EX	SS16	IR11	96	16	19	125	96	T07ER1101
T12SS16A926-16096	SS16-IR16-096-EX	SS16	IR16	96	16	28	138	96	T07ER1601
T12SS19A926-8S096	SS19-IR8S-096-EX	SS19	IR8S	96	19	19	123	96	T07IR8S01
T12SS19A926-11096	SS19-IR11-096-EX	SS19	IR11	96	19	19	125	96	T07ER1101
T12SS19A926-16096	SS19-IR16-096-EX	SS19	IR16	96	19	28	138	96	T07ER1601
T12SS19A926-20096	SS19-IR20-096-EX	SS19	IR20	96	19	34	138	96	T07IR2004
T12SS19A926-25096	SS19-IR25-096-EX	SS19	IR25	96	19	42	143	96	T07IR2504
T12SS19A926-32096	SS19-IR32-096-EX	SS19	IR32	96	19	50	140	96	T07IR3204
T12SS25A926-11096	SS25-IR11-096-EX	SS25	IR11	96	25	19	125	96	T07ER1101
T12SS25A926-16096	SS25-IR16-096-EX	SS25	IR16	96	25	28	138	96	T07ER1601
T12SS25A926-20096	SS25-IR20-096-EX	SS25	IR20	96	25	34	138	96	T07IR2004
T12SS25A926-25096	SS25-IR25-096-EX	SS25	IR25	96	25	42	143	96	T07IR2504
T12SS25A926-32096	SS25-IR32-096-EX	SS25	IR32	96	25	50	140	96	T07IR3204
T12SS25A926-40096	SS25-IR40-096-EX	SS25	IR40	96	25	63	140	96	T07IR4004

**IR EXTENSION BASE STRAIGHT INCH**

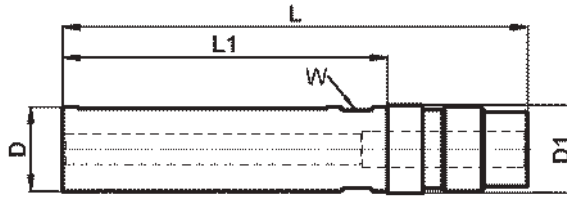
Order Number	Part Name	Base	Extension		D	D1	L	L1	W Wrench
			Size	Length					
T12SS08A926A8S096	SS5/16"-IR8S-3.78"-EX	SS5/16"	IR8S	3.78"	5/16"	0.63"	4.823"	3.78"	T07IR8S01
T12SS08A926A11096	SS5/16"-IR11-3.78"-EX	SS5/16"	IR11	3.78"	5/16"	0.75"	4.921"	3.78"	T07ER1101
T12SS12A926A11096	SS1/2"-IR11-3.78"-EX	SS1/2"	IR11	3.78"	1/2"	0.75"	4.921"	3.78"	T07ER1101
T12SS12A926A16096	SS1/2"-IR16-3.78"-EX	SS1/2"	IR16	3.78"	1/2"	0.75"	5.413"	3.78"	T07ER1601
T12SS16A926A11096	SS5/8"-IR11-3.78"-EX	SS5/8"	IR11	3.78"	5/8"	0.75"	4.921"	3.78"	T07ER1101
T12SS16A926A16096	SS5/8"-IR16-3.78"-EX	SS5/8"	IR16	3.78"	5/8"	1.10"	5.413"	3.78"	T07ER1601
T12SS19A926A8S096	SS3/4"-IR8S-3.78"-EX	SS3/4"	IR8S	3.78"	3/4"	0.63"	4.823"	3.78"	T07IR8S01
T12SS19A926A11096	SS3/4"-IR11-3.78"-EX	SS3/4"	IR11	3.78"	3/4"	0.75"	4.921"	3.78"	T07ER1101
T12SS19A926A16096	SS3/4"-IR16-3.78"-EX	SS3/4"	IR16	3.78"	3/4"	1.10"	5.413"	3.78"	T07ER1601
T12SS19A926A20096	SS3/4"-IR20-3.78"-EX	SS3/4"	IR20	3.78"	3/4"	1.34"	5.413"	3.78"	T07IR2004
T12SS19A926A25096	SS3/4"-IR25-3.78"-EX	SS3/4"	IR25	3.78"	3/4"	1.34"	5.630"	3.78"	T07IR2504
T12SS19A926A32096	SS3/4"-IR32-3.78"-EX	SS3/4"	IR32	3.78"	3/4"	1.34"	5.512"	3.78"	T07IR3204
T12SS25A926A11096	SS1"-IR11-3.78"-EX	SS1"	IR11	3.78"	1"	0.75"	4.921"	3.78"	T07ER1101
T12SS25A926A16096	SS1"-IR16-3.78"-EX	SS1"	IR16	3.78"	1"	1.10"	5.413"	3.78"	T07ER1601
T12SS25A926A20096	SS1"-IR20-3.78"-EX	SS1"	IR20	3.78"	1"	1.34"	5.413"	3.78"	T07IR2004
T12SS25A926A25096	SS1"-IR25-3.78"-EX	SS1"	IR25	3.78"	1"	1.66"	5.630"	3.78"	T07IR2504
T12SS25A926A32096	SS1"-IR32-3.78"-EX	SS1"	IR32	3.78"	1"	1.97"	5.512"	3.78"	T07IR3204
T12SS25A926A40096	SS1"-IR40-3.78"-EX	SS1"	IR40	3.78"	1"	1.97"	5.492"	3.78"	T07IR4004

**Order Number Instruction**



Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



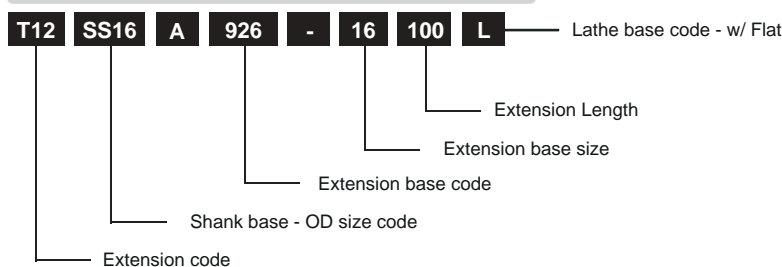
IR EXTENSION BASE LATHE w/FLAT METRIC

Order Number	Part Name	Base	Extension		D	D1	L	L1	W Wrench
			Size	Length					
T12SS16A926-8S096L	SS16-IR8S-096-EXL	SS16	IR8S	96	16	16	122.5	96	T07IR8S01
T12SS16A926-11096L	SS16-IR11-096-EXL	SS16	IR11	96	16	19	125.0	96	T07ER1101
T12SS16A926-16096L	SS16-IR16-096-EXL	SS16	IR16	96	16	28	137.5	96	T07ER1601
T12SS20A926-8S096L	SS20-IR8S-096-EXL	SS20	IR8S	96	20	16	122.5	96	T07IR8S01
T12SS20A926-11096L	SS20-IR11-096-EXL	SS20	IR11	96	20	19	125.0	96	T07ER1101
T12SS20A926-16096L	SS20-IR16-096-EXL	SS20	IR16	96	20	28	137.5	96	T07ER1601
T12SS22A926-8S018L	SS22-IR8S-018-EXL	SS22	IR8S	18	22	16	67.7	43	T07IR8S01
T12SS25A926-8S096L	SS25-IR8S-096-EXL	SS25	IR8S	96	25	16	122.5	96	T07IR8S01
T12SS25A926-11096L	SS25-IR11-096-EXL	SS25	IR11	96	25	19	125.0	96	T07ER1101
T12SS25A926-16096L	SS25-IR16-096-EXL	SS25	IR16	96	25	28	137.5	96	T07ER1601
T12SS25A926-20096L	SS25-IR20-096-EXL	SS25	IR20	96	25	34	137.5	96	T07IR2004
T12SS25A926-25096L	SS25-IR25-096-EXL	SS25	IR25	96	25	42	143.0	96	T07IR2504
T12SS25A926-32096L	SS25-IR32-096-EXL	SS25	IR32	96	25	50	140.0	96	T07IR3204
T12SS25A926-40096L	SS25-IR40-096-EXL	SS25	IR40	96	25	63	139.5	96	T07IR4004
T12SS32A926-8S096L	SS32-IR8S-096-EXL	SS32	IR8S	96	32	16	122.5	96	T07IR8S01
T12SS32A926-11096L	SS32-IR11-096-EXL	SS32	IR11	96	32	19	125.0	96	T07ER1101
T12SS32A926-16096L	SS32-IR16-096-EXL	SS32	IR16	96	32	28	137.5	96	T07ER1601
T12SS32A926-20096L	SS32-IR20-096-EXL	SS32	IR20	96	32	34	137.5	96	T07IR2004
T12SS32A926-25096L	SS32-IR25-096-EXL	SS32	IR25	96	32	42	143.0	96	T07IR2504
T12SS32A926-32096L	SS32-IR32-096-EXL	SS32	IR32	96	32	50	140.0	96	T07IR3204
T12SS32A926-40096L	SS32-IR40-096-EXL	SS32	IR40	96	32	63	139.5	96	T07IR4004

IR EXTENSION BASE LATHE w/FLAT INCH

Order Number	Part Name	Base	Extension		D	D1	L	L1	W Wrench
			Size	Length					
T12SS19A926A8S096L	SS3/4"-IR8S-3.78"-EXL	SS3/4"	IR8S	3.78"	3/4"	0.63"	4.823"	3.78"	T07IR8S01
T12SS19A926A11096L	SS3/4"-IR11-3.78"-EXL	SS3/4"	IR11	3.78"	3/4"	0.75"	4.921"	3.78"	T07ER1101
T12SS19A926A16096L	SS3/4"-IR16-3.78"-EXL	SS3/4"	IR16	3.78"	3/4"	1.10"	5.413"	3.78"	T07ER1601
T12SS25A926A8S096L	SS1"-IR8S-3.78"-EXL	SS1"	IR8S	3.78"	1"	0.63"	4.823"	3.78"	T07IR8S01
T12SS25A926A11096L	SS1"-IR11-3.78"-EXL	SS1"	IR11	3.78"	1"	0.75"	4.921"	3.78"	T07ER1101
T12SS25A926A16096L	SS1"-IR16-3.78"-EXL	SS1"	IR16	3.78"	1"	1.10"	5.413"	3.78"	T07ER1601
T12SS25A926A20096L	SS1"-IR20-3.78"-EXL	SS1"	IR20	3.78"	1"	1.34"	5.413"	3.78"	T07IR2004
T12SS25A926A25096L	SS1"-IR25-3.78"-EXL	SS1"	IR25	3.78"	1"	1.66"	5.630"	3.78"	T07IR2504
T12SS25A926A32096L	SS1"-IR32-3.78"-EXL	SS1"	IR32	3.78"	1"	1.97"	5.512"	3.78"	T07IR3204
T12SS25A926A40096L	SS1"-IR40-3.78"-EXL	SS1"	IR40	3.78"	1"	1.97"	5.492"	3.78"	T07IR4004
T12SS32A926A8S096L	SS1 1/4"-IR8S-3.78"-EXL	SS1 1/4"	IR8S	3.78"	1 1/4"	0.63"	4.823"	3.78"	T07IR8S01
T12SS32A926A11096L	SS1 1/4"-IR11-3.78"-EXL	SS1 1/4"	IR11	3.78"	1 1/4"	0.75"	4.921"	3.78"	T07ER1101
T12SS32A926A16096L	SS1 1/4"-IR16-3.78"-EXL	SS1 1/4"	IR16	3.78"	1 1/4"	1.10"	5.413"	3.78"	T07ER1601
T12SS32A926A20096L	SS1 1/4"-IR20-3.78"-EXL	SS1 1/4"	IR20	3.78"	1 1/4"	1.34"	5.413"	3.78"	T07IR2004
T12SS32A926A25096L	SS1 1/4"-IR25-3.78"-EXL	SS1 1/4"	IR25	3.78"	1 1/4"	1.66"	5.630"	3.78"	T07IR2504
T12SS32A926A32096L	SS1 1/4"-IR32-3.78"-EXL	SS1 1/4"	IR32	3.78"	1 1/4"	1.97"	5.512"	3.78"	T07IR3204
T12SS32A926A40096L	SS1 1/4"-IR40-3.78"-EXL	SS1 1/4"	IR40	3.78"	1 1/4"	1.97"	5.492"	3.78"	T07IR4004

Order Number Instruction

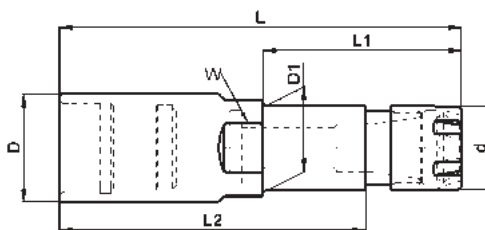


**ER COLLET CHUCK MINI NUT - M20 EXTENSION**

**MINI NUT**

**Quality**

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



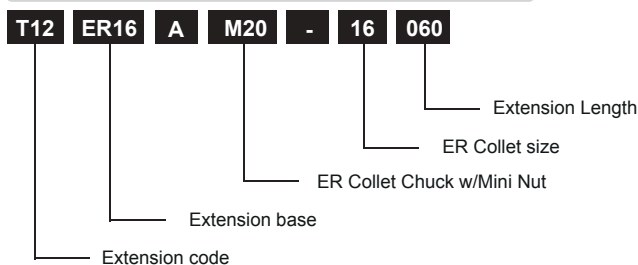
**ER COLLET CHUCK MINI NUT METRIC**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	W Wrench
			Size	Length							
T12ER08AM20-08060	IR08-ER08-060M	IR08	ER08M	60	12	12	12	79.4	x	62.4	T07IR0801
T12ER08AM20-08090	IR08-ER08-090M	IR08	ER08M	90	12	12	12	109.4	x	92.4	T07IR0801
T12ER08AM20-08100	IR08-ER08-100M	IR08	ER08M	100	12	12	12	119.4	x	102.4	T07IR0801
T12ER08AM20-08130	IR08-ER08-130M	IR08	ER08M	130	12	12	12	149.4	x	132.4	T07IR0801
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	16	12	12	80	51	63	T07IR8S01
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	16	12	12	120	91	133	T07IR8S01
T12ER8SAM20-11030	IR8S-ER11-030M	IR8S	ER11M	30	16	16	16	49.4	x	30.8	T07IR8S01
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	16	16	16	79.4	x	60.8	T07IR8S01
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	16	16	16	119.4	x	100.8	T07IR8S01
T12ER11AM20-08060	IR11-ER08-060M	IR11	ER08M	60	19	12	12	95	59	79	T07ER1101
T12ER11AM20-08100	IR11-ER08-100M	IR11	ER08M	100	19	12	12	135	99	119	T07ER1101
T12ER11AM20-11023	IR11-ER11-023M	IR11	ER11M	23	19	16	16	58	22	40	T07ER1101
T12ER11AM20-11060	IR11-ER11-060M	IR11	ER11M	60	19	16	16	95	59	76.4	T07ER1101
T12ER11AM20-11100	IR11-ER11-100M	IR11	ER11M	100	19	16	16	135	99	116.4	T07ER1101
T12ER16AM20-11060	IR16-ER11-060M	IR16	ER11M	60	28	16	16	114	61	95.4	T07ER1601
T12ER16AM20-11100	IR16-ER11-100M	IR16	ER11M	100	28	16	16	154	101	135.4	T07ER1601
T12ER16AM20-16060	IR16-ER16-060M	IR16	ER16M	60	28	22	22	114	61	89	T07ER1601
T12ER16AM20-16100	IR16-ER16-100M	IR16	ER16M	100	28	22	22	154	101	129	T07ER1601
T12ER16AM20-20060	IR16-ER20-060M	IR16	ER20M	60	28	28	28	114	x	86	T07ER1601
T12ER16AM20-20100	IR16-ER20-100M	IR16	ER20M	100	28	28	28	154	x	126	T07ER1601

**ER COLLET CHUCK MINI NUT INCH**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	W Wrench
			Size	Length							
T12ER08AM20A08051	IR08-ER08-2.00"M	IR08	ER08M	2.00"	0.47"	0.47"	0.47"	2.79"	X	2.14"	T07IR0801
T12ER08AM20A08081	IR08-ER08-3.19"M	IR08	ER08M	3.19"	0.47"	0.47"	0.47"	3.97"	X	3.32"	T07IR0801
T12ER08AM20A08102	IR08-ER08-4.00"M	IR08	ER08M	4.00"	0.47"	0.47"	0.47"	4.79"	X	4.20"	T07IR0801
T12ER08AM20A08132	IR08-ER08-5.19"M	IR08	ER08M	5.19"	0.47"	0.47"	0.47"	5.97"	X	5.32"	T07IR0801
T12ER8SAM20A08051	IR8S-ER08-2.00"M	IR8S	ER08M	2.00"	0.63"	0.47"	0.47"	2.79"	1.65"	2.14"	T07IR8S01
T12ER8SAM20A08102	IR8S-ER08-4.00"M	IR8S	ER08M	4.00"	0.63"	0.47"	0.47"	4.79"	3.65"	4.14"	T07IR8S01
T12ER8SAM20A11051	IR8S-ER11-2.00"M	IR8S	ER11M	2.00"	0.63"	0.63"	0.63"	2.76"	x	2.14"	T07IR8S01
T12ER8SAM20A11102	IR8S-ER11-4.00"M	IR8S	ER11M	4.00"	0.63"	0.63"	0.63"	4.76"	x	4.14"	T07IR8S01
T12ER11AM20A08051	IR11-ER08-2.00"M	IR11	ER08M	2.00"	0.75"	0.47"	0.47"	3.39"	1.11"	2.75"	T07ER1101
T12ER11AM20A08102	IR11-ER08-4.00"M	IR11	ER08M	4.00"	0.75"	0.47"	0.47"	5.39"	3.11"	4.76"	T07ER1101
T12ER11AM20A11051	IR11-ER11-2.00"M	IR11	ER11M	2.00"	0.75"	0.63"	0.63"	3.39"	1.97"	2.56"	T07ER1101
T12ER11AM20A11102	IR11-ER11-4.00"M	IR11	ER11M	4.00"	0.75"	0.63"	0.63"	5.39"	3.97"	4.65"	T07ER1101
T12ER16AM20A11051	IR16-ER11-2.00"M	IR16	ER11M	2.00"	1.10"	0.63"	0.63"	4.13"	2.04"	3.39"	T07ER1601
T12ER16AM20A11102	IR16-ER11-4.00"M	IR16	ER11M	4.00"	1.10"	0.63"	0.63"	6.13"	4.04"	5.39"	T07ER1601
T12ER16AM20A16051	IR16-ER16-2.00"M	IR16	ER16M	2.00"	1.10"	0.87"	0.87"	4.13"	2.04"	3.14"	T07ER1601
T12ER16AM20A16102	IR16-ER16-4.00"M	IR16	ER16M	4.00"	1.10"	0.87"	0.87"	6.13"	4.04"	5.14"	T07ER1601
T12ER16AM20A20051	IR16-ER20-2.00"M	IR16	ER20M	2.00"	1.10"	1.10"	1.10"	4.13"	x	3.02"	T07ER1601
T12ER16AM20A20102	IR16-ER20-4.00"M	IR16	ER20M	4.00"	1.10"	1.10"	1.10"	6.13"	x	5.02"	T07ER1601

**Order Number Instruction**

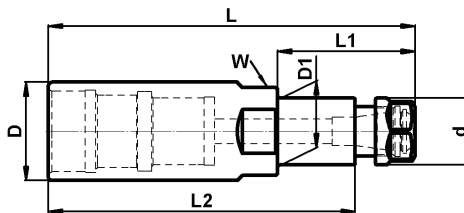




**ER COLLET CHUCK - 020 EXTENSION**

**Quality**

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



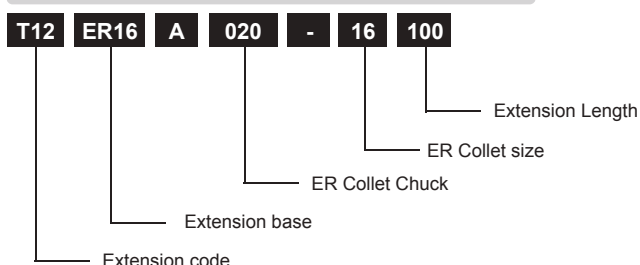
**ER COLLET CHUCK METRIC**

Order Number	Part Name	Base	Extension Size	Extension Length	D	D1	d	L	L1	L2	Wrench
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	19	19	19	95	x	78	T07ER1101
T12ER11A020-11100	IR11-ER11-100	IR11	ER11	100	19	19	19	135	x	118	T07ER1101
T12ER16A020-11060	IR16-ER11-060	IR16	ER11	60	28	19	19	114	48.5	97	T07ER1601
T12ER16A020-11100	IR16-ER11-100	IR16	ER11	100	28	19	19	154	88.5	137	T07ER1601
T12ER16A020-16060	IR16-ER16-060	IR16	ER16	60	28	28	28	115	x	88.5	T07ER1601
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	28	28	28	155	x	128.5	T07ER1601
T12ER16A020-20112	IR16-ER16-112	IR16	ER16	112	28	28	28	167	x	140.5	T07ER1601
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	100	34	28	28	156	105.6	129.5	T07IR2004
T12ER20A020-16112	IR20-ER16-112	IR20	ER16	112	34	28	28	168	117.6	141.5	T07IR2004
T12ER20A020-20060	IR20-ER20-060	IR20	ER20	60	34	34	34	117	x	89	T07IR2004
T12ER20A020-20100	IR20-ER20-100	IR20	ER20	100	34	34	34	157	x	129	T07IR2004
T12ER20A020-20112	IR20-ER20-112	IR20	ER20	112	34	34	34	166	x	141	T07IR2004
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	100	42	28	28	163	104.5	136.5	T07ER2502
T12ER25A020-16112	IR25-ER16-112	IR25	ER16	112	42	28	28	175	116.5	148.5	T07ER2502
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	100	42	34	34	164	104.5	136	T07ER2502
T12ER25A020-25060	IR25-ER25-060	IR25	ER25	60	42	42	42	122	x	90	T07ER2504
T12ER25A020-25100	IR25-ER25-100	IR25	ER25	100	42	42	42	162	x	130	T07ER2504
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	100	50	28	28	166	109	140	T07ER3202
T12ER32A020-20112	IR32-ER16-112	IR32	ER16	112	50	28	28	178	121	152	T07ER3202
T12ER32A020-20100	IR32-ER20-100	IR32	ER20	100	50	35	34	166	86	137.5	T07ER3202
T12ER32A020-20112	IR32-ER20-112	IR32	ER20	112	50	35	34	178	98	149.5	T07ER3202
T12ER32A020-25100	IR32-ER25-100	IR32	ER25	100	50	42	42	166	106	108.5	T07ER3202
T12ER32A020-25112	IR32-ER25-112	IR32	ER25	112	50	42	42	178	118	120.5	T07ER3202
T12ER32A020-32060	IR32-ER32-060	IR32	ER32	60	50	50	50	126	x	94	T07IR3204
T12ER32A020-32100	IR32-ER32-100	IR32	ER32	100	50	50	50	166	x	134	T07IR3204
T12ER32A020-32112	IR32-ER32-112	IR32	ER32	112	50	50	50	178	x	146	T07IR3204
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	100	63	42	42	170	141	112.5	T07ER4002
T12ER40A020-25112	IR40-ER25-112	IR40	ER25	112	63	42	42	182	153	124.5	T07ER4002
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	100	63	50	50	170	112	138	T07ER4002
T12ER40A020-32112	IR40-ER32-112	IR40	ER32	112	63	50	50	182	124	150	T07ER4002
T12ER40A020-40060	IR40-ER40-060	IR40	ER40	60	63	63	63	130	x	92.5	T07IR4004
T12ER40A020-40100	IR40-ER40-100	IR40	ER40	100	63	63	63	170	x	132.5	T07IR4004
T12ER40A020-40112	IR40-ER40-112	IR40	ER40	112	63	63	63	182	x	144.5	T07IR4004

**ER COLLET CHUCK INCH**

Order Number	Part Name	Base	Extension Size	Extension Length	D	D1	d	L	L1	L2	W Wrench
T12ER11A020A11051	IR11-ER11-2.00"	IR11	ER11	2.00"	0.75"	0.75"	0.47"	3.38"	x	2.71"	T07ER1101
T12ER11A020A11102	IR11-ER11-4.00"	IR11	ER11	4.00"	0.75"	0.75"	0.47"	5.38"	x	4.71"	T07ER1101
T12ER16A020A11051	IR16-ER11-2.00"	IR16	ER11	2.00"	1.10"	1.10"	0.75"	4.13"	1.55"	3.46"	T07ER1601
T12ER16A020A11102	IR16-ER11-4.00"	IR16	ER11	4.00"	1.10"	1.10"	0.75"	6.13"	3.55"	5.46"	T07ER1601
T12ER16A020A16051	IR16-ER16-2.00"	IR16	ER16	2.00"	1.10"	1.10"	1.10"	4.16"	x	3.13"	T07ER1601
T12ER16A020A16102	IR16-ER16-4.00"	IR16	ER16	4.00"	1.10"	1.10"	1.10"	6.16"	x	5.13"	T07ER1601
T12ER20A020A20051	IR20-ER20-2.00"	IR20	ER20	2.00"	1.34"	1.34"	1.34"	4.23"	x	3.14"	T07IR2004
T12ER20A020A20102	IR20-ER20-4.00"	IR20	ER20	4.00"	1.34"	1.34"	1.34"	6.23"	x	5.14"	T07IR2004
T12ER25A020A25051	IR25-ER25-2.00"	IR25	ER25	2.00"	1.66"	1.66"	1.66"	4.44"	x	3.18"	T07IR2504
T12ER25A020A25102	IR25-ER25-4.00"	IR25	ER25	4.00"	1.66"	1.66"	1.66"	6.44"	x	5.18"	T07IR2504
T12ER32A020A32051	IR32-ER32-2.00"	IR32	ER32	2.00"	1.97"	1.97"	1.97"	4.58"	x	3.34"	T07IR3204
T12ER32A020A32102	IR32-ER32-4.00"	IR32	ER32	4.00"	1.97"	1.97"	1.97"	6.58"	x	5.34"	T07IR3204
T12ER40A020A40051	IR40-ER40-2.00"	IR40	ER40	2.00"	2.48"	2.48"	2.48"	4.74"	x	3.28"	T07IR4004
T12ER40A020A40102	IR40-ER40-4.00"	IR40	ER40	4.00"	2.48"	2.48"	2.48"	6.74"	x	5.28"	T07IR4004

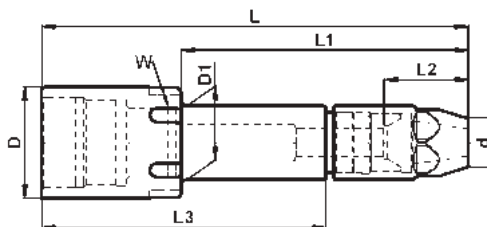
**Order Number Instruction**



**REVERSED ER COLLET CHUCK - 920 EXTENSION REVERSED**

**Quality**

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm



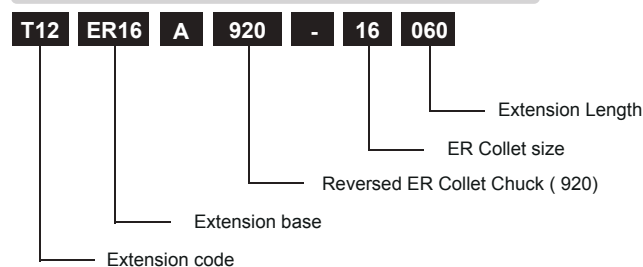
**REVERSED ER COLLET CHUCK METRIC**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	L3	W Wrench
			Size	Length								
T12ER16A920-16060	IR16-ER16-060-IN	IR16	ER16-IN	60	28	28	19	114	114	19	x	T07ER1601
T12ER16A920-16100	IR16-ER16-100-IN	IR16	ER16-IN	100	28	28	19	154	154	19	x	T07ER1601
T12ER16A920-16112	IR16-ER16-112-IN	IR16	ER16-IN	112	28	28	19	166	166	19	x	T07ER1601
T12ER20A920-16100	IR20-ER16-100-IN	IR20	ER16-IN	100	34	28	19	155	102	19	101	T07IR2004
T12ER20A920-16112	IR20-ER16-112-IN	IR20	ER16-IN	112	34	28	19	167	114	19	113	T07IR2004
T12ER20A920-20060	IR20-ER20-060-IN	IR20	ER20-IN	60	34	34	23	110	110	20	x	T07IR2004
T12ER20A920-20100	IR20-ER20-100-IN	IR20	ER20-IN	100	34	34	23	150	150	20	x	T07IR2004
T12ER20A920-20112	IR20-ER20-112-IN	IR20	ER20-IN	112	34	34	23	167	167	20	x	T07IR2004
T12ER25A920-16100	IR25-ER16-100-IN	IR25	ER16-IN	100	42	28	19	151	83	19	108	T07ER2502
T12ER25A920-16112	IR25-ER16-112-IN	IR25	ER16-IN	112	42	28	19	163	95	19	120	T07ER2502
T12ER25A920-20100	IR25-ER20-100-IN	IR25	ER20-IN	100	42	35	23	131	73	20	107	T07ER2502
T12ER25A920-20112	IR25-ER20-112-IN	IR25	ER20-IN	112	42	35	23	153	85	20	119	T07ER2502
T12ER25A920-25060	IR25-ER25-060-IN	IR25	ER25-IN	60	42	42	28	122	122	22	x	T07IR2504
T12ER25A920-25100	IR25-ER25-100-IN	IR25	ER25-IN	100	42	42	28	162	162	22	x	T07IR2504
T12ER25A920-25112	IR25-ER25-112-IN	IR25	ER25-IN	112	42	42	28	174	174	22	x	T07IR2504
T12ER32A920-16100	IR32-ER16-100-IN	IR32	ER16-IN	100	50	28	19	155	73	19	111	T07ER3202
T12ER32A920-16112	IR32-ER16-112-IN	IR32	ER16-IN	112	50	28	19	167	85	19	123	T07ER3202
T12ER32A920-20100	IR32-ER20-100-IN	IR32	ER20-IN	100	50	35	23	158	88	20	110	T07ER3202
T12ER32A920-20112	IR32-ER20-112-IN	IR32	ER20-IN	112	50	35	23	170	100	20	122	T07ER3202
T12ER32A920-25100	IR32-ER25-100-IN	IR32	ER25-IN	100	50	42	28	160	101	22	103	T07ER3202
T12ER32A920-25112	IR32-ER25-112-IN	IR32	ER25-IN	112	50	42	28	172	113	22	115	T07ER3202
T12ER32A920-32060	IR32-ER32-060-IN	IR32	ER32-IN	60	50	50	34	125	125	25	x	T07IR3204
T12ER32A920-32100	IR32-ER32-100-IN	IR32	ER32-IN	100	50	50	34	165	165	25	x	T07IR3204
T12ER40A920-25100	IR40-ER25-100-IN	IR40	ER25-IN	100	63	42	28	170	98	22	107	T07ER4002
T12ER40A920-25112	IR40-ER25-112-IN	IR40	ER25-IN	112	63	42	28	182	110	22	119	T07ER4002
T12ER40A920-32100	IR40-ER32-100-IN	IR40	ER32-IN	100	63	50	34	170	75	25	104	T07ER4002
T12ER40A920-32112	IR40-ER32-112-IN	IR40	ER32-IN	112	63	50	34	182	87	25	116	T07ER4002
T12ER40A920-40060	IR40-ER40-060-IN	IR40	ER40-IN	60	63	63	42	130	130	24	x	T07IR4004
T12ER40A920-40100	IR40-ER40-100-IN	IR40	ER40-IN	100	63	63	42	170	170	24	x	T07IR4004
T12ER40A920-40112	IR40-ER40-112-IN	IR40	ER40-IN	112	63	63	42	182	182	24	x	T07IR4004

**REVERSED ER COLLET CHUCK INCH**

Order Number	Part Name	Base	Extension		D	D1	d	L	L1	L2	L3	W Wrench
			Size	Length								
T12ER16A920A16051	IR16-ER16-2.00"-IN	IR16	ER16-IN	2.00"	1.10"	1.10"	0.75"	4.15"	4.15"	0.77"	x	T07ER1601
T12ER16A920A16102	IR16-ER16-4.00"-IN	IR16	ER16-IN	4.00"	1.10"	1.10"	0.75"	6.15"	6.15"	0.77"	x	T07ER1601
T12ER20A920A20051	IR20-ER20-2.00"-IN	IR20	ER20-IN	2.00"	1.34"	1.34"	0.91"	3.98"	3.98"	0.79"	x	T07IR2004
T12ER20A920A20102	IR20-ER20-4.00"-IN	IR20	ER20-IN	4.00"	1.34"	1.34"	0.91"	5.98"	5.98"	0.79"	x	T07IR2004
T12ER25A920A25051	IR25-ER25-2.00"-IN	IR25	ER25-IN	2.00"	1.66"	1.66"	1.11"	4.45"	4.45"	0.87"	x	T07IR2504
T12ER25A920A25102	IR25-ER25-4.00"-IN	IR25	ER25-IN	4.00"	1.66"	1.66"	1.11"	6.45"	6.45"	0.87"	x	T07IR2504
T12ER32A920A32051	IR32-ER32-2.00"-IN	IR32	ER32-IN	2.00"	1.97"	1.97"	1.34"	4.57"	4.57"	1.01"	x	T07IR3204
T12ER32A920A32102	IR32-ER32-4.00"-IN	IR32	ER32-IN	4.00"	1.97"	1.97"	1.34"	6.58"	6.58"	1.01"	x	T07IR3204
T12ER40A920A40051	IR40-ER40-2.00"-IN	IR40	ER40-IN	2.00"	2.48"	2.48"	1.66"	4.77"	4.77"	0.98"	x	T07IR4004
T12ER40A920A40102	IR40-ER40-4.00"-IN	IR40	ER40-IN	4.00"	2.48"	2.48"	1.66"	6.78"	6.78"	0.98"	x	T07IR4004

**Order Number Instruction**

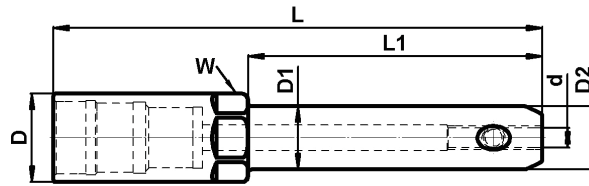


**END MILL HOLDER COOLANT SLOT - 030 EXTENSION**

**COOLANT SLOT**

**Quality**

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm(0.0002")
- Balance: G2.5, 2500rpm



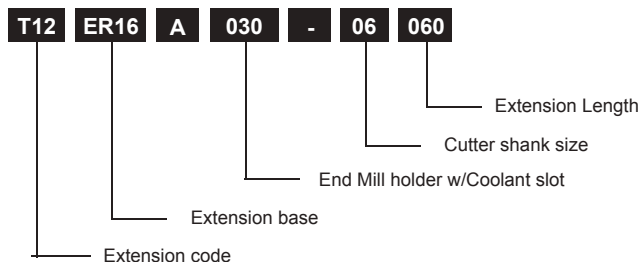
**END MILL HOLDER COOLANT SLOT METRIC**

Order Number	Part Name	Base	Extension		D	D1	D2	d	L	L1	W Wrench
			Size	Length							
T12ER16A030-06060	IR16-EM06-060J	IR16	EM06	60	28	25	25	6	114	52	T07ER1601
T12ER16A030-06100	IR16-EM06-100J	IR16	EM06	100	28	25	25	6	154	92	T07ER1601
T12ER16A030-08060	IR16-EM08-060J	IR16	EM08	60	28	28	28	8	114	x	T07ER1601
T12ER16A030-08100	IR16-EM08-100J	IR16	EM08	100	28	28	28	8	154	x	T07ER1601
T12ER20A030-10060	IR20-EM10-060J	IR20	EM10	60	34	35	35	10	115	65	T07IR2004
T12ER20A030-10100	IR20-EM10-100J	IR20	EM10	100	34	35	35	10	155	105	T07IR2004
T12ER25A030-12060	IR25-EM12-060J	IR25	EM12	60	42	42	42	12	122	x	T07IR2504
T12ER25A030-12100	IR25-EM12-100J	IR25	EM12	100	42	42	42	12	162	x	T07IR2504
T12ER25A030-16060	IR25-EM16-060J	IR25	EM16	60	42	48	48	16	122	62	T07IR2504
T12ER25A030-16100	IR25-EM16-100J	IR25	EM16	100	42	48	48	16	162	102	T07IR2504
T12ER32A030-16060	IR32-EM16-060J	IR32	EM16	60	50	48	48	16	126	65	T07IR3204
T12ER32A030-16100	IR32-EM16-100J	IR32	EM16	100	50	48	48	16	166	105	T07IR3204
T12ER32A030-20060	IR32-EM20-060J	IR32	EM20	60	50	52	52	20	126	65	T07IR3204
T12ER32A030-20100	IR32-EM20-100J	IR32	EM20	100	50	52	52	20	166	105	T07IR3204
T12ER40A030-20100	IR40-EM20-100J	IR40	EM20	100	63	52	52	20	170	109	T07IR4004
T12ER40A030-25060	IR40-EM25-060J	IR40	EM25	60	63	63	63	25	130	x	T07IR4004
T12ER40A030-25100	IR40-EM25-100J	IR40	EM25	100	63	63	63	25	170	x	T07IR4004
T12ER41A030-32060	IR41-EM32-060J	IR41	EM32	60	70	72	72	32	130	69	T07IR4104
T12ER41A030-32100	IR41-EM32-100J	IR41	EM32	100	70	72	72	32	170	109	T07IR4104

**END MILL HOLDER COOLANT SLOT INCH**

Order Number	Part Name	Base	Extension		D	D1	D2	d	L	L1	W Wrench
			Size	Length							
T12ER11A030A03051	IR11-EM1/8"-2.00"J	IR11	EM1/8"	2.00"	0.75"	0.69"	0.69"	1/8"	3.38"	1.80"	T07ER1101
T12ER11A030A03102	IR11-EM1/8"-4.00"J	IR11	EM1/8"	4.00"	0.75"	0.69"	0.69"	1/8"	5.38"	3.80"	T07ER1101
T12ER11A030A05051	IR11-EM3/16"-2.00"J	IR11	EM3/16"	2.00"	0.75"	0.79"	0.79"	3/16"	3.38"	1.96"	T07ER1101
T12ER11A030A05102	IR11-EM3/16"-4.00"J	IR11	EM3/16"	4.00"	0.75"	0.79"	0.79"	3/16"	5.38"	3.96"	T07ER1101
T12ER11A030A06051	IR11-EM1/4"-2.00"J	IR11	EM1/4"	2.00"	0.75"	0.79"	0.79"	1/4"	3.38"	1.96"	T07ER1101
T12ER11A030A06102	IR11-EM1/4"-4.00"J	IR11	EM1/4"	4.00"	0.75"	0.79"	0.79"	1/4"	5.38"	3.96"	T07ER1101
T12ER16A030A06051	IR16-EM1/4"-2.00"J	IR16	EM1/4"	2.00"	1.10"	0.79"	0.79"	1/4"	4.13"	1.68"	T07ER1601
T12ER16A030A06102	IR16-EM1/4"-4.00"J	IR16	EM1/4"	4.00"	1.10"	0.79"	0.79"	1/4"	6.13"	3.68"	T07ER1601
T12ER16A030A08051	IR16-EM5/16"-2.00"J	IR16	EM5/16"	2.00"	1.10"	1.00"	1.00"	5/16"	4.13"	1.68"	T07ER1601
T12ER16A030A08102	IR16-EM5/16"-4.00"J	IR16	EM5/16"	4.00"	1.10"	1.00"	1.00"	5/16"	6.13"	3.68"	T07ER1601
T12ER16A030A09051	IR16-EM3/8"-2.00"J	IR16	EM3/8"	2.00"	1.10"	1.00"	1.00"	3/8"	4.13"	1.68"	T07ER1601
T12ER16A030A09102	IR16-EM3/8"-4.00"J	IR16	EM3/8"	4.00"	1.10"	1.00"	1.00"	3/8"	6.13"	3.68"	T07ER1601
T12ER20A030A12051	IR20-EM1/2"-2.00"J	IR20	EM1/2"	2.00"	1.34"	1.38"	1.38"	1/2"	4.17"	2.20"	T07IR2004
T12ER20A030A12102	IR20-EM1/2"-4.00"J	IR20	EM1/2"	4.00"	1.34"	1.38"	1.38"	1/2"	6.17"	4.20"	T07IR2004
T12ER25A030A16051	IR25-EM5/8"-2.00"J	IR25	EM5/8"	2.00"	1.65"	1.65"	1.65"	5/8"	4.44"	x	T07IR2504
T12ER25A030A16102	IR25-EM5/8"-4.00"J	IR25	EM5/8"	4.00"	1.65"	1.65"	1.65"	5/8"	6.44"	x	T07IR2504
T12ER25A030A19051	IR25-EM3/4"-2.00"J	IR25	EM3/4"	2.00"	1.65"	1.89"	1.89"	3/4"	4.44"	2.08"	T07IR2504
T12ER25A030A19102	IR25-EM3/4"-4.00"J	IR25	EM3/4"	4.00"	1.65"	1.89"	1.89"	3/4"	6.44"	4.08"	T07IR2504
T12ER32A030A22051	IR32-EM7/8"-2.00"J	IR32	EM7/8"	2.00"	1.97"	2.00"	2.00"	7/8"	4.58"	X	T07IR3204
T12ER32A030A22102	IR32-EM7/8"-4.00"J	IR32	EM7/8"	4.00"	1.97"	2.00"	2.00"	7/8"	6.58"	X	T07IR3204
T12ER40A030A25051	IR40-EM1"-2.00"J	IR40	EM1"	2.00"	2.48"	2.48"	2.48"	1"	4.74"	X	T07IR4004
T12ER40A030A25102	IR40-EM1"-4.00"J	IR40	EM1"	4.00"	2.48"	2.48"	2.48"	1"	6.74"	X	T07IR4004
T12ER40A030A32051	IR40-EM1 1/4"-2.00"J	IR40	EM1 1/4"	2.00"	2.48"	2.48"	2.48"	1 1/4"	4.74"	X	T07IR4004
T12ER40A030A32102	IR40-EM1 1/4"-4.00"J	IR40	EM1 1/4"	4.00"	2.48"	2.48"	2.48"	1 1/4"	6.74"	X	T07IR4004

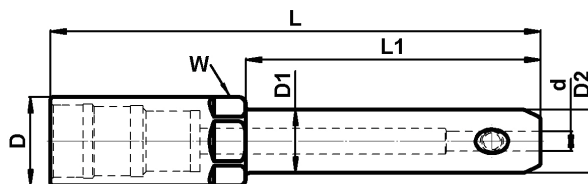
**Order Number Instruction**



END MILL HOLDER - 040 EXTENSION

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm(0.0002")
- Balance: G2.5, 25000rpm



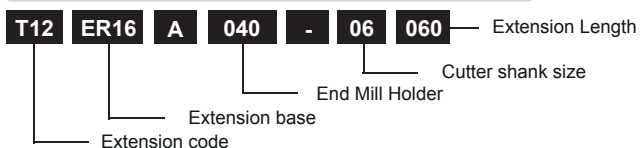
END MILL HOLDER METRIC

Order Number	Part Name	Base	Extension		D	D1	D2	d	L	L1	W Wrench
			Size	Length							
T12ER16A040-06060	IR16-EM06-060	IR16	EM06	60	28	25	25	6	114	52	T07ER1601
T12ER16A040-06100	IR16-EM06-100	IR16	EM06	100	28	25	25	6	154	92	T07ER1601
T12ER16A040-08060	IR16-EM08-060	IR16	EM08	60	28	28	28	8	114	x	T07ER1601
T12ER16A040-08100	IR16-EM08-100	IR16	EM08	100	28	28	28	8	154	x	T07ER1601
T12ER20A040-08112	IR20-EM08-112	IR20	EM08	112	34	28	28	8	167	x	T07IR2004
T12ER20A040-10060	IR20-EM10-060	IR20	EM10	60	34	35	35	10	115	65	T07IR2004
T12ER20A040-10100	IR20-EM10-100	IR20	EM10	100	34	35	35	10	155	105	T07IR2004
T12ER25A040-12060	IR25-EM12-060	IR25	EM12	60	42	42	42	12	122	x	T07IR2504
T12ER25A040-12100	IR25-EM12-100	IR25	EM12	100	42	42	42	12	162	x	T07IR2504
T12ER25A040-14060	IR25-EM14-060	IR25	EM14	60	42	44	44	14	122	62	T07IR2504
T12ER25A040-14100	IR25-EM14-100	IR25	EM14	100	42	44	44	14	162	102	T07IR2504
T12ER25A040-16060	IR25-EM16-060	IR25	EM16	60	42	48	48	16	122	62	T07IR2504
T12ER25A040-16100	IR25-EM16-100	IR25	EM16	100	42	48	48	16	162	102	T07IR2504
T12ER32A040-16060	IR32-EM16-060	IR32	EM16	60	50	48	48	16	126	65	T07IR3204
T12ER32A040-16100	IR32-EM16-100	IR32	EM16	100	50	48	48	16	166	105	T07IR3204
T12ER32A040-18060	IR32-EM18-060	IR32	EM18	60	50	50	50	18	126	x	T07IR3204
T12ER32A040-18100	IR32-EM18-100	IR32	EM18	100	50	50	50	18	166	x	T07IR3204
T12ER32A040-20060	IR32-EM20-060	IR32	EM20	60	50	52	52	20	126	65	T07IR3204
T12ER32A040-20100	IR32-EM20-100	IR32	EM20	100	50	52	52	20	166	105	T07IR3204
T12ER40A040-20112	IR40-EM20-112	IR40	EM20	112	63	52	52	20	182	121	T07IR4004
T12ER40A040-25060	IR40-EM25-060	IR40	EM25	60	63	63	63	25	129.5	x	T07IR4004
T12ER40A040-25100	IR40-EM25-100	IR40	EM25	100	63	63	63	25	169.5	x	T07IR4004
T12ER40A040-25112	IR40-EM25-112	IR40	EM25	112	63	63	63	25	181.5	x	T07IR4004
T12ER41A040-32060	IR41-EM32-060	IR41	EM32	60	70	72	72	32	129.5	69	T07IR4004
T12ER41A040-32100	IR41-EM32-100	IR41	EM32	100	70	72	72	32	169.5	109	T07IR4004
T12ER41A040-40100	IR41-EM40-100	IR41	EM40	100	70	80	80	40	169.5	109	T07IR4004
T12ER41A040-42100	IR41-EM42-100	IR41	EM40	100	70	80	80	42	169.5	109	T07IR4004
T12ER42A040-50100	IR42-EM50-100	IR42	EM50	100	85	92	92	50	169.5	109	T07IR4004

END MILL HOLDER INCH

Order Number	Part Name	Base	Extension		D	D1	D2	d	L	L1	W Wrench
			Size	Length							
T12ER11A040A03051	IR11-EM1/8"-2.00"	IR11	EM1/8"	2.00"	0.75"	0.69"	0.69"	1/8"	3.38"	1.80"	T07ER1101
T12ER11A040A03102	IR11-EM1/8"-4.00"	IR11	EM1/8"	4.00"	0.75"	0.69"	0.69"	1/8"	5.38"	3.80"	T07ER1101
T12ER11A040A05051	IR11-EM3/16"-2.00"	IR11	EM3/16"	2.00"	0.75"	0.79"	0.79"	3/16"	3.38"	1.96"	T07ER1101
T12ER11A040A05102	IR11-EM3/16"-4.00"	IR11	EM3/16"	4.00"	0.75"	0.79"	0.79"	3/16"	5.38"	3.96"	T07ER1101
T12ER11A040A06051	IR11-EM1/4"-2.00"	IR11	EM1/4"	2.00"	0.75"	0.79"	0.79"	1/4"	3.38"	1.96"	T07ER1101
T12ER11A040A06102	IR11-EM1/4"-4.00"	IR11	EM1/4"	4.00"	0.75"	0.79"	0.79"	1/4"	5.38"	3.96"	T07ER1101
T12ER16A040A06051	IR16-EM1/4"-2.00"	IR16	EM1/4"	2.00"	1.10"	0.79"	0.79"	1/4"	4.13"	1.68"	T07ER1601
T12ER16A040A06102	IR16-EM1/4"-4.00"	IR16	EM1/4"	4.00"	1.10"	0.79"	0.79"	1/4"	6.13"	3.68"	T07ER1601
T12ER16A040A08051	IR16-EM5/16"-2.00"	IR16	EM5/16"	2.00"	1.10"	1.00"	1.00"	5/16"	4.13"	1.68"	T07ER1601
T12ER16A040A08102	IR16-EM5/16"-4.00"	IR16	EM5/16"	4.00"	1.10"	1.00"	1.00"	5/16"	6.13"	3.68"	T07ER1601
T12ER16A040A09051	IR16-EM3/8"-2.00"	IR16	EM3/8"	2.00"	1.10"	1.00"	1.00"	3/8"	4.13"	1.68"	T07ER1601
T12ER16A040A09102	IR16-EM3/8"-4.00"	IR16	EM3/8"	4.00"	1.10"	1.00"	1.00"	3/8"	6.13"	3.68"	T07ER1601
T12ER20A040A12051	IR20-EM1/2"-2.00"	IR20	EM1/2"	2.00"	1.34"	1.34"	1.34"	1/2"	4.17"	2.20"	T07IR2004
T12ER20A040A12102	IR20-EM1/2"-4.00"	IR20	EM1/2"	4.00"	1.34"	1.34"	1.34"	1/2"	6.17"	4.20"	T07IR2004
T12ER25A040A16051	IR25-EM5/8"-2.00"	IR25	EM5/8"	2.00"	1.65"	1.65"	1.65"	5/8"	4.44"	x	T07IR2504
T12ER25A040A16102	IR25-EM5/8"-4.00"	IR25	EM5/8"	4.00"	1.65"	1.65"	1.65"	5/8"	6.44"	x	T07IR2504
T12ER25A040A19051	IR25-EM3/4"-2.00"	IR25	EM3/4"	2.00"	1.65"	1.94"	1.94"	3/4"	4.44"	2.08"	T07IR2504
T12ER25A040A19102	IR25-EM3/4"-4.00"	IR25	EM3/4"	4.00"	1.65"	1.94"	1.94"	3/4"	6.44"	4.08"	T07IR2504
T12ER32A040A22051	IR32-EM7/8"-2.00"	IR32	EM7/8"	2.00"	1.97"	2.00"	2.48"	7/8"	4.58"	x	T07IR3204
T12ER32A040A22102	IR32-EM7/8"-4.00"	IR32	EM7/8"	4.00"	1.97"	2.00"	2.48"	7/8"	6.58"	x	T07IR3204
T12ER40A040A25051	IR40-EM1"-2.00"	IR40	EM1"	2.00"	2.48"	2.36"	2.36"	1"	4.74"	x	T07IR4004
T12ER40A040A25102	IR40-EM1"-4.00"	IR40	EM1"	4.00"	2.48"	2.36"	2.36"	1"	6.74"	x	T07IR4004
T12ER40A040A32051	IR40-EM1 1/4"-2.00"	IR40	EM1 1/4"	2.00"	2.48"	2.48"	2.48"	1 1/4"	4.74"	x	T07IR4004
T12ER40A040A32102	IR40-EM1 1/4"-4.00"	IR40	EM1 1/4"	4.00"	2.48"	2.48"	2.48"	1 1/4"	6.74"	x	T07IR4004
T12ER41A040A38102	IR41-EM1 1/2"-4.00"	IR41	EM1 1/2"	4.00"	2.75"	2.75"	2.75"	1 1/2"	6.74"	4.40"	T07IR4104
T12ER41A040A50102	IR41-EM2"-4.00"	IR41	EM2"	4.00"	2.75"	3.75"	3.75"	2"	6.74"	4.40"	T07IR4104

Order Number Instruction

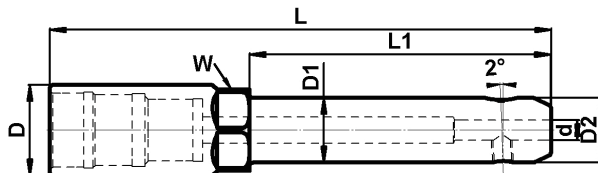


**END MILL HOLDER WHISTLE - 050 EXTENSION**

**WHISTLE**

**Quality**

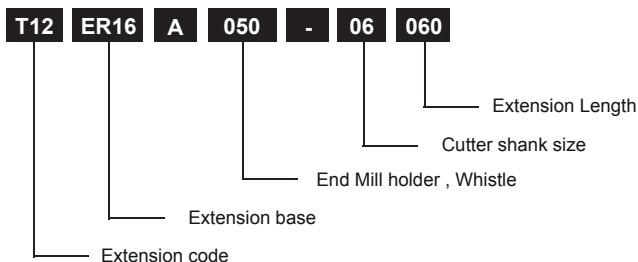
- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm(0.0002")
- Balance: G2.5, 25000rpm



**END MILL HOLDER WHISTLE METRIC**

Order Number	Part Name	Base	Extension		D	D1	D2	d	L	L1	W Wrench
			Size	Length							
T12ER16A050-06060	IR16-EMW06-060	IR16	EM06	60	28	25	25	6	114	52	T07ER1601
T12ER16A050-06100	IR16-EMW06-100	IR16	EM06	100	28	25	25	6	154	92	T07ER1601
T12ER16A050-08060	IR16-EMW08-060	IR16	EM08	60	28	28	28	8	114	x	T07ER1601
T12ER16A050-08100	IR16-EMW08-100	IR16	EM08	100	28	28	28	8	154	x	T07ER1601
T12ER20A050-10060	IR20-EMW10-060	IR20	EM10	60	34	35	35	10	115	65	T07IR2004
T12ER20A050-10100	IR20-EMW10-100	IR20	EM10	100	34	35	35	10	155	105	T07IR2004
T12ER25A050-12060	IR25-EMW12-060	IR25	EM12	60	42	42	42	12	122	x	T07IR2504
T12ER25A050-12100	IR25-EMW12-100	IR25	EM12	100	42	42	42	12	162	x	T07IR2504
T12ER25A050-14060	IR25-EMW14-060	IR25	EM14	60	42	44	44	14	122	62	T07IR2504
T12ER25A050-14100	IR25-EMW14-100	IR25	EM14	100	42	44	44	14	162	102	T07IR2504
T12ER25A050-16060	IR25-EMW16-060	IR25	EM16	60	42	48	48	16	122	62	T07IR2504
T12ER25A050-16100	IR25-EMW16-100	IR25	EM16	100	42	48	48	16	162	102	T07IR2504
T12ER32A050-16060	IR32-EMW16-060	IR32	EM16	60	50	48	48	16	126	65	T07IR3204
T12ER32A050-16100	IR32-EMW16-100	IR32	EM16	100	50	48	48	16	166	105	T07IR3204
T12ER32A050-18060	IR32-EMW18-060	IR32	EM18	60	50	50	50	18	126	x	T07IR3204
T12ER32A050-18100	IR32-EMW18-100	IR32	EM18	100	50	50	50	18	166	x	T07IR3204
T12ER32A050-20060	IR32-EMW20-060	IR32	EM20	60	50	52	52	20	126	65	T07IR3204
T12ER32A050-20100	IR32-EMW20-100	IR32	EM20	100	50	52	52	20	166	105	T07IR3204

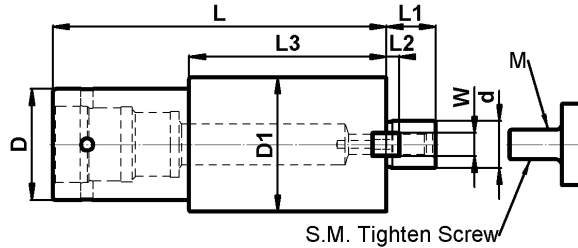
**Order Number Instruction**



**SHELL MILLING HOLDER - 120 EXTENSION**

**Quality**

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm (0.0002")
- Balance: G2.5, 2500rpm



**SHELL MILLING HOLDER METRIC**

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER20A120-16060	IR20-SM16-060	IR20	SM16	60	16	115	34	38	17	5	8	M8	61
T12ER20A120-16100	IR20-SM16-100	IR20	SM16	100	16	155	34	38	17	5	8	M8	101
T12ER25A120-16060	IR25-SM16-060	IR25	SM16	60	16	122	42	38	17	5	8	M8	64
T12ER25A120-16100	IR25-SM16-100	IR25	SM16	100	16	162	42	38	17	5	8	M8	104
T12ER32A120-22060	IR32-SM22-060	IR32	SM22	60	22	89	50	50	19	5	10	M10	x
T12ER32A120-22096	IR32-SM22-096	IR32	SM22	96	22	125	50	50	19	5	10	M10	x
T12ER32A120-22100	IR32-SM22-100	IR32	SM22	100	22	129	50	50	19	5	10	M10	x
T12ER32A120-22060-01	IR32-SMB22-060	IR32	SM22	60	22	89	50	60	19	5	10	M10	26
T12ER32A120-22100-01	IR32-SMB22-100	IR32	SM22	100	22	129	50	60	19	5	10	M10	66
T12ER32A120-27060	IR32-SM27-060	IR32	SM27	60	27	89	50	60	21	6	12	M12	26
T12ER32A120-27100	IR32-SM27-100	IR32	SM27	100	27	129	50	60	21	6	12	M12	66
T12ER40A120-27060	IR40-SM27-060	IR40	SM27	60	27	130	63	60	21	6	12	M12	69.5
T12ER40A120-27100	IR40-SM27-100	IR40	SM27	100	27	170	63	60	21	6	12	M12	109.5
T12ER41A120-27060-01	IR41-SMB27-060	IR41	SM32	60	27	130	70	80	21	6	12	M12	69.5
T12ER41A120-27100-01	IR41-SMB27-100	IR41	SM32	100	27	170	70	80	21	6	12	M12	109.5
T12ER41A120-32060	IR41-SM32-060	IR41	SM32	60	32	130	70	78	24	7	14	M16	69.5
T12ER41A120-32100	IR41-SM32-100	IR41	SM32	100	32	170	70	78	24	7	14	M16	109.5
T12ER42A120-40060	IR42-SM40-060	IR42	SM40	60	40	130	85	89	27	8.5	16	M20	69.5
T12ER42A120-40100	IR42-SM40-100	IR42	SM40	100	40	170	85	89	27	8.5	16	M20	109.5
T12ER42A120-60060	IR42-SM60-060	IR42	SM60	60	60	130	85	129	40	12.5	25.4	M16*4	69.5
T12ER42A120-60100	IR42-SM60-100	IR42	SM60	100	60	170	85	129	40	12.5	25.4	M16*4	109.5

**SHELL MILLING HOLDER INCH**

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER25A120A19063	IR25-SM3/4"-2.50"	IR25	SM 3/4"	2.50"	3/4"	4.67"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER25A120A19102	IR25-SM3/4"-4.00"	IR25	SM 3/4"	4.00"	3/4"	6.17"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A120A19063-01	IR32-SMB3/4"-2.50"	IR32	SM3/4"	2.50"	3/4"	3.64"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A120A19102-01	IR32-SMB3/4"-4.00"	IR32	SM3/4"	4.00"	3/4"	5.14"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A120A25063	IR32-SM1"-2.50"	IR32	SM1"	2.50"	1"	3.64"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	2.60"
T12ER32A120A25102	IR32-SM1"-4.00"	IR32	SM1"	4.00"	1"	5.14"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	4.60"
T12ER40A120A25063-01	IR40-SMB1"-2.50"	IR41	SM1"	2.50"	1"	5.24"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER40A120A25102-01	IR40-SMB1"-4.00"	IR41	SM1"	4.00"	1"	6.74"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER41A120A32063	IR41-SM1 1/4"-2.50"	IR41	SM11/4"	2.50"	1 1/4"	5.24"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A120A32102	IR41-SM1 1/4"-4.00"	IR41	SM11/4"	4.00"	1 1/4"	6.74"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A120A32063-01	IR41-SMB1 1/4"-2.50"	IR41	SM11/4"	2.50"	1 1/4"	5.24"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	2.88"
T12ER41A120A32102-01	IR41-SMB1 1/4"-4.00"	IR41	SM11/4"	4.00"	1 1/4"	6.74"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	4.38"
T12ER42A120A38063	IR42-SM1 1/2"-2.50"	IR42	SM11/2"	2.50"	1 1/2"	5.24"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A120A38102	IR42-SM1 1/2"-4.00"	IR42	SM11/2"	4.00"	1 1/2"	6.74"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A120A38063-01	IR42-SMB1 1/2"-2.50"	IR42	SM11/2"	2.50"	1 1/2"	5.24"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A120A38102-01	IR42-SMB1 1/2"-4.00"	IR42	SM11/2"	4.00"	1 1/2"	6.74"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A120A50063	IR42-SM2"-2.50"	IR42	SM2"	2.50"	2"	5.24"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	2.88"
T12ER42A120A50102	IR42-SM2"-4.00"	IR42	SM2"	4.00"	2"	6.74"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	4.88"
T12ER42A120A50063-01	IR42-SMB2"-2.50"	IR42	SM2"	2.50"	2"	5.24"	3.35"	5.50"	0.94"	0.39"	3/4"	1"-14	2.88"

**ACCESSORIES:**

**DRIVING KEY METRIC**

Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40
T10SM60	SM60 Driving Key	SM60

**DRIVING KEY INCH**

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"

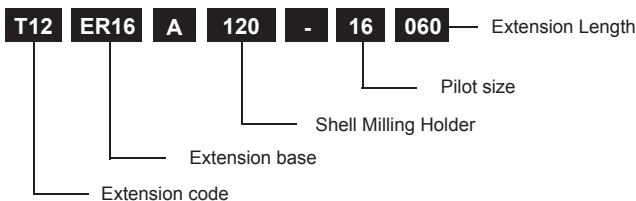
**LOCK SCREWS METRIC**

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40

**LOCK SCREWS INCH**

Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"

**Order Number Instruction**





**INFINITE TOOL HOLDERS**

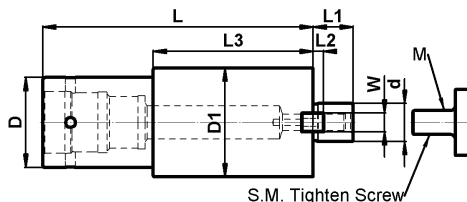
**I SYSTEM**  
SHELL MILLING HOLDER  
EXTENSION **METRIC / INCH**

**SHELL MILLING HOLDER COOLANT SLOT - 130**

**COOLANT SLOT**

**Quality**

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm (0.0002")
- Balance: G2.5, 25000rpm



**SHELL MILLING HOLDER COOLANT SLOT METRIC**

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER20A130-16060	IR20-SM16-060J	IR20	SM16	60	16	115	34	38	17	5	8	M8	61
T12ER20A130-16100	IR20-SM16-100J	IR20	SM16	100	16	155	34	38	17	5	8	M8	101
T12ER25A130-16060	IR25-SM16-060J	IR25	SM16	60	16	122	34	38	17	5	8	M8	64
T12ER25A130-16100	IR25-SM16-100J	IR25	SM16	100	16	162	42	38	17	5	8	M8	104
T12ER32A130-22060	IR32-SM22-060J	IR32	SM22	60	22	89	50	50	19	5	10	M10	x
T12ER32A130-22100	IR32-SM22-100J	IR32	SM22	100	22	129	50	50	19	5	10	M10	x
T12ER32A130-22060-01	IR32-SMB22-060J	IR32	SM22	60	22	89	50	60	19	5	10	M10	26
T12ER32A130-22100-01	IR32-SMB22-100J	IR32	SM22	100	22	129	50	60	19	5	10	M10	66
T12ER32A130-27060	IR32-SM27-060J	IR32	SM27	60	27	89	50	60	21	6	12	M12	26
T12ER32A130-27100	IR32-SM27-100J	IR32	SM27	100	27	129	50	60	21	6	12	M12	66
T12ER40A130-27060	IR40-SM27-060J	IR40	SM27	60	27	130	63	60	21	6	12	M12	69.5
T12ER40A130-27100	IR40-SM27-100J	IR40	SM27	100	27	170	63	60	21	6	12	M12	109.5
T12ER41A130-27060-01	IR41-SMB27-060J	IR41	SM32	60	27	130	70	80	21	6	12	M12	69.5
T12ER41A130-27100-01	IR41-SMB27-100J	IR41	SM32	100	27	170	70	80	21	6	12	M12	109.5
T12ER41A130-32060	IR41-SM32-060J	IR41	SM32	60	32	130	70	78	24	7	14	M16	69.5
T12ER41A130-32100	IR41-SM32-100J	IR41	SM32	100	32	170	70	78	24	7	14	M16	109.5
T12ER42A130-40060	IR42-SM40-060J	IR42	SM40	60	40	130	85	89	27	8.5	16	M20	69.5
T12ER42A130-40100	IR42-SM40-100J	IR42	SM40	100	40	170	85	89	27	8.5	16	M20	109.5
T12ER42A130-60060	IR42-SM60-060J	IR42	SM60	60	60	130	85	129	40	12.5	25.4	M16*4	69.5
T12ER42A130-60100	IR42-SM60-100J	IR42	SM60	100	60	170	85	129	40	12.5	25.4	M16*4	109.5

**SHELL MILLING HOLDER COOLANT SLOT INCH**

Order Number	Part Name	Base	Extension		d	L	D	D1	L1	L2	W	M	L3
			Size	Length									
T12ER25A130A19063	IR25-SM3/4"-2.50"J	IR25	SM 3/4"	2.50"	3/4"	4.67"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER25A130A19102	IR25-SM3/4"-4.00"J	IR25	SM 3/4"	4.00"	3/4"	6.17"	1.65"	1.65"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A130A19063-01	IR32-SMB3/4"-2.50"	IR32	SM3/4"	2.50"	3/4"	3.64"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A130A19102-01	IR32-SMB3/4"-4.00"	IR32	SM3/4"	4.00"	3/4"	5.14"	1.97"	1.97"	0.68"	0.18"	3/8"	3/8"-24	x
T12ER32A130A25063	IR32-SM1"-2.50"J	IR32	SM1"	2.50"	1"	3.64"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	2.60"
T12ER32A130A25102	IR32-SM1"-4.00"J	IR32	SM1"	4.00"	1"	5.14"	1.97"	2.25"	0.68"	0.22"	1/2"	1/2"-20	4.60"
T12ER40A130A25063-01	IR40-SMB1"-2.50"J	IR41	SM1"	2.50"	1"	5.24"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER40A130A25102-01	IR40-SMB1"-4.00"J	IR41	SM1"	4.00"	1"	6.74"	2.48"	2.48"	0.68"	0.22"	1/2"	1/2"-20	x
T12ER41A130A32063	IR41-SM1 1/4"-2.50"J	IR41	SM11/4"	2.50"	1 1/4"	5.24"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A130A32102	IR41-SM1 1/4"-4.00"J	IR41	SM11/4"	4.00"	1 1/4"	6.74"	2.75"	2.75"	0.68"	0.28"	1/2"	5/8"-18	x
T12ER41A130A32063-01	IR41-SMB1 1/4"-2.50"J	IR41	SM11/4"	2.50"	1 1/4"	5.24"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	2.88"
T12ER41A130A32102-01	IR41-SMB1 1/4"-4.00"J	IR41	SM11/4"	4.00"	1 1/4"	6.74"	2.75"	2.90"	0.68"	0.28"	1/2"	5/8"-18	4.38"
T12ER42A130A38063	IR42-SM1 1/2"-2.50"J	IR42	SM11/2"	2.50"	1 1/2"	5.24"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A130A38102	IR42-SM1 1/2"-4.00"J	IR42	SM11/2"	4.00"	1 1/2"	6.74"	3.35"	3.38"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A130A38063-01	IR42-SMB1 1/2"-2.50"J	IR42	SM11/2"	2.50"	1 1/2"	5.24"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	2.88"
T12ER42A130A38102-01	IR42-SMB1 1/2"-4.00"J	IR42	SM11/2"	4.00"	1 1/2"	6.74"	3.35"	3.90"	0.94"	0.35"	5/8"	3/4"-16	4.88"
T12ER42A130A50063	IR42-SM2"-2.50"J	IR42	SM2"	2.50"	2"	5.24"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	2.88"
T12ER42A130A50102	IR42-SM2"-4.00"J	IR42	SM2"	4.00"	2"	6.74"	3.35"	4.88"	0.94"	0.39"	3/4"	1"-14	4.88"
T12ER42A130A50063-01	IR42-SMB2"-2.50"J	IR42	SM2"	2.50"	2"	5.24"	3.35"	5.50"	0.94"	0.39"	3/4"	1"-14	2.88"

**ACCESSORIES:**

**DRIVING KEY METRIC**

Order Number	Part Name	Pilot Size
T10SM16	SM16 Driving Key	SM16
T10SM22	SM22 Driving Key	SM22
T10SM27	SM27 Driving Key	SM27
T10SM32	SM32 Driving Key	SM32
T10SM40	SM40 Driving Key	SM40
T10SM60	SM60 Driving Key	SM60

**DRIVING KEY INCH**

Order Number	Part Name	Pilot Size
T10SM19	SM3/4" Driving Key	SM3/4"
T10SM25.4	SM1" Driving Key	SM1"
T10SM31	SM1 1/4" Driving Key	SM1 1/4"
T10SM38	SM1 1/2" Driving Key	SM1 1/2"
T10SM50	SM2" Driving Key	SM2"
T10SM63	SM2 1/2" Driving Key	SM2 1/2"

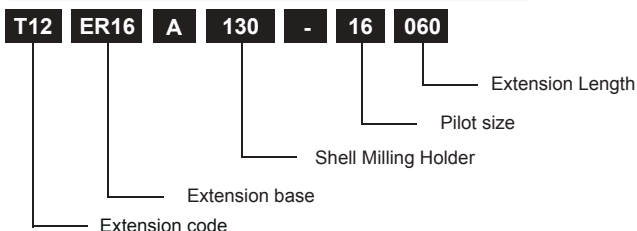
**LOCK SCREWS METRIC**

Order Number	Part Name	Pilot Size
T06SM16-BT	SM16 Lock Screw	SM16
T06SM22-BT	SM22 Lock Screw	SM22
T06SM27-BT	SM27 Lock Screw	SM27
T06SM32-BT	SM32 Lock Screw	SM32
T06SM40-BT	SM40 Lock Screw	SM40

**LOCK SCREWS INCH**

Order Number	Part Name	Pilot Size
T06SM19-CAT	SM3/4" Lock Screw	SM3/4"
T06SM25-CAT	SM1" Lock Screw	SM1"
T06SM32-CAT	SM1 1/4" Lock Screw	SM1 1/4"
T06SM38-CAT	SM1 1/2" Lock Screw	SM1 1/2"
T06SM50-CAT	SM2" Lock Screw	SM2"

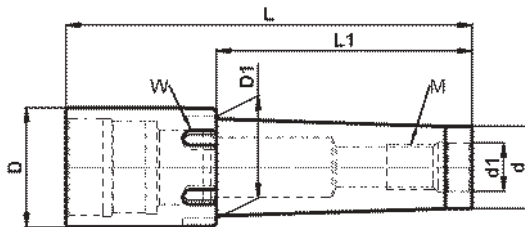
**Order Number Instruction**



**SCREW-IN HOLDER - 200** EXTENSION

**Quality**

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.005mm (0.0002")
- Balance: G2.5, 25000rpm



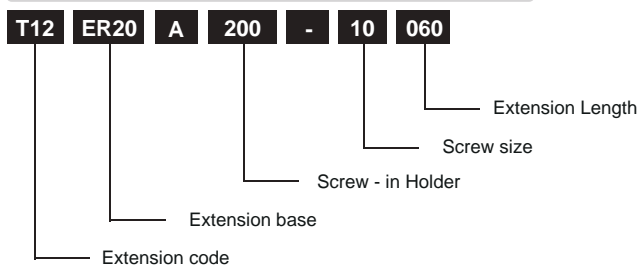
**SCREW-IN HOLDER METRIC**

Order Number	Part Name	Base	Extension		D	D1	d	d1	L	L1	M	W Wrench
			Size	Length								
T12ER11A200-08060	IR11-M08-060	IR11	M08	60	19	19	13	8.5	95	55	M8	T07ER1101
T12ER11A200-08100	IR11-M08-100	IR11	M08	100	19	19	13	8.5	135	95	M8	T07ER1101
T12ER11A200-10060	IR11-M10-060	IR11	M10	60	19	19	18	10.5	95	55	M10	T07ER1101
T12ER11A200-10100	IR11-M10-100	IR11	M10	100	19	19	18	10.5	135	95	M10	T07ER1101
T12ER16A200-10060	IR16-M10-060	IR16	M10	60	28	25	18	10.5	114	58	M10	T07ER1601
T12ER16A200-10100	IR16-M10-100	IR16	M10	100	28	25	18	10.5	154	98	M10	T07ER1601
T12ER16A200-12060	IR16-M12-060	IR16	M12	60	28	25	21	12.5	114	58	M12	T07ER1601
T12ER16A200-12100	IR16-M12-100	IR16	M12	100	28	25	21	12.5	154	98	M12	T07ER1601
T12ER20A200-10060	IR20-M10-060	IR20	M10	60	34	25	18	10.5	115	62	M10	T07ER2004
T12ER20A200-10100	IR20-M10-100	IR20	M10	100	34	25	18	10.5	155	102	M10	T07ER2004
T12ER20A200-10112	IR20-M10-112	IR20	M10	112	34	25	18	10.5	167	110	M10	T07ER2004
T12ER20A200-12060	IR20-M12-060	IR20	M12	60	34	24	21	12.5	115	62	M12	T07ER2004
T12ER20A200-12100	IR20-M12-100	IR20	M12	100	34	24	21	12.5	155	102	M12	T07ER2004
T12ER20A200-16060	IR20-M16-060	IR20	M16	60	34	34	29	17.0	115	53	M16	T07ER2004
T12ER20A200-16100	IR20-M16-100	IR20	M16	100	34	34	29	17.0	155	102	M16	T07ER2004
T12ER25A200-12112	IR25-M12-112	IR25	M12	112	42	24	21	12.5	143	77	M12	T07ER2504
T12ER25A200-16112	IR25-M16-112	IR25	M16	112	42	34	29	17.0	143	90	M16	T07ER2504

**SCREW-IN HOLDER INCH**

Order Number	Part Name	Base	Extension		D	D1	d	d1	L	L1	M	W Wrench
			Size	Length								
T12ER11A200A08060	IR11-M08-2.36"	IR11	M08	2.36"	0.75"	0.75"	0.52"	0.33"	3.74"	2.17"	M8	T07ER1101
T12ER11A200A08100	IR11-M08-3.94"	IR11	M08	3.94"	0.75"	0.75"	0.52"	0.33"	5.32"	3.74"	M8	T07ER1101
T12ER11A200A10060	IR11-M10-2.36"	IR11	M10	2.36"	0.75"	0.75"	0.71"	0.41"	3.74"	2.17"	M10	T07ER1101
T12ER11A200A10100	IR11-M10-3.94"	IR11	M10	3.94"	0.75"	0.75"	0.71"	0.41"	5.32"	3.74"	M10	T07ER1101
T12ER16A200A10060	IR16-M10-2.36"	IR16	M10	2.36"	1.10"	0.99"	0.71"	0.41"	4.65"	2.28"	M10	T07ER1601
T12ER16A200A10100	IR16-M10-3.94"	IR16	M10	3.94"	1.10"	0.99"	0.71"	0.41"	6.06"	3.86"	M10	T07ER1601
T12ER16A200A12060	IR16-M12-2.36"	IR16	M12	2.36"	1.10"	0.99"	0.83"	0.49"	4.65"	2.28"	M12	T07ER1601
T12ER16A200A12100	IR16-M12-3.94"	IR16	M12	3.94"	1.10"	0.99"	0.83"	0.49"	6.06"	3.86"	M12	T07ER1601
T12ER20A200A10060	IR20-M10-2.36"	IR20	M10	2.36"	1.34"	0.99"	0.71"	0.41"	4.53"	2.44"	M10	T07ER2004
T12ER20A200A10100	IR20-M10-3.94"	IR20	M10	3.94"	1.34"	0.99"	0.71"	0.41"	6.10"	4.02"	M10	T07ER2004
T12ER20A200A10112	IR20-M10-4.41"	IR20	M10	4.41"	1.34"	0.99"	0.71"	0.41"	6.58"	4.33"	M10	T07ER2004
T12ER20A200A12060	IR20-M12-2.36"	IR20	M12	2.36"	1.34"	0.95"	0.83"	0.49"	4.53"	2.44"	M12	T07ER2004
T12ER20A200A12100	IR20-M12-3.94"	IR20	M12	3.94"	1.34"	0.95"	0.83"	0.49"	6.10"	4.02"	M12	T07ER2004
T12ER20A200A16060	IR20-M16-2.36"	IR20	M16	2.36"	1.34"	1.34"	1.14"	0.67"	4.53"	2.44"	M16	T07ER2004
T12ER20A200A16100	IR20-M16-3.94"	IR20	M16	3.94"	1.34"	1.34"	1.14"	0.67"	6.10"	4.02"	M16	T07ER2004
T12ER25A200A12112	IR25-M12-4.41"	IR25	M12	4.41"	1.65"	0.95"	0.83"	0.49"	5.63"	3.03"	M12	T07ER2504
T12ER25A200A16112	IR25-M16-4.41"	IR25	M16	4.41"	1.65"	1.34"	1.14"	0.67"	5.65"	3.54"	M16	T07ER2504

**Order Number Instruction**

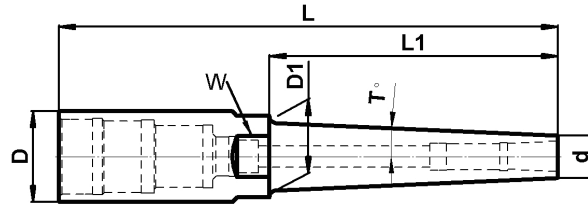




SLIM COLLET CHUCK - 210 EXTENSION

Quality

- Shaft tolerance: H3
- Case Hardness: HRC56±2
- Seat runout: 0.003mm (0.00012")
- Balance: G2.5, 25000rpm



SLIM COLLET CHUCK METRIC

Order Number	Part Name	Base	Extension		D	D1	T	d	L	L1	Length	W Wrench
			Size	Length								
T12ER11A210-06100	IR11-HC06-100	IR11	HC06	100	19	19	2.5	13	135	68	3.94"	T07ER1101
T12ER16A210-06100	IR16-HC06-100	IR16	HC06	100	28	21	2.5	13	154	87	3.94"	T07ER1601
T12ER16A210-10100	IR16-HC10-100	IR16	HC10	100	28	28	3.0	21	154	73	3.94"	T07ER1601
T12ER20A210-16100	IR20-HC16-100	IR20	HC16	100	34	34	3.0	32	155	18	3.94"	T07ER2004

ACCESSORIES:

HC COLLETS METRIC

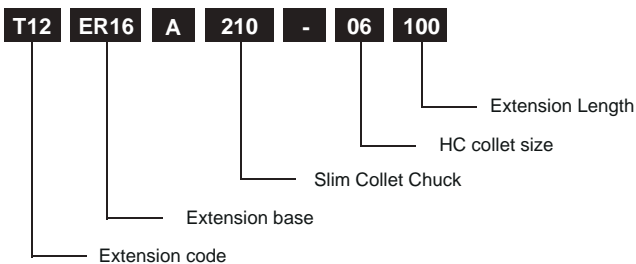
Order Number	Part Name	Collet	Shank
T03HC06-030	HC06 Collet 3mm	HC06	3
T03HC06-040	HC06 Collet 4mm	HC06	4
T03HC06-050	HC06 Collet 5mm	HC06	5
T03HC06-060	HC06 Collet 6mm	HC06	6
T03HC10-030	HC10 Collet 3mm	HC10	3
T03HC10-040	HC10 Collet 4mm	HC10	4
T03HC10-050	HC10 Collet 5mm	HC10	5
T03HC10-060	HC10 Collet 6mm	HC10	6
T03HC10-080	HC10 Collet 8mm	HC10	8
T03HC10-100	HC10 Collet 10mm	HC10	10
T03HC16-060	HC16 Collet 6mm	HC16	6
T03HC16-080	HC16 Collet 8mm	HC16	8
T03HC16-100	HC16 Collet 10mm	HC16	10
T03HC16-120	HC16 Collet 12mm	HC16	12
T03HC16-160	HC16 Collet 16mm	HC16	16



HC COLLETS INCH

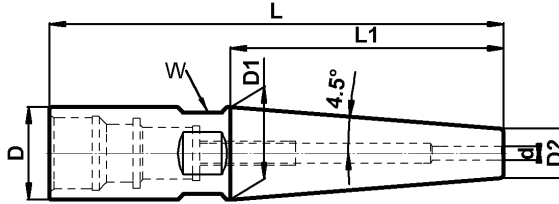
Order Number	Part Name	Collet	Shank
T03HC06A030	HC06 Collet 1/8"	HC06	1/8"
T03HC06A050	HC06 Collet 3/16"	HC06	3/16"
T03HC06A060	HC06 Collet 1/4"	HC06	1/4"
T03HC10A030	HC10 Collet 1/8"	HC10	1/8"
T03HC10A040	HC10 Collet 3/16"	HC10	3/16"
T03HC10A060	HC10 Collet 1/4"	HC10	1/4"
T03HC10A080	HC10 Collet 5/16"	HC10	5/16"
T03HC10A100	HC10 Collet 3/8"	HC10	3/8"
T03HC16A060	HC16 Collet 1/4"	HC16	1/4"
T03HC16A080	HC16 Collet 5/16"	HC16	5/16"
T03HC16A100	HC16 Collet 3/8"	HC16	3/8"
T03HC16A120	HC16 Collet 1/2"	HC16	1/2"
T03HC16A160	HC16 Collet 5/8"	HC16	5/8"

Order Number Instruction



**SHRINK-FIT HOLDER 4.5° - 220 EXTENSION****4.5°****Quality**

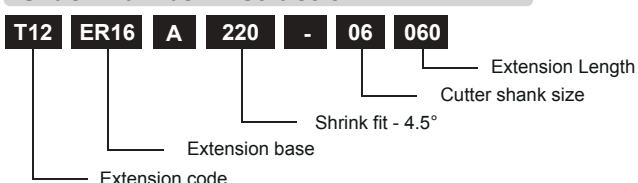
- Shaft tolerance: H3
- Hardness: HRC52±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm

**SHRINK - FIT HOLDER 4.5° METRIC**

Order Number	Part Name	Base	Extension		D	D1	D2	d mm	L	L1	HSS	W Wrench
			Size	Length								
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	16	16	10	3	80	38	YES	T07IR8S01
T12ER8SA220-03100	IR8S-SF03-100-4.5°	IR8S	SF03	100	16	16	10	3	120	38	YES	T07IR8S01
T12ER11A220-03060	IR11-SF03-060-4.5°	IR11	SF03	60	19	19	10	3	95	57	YES	T07ER1101
T12ER11A220-03100	IR11-SF03-100-4.5°	IR11	SF03	100	19	19	10	3	135	57	YES	T07ER1101
T12ER11A220-04060	IR11-SF04-060-4.5°	IR11	SF04	60	19	19	12	4	95	44	YES	T07ER1101
T12ER11A220-04100	IR11-SF04-100-4.5°	IR11	SF04	100	19	19	12	4	135	44	YES	T07ER1101
T12ER11A220-05060	IR11-SF05-060-4.5°	IR11	SF05	60	19	19	12	5	95	44	YES	T07ER1101
T12ER11A220-05100	IR11-SF05-100-4.5°	IR11	SF05	100	19	19	12	5	135	44	YES	T07ER1101
T12ER16A220-06060	IR16-SF06-060-4.5°	IR16	SF06	60	28	28	21	6	114	44	YES	T07ER1601
T12ER16A220-06100	IR16-SF06-100-4.5°	IR16	SF06	100	28	28	21	6	154	44	YES	T07ER1601
T12ER16A220-08060	IR16-SF08-060-4.5°	IR16	SF08	60	28	28	21	8	114	44	YES	T07ER1601
T12ER16A220-08100	IR16-SF08-100-4.5°	IR16	SF08	100	28	28	21	8	154	44	YES	T07ER1601
T12ER16A220-10060	IR16-SF10-060-4.5°	IR16	SF10	60	28	28	24	10	114	25	YES	T07ER1601
T12ER16A220-10100	IR16-SF10-100-4.5°	IR16	SF10	100	28	28	24	10	154	25	YES	T07ER1601
T12ER16A220-12060	IR16-SF12-060-4.5°	IR16	SF12	60	28	28	24	12	114	25	YES	T07ER1601
T12ER16A220-12100	IR16-SF12-100-4.5°	IR16	SF12	100	28	28	24	12	154	25	YES	T07ER1601
T12ER20A220-14060	IR20-SF14-060-4.5°	IR20	SF14	60	34	34	27	14	115	44	YES	T07IR2004
T12ER20A220-14100	IR20-SF14-100-4.5°	IR20	SF14	100	34	34	27	14	155	44	YES	T07IR2004
T12ER20A220-16060	IR20-SF16-060-4.5°	IR20	SF16	60	34	34	27	16	115	44	YES	T07IR2004
T12ER20A220-16100	IR20-SF16-100-4.5°	IR20	SF16	100	34	34	27	16	155	44	YES	T07IR2004
T12ER25A220-18060	IR25-SF18-060-4.5°	IR25	SF18	60	42	42	33	18	122	57	YES	T07IR2504
T12ER25A220-18100	IR25-SF18-100-4.5°	IR25	SF18	100	42	42	33	18	162	57	YES	T07IR2504
T12ER25A220-20060	IR25-SF20-060-4.5°	IR25	SF20	60	42	42	33	20	122	57	YES	T07IR2504
T12ER25A220-20100	IR25-SF20-100-4.5°	IR25	SF20	100	42	42	33	20	162	57	YES	T07IR2504
T12ER32A220-25060	IR32-SF25-060-4.5°	IR32	SF25	60	50	50	44	25	126	38	YES	T07IR3204
T12ER32A220-25100	IR32-SF25-100-4.5°	IR32	SF25	100	50	50	44	25	166	38	YES	T07IR3204
T12ER32A220-32060	IR32-SF32-060-4.5°	IR32	SF32	60	50	50	44	32	126	38	YES	T07IR3204
T12ER32A220-32100	IR32-SF32-100-4.5°	IR32	SF32	100	50	50	44	32	166	38	YES	T07IR3204

**SHRINK - FIT HOLDER 4.5° INCH**

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER8SA220A03051	IR8S-SF1/8"-2.00"-4.5°	IR8S	SF1/8"	2.00"	0.63"	0.63"	0.40"	1/8"	2.77"	1.50"	YES	T07IR8S01
T12ER8SA220A03102	IR8S-SF1/8"-4.00"-4.5°	IR8S	SF1/8"	4.00"	0.63"	0.63"	0.40"	1/8"	4.77"	1.50"	YES	T07IR8S01
T12ER11A220A03051	IR11-SF1/8"-2.00"-4.5°	IR11	SF1/8"	2.00"	0.75"	0.66"	0.40"	1/8"	3.38"	1.78"	YES	T07ER1101
T12ER11A220A03102	IR11-SF1/8"-4.00"-4.5°	IR11	SF1/8"	4.00"	0.75"	0.75"	0.40"	1/8"	5.38"	2.25"	YES	T07ER1101
T12ER11A220A05051	IR11-SF3/16"-2.00"-4.5°	IR11	SF3/16"	2.00"	0.75"	0.75"	0.47"	3/16"	3.38"	1.76"	YES	T07ER1101
T12ER11A220A05102	IR11-SF3/16"-4.00"-4.5°	IR11	SF3/16"	4.00"	0.75"	0.75"	0.47"	3/16"	5.38"	1.76"	YES	T07ER1101
T12ER16A220A06051	IR16-SF1/4"-2.00"-4.5°	IR16	SF1/4"	2.00"	1.10"	1.10"	0.83"	1/4"	4.13"	1.75"	YES	T07ER1601
T12ER16A220A06060	IR16-SF1/4"-2.36"-4.5°	IR16	SF1/4"	2.36"	1.10"	1.10"	0.83"	1/4"	4.49"	1.75"	YES	T07ER1601
T12ER16A220A06102	IR16-SF1/4"-4.00"-4.5°	IR16	SF1/4"	4.00"	1.10"	1.10"	0.83"	1/4"	6.13"	1.75"	YES	T07ER1601
T12ER16A220A08051	IR16-SF5/16"-2.00"-4.5°	IR16	SF5/16"	2.00"	1.10"	1.10"	0.83"	5/16"	4.13"	1.75"	YES	T07ER1601
T12ER16A220A08060	IR16-SF5/16"-2.36"-4.5°	IR16	SF5/16"	2.36"	1.10"	1.10"	0.83"	5/16"	4.49"	1.75"	YES	T07ER1601
T12ER16A220A08102	IR16-SF5/16"-4.00"-4.5°	IR16	SF5/16"	4.00"	1.10"	1.10"	0.83"	5/16"	6.13"	1.75"	YES	T07ER1601
T12ER16A220A09051	IR16-SF3/8"-2.00"-4.5°	IR16	SF3/8"	2.00"	1.10"	1.10"	0.95"	3/8"	4.13"	1.00"	YES	T07ER1601
T12ER16A220A09060	IR16-SF3/8"-2.36"-4.5°	IR16	SF3/8"	2.36"	1.10"	1.10"	0.95"	3/8"	4.49"	1.00"	YES	T07ER1601
T12ER16A220A09102	IR16-SF3/8"-4.00"-4.5°	IR16	SF3/8"	4.00"	1.10"	1.10"	0.95"	3/8"	6.13"	1.00"	YES	T07ER1601
T12ER16A220A12051	IR16-SF1/2"-2.00"-4.5°	IR16	SF1/2"	2.00"	1.10"	1.10"	0.95"	1/2"	4.13"	1.00"	YES	T07ER1601
T12ER16A220A12060	IR16-SF1/2"-2.36"-4.5°	IR16	SF1/2"	2.36"	1.10"	1.10"	0.95"	1/2"	4.49"	1.00"	YES	T07ER1601
T12ER16A220A12102	IR16-SF1/2"-4.00"-4.5°	IR16	SF1/2"	4.00"	1.10"	1.10"	0.95"	1/2"	6.13"	1.00"	YES	T07ER1601
T12ER20A220A16051	IR20-SF5/8"-2.00"-4.5°	IR20	SF5/8"	2.00"	1.34"	1.34"	1.06"	5/8"	4.17"	1.75"	YES	T07IR2004
T12ER20A220A16102	IR20-SF5/8"-4.00"-4.5°	IR20	SF5/8"	4.00"	1.34"	1.34"	1.06"	5/8"	6.17"	1.75"	YES	T07IR2004
T12ER25A220A19051	IR25-SF3/4"-2.00"-4.5°	IR25	SF3/4"	2.00"	1.65"	1.65"	1.30"	3/4"	4.44"	2.25"	YES	T07IR2504
T12ER25A220A19102	IR25-SF3/4"-4.00"-4.5°	IR25	SF3/4"	4.00"	1.65"	1.65"	1.30"	3/4"	6.44"	2.25"	YES	T07IR2504
T12ER32A220A25051	IR32-SF1"-2.00"-4.5°	IR32	SF1"	2.00"	1.97"	1.97"	1.73"	1"	4.60"	1.50"	YES	T07IR3204
T12ER32A220A25102	IR32-SF1"-4.00"-4.5°	IR32	SF1"	4.00"	1.97"	1.97"	1.73"	1"	6.60"	1.50"	YES	T07IR3204
T12ER32A220A32051	IR32-SF1 1/4"-2.00"-4.5°	IR32	SF1 1/4"	2.00"	1.97"	1.97"	1.73"	1 1/4"	4.60"	1.50"	YES	T07IR3204
T12ER32A220A32102	IR32-SF1 1/4"-4.00"-4.5°	IR32	SF1 1/4"	4.00"	1.97"	1.97"	1.73"	1 1/4"	6.60"	1.50"	YES	T07IR3204

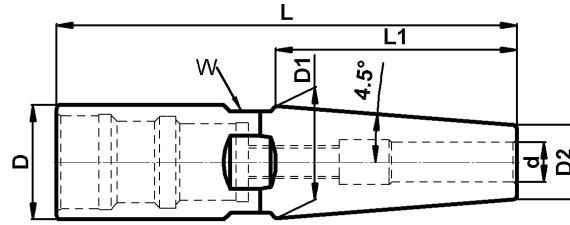
**Order Number Instruction**

**SHRINK-FIT HOLDER 4.5° SLIM - 230 EXTENSION**

4.5°

**Quality**

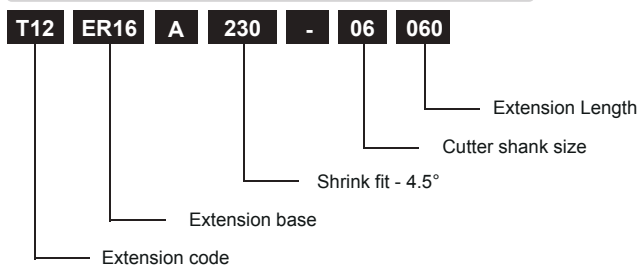
- Shaft tolerance: H3
- Case Hardness: HRC52±2
- Seat runout: 0.003mm(0.00012")
- Balance: G2.5, 25000rpm


**SHRINK-FIT HOLDER 4.5° Slim METRIC**

Order Number	Part Name	Base	Extension		D	D1	D2	d mm	L	L1	HSS	W Wrench
			Size	Length								
T12ER11A230-06060	IR11-SF06-060-4.5° slim	IR11	SF06	60	19	19	15	6	95	25	NO	T07ER1101
T12ER11A230-06100	IR11-SF06-100-4.5° slim	IR11	SF06	100	19	19	15	6	135	25	NO	T07ER1101
T12ER11A230-08060	IR11-SF08-060-4.5° slim	IR11	SF08	60	19	19	15	8	95	25	NO	T07ER1101
T12ER11A230-08100	IR11-SF08-100-4.5° slim	IR11	SF08	100	19	19	15	8	135	25	NO	T07ER1101
T12ER16A230-10060	IR16-SF10-060-4.5° slim	IR16	SF10	60	28	27	18	10	114	63	NO	T07ER1601
T12ER16A230-10100	IR16-SF10-100-4.5° slim	IR16	SF10	100	28	28	18	10	154	63	NO	T07ER1601
T12ER16A230-12060	IR16-SF12-060-4.5° slim	IR16	SF12	60	28	27	18	12	114	63	NO	T07ER1601
T12ER16A230-12100	IR16-SF12-100-4.5° slim	IR16	SF12	100	28	27	18	12	154	63	NO	T07ER1601
T12ER16A230-16060	IR16-SF16-060-4.5° slim	IR16	SF16	60	28	28	21	16	114	45	NO	T07ER1601
T12ER16A230-16100	IR16-SF16-100-4.5° slim	IR16	SF16	100	28	28	21	16	154	45	NO	T07ER1601
T12ER20A230-20060	IR20-SF20-060-4.5° slim	IR20	SF20	60	34	34	25	20	115	57	NO	T07IR2004
T12ER20A230-20100	IR20-SF20-100-4.5° slim	IR20	SF20	100	34	34	25	20	155	57	NO	T07IR2004

**SHRINK-FIT HOLDER 4.5° Slim INCH**

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER11A230A06051	IR11-SF1/4"-2.00"-4.5° slim	IR11	SF1/4"	2.00"	0.75"	0.75"	0.590"	1/4"	3.38"	1.00"	NO	T07ER1101
T12ER11A230A06102	IR11-SF1/4"-4.00"-4.5° slim	IR11	SF1/4"	4.00"	0.75"	0.75"	0.590"	1/4"	5.38"	1.00"	NO	T07ER1101
T12ER11A230A08051	IR11-SF5/16"-2.00"-4.5° slim	IR11	SF5/16"	2.00"	0.75"	0.75"	0.590"	5/16"	3.38"	1.00"	NO	T07ER1101
T12ER11A230A08102	IR11-SF5/16"-4.00"-4.5° slim	IR11	SF5/16"	4.00"	0.75"	0.75"	0.590"	5/16"	5.38"	1.00"	NO	T07ER1101
T12ER16A230A09060	IR16-SF3/8"-2.36"-4.5° slim	IR16	SF3/8"	2.36"	1.10"	1.10"	0.710"	3/8"	4.49"	2.50"	NO	T07ER1601
T12ER16A230A09102	IR16-SF3/8"-4.00"-4.5° slim	IR16	SF3/8"	4.00"	1.10"	1.10"	0.710"	3/8"	6.13"	2.50"	NO	T07ER1601
T12ER16A230A12060	IR16-SF1/2"-2.36"-4.5° slim	IR16	SF1/2"	2.36"	1.10"	1.10"	0.710"	1/2"	4.49"	2.50"	NO	T07ER1601
T12ER16A230A12102	IR16-SF1/2"-4.00"-4.5° slim	IR16	SF1/2"	4.00"	1.10"	1.10"	0.710"	1/2"	6.13"	2.50"	NO	T07ER1601
T12ER16A230A16060	IR16-SF5/8"-2.36"-4.5° slim	IR16	SF5/8"	2.36"	1.10"	1.10"	0.827"	5/8"	4.49"	1.75"	NO	T07ER1601
T12ER16A230A16102	IR16-SF5/8"-4.00"-4.5° slim	IR16	SF5/8"	4.00"	1.10"	1.10"	0.827"	5/8"	6.13"	1.75"	NO	T07ER1601
T12ER20A230A19051	IR20-SF3/4"-2.00"-4.5° slim	IR20	SF3/4"	2.00"	1.34"	1.34"	0.984"	3/4"	4.17"	2.24"	NO	T07IR2004
T12ER20A230A19102	IR20-SF3/4"-4.00"-4.5° slim	IR20	SF3/4"	4.00"	1.34"	1.34"	0.984"	3/4"	6.17"	2.24"	NO	T07IR2004

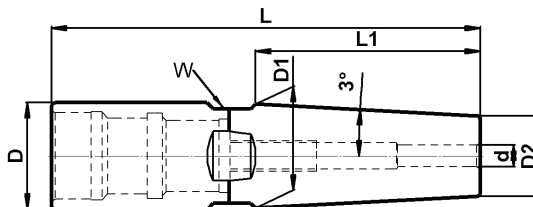
**Order Number Instruction**


**SHRINK-FIT HOLDER 3° - 240 EXTENSION**

3°

**Quality**

- Shaft tolerance: H3
- Hardness: HRC52±2
- Seat runout: 0.003mm (0.00012")
- Balance: G2.5, 25000rpm

**SHRINK - FIT HOLDER 3° METRIC**

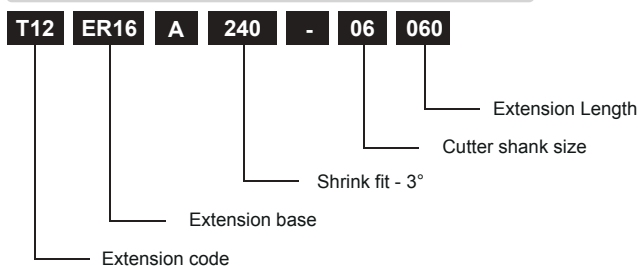
Order Number	Part Name	Base	Extension		D	D1	D2	d mm	L	L1	HSS	W Wrench
			Size	Length								
T12ER8SA240-03060	IR8S-SF03-060-3°	IR8S	SF03	60	16	14	9	3	80	44	NO	T07IR8S01
T12ER8SA240-03100	IR8S-SF03-100-3°	IR8S	SF03	100	16	16	9	3	120	66	NO	T07IR8S01
T12ER8SA240-04060	IR8S-SF04-060-3°	IR8S	SF04	60	16	14	10	4	80	39	NO	T07IR8S01
T12ER8SA240-04100	IR8S-SF04-100-3°	IR8S	SF04	100	16	16	10	4	120	57	NO	T07IR8S01
T12ER8SA240-05060	IR8S-SF05-060-3°	IR8S	SF05	60	16	15	11	5	80	39	NO	T07IR8S01
T12ER8SA240-05100	IR8S-SF05-100-3°	IR8S	SF05	100	16	16	11	5	120	47	NO	T07IR8S01
T12ER8SA240-06060	IR8S-SF06-060-3°	IR8S	SF06	60	16	16	12	6	80	38	NO	T07IR8S01
T12ER8SA240-06100	IR8S-SF06-100-3°	IR8S	SF06	100	16	16	12	6	120	38	NO	T07IR8S01
T12ER11A240-03060	IR11-SF03-060-3°	IR11	SF03	60	19	15	9	3	95	58	NO	T07ER1101
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	19	19	9	3	135	95	NO	T07ER1101
T12ER11A240-04060	IR11-SF04-060-3°	IR11	SF04	60	19	16	10	4	95	53	NO	T07ER1101
T12ER11A240-04100	IR11-SF04-100-3°	IR11	SF04	100	19	19	10	4	135	85	NO	T07ER1101
T12ER11A240-05060	IR11-SF05-060-3°	IR11	SF05	60	19	16	11	5	95	54	NO	T07ER1101
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	19	19	11	5	135	76	NO	T07ER1101
T12ER11A240-06060	IR11-SF06-060-3°	IR11	SF06	60	19	18	12	6	95	54	NO	T07ER1101
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	19	19	12	6	135	66	NO	T07ER1101
T12ER11A240-08060	IR11-SF08-060-3°	IR11	SF08	60	19	19	14	8	95	47	NO	T07ER1101
T12ER11A240-08100	IR11-SF08-100-3°	IR11	SF08	100	19	19	14	8	135	47	NO	T07ER1101
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	19	19	16	10	95	28	NO	T07ER1101
T12ER11A240-10100	IR11-SF10-100-3°	IR11	SF10	100	19	19	16	10	135	28	NO	T07ER1101
T12ER11A240-12060	IR11-SF12-060-3°	IR11	SF12	60	21	21	18	12	95	28	NO	T07ER1101
T12ER11A240-12100	IR11-SF12-100-3°	IR11	SF12	100	21	21	18	12	135	28	NO	T07ER1101
T12ER16A240-12100	IR16-SF12-100-3°	IR16	SF12	100	28	28	18	12	154	95	NO	T07ER1601
T12ER16A240-16060	IR16-SF16-060-3°	IR16	SF16	60	28	28	22	16	114	57	NO	T07ER1601
T12ER16A240-16100	IR16-SF16-100-3°	IR16	SF16	100	28	28	22	16	154	57	NO	T07ER1601
T12ER20A240-16100	IR20-SF16-100-3°	IR20	SF16	100	34	33	22	16	155	105	NO	T07IR2004
T12ER20A240-20060	IR20-SF20-060-3°	IR20	SF20	60	34	34	27	20	115	66	NO	T07IR2004
T12ER20A240-20100	IR20-SF20-100-3°	IR20	SF20	100	34	34	27	20	155	66	NO	T07IR2004
T12ER25A240-25060	IR25-SF25-060-3°	IR25	SF25	60	42	41	34	25	122	64	NO	T07IR2504
T12ER25A240-25100	IR25-SF25-100-3°	IR25	SF25	100	42	42	34	25	162	76	NO	T07IR2504

**SHRINK - FIT HOLDER 3° INCH**

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER8SA240A03051	IR8S-SF1/8"-2.00"-3°	IR8S	SF1/8"	2.00"	0.63"	0.47"	0.354"	1/8"	2.77"	1.17"	NO	T07IR8S01
T12ER8SA240A03102	IR8S-SF1/8"-4.00"-3°	IR8S	SF1/8"	4.00"	0.63"	0.63"	0.354"	1/8"	4.77"	2.63"	NO	T07IR8S01
T12ER8SA240A05051	IR8S-SF3/16"-2.00"-3°	IR8S	SF3/16"	2.00"	0.63"	0.60"	0.433"	3/16"	2.77"	1.57"	NO	T07IR8S01
T12ER8SA240A05102	IR8S-SF3/16"-4.00"-3°	IR8S	SF3/16"	4.00"	0.63"	0.63"	0.433"	3/16"	4.77"	1.87"	NO	T07IR8S01
T12ER8SA240A06051	IR8S-SF1/4"-2.00"-3°	IR8S	SF1/4"	2.00"	0.63"	0.63"	0.472"	1/4"	2.77"	1.50"	NO	T07IR8S01
T12ER8SA240A06102	IR8S-SF1/4"-4.00"-3°	IR8S	SF1/4"	4.00"	0.63"	0.63"	0.472"	1/4"	4.77"	1.50"	NO	T07IR8S01
T12ER11A240A03051	IR11-SF1/8"-2.00"-3°	IR11	SF1/8"	2.00"	0.75"	0.56"	0.354"	1/8"	3.38"	1.93"	NO	T07ER1101
T12ER11A240A03102	IR11-SF1/8"-4.00"-3°	IR11	SF1/8"	4.00"	0.75"	0.75"	0.354"	1/8"	5.38"	3.75"	NO	T07ER1101
T12ER11A240A05051	IR11-SF3/16"-2.00"-3°	IR11	SF3/16"	2.00"	0.75"	0.64"	0.433"	3/16"	3.38"	1.96"	NO	T07ER1101
T12ER11A240A05102	IR11-SF3/16"-4.00"-3°	IR11	SF3/16"	4.00"	0.75"	0.75"	0.433"	3/16"	5.38"	3.00"	NO	T07ER1101
T12ER11A240A06051	IR11-SF1/4"-2.00"-3°	IR11	SF1/4"	2.00"	0.75"	0.66"	0.472"	1/4"	3.38"	1.77"	NO	T07ER1101
T12ER11A240A06102	IR11-SF1/4"-4.00"-3°	IR11	SF1/4"	4.00"	0.75"	0.75"	0.472"	1/4"	5.38"	2.63"	NO	T07ER1101
T12ER11A240A08051	IR11-SF5/16"-2.00"-3°	IR11	SF5/16"	2.00"	0.75"	0.75"	0.551"	5/16"	3.38"	1.87"	NO	T07ER1101
T12ER11A240A08102	IR11-SF5/16"-4.00"-3°	IR11	SF5/16"	4.00"	0.75"	0.75"	0.551"	5/16"	5.38"	1.87"	NO	T07ER1101
T12ER11A240A09051	IR11-SF3/8"-2.00"-3°	IR11	SF3/8"	2.00"	0.75"	0.75"	0.630"	3/8"	3.38"	1.12"	NO	T07ER1101
T12ER11A240A09102	IR11-SF3/8"-4.00"-3°	IR11	SF3/8"	4.00"	0.75"	0.75"	0.630"	3/8"	5.38"	1.12"	NO	T07ER1101
T12ER11A240A12051	IR11-SF1/2"-2.00"-3°	IR11	SF1/2"	2.00"	0.83"	0.83"	0.709"	1/2"	3.38"	1.12"	NO	T07ER1101

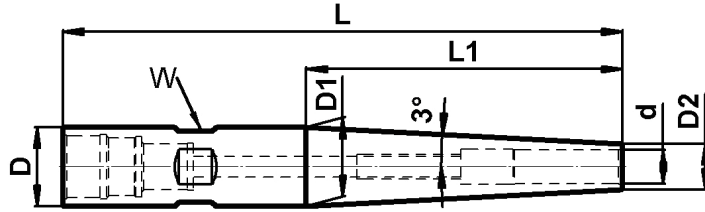
Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER11A240A12102	IR11-SF1/2"-4.00"-3°	IR11	SF1/2"	4.00"	0.83"	0.83"	0.709"	1/2"	5.38"	1.12"	NO	T07ER1101
T12ER16A240A12102	IR16-SF1/2"-4.00"-3°	IR16	SF1/2"	4.00"	1.10"	1.10"	0.709"	1/2"	6.13"	3.75"	NO	T07ER1601
T12ER16A240A16051	IR16-SF5/8"-2.00"-3°	IR16	SF5/8"	2.00"	1.10"	1.10"	0.870"	5/8"	4.13"	1.96"	NO	T07ER1601
T12ER16A240A16102	IR16-SF5/8"-4.00"-3°	IR16	SF5/8"	4.00"	1.10"	1.10"	0.870"	5/8"	6.13"	2.25"	NO	T07ER1601
T12ER20A240A16102	IR20-SF5/8"-4.00"-3°	IR20	SF5/8"	4.00"	1.34"	1.34"	0.870"	5/8"	6.13"	4.50"	NO	T07IR2004
T12ER20A240A19051	IR20-SF3/4"-2.00"-3°	IR20	SF3/4"	2.00"	1.34"	1.29"	1.060"	3/4"	4.16"	2.17"	NO	T07IR2004
T12ER20A240A19102	IR20-SF3/4"-4.00"-3°	IR20	SF3/4"	4.00"	1.34"	1.34"	1.060"	3/4"	6.16"	2.63"	NO	T07IR2004
T12ER25A240A25051	IR25-SF1"-2.00"-3°	IR25	SF1"	2.00"	1.65"	1.57"	1.340"	1"	4.44"	2.15"	NO	T07IR2504
T12ER25A240A25102	IR25-SF1"-4.00"-3°	IR25	SF1"	4.00"	1.65"	1.65"	1.340"	1"	6.44"	3.00"	NO	T07IR2504

## Order Number Instruction



**Quality**

- Shaft tolerance: H3
- Hardness: HRC52±2
- Seat runout: 0.003mm (0.00012")
- Balance: G2.5, 2500rpm

**SHRINK - FIT HOLDER 3° SLIM METRIC**

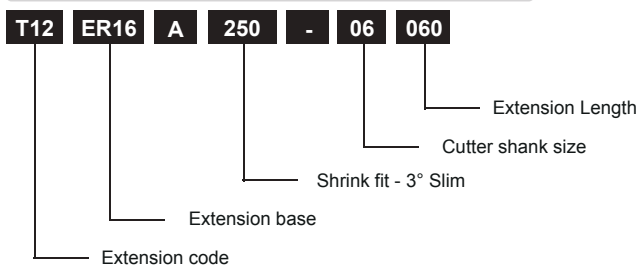
Order Number	Part Name	Base	Extension		D	D1	D2	d mm	L	L1	HSS	W Wrench
			Size	Length								
T12ER08A250-03060	IR08-SF03-060-3° slim	IR08	SF03	60	12	11	6	3	80	43	NO	T07IR0801
T12ER08A250-03100	IR08-SF03-100-3° slim	IR08	SF03	100	12	12	6	3	120	57	NO	T07IR0801
T12ER08A250-04060	IR08-SF04-060-3° slim	IR08	SF04	60	12	12	7	4	80	47	NO	T07IR0801
T12ER08A250-04100	IR08-SF04-100-3° slim	IR08	SF04	100	12	12	7	4	120	47	NO	T07IR0801
T12ER08A250-05060	IR08-SF05-060-3° slim	IR08	SF05	60	12	12	8	5	80	38	NO	T07IR0801
T12ER08A250-05100	IR08-SF05-100-3° slim	IR08	SF05	100	12	12	8	5	120	38	NO	T07IR0801
T12ER08A250-06060	IR08-SF06-060-3° slim	IR08	SF06	60	12	12	9	6	80	28	NO	T07IR0801
T12ER08A250-06100	IR08-SF06-100-3° slim	IR08	SF06	100	12	12	9	6	120	28	NO	T07IR0801
T12ER8SA250-03060	IR8S-SF03-060-3° slim	IR8S	SF03	60	16	11	6	3	80	42	NO	T07IR8S01
T12ER8SA250-03100	IR8S-SF03-100-3° slim	IR8S	SF03	100	16	14	6	3	120	78	NO	T07IR8S01
T12ER8SA250-04060	IR8S-SF04-060-3° slim	IR8S	SF04	60	16	11	7	4	80	37	NO	T07IR8S01
T12ER8SA250-04100	IR8S-SF04-100-3° slim	IR8S	SF04	100	16	16	7	4	120	85	NO	T07IR8S01
T12ER8SA250-05060	IR8S-SF05-060-3° slim	IR8S	SF05	60	16	12	8	5	80	38	NO	T07IR8S01
T12ER8SA250-05100	IR8S-SF05-100-3° slim	IR8S	SF05	100	16	16	8	5	120	76	NO	T07IR8S01
T12ER8SA250-06060	IR8S-SF06-060-3° slim	IR8S	SF06	60	16	15	9	6	80	43	NO	T07IR8S01
T12ER8SA250-06100	IR8S-SF06-100-3° slim	IR8S	SF06	100	16	16	9	6	120	66	NO	T07IR8S01
T12ER8SA250-08060	IR8S-SF08-060-3° slim	IR8S	SF08	60	16	16	11	8	80	47	NO	T07IR8S01
T12ER8SA250-08100	IR8S-SF08-100-3° slim	IR8S	SF08	100	16	16	11	8	120	47	NO	T07IR8S01
T12ER8SA250-10060	IR8S-SF10-060-3° slim	IR8S	SF10	60	16	16	13	10	80	28	NO	T07IR8S01
T12ER8SA250-10100	IR8S-SF10-100-3° slim	IR8S	SF10	100	16	16	13	10	120	28	NO	T07IR8S01
T12ER11A250-03060	IR11-SF03-060-3° slim	IR11	SF03	60	19	12	6	3	95	59	NO	T07ER1101
T12ER11A250-03100	IR11-SF03-100-3° slim	IR11	SF03	100	19	16	6	3	135	99	NO	T07ER1101
T12ER11A250-04060	IR11-SF04-060-3° slim	IR11	SF04	60	19	13	7	4	95	57	NO	T07ER1101
T12ER11A250-04100	IR11-SF04-100-3° slim	IR11	SF04	100	19	17	7	4	135	94	NO	T07ER1101
T12ER11A250-05060	IR11-SF05-060-3° slim	IR11	SF05	60	19	14	8	5	95	58	NO	T07ER1101
T12ER11A250-05100	IR11-SF05-100-3° slim	IR11	SF05	100	19	18	8	5	135	94	NO	T07ER1101
T12ER11A250-06060	IR11-SF06-060-3° slim	IR11	SF06	60	19	15	9	6	95	59	NO	T07ER1101
T12ER11A250-06100	IR11-SF06-100-3° slim	IR11	SF06	100	19	19	9	6	135	95	NO	T07ER1101
T12ER11A250-08060	IR11-SF08-060-3° slim	IR11	SF08	60	19	17	11	8	95	59	NO	T07ER1101
T12ER11A250-08100	IR11-SF08-100-3° slim	IR11	SF08	100	19	19	11	8	135	76	NO	T07ER1101
T12ER11A250-10060	IR11-SF10-060-3° slim	IR11	SF10	60	19	19	13	10	95	57	NO	T07ER1101
T12ER11A250-10100	IR11-SF10-100-3° slim	IR11	SF10	100	19	19	13	10	135	57	NO	T07ER1101
T12ER11A250-12060	IR11-SF12-060-3° slim	IR11	SF12	60	19	19	15	12	95	38	NO	T07ER1101
T12ER11A250-12100	IR11-SF12-100-3° slim	IR11	SF12	100	19	19	15	12	135	38	NO	T07ER1101

**SHRINK - FIT HOLDER 3° SLIM INCH**

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER08A250A03060	IR08-SF1/8"-2.36"-3° slim	IR08	SF1/8"	2.36"	0.47"	0.43"	0.243"	1/8"	3.13"	1.74"	NO	T07IR0801
T12ER08A250A03102	IR08-SF1/8"-4.00"-3° slim	IR08	SF1/8"	4.00"	0.47"	0.47"	0.243"	1/8"	4.77"	2.18"	NO	T07IR0801
T12ER08A250A05060	IR08-SF3/16"-2.36"-3° slim	IR08	SF3/16"	2.36"	0.47"	0.47"	0.315"	3/16"	3.13"	1.50"	NO	T07IR0801
T12ER08A250A05102	IR08-SF3/16"-4.00"-3° slim	IR08	SF3/16"	4.00"	0.47"	0.47"	0.315"	3/16"	4.77"	1.50"	NO	T07IR0801
T12ER08A250A06060	IR08-SF1/4"-2.36"-3° slim	IR08	SF1/4"	2.36"	0.47"	0.47"	0.368"	1/4"	3.13"	1.00"	NO	T07IR0801
T12ER08A250A06102	IR08-SF1/4"-4.00"-3° slim	IR08	SF1/4"	4.00"	0.47"	0.47"	0.368"	1/4"	4.77"	1.00"	NO	T07IR0801
T12ER8SA250A03060	IR8S-SF1/8"-2.36"-3° slim	IR8S	SF1/8"	2.36"	0.63"	0.42"	0.243"	1/8"	3.13"	1.67"	NO	T07IR8S01
T12ER8SA250A03102	IR8S-SF1/8"-4.00"-3° slim	IR8S	SF1/8"	4.00"	0.63"	0.63"	0.243"	1/8"	4.77"	3.68"	NO	T07IR8S01
T12ER8SA250A05060	IR8S-SF3/16"-2.36"-3° slim	IR8S	SF3/16"	2.36"	0.63"	0.47"	0.315"	3/16"	3.13"	1.46"	NO	T07IR8S01
T12ER8SA250A05102	IR8S-SF3/16"-4.00"-3° slim	IR8S	SF3/16"	4.00"	0.63"	0.63"	0.315"	3/16"	4.77"	3.00"	NO	T07IR8S01
T12ER8SA250A06060	IR8S-SF1/4"-2.36"-3° slim	IR8S	SF1/4"	2.36"	0.63"	0.53"	0.368"	1/4"	3.13"	1.51"	NO	T07IR8S01
T12ER8SA250A06102	IR8S-SF1/4"-4.00"-3° slim	IR8S	SF1/4"	4.00"	0.63"	0.63"	0.368"	1/4"	4.77"	2.49"	NO	T07IR8S01
T12ER8SA250A08060	IR8S-SF5/16"-2.36"-3° slim	IR8S	SF5/16"	2.36"	0.63"	0.63"	0.433"	5/16"	3.13"	1.87"	NO	T07IR8S01

Order Number	Part Name	Base	Extension		D	D1	D2	d inch	L	L1	HSS	W Wrench
			Size	Length								
T12ER8SA250A08102	IR8S-SF5/16"-4.00"-3° slim	IR8S	SF5/16"	4.00"	0.63"	0.63"	0.433"	5/16"	4.77"	1.87"	NO	T07IR8S01
T12ER8SA250A09102	IR8S-SF3/8"-4.00"-3° slim	IR8S	SF3/8"	4.00"	0.63"	0.63"	0.512"	3/8"	4.77"	1.12"	NO	T07IR8S01
T12ER11A250A03051	IR11-SF1/8"-2.00"-3° slim	IR11	SF1/8"	2.00"	0.75"	0.44"	0.240"	1/8"	3.38"	1.88"	NO	T07ER1101
T12ER11A250A03102	IR11-SF1/8"-4.00"-3° slim	IR11	SF1/8"	4.00"	0.75"	0.66"	0.240"	1/8"	5.38"	3.96"	NO	T07ER1101
T12ER11A250A05051	IR11-SF3/16"-2.00"-3° slim	IR11	SF3/16"	2.00"	0.75"	0.52"	0.315"	3/16"	3.38"	1.92"	NO	T07ER1101
T12ER11A250A05102	IR11-SF3/16"-4.00"-3° slim	IR11	SF3/16"	4.00"	0.75"	0.71"	0.315"	3/16"	5.38"	3.79"	NO	T07ER1101
T12ER11A250A06051	IR11-SF1/4"-2.00"-3° slim	IR11	SF1/4"	2.00"	0.75"	0.56"	0.368"	1/4"	3.38"	1.96"	NO	T07ER1101
T12ER11A250A06102	IR11-SF1/4"-4.00"-3° slim	IR11	SF1/4"	4.00"	0.75"	0.75"	0.368"	1/4"	5.38"	3.62"	NO	T07ER1101
T12ER11A250A08051	IR11-SF5/16"-2.00"-3° slim	IR11	SF5/16"	2.00"	0.75"	0.64"	0.433"	5/16"	3.38"	1.96"	NO	T07ER1101
T12ER11A250A08102	IR11-SF5/16"-4.00"-3° slim	IR11	SF5/16"	4.00"	0.75"	0.75"	0.433"	5/16"	5.38"	3.00"	NO	T07ER1101
T12ER11A250A09051	IR11-SF3/8"-2.00"-3° slim	IR11	SF3/8"	2.00"	0.75"	0.70"	0.512"	3/8"	3.38"	1.78"	NO	T07ER1101
T12ER11A250A09102	IR11-SF3/8"-4.00"-3° slim	IR11	SF3/8"	4.00"	0.75"	0.75"	0.512"	3/8"	5.38"	2.25"	NO	T07ER1101
T12ER11A250A12051	IR11-SF1/2"-2.00"-3° slim	IR11	SF1/2"	2.00"	0.75"	0.75"	0.620"	1/2"	3.38"	1.22"	NO	T07ER1101
T12ER11A250A12102	IR11-SF1/2"-4.00"-3° slim	IR11	SF1/2"	4.00"	0.75"	0.75"	0.620"	1/2"	5.38"	1.22"	NO	T07ER1101

## Order Number Instruction



**INDEX - IR BASE**

**I SYSTEM**

SHANK	SIZE		
BT	30	40	50
CAT		40	50
SK		40	50

**IPE SYSTEM**

SHANK	SIZE		
PBBT	30	40	50
PBCAT		40	50
PBSK		40	50

SHANK	SIZE					
HSK A	32	40	50	63	100	125
HSK E	32	40	50	63		
HSK F	40	50	63	80		
PSC	4	5	6	8		
KM	63					
KZ	63					

**BT30 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70
T00BT30926-11100A	BT30 IR11-100-EX	IR11	100
T00BT30926-16100A	BT30 IR16-100-EX	IR16	100
T00BT30926-20100A	BT30 IR20-100-EX	IR20	100
T00BT30926-25100A	BT30 IR25-100-EX	IR25	100
T00BT30926-32100A	BT30 IR32-100-EX	IR32	100
T00BT30926-32100AG	BT30 IR32-100-EXG	IR32	100



**BT40 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70
T00BT40926-11070A	BT40 IR11-070-EX	IR11	70
T00BT40926-11100A	BT40 IR11-100-EX	IR11	100
T00BT40926-16100A	BT40 IR16-100-EX	IR16	100
T00BT40926-20100A	BT40 IR20-100-EX	IR20	100
T00BT40926-25100A	BT40 IR25-100-EX	IR25	100
T00BT40926-32100A	BT40 IR32-100-EX	IR32	100
T00BT40926-32100AG	BT40 IR32-100-EXG	IR32	100
T00BT40926-40100A	BT40 IR40-100-EX	IR40	100

**CAT40 I SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	L inch
T00CA40926-08072A	CAT40 IR8-2.82"-EX	IR08	2.82"
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"
T00CA40926-11102A	CAT40 IR11-4"-EX	IR11	4.00"
T00CA40926-16102A	CAT40 IR16-4"-EX	IR16	4.00"
T00CA40926-20102A	CAT40 IR20-4"-EX	IR20	4.00"
T00CA40926-25102A	CAT40 IR25-4"-EX	IR25	4.00"
T00CA40926-32120A	CAT40 IR32-4.72"-EX	IR32	4.72"
T00CA40926-32120AG	CAT40 IR32-4.72"-EXG	IR32	4.72"
T00CA40926-40120A	CAT40 IR40-4.72"-EX	IR40	4.72"

**BT50 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70
T00BT50926-11100A	BT50 IR11-100-EX	IR11	100
T00BT50926-16100A	BT50 IR16-100-EX	IR16	100
T00BT50926-20100A	BT50 IR20-100-EX	IR20	100
T00BT50926-25110A	BT50 IR25-110-EX	IR25	110
T00BT50926-32110A	BT50 IR32-110-EX	IR32	110
T00BT50926-32110AG	BT50 IR32-110-EXG	IR32	110
T00BT50926-40120A	BT50 IR40-120-EX	IR40	120
T00BT50926-42120A	BT50 IR42-120-EX	IR42	120

**CAT50 I SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	L inch
T00CA50926-08072A	CAT50 IR8-2.82"-EX	IR08	2.82"
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"
T00CA50926-11102A	CAT50 IR11-4"-EX	IR11	4.00"
T00CA50926-16102A	CAT50 IR16-4"-EX	IR16	4.00"
T00CA50926-20102A	CAT50 IR20-4"-EX	IR20	4.00"
T00CA50926-25102A	CAT50 IR25-4"-EX	IR25	4.00"
T00CA50926-32102A	CAT50 IR32-4"-EX	IR32	4.00"
T00CA50926-32102AG	CAT50 IR32-4"-EXG	IR32	4.00"
T00CA50926-40105A	CAT50 IR40-4.13"-EX	IR40	4.13"

**SK40 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50
T00SK40926-11070A	SK40 IR11-070-EX	IR11	70
T00SK40926-16100A	SK40 IR16-100-EX	IR16	100
T00SK40926-20100A	SK40 IR20-100-EX	IR20	100
T00SK40926-25100A	SK40 IR25-100-EX	IR25	100
T00SK40926-32100A	SK40 IR32-100-EX	IR32	100
T00SK40926-32100AG	SK40 IR32-100-EXG	IR32	100
T00SK40926-40120A	SK40 IR40-120-EX	IR40	120

**HSK A32 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50
T00HA32926-11070	HSK A32 IR11-070-EX	IR11	70
T00HA32926-16100	HSK A32 IR16-100-EX	IR16	100

**SK50 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50
T00SK50926-11100A	SK50 IR11-100-EX	IR11	100
T00SK50926-16100A	SK50 IR16-100-EX	IR16	100
T00SK50926-20100A	SK50 IR20-100-EX	IR20	100
T00SK50926-25100A	SK50 IR25-100-EX	IR25	100
T00SK50926-32100A	SK50 IR32-100-EX	IR32	100
T00SK50926-32100AG	SK50 IR32-100-EXG	IR32	100
T00SK50926-40105A	SK50 IR40-105-EX	IR40	105
T00SK50926-41105A	SK50 IR41-105-EX	IR41	105

**HSK A40 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50
T00HA40926-11080	HSK A40 IR11-080-EX	IR11	80
T00HA40926-16080	HSK A40 IR16-080-EX	IR16	80
T00HA40926-20080	HSK A40 IR20-080-EX	IR20	80

**HSK A50 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50
T00HA50926-11070	HSK A50 IR11-070-EX	IR11	70
T00HA50926-16100	HSK A50 IR16-100-EX	IR16	100
T00HA50926-20100	HSK A50 IR20-100-EX	IR20	100
T00HA50926-25100	HSK A50 IR25-100-EX	IR25	100
T00HA50926-32110	HSK A50 IR32-110-EX	IR32	110



**INDEX - IR BASE**
**HSK A63 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HA63926-08070	HSK A63 IR08-070-EX	IR08	70
T00HA63926-8S070	HSK A63 IR8S-070-EX	IR8S	70
T00HA63926-11070	HSK A63 IR11-070-EX	IR11	70
T00HA63926-11100	HSK A63 IR11-100-EX	IR11	100
T00HA63926-16100	HSK A63 IR16-100-EX	IR16	100
T00HA63926-20100	HSK A63 IR20-100-EX	IR20	100
T00HA63926-25100	HSK A63 IR25-100-EX	IR25	100
T00HA63926-32110	HSK A63 IR32-110-EX	IR32	110
T00HA63926-32110G	HSK A63 IR32-110-EXG	IR32	110
T00HA63926-40120	HSK A63 IR40-120-EX	IR40	120

**HSK A80 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HA80926-16100	HSK A80 IR16-100-EX	IR16	100
T00HA80926-20100	HSK A80 IR20-100-EX	IR20	100
T00HA80926-25100	HSK A80 IR25-100-EX	IR25	100
T00HA80926-32110	HSK A80 IR32-110-EX	IR32	110
T00HA80926-40120	HSK A80 IR40-120-EX	IR40	120

**HSK A100 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70
T00HA10926-11100	HSK A100 IR11-100-EX	IR11	100
T00HA10926-16100	HSK A100 IR16-100-EX	IR16	100
T00HA10926-20100	HSK A100 IR20-100-EX	IR20	100
T00HA10926-25100	HSK A100 IR25-100-EX	IR25	100
T00HA10926-32110	HSK A100 IR32-110-EX	IR32	110
T00HA10926-32110G	HSK A100 IR32-110-EXG	IR32	110
T00HA10926-40120	HSK A100 IR40-120-EX	IR40	120
T00HA10926-42120	HSK A100 IR42-120-EX	IR42	120

**HSK A125 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HA12926-16100	HSK A125 IR16-100-EX	IR16	100
T00HA12926-20100	HSK A125 IR20-100-EX	IR20	100
T00HA12926-25100	HSK A125 IR25-100-EX	IR25	100
T00HA12926-32110	HSK A125 IR32-110-EX	IR32	110
T00HA12926-40120	HSK A125 IR40-120-EX	IR40	120
T00HA12926-42120	HSK A125 IR42-120-EX	IR42	120

**HSK E25 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HE25926-08045	HSK E25 IR08-045-EX	IR08	45
T00HE25926-8S045	HSK E25 IR8S-045-EX	IR8S	45
T00HE25926-11050	HSK E25 IR11-050-EX	IR11	50

**HSK E32 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50
T00HE32926-11070	HSK E32 IR11-070-EX	IR11	70
T00HE32926-16100	HSK E32 IR16-100-EX	IR16	100

**HSK E40 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50
T00HE40926-11080	HSK E40 IR11-080-EX	IR11	80
T00HE40926-16080	HSK E40 IR16-080-EX	IR16	80
T00HE40926-20080	HSK E40 IR20-080-EX	IR20	80

**HSK E50 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50
T00HE50926-11070	HSK E50 IR11-070-EX	IR11	70
T00HE50926-16100	HSK E50 IR16-100-EX	IR16	100
T00HE50926-20100	HSK E50 IR20-100-EX	IR20	100
T00HE50926-25110	HSK E50 IR25-110-EX	IR25	110
T00HE50926-32120	HSK E50 IR32-120-EX	IR32	120

**HSK E63 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70
T00HE63926-11070	HSK E63 IR11-070-EX	IR11	70
T00HE63926-16100	HSK E63 IR16-100-EX	IR16	100
T00HE63926-20100	HSK E63 IR20-100-EX	IR20	100
T00HE63926-25100	HSK E63 IR25-100-EX	IR25	100
T00HE63926-32110	HSK E63 IR32-110-EX	IR32	110

**HSK F40 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HF40926-08050	HSK F40 IR08-050-EX	IR08	50
T00HF40926-8S050	HSK F40 IR8S-050-EX	IR8S	50
T00HF40926-11070	HSK F40 IR11-070-EX	IR11	70
T00HF40926-16100	HSK F40 IR16-100-EX	IR16	100
T00HF40926-20100	HSK F40 IR20-100-EX	IR20	100

**HSK F50 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HF50926-08050	HSK F50 IR08-050-EX	IR08	50
T00HF50926-8S050	HSK F50 IR8S-050-EX	IR8S	50
T00HF50926-11070	HSK F50 IR11-070-EX	IR11	70
T00HF50926-16100	HSK F50 IR16-100-EX	IR16	100
T00HF50926-20100	HSK F50 IR20-100-EX	IR20	100
T00HF50926-25100	HSK F50 IR25-100-EX	IR25	100
T00HF50926-32110	HSK F50 IR32-110-EX	IR32	110

**HSK F63 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50
T00HF63926-11070	HSK F63 IR11-070-EX	IR11	70
T00HF63926-16100	HSK F63 IR16-100-EX	IR16	100
T00HF63926-20100	HSK F63 IR20-100-EX	IR20	100
T00HF63926-25100	HSK F63 IR25-100-EX	IR25	100
T00HF63926-32100	HSK F63 IR32-100-EX	IR32	100
T00HF63926-40120	HSK F63 IR40-120-EX	IR40	120

**HSK F80 I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50
T00HF80926-11070	HSK F80 IR11-070-EX	IR11	70
T00HF80926-16100	HSK F80 IR16-100-EX	IR16	100
T00HF80926-20100	HSK F80 IR20-100-EX	IR20	100
T00HF80926-25100	HSK F80 IR25-100-EX	IR25	100
T00HF80926-32100	HSK F80 IR32-100-EX	IR32	100
T00HF80926-40100	HSK F80 IR40-100-EX	IR40	100

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**IPE SYSTEM**

SHANK	SIZE		
PBBT	30	40	50
PBCAT		40	50
PBSK		40	50

**PBBT30 IPE SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70
T00BT30928-11100A	PBBT30 IR11-100-EX	IR11	100
T00BT30928-16100A	PBBT30 IR16-100-EX	IR16	100
T00BT30928-20100A	PBBT30 IR20-100-EX	IR20	100
T00BT30928-25100A	PBBT40 IR25-100-EX	IR25	100
T00BT30928-32100A	PBBT30 IR32-100-EX	IR32	100

**PBBT40 IPE SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70
T00BT40928-11170A	PBBT40 IR11-070-EX	IR11	70
T00BT40928-11100A	PBBT40 IR11-100-EX	IR11	100
T00BT40928-16100A	PBBT40 IR16-100-EX	IR16	100
T00BT40928-20100A	PBBT40 IR20-100-EX	IR20	100
T00BT40928-25100A	PBBT40 IR25-100-EX	IR25	100
T00BT40928-32100A	PBBT40 IR32-100-EX	IR32	100
T00BT40928-32100AG	PBBT40 IR32-100-EXG	IR32	100
T00BT40928-40100	PBBT40 IR40-100-EX	IR40	100

**PBBT50 IPE SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70
T00BT50928-11100A	PBBT50 IR11-100-EX	IR11	100
T00BT50928-16100A	PBBT50 IR16-100-EX	IR16	100
T00BT50928-20100A	PBBT50 IR20-100-EX	IR20	100
T00BT50928-25110A	PBBT50 IR25-110-EX	IR25	110
T00BT50928-32110A	PBBT50 IR32-110-EX	IR32	110
T00BT50928-32110G	PBBT50 IR32-110-EXG	IR32	110
T00BT50928-40120A	PBBT50 IR40-120-EX	IR40	120
T00BT50928-42120A	PBBT50 IR42-120-EX	IR42	120

**PBSK40 IPE SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50
T00SK40928-11070A	PBSK40 IR11-070-EX	IR11	70
T00SK40928-16100A	PBSK40 IR16-100-EX	IR16	100
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100
T00SK40928-25100A	PBSK40 IR25-100-EX	IR25	100
T00SK40928-32100A	PBSK40 IR32-100-EX	IR32	100
T00SK40928-32100AG	PBSK40 IR32-100-EXG	IR32	100
T00SK40928-40120A	PBSK40 IR40-120-EX	IR40	120

**PBCAT40 IPE SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	L inch
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"
T00CA40928-11102A	PBCAT40 IR11-4"-EX	IR11	4.00"
T00CA40928-16102A	PBCAT40 IR16-4"-EX	IR16	4.00"
T00CA40928-20102A	PBCAT40 IR20-4"-EX	IR20	4.00"
T00CA40928-25102A	PBCAT40 IR25-4"-EX	IR25	4.00"
T00CA40928-32120A	PBCAT40 IR32-4.72"-EX	IR32	4.72"
T00CA40928-32120AG	PBCAT40 IR32-4.72"-EXG	IR32	4.72"
T00CA40928-40120A	PBCAT40 IR40-4.72"-EX	IR40	4.72"

**PBCAT50 IPE SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	L inch
T00CA50928-08072A	PBCAT50 IR08-2.82"-EX	IR08	2.82"
T00CA50928-8S072A	PBCAT50 IR8S-2.82"-EX	IR8S	2.82"
T00CA50928-11102A	PBCAT50 IR11-4"-EX	IR11	4.00"
T00CA50928-16102A	PBCAT50 IR16-4"-EX	IR16	4.00"
T00CA50928-20102A	PBCAT50 IR20-4"-EX	IR20	4.00"
T00CA50928-25102A	PBCAT50 IR25-4"-EX	IR25	4.00"
T00CA50928-32102A	PBCAT50 IR32-4"-EX	IR32	4.00"
T00CA50928-32102AG	PBCAT50 IR32-4"-EXG	IR32	4.00"
T00CA50928-40105A	PBCAT50 IR40-4.13"-EX	IR40	4.13"

**PBSK50 IPE SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50
T00SK50928-11100A	PBSK50 IR11-100-EX	IR11	100
T00SK50928-16100A	PBSK50 IR16-100-EX	IR16	100
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100
T00SK50928-25100A	PBSK50 IR25-100-EX	IR25	100
T00SK50928-32100A	PBSK50 IR32-100-EX	IR32	100
T00SK50928-32100AG	PBSK50 IR32-100-EXG	IR32	100
T00SK50928-40105A	PBSK50 IR40-105-EX	IR40	105
T00SK50928-41105A	PBSK50 IR41-105-EX	IR41	105



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**IPE SYSTEM**

SHANK	SIZE		
PBT	30	40	50
PCAT		40	50
PSK		40	50



**PBT30 IPE SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00BT30929-08070A	PBT30 IR08-070-EX	IR08	70
T00BT30929-8S070A	PBT30 IR8S-070-EX	IR8S	70
T00BT30929-11100A	PBT30 IR11-100-EX	IR11	100
T00BT30929-16100A	PBT30 IR16-100-EX	IR16	100
T00BT30929-20100A	PBT30 IR20-100-EX	IR20	100
T00BT30929-25100A	PBT30 IR25-100-EX	IR25	100
T00BT30929-32100A	PBT30 IR32-100-EX	IR32	100

**PBT40 IPE SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00BT40929-08070A	PBT40 IR08-070-EX	IR08	70
T00BT40929-8S070A	PBT40 IR8S-070-EX	IR8S	70
T00BT40929-11070A	PBT40 IR11-070-EX	IR11	70
T00BT40929-11100A	PBT40 IR11-100-EX	IR11	100
T00BT40929-16100A	PBT40 IR16-100-EX	IR16	100
T00BT40929-20100A	PBT40 IR20-100-EX	IR20	100
T00BT40929-25100A	PBT40 IR25-100-EX	IR25	100
T00BT40929-32100A	PBT40 IR32-100-EX	IR32	100
T00BT40929-32100AG	PBT40 IR32-100-EXG	IR32	100
T00BT40929-40100A	PBT40 IR40-100-EX	IR40	100

**PCAT40 IPE SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	L inch
T00CA40929-08072A	PCAT40 IR08-2.82"-EX	IR08	2.82"
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"
T00CA40929-11102A	PCAT40 IR11-4"-EX	IR11	4.00"
T00CA40929-16102A	PCAT40 IR16-4"-EX	IR16	4.00"
T00CA40929-20102A	PCAT40 IR20-4"-EX	IR20	4.00"
T00CA40929-25102A	PCAT40 IR25-4"-EX	IR25	4.00"
T00CA40929-32120A	PCAT40 IR32-4.72"-EX	IR32	4.72"
T00CA40929-32120AG	PCAT40 IR32-4.72"-EXG	IR32	4.72"
T00CA40929-40120A	PCAT40 IR40-4.72"-EX	IR40	4.72"

**PBT50 IPE SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00BT50929-08070A	PBT50 IR08-070-EX	IR08	70
T00BT50929-8S070A	PBT50 IR8S-070-EX	IR8S	70
T00BT50929-11100A	PBT50 IR11-100-EX	IR11	100
T00BT50929-16100A	PBT50 IR16-100-EX	IR16	100
T00BT50929-20100A	PBT50 IR20-100-EX	IR20	100
T00BT50929-25110A	PBT50 IR25-110-EX	IR25	110
T00BT50929-32110A	PBT50 IR32-110-EX	IR32	110
T00BT50929-32110AG	PBT50 IR32-110-EXG	IR32	110
T00BT50929-40120A	PBT50 IR40-120-EX	IR40	120
T00BT50929-42120A	PBT50 IR42-120-EX	IR42	120

**PCAT50 IPE SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	L inch
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"
T00CA50929-11102A	PCAT50 IR11-4"-EX	IR11	4.00"
T00CA50929-16102A	PCAT50 IR16-4"-EX	IR16	4.00"
T00CA50929-20102A	PCAT50 IR20-4"-EX	IR20	4.00"
T00CA50929-25102A	PCAT50 IR25-4"-EX	IR25	4.00"
T00CA50929-32102A	PCAT50 IR32-4"-EX	IR32	4.00"
T00CA50929-32102AG	PCAT50 IR32-4"-EXG	IR32	4.00"
T00CA50929-40105A	PCAT50 IR40-4.13"-EX	IR40	4.13"

**PSK40 IPE SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50
T00SK40929-11070A	PSK40 IR11-070-EX	IR11	70
T00SK40929-16100A	PSK40 IR16-100-EX	IR16	100
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100
T00SK40929-25100A	PSK40 IR25-100-EX	IR25	100
T00SK40929-32100A	PSK40 IR32-100-EX	IR32	100
T00SK40929-32100AG	PSK40 IR32-100-EXG	IR32	100
T00SK40929-40120A	PSK40 IR40-120-EX	IR40	120

**PSK50 IPE SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm
T00SK50929-08050A	PSK50 IR08-050-EX	IR08	50
T00SK50929-8S050A	PSK50 IR8S-050-EX	IR8S	50
T00SK50929-11100A	PSK50 IR11-100-EX	IR11	100
T00SK50929-16100A	PSK50 IR16-100-EX	IR16	100
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100
T00SK50929-25100A	PSK50 IR25-100-EX	IR25	100
T00SK50929-32100A	PSK50 IR32-100-EX	IR32	100
T00SK50929-32100AG	PSK50 IR32-100-EXG	IR32	100
T00SK50929-40105A	PSK50 IR40-105-EX	IR40	105
T00SK50929-41105A	PSK50 IR41-105-EX	IR41	105

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**BT- I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70	
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70	
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70	
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70	
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70	
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70	

**PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70	
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70	
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70	
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70	
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70	
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70	

**PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00BT30929-08070A	PBT30 IR08-070-EX	IR08	70	
T00BT30929-8S070A	PBT30 IR8S-070-EX	IR8S	70	
T00BT40929-08070A	PBT40 IR08-070-EX	IR08	70	
T00BT40929-8S070A	PBT40 IR8S-070-EX	IR8S	70	
T00BT50929-08070A	PBT50 IR08-070-EX	IR08	70	
T00BT50929-8S070A	PBT50 IR8S-070-EX	IR8S	70	

**CAT- I SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	L inch	Qty
T00CA40926-08072A	CAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50926-08072A	CAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"	

**PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE**

Order Number	Part Name	Base	L inch	Qty
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50928-08072A	PBCAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50928-8S072A	PBCAT50 IR8S-2.82"-EX	IR8S	2.82"	

**PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE**

Order Number	Part Name	Base	L inch	Qty
T00CA40929-08072A	PCAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"	

**SK- I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50	
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50	
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50	
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50	

**PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50	
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50	
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50	
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50	

**PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50	
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50	
T00SK50929-08050A	PSK50 IR08-050-EX	IR08	50	
T00SK50929-8S050A	PSK50 IR8S-050-EX	IR8S	50	

**HSK A - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50	
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50	
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50	
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50	
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50	
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50	
T00HA63926-08070	HSK A63 IR08-070-EX	IR08	70	
T00HA63926-8S070	HSK A63 IR8S-070-EX	IR8S	70	
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70	
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70	

**HSK E - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HE25926-08045	HSK E25 IR08-045-EX	IR08	45	
T00HE25926-8S045	HSK E25 IR8S-045-EX	IR8S	45	
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50	
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50	
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50	
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50	
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50	
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50	
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70	
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70	

**HSK F - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HF40926-08050	HSK F40 IR08-050-EX	IR08	50	
T00HF40926-8S050	HSK F40 IR8S-050-EX	IR8S	50	
T00HF50926-08050	HSK F50 IR08-050-EX	IR08	50	
T00HF50926-8S050	HSK F50 IR8S-050-EX	IR8S	50	
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50	
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50	
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50	
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50	

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## IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A926-08035	IR08-IR08-035-EX	IR08	IR08	35	
T12ER08A926-08050	IR08-IR08-050-EX	IR08	IR08	50	
T12ER08A926-08100	IR08-IR08-100-EX	IR08	IR08	100	

## IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A926A08034	IR08-IR08-1.32"-EX	IR08	IR08	1.32"	
T12ER08A926A08051	IR08-IR08-2"-EX	IR08	IR08	2.00"	
T12ER08A926A08072	IR08-IR08-2.84"-EX	IR08	IR08	2.84"	
T12ER08A926A08102	IR08-IR08-4"-EX	IR08	IR08	4.00"	

## ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08AM20-08060	IR08-ER08-060M	IR08	ER08M	60	
T12ER08AM20-08090	IR08-ER08-090M	IR08	ER08M	90	
T12ER08AM20-08100	IR08-ER08-100M	IR08	ER08M	100	
T12ER08AM20-08130	IR08-ER08-130M	IR08	ER08M	130	

## ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08AM20A08051	IR08-ER08-2.0"M	IR08	ER08M	2.00"	
T12ER08AM20A08081	IR08-ER08-3.19"M	IR08	ER08M	3.19"	
T12ER08AM20A08102	IR08-ER08-4.0"M	IR08	ER08M	4.00"	
T12ER08AM20A08132	IR08-ER08-5.19"M	IR08	ER08M	5.19"	

## SHRINK - FIT HOLODER 3° SLIM METRIC - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A250-03060	IR08-SF03-060-3° slim	IR08	SF03	60	
T12ER08A250-03100	IR08-SF03-100-3° slim	IR08	SF03	100	
T12ER08A250-04060	IR08-SF04-060-3° slim	IR08	SF04	60	
T12ER08A250-04100	IR08-SF04-100-3° slim	IR08	SF04	100	
T12ER08A250-05060	IR08-SF05-060-3° slim	IR08	SF05	60	
T12ER08A250-05100	IR08-SF05-100-3° slim	IR08	SF05	100	
T12ER08A250-06060	IR08-SF06-060-3° slim	IR08	SF06	60	
T12ER08A250-06100	IR08-SF06-100-3° slim	IR08	SF06	100	

## SHRINK - FIT HOLODER 3° SLIM INCH - 250

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A250A03060	IR08-SF1/8"-2.36"-3° slim	IR08	SF1/8"	2.36"	
T12ER08A250A03102	IR08-SF1/8"-4"-3° slim	IR08	SF1/8"	4.00"	
T12ER08A250A05060	IR08-SF3/16"-2.36"-3° slim	IR08	SF3/16"	2.36"	
T12ER08A250A05102	IR08-SF3/16"-4"-3° slim	IR08	SF3/16"	4.00"	
T12ER08A250A06060	IR08-SF1/4"-2.36"-3° slim	IR08	SF1/4"	2.36"	
T12ER08A250A06102	IR08-SF1/4"-4"-3° slim	IR08	SF1/4"	4.00"	

INDEX - IR8S EXTENSION

**BT - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00BT30926-08070A	BT30 IR08-070-EX	IR08	70	
T00BT30926-8S070A	BT30 IR8S-070-EX	IR8S	70	
T00BT40926-08070A	BT40 IR08-070-EX	IR08	70	
T00BT40926-8S070A	BT40 IR8S-070-EX	IR8S	70	
T00BT50926-08070A	BT50 IR08-070-EX	IR08	70	
T00BT50926-8S070A	BT50 IR8S-070-EX	IR8S	70	

**PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00BT30928-08070A	PBBT30 IR08-070-EX	IR08	70	
T00BT30928-8S070A	PBBT30 IR8S-070-EX	IR8S	70	
T00BT40928-08070A	PBBT40 IR08-070-EX	IR08	70	
T00BT40928-8S070A	PBBT40 IR8S-070-EX	IR8S	70	
T00BT50928-08070A	PBBT50 IR08-070-EX	IR08	70	
T00BT50928-8S070A	PBBT50 IR8S-070-EX	IR8S	70	

**PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00BT30929-08070A	PBT30 IR08-070-EX	IR08	70	
T00BT30929-8S070A	PBT30 IR8S-070-EX	IR8S	70	
T00BT40929-08070A	PBT40 IR08-070-EX	IR08	70	
T00BT40929-8S070A	PBT40 IR8S-070-EX	IR8S	70	
T00BT50929-08070A	PBT50 IR08-070-EX	IR08	70	
T00BT50929-8S070A	PBT50 IR8S-070-EX	IR8S	70	

**CAT- I SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	L inch	Qty
T00CA40926-08072A	CAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40926-8S072A	CAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50926-08072A	CAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50926-8S072A	CAT50 IR8S-2.82"-EX	IR8S	2.82"	

**PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE**

Order Number	Part Name	Base	L inch	Qty
T00CA40928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA40928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50928-08072A	PBCAT40 IR08-2.82"-EX	IR08	2.82"	
T00CA50928-8S072A	PBCAT40 IR8S-2.82"-EX	IR8S	2.82"	

**PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE**

Order Number	Part Name	Base	L inch	Qty
T00CA40929-08072A	PCAT40 IR8-2.82"-EX	IR08	2.82"	
T00CA40929-8S072A	PCAT40 IR8S-2.82"-EX	IR8S	2.82"	
T00CA50929-08072A	PCAT50 IR08-2.82"-EX	IR08	2.82"	
T00CA50929-8S072A	PCAT50 IR8S-2.82"-EX	IR8S	2.82"	

**SK- I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00SK40926-08050A	SK40 IR08-050-EX	IR08	50	
T00SK40926-8S050A	SK40 IR8S-050-EX	IR8S	50	
T00SK50926-08050A	SK50 IR08-050-EX	IR08	50	
T00SK50926-8S050A	SK50 IR8S-050-EX	IR8S	50	

**PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00SK40928-08050A	PBSK40 IR08-050-EX	IR08	50	
T00SK40928-8S050A	PBSK40 IR8S-050-EX	IR8S	50	
T00SK50928-08050A	PBSK50 IR08-050-EX	IR08	50	
T00SK50928-8S050A	PBSK50 IR8S-050-EX	IR8S	50	

**PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00SK40929-08050A	PSK40 IR08-050-EX	IR08	50	
T00SK40929-8S050A	PSK40 IR8S-050-EX	IR8S	50	
T00SK50929-08050A	PSK50 IR08-050-EX	IR08	50	
T00SK50929-8S050A	PSK50 IR8S-050-EX	IR8S	50	

**HSK A - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HA32926-08050	HSK A32 IR08-050-EX	IR08	50	
T00HA32926-8S050	HSK A32 IR8S-050-EX	IR8S	50	
T00HA40926-08050	HSK A40 IR08-050-EX	IR08	50	
T00HA40926-8S050	HSK A40 IR8S-050-EX	IR8S	50	
T00HA50926-08050	HSK A50 IR08-050-EX	IR08	50	
T00HA50926-8S050	HSK A50 IR8S-050-EX	IR8S	50	
T00HA63926-08070	HSK A63 IR08-070-EX	IR08	70	
T00HA63926-8S070	HSK A63 IR8S-070-EX	IR8S	70	
T00HA10926-08070	HSK A100 IR08-070-EX	IR08	70	
T00HA10926-8S070	HSK A100 IR8S-070-EX	IR8S	70	

**HSK E - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HE25926-08045	HSK E25 IR08-045-EX	IR08	45	
T00HE25926-8S045	HSK E25 IR8S-045-EX	IR8S	45	
T00HE32926-08050	HSK E32 IR08-050-EX	IR08	50	
T00HE32926-8S050	HSK E32 IR8S-050-EX	IR8S	50	
T00HE40926-08050	HSK E40 IR08-050-EX	IR08	50	
T00HE40926-8S050	HSK E40 IR8S-050-EX	IR8S	50	
T00HE50926-08050	HSK E50 IR08-050-EX	IR08	50	
T00HE50926-8S050	HSK E50 IR8S-050-EX	IR8S	50	
T00HE63926-08070	HSK E63 IR08-070-EX	IR08	70	
T00HE63926-8S070	HSK E63 IR8S-070-EX	IR8S	70	

**HSK F - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HF40926-08050	HSK F40 IR08-050-EX	IR08	50	
T00HF40926-8S050	HSK F40 IR8S-050-EX	IR8S	50	
T00HF50926-08050	HSK F50 IR08-050-EX	IR08	50	
T00HF50926-8S050	HSK F50 IR8S-050-EX	IR8S	50	
T00HF63926-08050	HSK F63 IR08-050-EX	IR08	50	
T00HF63926-8S050	HSK F63 IR8S-050-EX	IR8S	50	
T00HF80926-08050	HSK F80 IR08-050-EX	IR08	50	
T00HF80926-8S050	HSK F80 IR8S-050-EX	IR8S	50	

**INDEX - IR8S EXTENSION**

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA926-08050	IR8S-IR08-050-EX	IR8S	IR08	50	
T12ER8SA926-08100	IR8S-IR08-100-EX	IR8S	IR08	100	
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	50	
T12ER8SA926-8S100	IR8S-IR8S-100-EX	IR8S	IR8S	100	

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA926A08102	IR8S-IR08-4"-EX	IR8S	IR08	4.00"	
T12ER8SA926A8S102	IR8S-IR8S-4"-EX	IR8S	IR8S	4.00"	
T12ER8SA926A8S127	IR8S-IR8S-5"-EX	IR8S	IR8S	5.00"	

**ER COLLET CHUCK MINI NUT METRIC - M20**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	
T12ER8SAM20-11030	IR8S-ER11-030M	IR8S	ER11M	30	
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	

**ER COLLET CHUCK MINI NUT INCH - M20**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SAM20A08051	IR8S-ER8-2.0"M	IR8S	ER08M	2.00"	
T12ER8SAM20A08102	IR8S-ER8-4.0"M	IR8S	ER08M	4.00"	
T12ER8SAM20A11051	IR8S-ER11-2.0"M	IR8S	ER11M	2.00"	
T12ER8SAM20A11102	IR8S-ER11-4.0"M	IR8S	ER11M	4.00"	

**SHRINK - FIT HOLODER 4.5° METRIC - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	
T12ER8SA220-03100	IR8S-SF03-100-4.5°	IR8S	SF03	100	

**SHRINK - FIT HOLODER 4.5° INCH - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA220A03051	IR8S-SF1/8"-2"-4.5°	IR8S	SF1/8"	2.00"	
T12ER8SA220A03102	IR8S-SF1/8"-4"-4.5°	IR8S	SF1/8"	4.00"	

**SHRINK - FIT HOLODER 3° METRIC - 240**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA240-03060	IR8S-SF03-060-3°	IR8S	SF03	60	
T12ER8SA240-03100	IR8S-SF03-100-3°	IR8S	SF03	100	
T12ER8SA240-04060	IR8S-SF04-060-3°	IR8S	SF04	60	
T12ER8SA240-04100	IR8S-SF04-100-3°	IR8S	SF04	100	
T12ER8SA240-05060	IR8S-SF05-060-3°	IR8S	SF05	60	
T12ER8SA240-05100	IR8S-SF05-100-3°	IR8S	SF05	100	
T12ER8SA240-06060	IR8S-SF06-060-3°	IR8S	SF06	60	
T12ER8SA240-06100	IR8S-SF06-100-3°	IR8S	SF06	100	

**SHRINK - FIT HOLODER 3° INCH - 240**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA240A03051	IR8S-SF1/8"-2"-3°	IR8S	SF1/8"	2.00"	
T12ER8SA240A03102	IR8S-SF1/8"-4"-3°	IR8S	SF1/8"	4.00"	
T12ER8SA240A05051	IR8S-SF3/16"-2"-3°	IR8S	SF3/16"	2.00"	
T12ER8SA240A05102	IR8S-SF3/16"-4"-3°	IR8S	SF3/16"	4.00"	
T12ER8SA240A06051	IR8S-SF1/4"-2"-3°	IR8S	SF1/4"	2.00"	
T12ER8SA240A06102	IR8S-SF1/4"-4"-3°	IR8S	SF1/4"	4.00"	

**SHRINK - FIT HOLODER 3° SLIM METRIC - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA250-03060	IR8S-SF03-060-3° slim	IR8S	SF03	60	
T12ER8SA250-03100	IR8S-SF03-100-3° slim	IR8S	SF03	100	
T12ER8SA250-04060	IR8S-SF04-060-3° slim	IR8S	SF04	60	
T12ER8SA250-04100	IR8S-SF04-100-3° slim	IR8S	SF04	100	
T12ER8SA250-05060	IR8S-SF05-060-3° slim	IR8S	SF05	60	
T12ER8SA250-05100	IR8S-SF05-100-3° slim	IR8S	SF05	100	
T12ER8SA250-06060	IR8S-SF06-060-3° slim	IR8S	SF06	60	
T12ER8SA250-06100	IR8S-SF06-100-3° slim	IR8S	SF06	100	
T12ER8SA250-08060	IR8S-SF08-060-3° slim	IR8S	SF08	60	
T12ER8SA250-08100	IR8S-SF08-100-3° slim	IR8S	SF08	100	
T12ER8SA250-10060	IR8S-SF10-060-3° slim	IR8S	SF10	60	
T12ER8SA250-10100	IR8S-SF10-100-3° slim	IR8S	SF10	100	

**SHRINK - FIT HOLODER 3° SLIM INCH - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA250A03060	IR8S-SF1/8"-2.36"-3° slim	IR8S	SF1/8"	2.36"	
T12ER8SA250A03102	IR8S-SF1/8"-4"-3° slim	IR8S	SF1/8"	4.00"	
T12ER8SA250A05060	IR8S-SF3/16"-2.36"-3° slim	IR8S	SF3/16"	2.36"	
T12ER8SA250A05102	IR8S-SF3/16"-4"-3° slim	IR8S	SF3/16"	4.00"	
T12ER8SA250A06060	IR8S-SF1/4"-2.36"-3° slim	IR8S	SF1/4"	2.36"	
T12ER8SA250A06102	IR8S-SF1/4"-4"-3° slim	IR8S	SF1/4"	4.00"	
T12ER8SA250A08060	IR8S-SF5/16"-2.36"-3° slim	IR8S	SF5/16"	2.36"	
T12ER8SA250A08102	IR8S-SF5/16"-4"-3° slim	IR8S	SF5/16"	4.00"	
T12ER8SA250A09102	IR8S-SF3/8"-4"-3° slim	IR8S	SF3/8"	4.00"	

**INDEX - IR11 EXTENSION**

**BT - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00BT30926-11100A	BT30 IR11-100-EX	IR11	100	
T00BT40926-11070A	BT40 IR11-070-EX	IR11	70	
T00BT40926-11100A	BT40 IR11-100-EX	IR11	100	
T00BT50926-11100A	BT50 IR11-100-EX	IR11	100	

**PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00BT30928-11100A	PBBT30 IR11-100-EX	IR11	100	
T00BT40928-11070A	PBBT40 IR11-070-EX	IR11	70	
T00BT40928-11100A	PBBT40 IR11-100-EX	IR11	100	
T00BT50928-11100A	PBBT50 IR11-100-EX	IR11	100	

**PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00BT30929-11100A	PBT30 IR11-100-EX	IR11	100	
T00BT40929-11070A	PBT40 IR11-070-EX	IR11	70	
T00BT40929-11100A	PBT40 IR11-100-EX	IR11	100	
T00BT50929-11100A	PBT50 IR11-100-EX	IR11	100	

**CAT - I SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	L inch	Qty
T00CA40926-11102A	CAT40 IR11-4"-EX	IR11	4.00"	
T00CA50926-11102A	CAT50 IR11-4"-EX	IR11	4.00"	

**PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE**

Order Number	Part Name	Base	L inch	Qty
T00CA40928-11102A	PBCAT40 IR11-4"-EX	IR11	4.00"	
T00CA50928-11102A	PBCAT50 IR11-4"-EX	IR11	4.00"	

**PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE**

Order Number	Part Name	Base	L inch	Qty
T00CA40929-11102A	PCAT40 IR11-4"-EX	IR11	4.00"	
T00CA50929-11102A	PCAT50 IR11-4"-EX	IR11	4.00"	

**HSK A - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HA32926-11070	HSK A32 IR11-070-EX	IR11	70	
T00HA40926-11080	HSK A40 IR11-080-EX	IR11	80	
T00HA50926-11070	HSK A50 IR11-070-EX	IR11	70	
T00HA63926-11070	HSK A63 IR11-070-EX	IR11	70	
T00HA63926-11100	HSK A63 IR11-100-EX	IR11	100	
T00HA10926-11100	HSK A100 IR11-100-EX	IR11	100	

**HSK E - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HE25926-11050	HSK E25 IR11-050-EX	IR11	50	
T00HE32926-11070	HSK E32 IR11-070-EX	IR11	70	
T00HE40926-11080	HSK E40 IR11-080-EX	IR11	80	
T00HE50926-11070	HSK E50 IR11-070-EX	IR11	70	
T00HE63926-11070	HSK E63 IR11-070-EX	IR11	70	

**HSK F - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HF40926-11070	HSK F40 IR11-070-EX	IR11	70	
T00HF50926-11070	HSK F50 IR11-070-EX	IR11	70	
T00HF63926-11070	HSK F63 IR11-070-EX	IR11	70	
T00HF80926-11070	HSK F80 IR11-070-EX	IR11	70	

**SK - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00SK40926-11070A	SK40 IR11-070-EX	IR11	70	
T00SK50926-11100A	SK50 IR11-100-EX	IR11	100	

**PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00SK40928-11070A	PBSK40 IR11-070-EX	IR11	70	
T00SK50928-11100A	PBSK50 IR11-100-EX	IR11	100	

**PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00SK40929-11070A	PSK40 IR11-070-EX	IR11	70	
T00SK50929-11100A	PSK50 IR11-100-EX	IR11	100	

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A926-08020	IR11-IR08-020-EX	IR11	IR08	20	
T12ER11A926-08050	IR11-IR08-050-EX	IR11	IR08	50	
T12ER11A926-08070	IR11-IR08-070-EX	IR11	IR08	70	
T12ER11A926-08100	IR11-IR08-100-EX	IR11	IR08	100	
T12ER11A926-8S050	IR11-IR8S-050-EX	IR11	IR8S	50	
T12ER11A926-8S070	IR11-IR8S-070-EX	IR11	IR8S	70	
T12ER11A926-8S100	IR11-IR8S-100-EX	IR11	IR8S	100	
T12ER11A926-11100	IR11-IR11-060M	IR11	IR11	100	
T12ER11A926-11200	IR11-IR11-200-EX	IR11	IR11	200	

**ER COLLET CHUCK MINI NUT METRIC - M20**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11AM20-08060	IR11-ER08-060M	IR11	ER08M	60	
T12ER11AM20-08100	IR11-ER08-100M	IR11	ER08M	100	
T12ER11AM20-11023	IR11-ER11-023M	IR11	ER11M	23	
T12ER11AM20-11060	IR11-ER11-060M	IR11	ER11M	60	
T12ER11AM20-11100	IR11-ER11-100M	IR11	ER11M	100	

**ER COLLET CHUCK METRIC - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	
T12ER11A020-11100	IR11-ER11-100	IR11	ER11	100	

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A926A08102	IR11-IR08-4"-EX	IR11	IR08	4.00"	
T12ER11A926A8S102	IR11-IR8S-4"-EX	IR11	IR8S	4.00"	
T12ER11A926A11102	IR11-IR11-4"-EX	IR11	IR11	4.00"	
T12ER11A926A11127	IR11-IR11-5"-EX	IR11	IR11	5.00"	
T12ER11A926A11203	IR11-IR11-8"-EX	IR11	IR11	8.00"	

**ER COLLET CHUCK MINI NUT INCH - M20**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11AM20A08051	IR11-ER08-2.0"M	IR11	ER08M	2.00"	
T12ER11AM20A08102	IR11-ER08-4.0"M	IR11	ER08M	4.00"	
T12ER11AM20A11051	IR11-ER11-2.0"M	IR11	ER11M	2.00"	
T12ER11AM20A11102	IR11-ER11-4.0"M	IR11	ER11M	4.00"	

**ER COLLET CHUCK INCH - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A020A11051	IR11-ER11-2.0"	IR11	ER11	2.00"	
T12ER11A020A11102	IR11-ER11-4.0"	IR11	ER11	4.00"	



**INDEX - IR11 EXTENSION**

**SCREW-IN HOLDER METRIC - 200**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A200-08060	IR11-M08-060	IR11	M08	60	
T12ER11A200-08100	IR11-M08-100	IR11	M08	100	
T12ER11A200-10060	IR11-M10-060	IR11	M10	60	
T12ER11A200-10100	IR11-M10-100	IR11	M10	100	

**SLIM COLLET CHUCK METRIC - 210**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A210-06100	IR11-HC06-100	IR11	HC06	100	

**SHRINK - FIT HOLODER 4.5° METRIC - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A220-03060	IR11-SF03-060-4.5°	IR11	SF03	60	
T12ER11A220-03100	IR11-SF03-100-4.5°	IR11	SF03	100	
T12ER11A220-04060	IR11-SF04-060-4.5°	IR11	SF04	60	
T12ER11A220-04100	IR11-SF04-100-4.5°	IR11	SF04	100	
T12ER11A220-05060	IR11-SF05-060-4.5°	IR11	SF05	60	
T12ER11A220-05100	IR11-SF05-100-4.5°	IR11	SF05	100	

**SHRINK - FIT HOLODER 4.5° SLIM METRIC - 230**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A230-06060	IR11-SF06-060-4.5° slim	IR11	SF06	60	
T12ER11A230-06100	IR11-SF06-100-4.5° slim	IR11	SF06	100	
T12ER11A230-08060	IR11-SF08-060-4.5° slim	IR11	SF08	60	
T12ER11A230-08100	IR11-SF08-100-4.5° slim	IR11	SF08	100	

**SHRINK - FIT HOLODER 3° METRIC - 240**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A240-03060	IR11-SF03-060-3°	IR11	SF03	60	
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	
T12ER11A240-04060	IR11-SF04-060-3°	IR11	SF04	60	
T12ER11A240-04100	IR11-SF04-100-3°	IR11	SF04	100	
T12ER11A240-05060	IR11-SF05-060-3°	IR11	SF05	60	
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	
T12ER11A240-06060	IR11-SF06-060-3°	IR11	SF06	60	
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	
T12ER11A240-08060	IR11-SF08-060-3°	IR11	SF08	60	
T12ER11A240-08100	IR11-SF08-100-3°	IR11	SF08	100	
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	
T12ER11A240-10100	IR11-SF10-100-3°	IR11	SF10	100	
T12ER11A240-12060	IR11-SF12-060-3°	IR11	SF12	60	
T12ER11A240-12100	IR11-SF12-100-3°	IR11	SF12	100	

**SHRINK - FIT HOLODER 3° SLIM METRIC - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A250-03060	IR11-SF03-060-3° slim	IR11	SF03	60	
T12ER11A250-03100	IR11-SF03-100-3° slim	IR11	SF03	100	
T12ER11A250-04060	IR11-SF04-060-3° slim	IR11	SF04	60	
T12ER11A250-04100	IR11-SF04-100-3° slim	IR11	SF04	100	
T12ER11A250-05060	IR11-SF05-060-3° slim	IR11	SF05	60	
T12ER11A250-05100	IR11-SF05-100-3° slim	IR11	SF05	100	
T12ER11A250-06060	IR11-SF06-060-3° slim	IR11	SF06	60	
T12ER11A250-06100	IR11-SF06-100-3° slim	IR11	SF06	100	
T12ER11A250-08060	IR11-SF08-060-3° slim	IR11	SF08	60	
T12ER11A250-08100	IR11-SF08-100-3° slim	IR11	SF08	100	
T12ER11A250-10060	IR11-SF10-060-3° slim	IR11	SF10	60	
T12ER11A250-10100	IR11-SF10-100-3° slim	IR11	SF10	100	
T12ER11A250-12060	IR11-SF12-060-3° slim	IR11	SF12	60	
T12ER11A250-12100	IR11-SF12-100-3° slim	IR11	SF12	100	

**END MILL HOLDER COOLANT SLOT INCH - 030**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A030A03051	IR11-EM1/8"-2.0°J	IR11	EM1/8"	2.0"	
T12ER11A030A03102	IR11-EM1/8"-4.0°J	IR11	EM1/8"	4.0"	
T12ER11A030A05051	IR11-EM3/16"-2.0°J	IR11	EM3/16"	2.0"	
T12ER11A030A05102	IR11-EM3/16"-4.0°J	IR11	EM3/16"	4.0"	
T12ER11A030A06051	IR11-EM1/4"-2.0°J	IR11	EM1/4"	2.0"	
T12ER11A030A06102	IR11-EM1/4"-4.0°J	IR11	EM1/4"	4.0"	

**END MILL HOLDER INCH - 040**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A040A03051	IR11-EM1/8"-2.0"	IR11	EM1/8"	2.0"	
T12ER11A040A03102	IR11-EM1/8"-4.0"	IR11	EM1/8"	4.0"	
T12ER11A040A05051	IR11-EM3/16"-2.0"	IR11	EM3/16"	2.0"	
T12ER11A040A05102	IR11-EM3/16"-4.0"	IR11	EM3/16"	4.0"	
T12ER11A040A06051	IR11-EM1/4"-2.0"	IR11	EM1/4"	2.0"	
T12ER11A040A06102	IR11-EM1/4"-4.0"	IR11	EM1/4"	4.0"	

**SHRINK - FIT HOLODER 4.5° INCH - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A220A03051	IR11-SF1/8"-2"-4.5°	IR11	SF1/8"	2.00"	
T12ER11A220A03102	IR11-SF1/8"-4"-4.5°	IR11	SF1/8"	4.00"	
T12ER11A220A05051	IR11-SF3/16"-2"-4.5°	IR11	SF3/16"	2.00"	
T12ER11A220A05102	IR11-SF3/16"-4"-4.5°	IR11	SF3/16"	4.00"	

**SHRINK - FIT HOLODER 4.5° SLIM INCH - 230**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A230A06051	IR11-SF1/4"-2"-4.5° slim	IR11	SF1/4"	2.00"	
T12ER11A230A06102	IR11-SF1/4"-4"-4.5° slim	IR11	SF1/4"	4.00"	
T12ER11A230A08051	IR11-SF5/16"-2"-4.5° slim	IR11	SF5/16"	2.00"	
T12ER11A230A08102	IR11-SF5/16"-4"-4.5° slim	IR11	SF5/16"	4.00"	

**SHRINK - FIT HOLODER 3° INCH - 240**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A240A03051	IR11-SF1/8"-2"-3°	IR11	SF1/8"	2.00"	
T12ER11A240A03102	IR11-SF1/8"-4"-3°	IR11	SF1/8"	4.00"	
T12ER11A240A05051	IR11-SF3/16"-2"-3°	IR11	SF3/16"	2.00"	
T12ER11A240A05102	IR11-SF3/16"-4"-3°	IR11	SF3/16"	4.00"	
T12ER11A240A06051	IR11-SF1/4"-2"-3°	IR11	SF1/4"	2.00"	
T12ER11A240A06102	IR11-SF1/4"-4"-3°	IR11	SF1/4"	4.00"	
T12ER11A240A08051	IR11-SF5/16"-2"-3°	IR11	SF5/16"	2.00"	
T12ER11A240A08102	IR11-SF5/16"-4"-3°	IR11	SF5/16"	4.00"	
T12ER11A240A09051	IR11-SF3/8"-2"-3°	IR11	SF3/8"	2.00"	
T12ER11A240A09102	IR11-SF3/8"-4"-3°	IR11	SF3/8"	4.00"	
T12ER11A240A12051	IR11-SF1/2"-2"-3°	IR11	SF1/2"	2.00"	
T12ER11A240A12102	IR11-SF1/2"-4"-3°	IR11	SF1/2"	4.00"	

**SHRINK - FIT HOLODER 3° SLIM INCH - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A250A03051	IR11-SF1/8"-2"-3° slim	IR11	SF1/8"	2.00"	
T12ER11A250A03102	IR11-SF1/8"-4"-3° slim	IR11	SF1/8"	4.00"	
T12ER11A250A05051	IR11-SF3/16"-2"-3° slim	IR11	SF3/16"	2.00"	
T12ER11A250A05102	IR11-SF3/16"-4"-3° slim	IR11	SF3/16"	4.00"	
T12ER11A250A06051	IR11-SF1/4"-2"-3° slim	IR11	SF1/4"	2.00"	
T12ER11A250A06102	IR11-SF1/4"-4"-3° slim	IR11	SF1/4"	4.00"	
T12ER11A250A08051	IR11-SF5/16"-2"-3° slim	IR11	SF5/16"	2.00"	
T12ER11A250A08102	IR11-SF5/16"-4"-3° slim	IR11	SF5/16"	4.00"	
T12ER11A250A09051	IR11-SF3/8"-2"-3° slim	IR11	SF3/8"	2.00"	
T12ER11A250A09102	IR11-SF3/8"-4"-3° slim	IR11	SF3/8"	4.00"	
T12ER11A250A12051	IR11-SF1/2"-2"-3° slim	IR11	SF1/2"	2.00"	
T12ER11A250A12100	IR11-SF1/2"-4"-3° slim	IR11	SF1/2"	4.00"	

INDEX - IR16 EXTENSION

BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-16100A	BT30 IR16-100-EX	IR16	100	
T00BT40926-16100A	BT40 IR16-100-EX	IR16	100	
T00BT50926-16100A	BT50 IR16-100-EX	IR16	100	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-16100A	PBBT30 IR16-100-EX	IR16	100	
T00BT40928-16100A	PBBT40 IR16-100-EX	IR16	100	
T00BT50928-16100A	PBBT50 IR16-100-EX	IR16	100	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-16100A	PBT30 IR16-100-EX	IR16	100	
T00BT40929-16100A	PBT40 IR16-100-EX	IR16	100	
T00BT50929-16100A	PBT50 IR16-100-EX	IR16	100	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-16102A	CAT40 IR16-4"-EX	IR16	4.00"	
T00CA50926-16102A	CAT50 IR16-4"-EX	IR16	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-16102A	PBCAT40 IR16-4"-EX	IR16	4.00"	
T00CA50928-16102A	PBCAT50 IR16-4"-EX	IR16	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-16102A	PCAT40 IR16-4"-EX	IR16	4.00"	
T00CA50929-16102A	PCAT50 IR16-4"-EX	IR16	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA32926-16100	HSK A32 IR16-100-EX	IR16	100	
T00HA40926-16080	HSK A40 IR16-080-EX	IR16	80	
T00HA50926-16100	HSK A50 IR16-100-EX	IR16	100	
T00HA63926-16100	HSK A63 IR16-100-EX	IR16	100	
T00HA80926-16100	HSK A80 IR16-100-EX	IR16	100	
T00HA10926-16100	HSK A100 IR16-100-EX	IR16	100	
T00HA12926-16100	HSK A125 IR16-100-EX	IR16	100	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE32926-16100	HSK E32 IR16-100-EX	IR16	100	
T00HE40926-16080	HSK E40 IR16-080-EX	IR16	80	
T00HE50926-16100	HSK E50 IR16-100-EX	IR16	100	
T00HE63926-16100	HSK E63 IR16-100-EX	IR16	100	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF40926-16100	HSK F40 IR16-100-EX	IR16	100	
T00HF50926-16100	HSK F50 IR16-100-EX	IR16	100	
T00HF63926-16100	HSK F63 IR16-100-EX	IR16	100	
T00HF80926-16100	HSK F80 IR16-100-EX	IR16	100	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-16100A	SK40 IR16-100-EX	IR16	100	
T00SK50926-16100A	SK50 IR16-100-EX	IR16	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-16100A	PBSK40 IR16-100-EX	IR16	100	
T00SK50928-16100A	PBSK50 IR16-100-EX	IR16	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-16100A	PSK40 IR16-100-EX	IR16	100	
T00SK50929-16100A	PSK50 IR16-100-EX	IR16	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A926-11050	IR16-IR11-050-EX	IR16	IR11	50	
T12ER16A926-11100	IR16-IR11-100-EX	IR16	IR11	100	
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	
T12ER16A926-16112	IR16-IR16-112-EX	IR16	IR16	112	
T12ER16A926-16200	IR16-IR16-200-EX	IR16	IR16	200	

ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16AM20-11060	IR16-ER11-060M	IR16	ER11M	60	
T12ER16AM20-11100	IR16-ER11-100M	IR16	ER11M	100	
T12ER16AM20-16060	IR16-ER16-060M	IR16	ER16M	60	
T12ER16AM20-16100	IR16-ER16-100M	IR16	ER16M	100	
T12ER16AM20-20060	IR16-ER20-060M	IR16	ER20M	60	
T12ER16AM20-20100	IR16-ER20-100M	IR16	ER20M	100	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A020-11060	IR16-ER11-060	IR16	ER11	60	
T12ER16A020-11100	IR16-ER11-100	IR16	ER11	100	
T12ER16A020-16060	IR16-ER16-060	IR16	ER16	60	
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	
T12ER16A020-16112	IR16-ER16-112	IR16	ER16	112	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A926A11102	IR16-IR11-4"-EX	IR16	IR11	4.00"	
T12ER16A926A16102	IR16-IR16-4"-EX	IR16	IR16	4.00"	
T12ER16A926A16127	IR16-IR16-5"-EX	IR16	IR16	5.00"	
T12ER16A926A16203	IR16-IR16-8"-EX	IR16	IR16	8.00"	

ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16AM20A11051	IR16-ER11-2.0"M	IR16	ER11M	2.00"	
T12ER16AM20A11102	IR16-ER11-4.0"M	IR16	ER11M	4.00"	
T12ER16AM20A16051	IR16-ER16-2.0"M	IR16	ER16M	2.00"	
T12ER16AM20A16102	IR16-ER16-4.0"M	IR16	ER16M	4.00"	
T12ER16AM20A20051	IR16-ER20-2.0"M	IR16	ER20M	2.00"	
T12ER16AM20A20102	IR16-ER20-4.0"M	IR16	ER20M	4.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A020A11051	IR16-ER11-2.0"	IR16	ER11	2.00"	
T12ER16A020A11102	IR16-ER11-4.0"	IR16	ER11	4.00"	
T12ER16A020A16051	IR16-ER16-2.0"	IR16	ER16	2.00"	
T12ER16A020A16102	IR16-ER16-4.0"	IR16	ER16	4.00"	

## INDEX - IR16 EXTENSION

## END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A030-06060	IR16-EM06-060J	IR16	EM06	60	
T12ER16A030-06100	IR16-EM06-100J	IR16	EM06	100	
T12ER16A030-08060	IR16-EM08-060J	IR16	EM08	60	
T12ER16A030-08100	IR16-EM08-100J	IR16	EM08	100	

## END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A040-06060	IR16-EM06-060	IR16	EM06	60	
T12ER16A040-06100	IR16-EM06-100	IR16	EM06	100	
T12ER16A040-08060	IR16-EM08-060	IR16	EM08	60	
T12ER16A040-08100	IR16-EM08-100	IR16	EM08	100	

## END MILL HOLDER WHISTLE METRIC - 050

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A050-06060	IR16-EM06-060W	IR16	EM06	60	
T12ER16A050-06100	IR16-EM06-100W	IR16	EM06	100	
T12ER16A050-08060	IR16-EM08-060W	IR16	EM08	60	
T12ER16A050-08100	IR16-EM08-100W	IR16	EM08	100	

## SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A200-10060	IR16-M10-060	IR16	M10	60	
T12ER16A200-10100	IR16-M10-100	IR16	M10	100	
T12ER16A200-12060	IR16-M12-060	IR16	M12	60	
T12ER16A200-12100	IR16-M12-100	IR16	M12	100	

## SLIM COLLET CHUCK METRIC - 210

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A210-06100	IR16-HC06-100	IR16	HC06	100	
T12ER16A210-10100	IR16-HC10-100	IR16	HC10	100	

## SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A220-06060	IR16-SF06-060-4.5°	IR16	SF06	60	
T12ER16A220-06100	IR16-SF06-100-4.5°	IR16	SF06	100	
T12ER16A220-08060	IR16-SF08-060-4.5°	IR16	SF08	60	
T12ER16A220-08100	IR16-SF08-100-4.5°	IR16	SF08	100	
T12ER16A220-10060	IR16-SF10-060-4.5°	IR16	SF10	60	
T12ER16A220-10100	IR16-SF10-100-4.5°	IR16	SF10	100	
T12ER16A220-12060	IR16-SF12-060-4.5°	IR16	SF12	60	
T12ER16A220-12100	IR16-SF12-100-4.5°	IR16	SF12	100	

## SHRINK - FIT HOLODER 4.5° SLIM METRIC - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A230-10060	IR16-SF10-060-4.5° slim	IR16	SF10	60	
T12ER16A230-10100	IR16-SF10-100-4.5° slim	IR16	SF10	100	
T12ER16A230-12060	IR16-SF12-060-4.5° slim	IR16	SF12	60	
T12ER16A230-12100	IR16-SF12-100-4.5° slim	IR16	SF12	100	
T12ER16A230-16060	IR16-SF16-060-4.5° slim	IR16	SF16	60	
T12ER16A230-16100	IR16-SF16-100-4.5° slim	IR16	SF16	100	

## SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A240-12100	IR16-SF12-100-3°	IR16	SF12	100	
T12ER16A240-16060	IR16-SF16-060-3°	IR16	SF16	60	
T12ER16A240-16100	IR16-SF16-100-3°	IR16	SF16	100	

## END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A030A06051	IR16-EM1/4"-2.0"J	IR16	EM1/4"	2.00"	
T12ER16A030A06102	IR16-EM1/4"-4.0"J	IR16	EM1/4"	4.00"	
T12ER16A030A08051	IR16-EM5/16"-2.0"J	IR16	EM5/16"	2.00"	
T12ER16A030A08102	IR16-EM5/16"-4.0"J	IR16	EM5/16"	4.00"	
T12ER16A030A09051	IR16-EM3/8"-2.0"J	IR16	EM3/8"	2.00"	
T12ER16A030A09102	IR16-EM3/8"-4.0"J	IR16	EM3/8"	4.00"	

## END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A040A06051	IR16-EM1/4"-2.0"	IR16	EM1/4"	2.00"	
T12ER16A040A06102	IR16-EM1/4"-4.0"	IR16	EM1/4"	4.00"	
T12ER16A040A08051	IR16-EM5/16"-2.0"	IR16	EM5/16"	2.00"	
T12ER16A040A08102	IR16-EM5/16"-4.0"	IR16	EM5/16"	4.00"	
T12ER16A040A09051	IR16-EM3/8"-2.0"	IR16	EM3/8"	2.00"	
T12ER16A040A09102	IR16-EM3/8"-4.0"	IR16	EM3/8"	4.00"	

## SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A200A10060	IR16-M10-2.36"	IR16	M10	2.36"	
T12ER16A200A10100	IR16-M10-3.94"	IR16	M10	3.94"	
T12ER16A200A12060	IR16-M12-2.36"	IR16	M12	2.36"	
T12ER16A200A12100	IR16-M12-3.94"	IR16	M12	3.94"	

## SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A220A06051	IR16-SF1/4"-2"-4.5°	IR16	SF1/4"	2.00"	
T12ER16A220A06060	IR16-SF1/4"-2.36"-4.5°	IR16	SF1/4"	2.36"	
T12ER16A220A06102	IR16-SF1/4"-4"-4.5°	IR16	SF1/4"	4.00"	
T12ER16A220A08051	IR16-SF5/16"-2"-4.5°	IR16	SF5/16"	2.00"	
T12ER16A220A08060	IR16-SF5/16"-2.36"-4.5°	IR16	SF5/16"	2.36"	
T12ER16A220A08102	IR16-SF5/16"-4"-4.5°	IR16	SF5/16"	4.00"	
T12ER16A220A09051	IR16-SF3/8"-2"-4.5°	IR16	SF3/8"	2.00"	
T12ER16A220A09060	IR16-SF3/8"-2.36"-4.5°	IR16	SF3/8"	2.36"	
T12ER16A220A09102	IR16-SF3/8"-4"-4.5°	IR16	SF3/8"	4.00"	
T12ER16A220A12051	IR16-SF1/2"-2"-4.5°	IR16	SF1/2"	2.00"	
T12ER16A220A12060	IR16-SF1/2"-2.36"-4.5°	IR16	SF1/2"	2.36"	
T12ER16A220A12102	IR16-SF1/2"-4"-4.5°	IR16	SF1/2"	4.00"	

## SHRINK - FIT HOLODER 4.5° SLIM INCH - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A230A09060	IR16-SF3/8"-2.36"-4.5° slim	IR16	SF3/8"	2.36"	
T12ER16A230A09102	IR16-SF3/8"-4"-4.5° slim	IR16	SF3/8"	4.00"	
T12ER16A230A12060	IR16-SF1/2"-2.36"-4.5° slim	IR16	SF1/2"	2.36"	
T12ER16A230A12102	IR16-SF1/2"-4"-4.5° slim	IR16	SF1/2"	4.00"	
T12ER16A230A16060	IR16-SF5/8"-2.36"-4.5° slim	IR16	SF5/8"	2.36"	
T12ER16A230A16102	IR16-SF5/8"-4"-4.5° slim	IR16	SF5/8"	4.00"	

## SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A240A12102	IR16-SF1/2"-4"-3°	IR16	SF1/2"	4.00"	
T12ER16A240A16051	IR16-SF5/8"-2"-3°	IR16	SF5/8"	2.00"	
T12ER16A240A16102	IR16-SF5/8"-4"-3°	IR16	SF5/8"	4.00"	

INDEX - IR20 EXTENSION

BT - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT30926-20100A	BT30 IR20-100-EX	IR20	100	
T00BT40926-20100A	BT40 IR20-100-EX	IR20	100	
T00BT50926-20100A	BT50 IR20-100-EX	IR20	100	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-20100A	PBBT30 IR20-100-EX	IR20	100	
T00BT40928-20100A	PBBT40 IR20-100-EX	IR20	100	
T00BT50928-20100A	PBBT50 IR20-100-EX	IR20	100	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-20100A	PBT30 IR20-100-EX	IR20	100	
T00BT40929-20100A	PBT40 IR20-100-EX	IR20	100	
T00BT50929-20100A	PBT50 IR20-100-EX	IR20	100	

CAT - I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-20102A	CAT40 IR20-4"-EX	IR20	4.00"	
T00CA50926-20102A	CAT50 IR20-4"-EX	IR20	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-20102A	PBCAT40 IR20-4"-EX	IR20	4.00"	
T00CA50928-20102A	PBCAT50 IR20-4"-EX	IR20	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-20102A	PCAT40 IR20-4"-EX	IR20	4.00"	
T00CA50929-20102A	PCAT50 IR20-4"-EX	IR20	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA40926-20080	HSK A40 IR20-080-EX	IR20	80	
T00HA50926-20100	HSK A50 IR20-100-EX	IR20	100	
T00HA63926-20100	HSK A63 IR20-100-EX	IR20	100	
T00HA80926-20100	HSK A80 IR20-100-EX	IR20	100	
T00HA10926-20100	HSK A100 IR20-100-EX	IR20	100	
T00HA12926-20100	HSK A125 IR20-100-EX	IR20	100	

HSK E - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HE40926-20080	HSK E40 IR20-080-EX	IR20	80	
T00HE50926-20100	HSK E50 IR20-100-EX	IR20	100	
T00HE63926-20100	HSK E63 IR20-100-EX	IR20	100	

HSK F - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF40926-20100	HSK F40 IR20-100-EX	IR20	100	
T00HF50926-20100	HSK F50 IR20-100-EX	IR20	100	
T00HF63926-20100	HSK F63 IR20-100-EX	IR20	100	
T00HF80926-20100	HSK F80 IR20-100-EX	IR20	100	

SK - I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-20100A	SK40 IR20-100-EX	IR20	100	
T00SK50926-20100A	SK50 IR20-100-EX	IR20	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100	
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100	
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A926-16050	IR20-IR16-050-EX	IR20	IR16	50	
T12ER20A926-16100	IR20-IR16-100-EX	IR20	IR16	100	
T12ER20A926-16112	IR20-IR16-112-EX	IR20	IR16	112	
T12ER20A926-20100	IR20-IR20-100-EX	IR20	IR20	100	
T12ER20A926-20112	IR20-IR20-112-EX	IR20	IR20	112	
T12ER20A926-20200	IR20-IR20-200-EX	IR20	IR20	200	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	100	
T12ER20A020-16112	IR20-ER16-112	IR20	ER16	112	
T12ER20A020-20060	IR20-ER20-060	IR20	ER20	60	
T12ER20A020-20100	IR20-ER20-100	IR20	ER20	100	
T12ER20A020-20112	IR20-ER20-112	IR20	ER20	112	

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A030-10060	IR20-EM10-060J	IR20	EM10	60	
T12ER20A030-10100	IR20-EM10-100J	IR20	EM10	100	

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A040-08112	IR20-EM08-112	IR20	EM08	112	
T12ER20A040-10060	IR20-EM10-060	IR20	EM10	60	
T12ER20A040-10100	IR20-EM10-100	IR20	EM10	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A926A20102	IR20-IR20-4"-EX	IR20	IR20	4.00"	
T12ER20A926A20127	IR20-IR20-5"-EX	IR20	IR20	5.00"	
T12ER20A926A20203	IR20-IR20-8"-EX	IR20	IR20	8.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A020A20051	IR20-ER20-2.0"	IR20	ER20	2.00"	
T12ER20A020A20102	IR20-ER20-4.0"	IR20	ER20	4.00"	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A030A12051	IR20-EM1/2"-2.0"J	IR20	EM1/2"	2.00"	
T12ER20A030A12102	IR20-EM1/2"-4.0"J	IR20	EM1/2"	4.00"	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A040A12051	IR20-EM1/2"-2.0"	IR20	EM1/2"	2.00"	
T12ER20A040A12102	IR20-EM1/2"-4.0"	IR20	EM1/2"	4.00"	

INDEX - IR20 EXTENSION

END MILL HOLDER WHISTLE METRIC - 050

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A050-10060	IR20-EM10-060W	IR20	EM10	60	
T12ER20A050-10100	IR20-EM10-100W	IR20	EM10	100	

SHELL MILLING HOLDER METRIC - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A120-16060	IR20-SM16-060	IR20	SM16	60	
T12ER20A120-16100	IR20-SM16-100	IR20	SM16	100	

SHELL MILLING HOLDER COOLANT SLOT METRIC - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A130-16060	IR20-SM16-060J	IR20	SM16	60	
T12ER20A130-16100	IR20-SM16-100J	IR20	SM16	100	

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A200-10060	IR20-M10-060	IR20	M10	60	
T12ER20A200-10100	IR20-M10-100	IR20	M10	100	
T12ER20A200-10112	IR20-M10-112	IR20	M10	112	
T12ER20A200-12060	IR20-M12-060	IR20	M12	60	
T12ER20A200-12100	IR20-M12-100	IR20	M12	100	
T12ER20A200-16060	IR20-M16-060	IR20	M16	60	
T12ER20A200-16100	IR20-M16-100	IR20	M16	100	

SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A200A10060	IR20-M10-2.36"	IR20	M10	2.36"	
T12ER20A200A10100	IR20-M10-3.94"	IR20	M10	3.94"	
T12ER20A200A10112	IR20-M10-4.41"	IR20	M10	4.41"	
T12ER20A200A12060	IR20-M12-2.36"	IR20	M12	2.36"	
T12ER20A200A12100	IR20-M12-3.94"	IR20	M12	3.94"	
T12ER20A200A16060	IR20-M16-2.36"	IR20	M16	2.36"	
T12ER20A200A16100	IR20-M16-3.94"	IR20	M16	3.94"	

SLIM COLLET CHUCK METRIC - 210

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A210-16100	IR20-HC16-100	IR20	HC16	100	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A220-14060	IR20-SF14-060-4.5°	IR20	SF14	60	
T12ER20A220-14100	IR20-SF14-100-4.5°	IR20	SF14	100	
T12ER20A220-16060	IR20-SF16-060-4.5°	IR20	SF16	60	
T12ER20A220-16100	IR20-SF16-100-4.5°	IR20	SF16	100	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A220A16051	IR20-SF5/8"-2"-4.5°	IR20	SF5/8"	2.00"	
T12ER20A220A16102	IR20-SF5/8"-4"-4.5°	IR20	SF5/8"	4.00"	

SHRINK - FIT HOLODER 4.5° SLIM METRIC - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A230-20060	IR20-SF20-060-4.5° slim	IR20	SF20	60	
T12ER20A230-20100	IR20-SF20-100-4.5° slim	IR20	SF20	100	

SHRINK - FIT HOLODER 4.5° SLIM INCH - 230

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A230A19051	IR20-SF3/4"-2"-4.5° slim	IR20	SF3/4"	2.00"	
T12ER20A230A19102	IR20-SF3/4"-4"-4.5° slim	IR20	SF3/4"	4.00"	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A240-16100	IR20-SF16-100-3°	IR20	SF16	100	
T12ER20A240-20060	IR20-SF20-060-3°	IR20	SF20	60	
T12ER20A240-20100	IR20-SF20-100-3°	IR20	SF20	100	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A240A16102	IR20-SF5/8"-4"-3°	IR20	SF5/8"	4.00"	
T12ER20A240A19051	IR20-SF3/4"-2"-3°	IR20	SF3/4"	2.00"	
T12ER20A240A19102	IR20-SF3/4"-4"-3°	IR20	SF3/4"	4.00"	

INDEX - IR25 EXTENSION

BT - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00BT30926-25100A	BT30 IR25-100-EX	IR25	100	
T00BT40926-25100A	BT40 IR25-100-EX	IR25	100	
T00BT50926-25110A	BT50 IR25-110-EX	IR25	110	

PBBT- IPE SYSTEM, IR EXTENSION BASE **METRIC** BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-25100A	PBBT30 IR25-100-EX	IR25	100	
T00BT40928-25100A	PBBT40 IR25-100-EX	IR25	100	
T00BT50928-25110A	PBBT50 IR25-110-EX	IR25	110	

PBT- IPE SYSTEM, IR EXTENSION BASE **METRIC** STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-25100A	PBT30 IR25-100-EX	IR25	100	
T00BT40929-25100A	PBT40 IR25-100-EX	IR25	100	
T00BT50929-25110A	PBT50 IR25-110-EX	IR25	110	

CAT - I SYSTEM, IR EXTENSION BASE **INCH**

Order Number	Part Name	Base	L inch	Qty
T00CA40926-25102A	CAT40 IR25-4"-EX	IR25	4.00"	
T00CA50926-25102A	CAT50 IR25-4"-EX	IR25	4.00"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE **INCH** BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-25102A	PBCAT40 IR25-4"-EX	IR25	4.00"	
T00CA50928-25102A	PBCAT50 IR25-4"-EX	IR25	4.00"	

PCAT- IPE SYSTEM, IR EXTENSION BASE **INCH** STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-25102A	PCAT40 IR25-4"-EX	IR25	4.00"	
T00CA50929-25102A	PCAT50 IR25-4"-EX	IR25	4.00"	

HSK A - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HA50926-25100	HSK A50 IR25-100-EX	IR25	100	
T00HA63926-25100	HSK A63 IR25-100-EX	IR25	100	
T00HA80926-25100	HSK A80 IR25-100-EX	IR25	100	
T00HA10926-25100	HSK A100 IR25-100-EX	IR25	100	
T00HA12926-25100	HSK A125 IR25-100-EX	IR25	100	

HSK E - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HE50926-25100	HSK E50 IR25-100-EX	IR25	100	
T00HE63926-25100	HSK E63 IR25-100-EX	IR25	100	

HSK F - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HF50926-25100	HSK F50 IR25-100-EX	IR25	100	
T00HF63926-25100	HSK F63 IR25-100-EX	IR25	100	
T00HF80926-25100	HSK F80 IR25-100-EX	IR25	100	

SK - I SYSTEM, IR EXTENSION BASE **METRIC**

Order Number	Part Name	Base	L mm	Qty
T00SK40926-25100A	SK40 IR25-100-EX	IR25	100	
T00SK50926-25100A	SK50 IR25-100-EX	IR25	100	

PBSK- IPE SYSTEM, IR EXTENSION BASE **METRIC** BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-25100A	PBSK40 IR25-100-EX	IR25	100	
T00SK50928-25100A	PBSK50 IR25-100-EX	IR25	100	

PSK- IPE SYSTEM, IR EXTENSION BASE **METRIC** STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-25100A	PSK40 IR25-100-EX	IR25	100	
T00SK50929-25100A	PSK50 IR25-100-EX	IR25	100	

IR EXTENSION BASE **METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A926-16050	IR25-IR16-050-EX	IR25	IR16	50	
T12ER25A926-16100	IR25-IR16-100-EX	IR25	IR16	100	
T12ER25A926-16112	IR25-IR16-112-EX	IR25	IR16	112	
T12ER25A926-20050	IR25-IR20-050-EX	IR25	IR20	50	
T12ER25A926-20100	IR25-IR20-100-EX	IR25	IR20	100	
T12ER25A926-20112	IR25-IR20-112-EX	IR25	IR20	112	
T12ER25A926-25100	IR25-IR25-100-EX	IR25	IR25	100	
T12ER25A926-25112	IR25-IR25-112-EX	IR25	IR25	112	
T12ER25A926-25200	IR25-IR25-200-EX	IR25	IR25	200	

IR EXTENSION BASE **INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A926A25102	IR25-IR25-4"-EX	IR25	IR25	4.00"	
T12ER25A926A25127	IR25-IR25-5"-EX	IR25	IR25	5.00"	
T12ER25A926A25203	IR25-IR25-8"-EX	IR25	IR25	8.00"	

ER COLLET CHUCK **METRIC - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	100	
T12ER25A020-16112	IR25-ER16-112	IR25	ER16	112	
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	100	
T12ER25A020-25060	IR25-ER25-060	IR25	ER25	60	
T12ER25A020-25100	IR25-ER25-100	IR25	ER25	100	

ER COLLET CHUCK **INCH - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A020A25051	IR25-ER25-2.0"	IR25	ER25	2.00"	
T12ER25A020A25102	IR25-ER25-4.0"	IR25	ER25	4.00"	

END MILL HOLDER **COOLANT SLOT METRIC - 030**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A030-12060	IR25-EM12-060J	IR25	EM12	60	
T12ER25A030-12100	IR25-EM12-100J	IR25	EM12	100	
T12ER25A030-16060	IR25-EM16-060J	IR25	EM16	60	
T12ER25A030-16100	IR25-EM16-100J	IR25	EM16	100	

END MILL HOLDER **COOLANT SLOT INCH - 030**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A030A16051	IR25-EM5/8"-2.0"J	IR25	EM5/8"	2.00"	
T12ER25A030A16102	IR25-EM5/8"-4.0"J	IR25	EM5/8"	4.00"	
T12ER25A030A19051	IR25-EM3/4"-2.0"J	IR25	EM3/4"	2.00"	
T12ER25A030A19102	IR25-EM3/4"-4.0"J	IR25	EM3/4"	4.00"	

INDEX - IR25 EXTENSION

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A040-12060	IR25-EM12-060	IR25	EM12	60	
T12ER25A040-12100	IR25-EM12-100	IR25	EM12	100	
T12ER25A040-14060	IR25-EM14-060	IR25	EM14	60	
T12ER25A040-14100	IR25-EM14-100	IR25	EM14	100	
T12ER25A040-16060	IR25-EM16-060	IR25	EM16	60	
T12ER25A040-16100	IR25-EM16-100	IR25	EM16	100	

END MILL HOLDER WHISTLE METRIC - 050

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A050-12060	IR25-EM12-060W	IR25	EM12	60	
T12ER25A050-12100	IR25-EM12-100W	IR25	EM12	100	
T12ER25A050-14060	IR25-EM14-060W	IR25	EM14	60	
T12ER25A050-14100	IR25-EM14-100W	IR25	EM14	100	
T12ER25A050-16060	IR25-EM16-060W	IR25	EM16	60	
T12ER25A050-16100	IR25-EM16-100W	IR25	EM16	100	

SHELL MILLING HOLDER METRIC - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A120-16060	IR25-SM16-060	IR25	SM16	60	
T12ER25A120-16100	IR25-SM16-100	IR25	SM16	100	

SHELL MILLING HOLDER COOLANT SLOT METRIC - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A130-16060	IR25-SM16-060J	IR25	SM16	60	
T12ER25A130-16100	IR25-SM16-100J	IR25	SM16	100	

SCREW-IN HOLDER METRIC - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A200-12112	IR25-M12-112	IR25	M12	112	
T12ER25A200-16112	IR25-M16-112	IR25	M16	112	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A220-18060	IR25-SF18-060-4.5°	IR25	SF18	60	
T12ER25A220-18100	IR25-SF18-100-4.5°	IR25	SF18	100	
T12ER25A220-20060	IR25-SF20-060-4.5°	IR25	SF20	60	
T12ER25A220-20100	IR25-SF20-100-4.5°	IR25	SF20	100	

SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A240-25060	IR25-SF25-060-3°	IR25	SF25	60	
T12ER25A240-25100	IR25-SF25-100-3°	IR25	SF25	100	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A040A16051	IR25-EM5/8"-2.0"	IR25	EM5/8"	2.00"	
T12ER25A040A16102	IR25-EM5/8"-4.0"	IR25	EM5/8"	4.00"	
T12ER25A040A19051	IR25-EM3/4"-2.0"	IR25	EM3/4"	2.00"	
T12ER25A040A19102	IR25-EM3/4"-4.0"	IR25	EM3/4"	4.00"	

SHELL MILLING HOLDER INCH - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A120A19063	IR25-SM3/4"-2.5"	IR25	SM 3/4"	2.50"	
T12ER25A120A19102	IR25-SM3/4"-4"	IR25	SM 3/4"	4.00"	

SHELL MILLING HOLDER COOLANT SLOT INCH - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A130A19063	IR25-SM3/4"-2.5"J	IR25	SM 3/4"	2.50"	
T12ER25A130A19102	IR25-SM3/4"-4"J	IR25	SM 3/4"	4.00"	

SCREW-IN HOLDER INCH - 200

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A200A12112	IR25-M12-4.41"	IR25	M12	4.41"	
T12ER25A200A16112	IR25-M16-4.41"	IR25	M16	4.41"	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A220A19051	IR25-SF3/4"-2"-4.5°	IR25	SF3/4"	2.00"	
T12ER25A220A19102	IR25-SF3/4"-4"-4.5°	IR25	SF3/4"	4.00"	

SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A240A25051	IR25-SF1"-2"-3°	IR25	SF1"	2.00"	
T12ER25A240A25102	IR25-SF1"-4"-3°	IR25	SF1"	4.00"	

INDEX - IR32 EXTENSION

**BT - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00BT30926-32100A	BT30 IR32-100-EX	IR32	100	
T00BT40926-32100A	BT40 IR32-100-EX	IR32	100	
T00BT50926-32110A	BT50 IR32-110-EX	IR32	110	

**PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00BT30928-32100A	PBBT30 IR32-100-EX	IR32	100	
T00BT40928-32100A	PBBT40 IR32-100-EX	IR32	100	
T00BT50928-32110A	PBBT50 IR32-110-EX	IR32	110	

**PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00BT30929-32100A	PBT30 IR32-100-EX	IR32	100	
T00BT40929-32100A	PBT40 IR32-100-EX	IR32	100	
T00BT50929-32110A	PBT50 IR32-110-EX	IR32	110	

**CAT - I SYSTEM, IR EXTENSION BASE INCH**

Order Number	Part Name	Base	L inch	Qty
T00CA40926-32102A	CAT40 IR32-4"-EX	IR32	4.00"	
T00CA50926-32102A	CAT50 IR32-4"-EX	IR32	4.00"	

**PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE**

Order Number	Part Name	Base	L inch	Qty
T00CA40928-32102A	PBCAT40 IR32-4"-EX	IR32	4.00"	
T00CA50928-32102A	PBCAT50 IR32-4"-EX	IR32	4.00"	

**PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE**

Order Number	Part Name	Base	L inch	Qty
T00CA40929-32102A	PCAT40 IR32-4"-EX	IR32	4.00"	
T00CA50929-32102A	PCAT50 IR32-4"-EX	IR32	4.00"	

**HSK A - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HA50926-32110	HSK A50 IR32-110-EX	IR32	110	
T00HA63926-32110	HSK A63 IR32-110-EX	IR32	110	
T00HA80926-32110	HSK A80 IR32-110-EX	IR32	110	
T00HA10926-32110	HSK A100 IR32-110-EX	IR32	110	
T00HA12926-32110	HSK A125 IR32-110-EX	IR32	110	

**HSK E - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HE50926-32120	HSK E50 IR32-120-EX	IR32	120	
T00HE63926-32110	HSK E63 IR32-110-EX	IR32	110	

**HSK F - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00HF50926-32110	HSK F50 IR32-110-EX	IR32	110	
T00HF63926-32100	HSK F63 IR32-100-EX	IR32	100	
T00HF80926-32100	HSK F80 IR32-100-EX	IR32	100	

**SK - I SYSTEM, IR EXTENSION BASE METRIC**

Order Number	Part Name	Base	L mm	Qty
T00SK40926-32100A	SK40 IR32-100-EX	IR32	100	
T00SK50926-32100A	SK50 IR32-100-EX	IR32	100	

**PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00SK40928-20100A	PBSK40 IR20-100-EX	IR20	100	
T00SK50928-20100A	PBSK50 IR20-100-EX	IR20	100	

**PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE**

Order Number	Part Name	Base	L mm	Qty
T00SK40929-20100A	PSK40 IR20-100-EX	IR20	100	
T00SK50929-20100A	PSK50 IR20-100-EX	IR20	100	

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A926-16050	IR32-IR16-050-EX	IR32	IR16	50	
T12ER32A926-16100	IR32-IR16-100-EX	IR32	IR16	100	
T12ER32A926-20050	IR32-IR20-050-EX	IR32	IR20	50	
T12ER32A926-20100	IR32-IR20-100-EX	IR32	IR20	100	
T12ER32A926-25050	IR32-IR25-050-EX	IR32	IR25	50	
T12ER32A926-25100	IR32-IR25-100-EX	IR32	IR25	100	
T12ER32A926-25112	IR32-IR25-112-EX	IR32	IR25	112	
T12ER32A926-32100	IR32-IR32-100-EX	IR32	IR32	100	
T12ER32A926-32200	IR32-IR32-200-EX	IR32	IR32	200	

**ER COLLET CHUCK METRIC - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	100	
T12ER32A020-16112	IR32-ER16-112	IR32	ER16	112	
T12ER32A020-20100	IR32-ER20-100	IR32	ER20	100	
T12ER32A020-20112	IR32-ER20-112	IR32	ER20	112	
T12ER32A020-25100	IR32-ER25-100	IR32	ER25	100	
T12ER32A020-25112	IR32-ER25-112	IR32	ER25	112	
T12ER32A020-32060	IR32-ER32-060	IR32	ER32	60	
T12ER32A020-32100	IR32-ER32-100	IR32	ER32	100	
T12ER32A020-32112	IR32-ER32-112	IR32	ER32	112	

**END MILL HOLDER COOLANT SLOT METRIC - 030**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A030-16060	IR32-EM16-060J	IR32	EM16	60	
T12ER32A030-16100	IR32-EM16-100J	IR32	EM16	100	
T12ER32A030-20060	IR32-EM20-060J	IR32	EM20	60	
T12ER32A030-20100	IR32-EM20-100J	IR32	EM20	100	

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A926A32102	IR32-IR32-4"-EX	IR32	IR32	4.00"	
T12ER32A926A32127	IR32-IR32-5"-EX	IR32	IR32	5.00"	
T12ER32A926A32203	IR32-IR32-8"-EX	IR32	IR32	8.00"	

**ER COLLET CHUCK INCH - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A020A32051	IR32-ER32-2.0"	IR32	ER32	2.00"	
T12ER32A020A32102	IR32-ER32-4.0"	IR32	ER32	4.00"	

**END MILL HOLDER COOLANT SLOT INCH - 030**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A030A22051	IR32-EM7/8"-2.0"J	IR32	EM7/8"	2.00"	
T12ER32A030A22102	IR32-EM7/8"-4.0"J	IR32	EM7/8"	4.00"	



INDEX - IR32 EXTENSION

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A040-16060	IR32-EM16-060	IR32	EM16	60	
T12ER32A040-16100	IR32-EM16-100	IR32	EM16	100	
T12ER32A040-18060	IR32-EM18-060	IR32	EM18	60	
T12ER32A040-18100	IR32-EM18-100	IR32	EM18	100	
T12ER32A040-20060	IR32-EM20-060	IR32	EM20	60	
T12ER32A040-20100	IR32-EM20-100	IR32	EM20	100	

END MILL HOLDER WHISTLE METRIC - 050

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A050-16060	IR32-EM16-060W	IR32	EM16	60	
T12ER32A050-16100	IR32-EM16-100W	IR32	EM16	100	
T12ER32A050-18060	IR32-EM18-060W	IR32	EM18	60	
T12ER32A050-18100	IR32-EM18-100W	IR32	EM18	100	
T12ER32A050-20060	IR32-EM20-060W	IR32	EM20	60	
T12ER32A050-20100	IR32-EM20-100W	IR32	EM20	100	

SHELL MILLING HOLDER METRIC - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A120-22060	IR32-SM22-060	IR32	SM22	60	
T12ER32A120-22096	IR32-SM22-096	IR32	SM22	96	
T12ER32A120-22100	IR32-SM22-100	IR32	SM22	100	
T12ER32A120-27060	IR32-SM27-060	IR32	SM27	60	
T12ER32A120-27100	IR32-SM27-100	IR32	SM27	100	

SHELL MILLING HOLDER COOLANT SLOT METRIC - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A130-22060	IR32-SM22-060J	IR32	SM22	60	
T12ER32A130-22100	IR32-SM22-100J	IR32	SM22	100	
T12ER32A130-27060	IR32-SM27-060J	IR32	SM27	60	
T12ER32A130-27100	IR32-SM27-100J	IR32	SM27	100	

SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A220-25060	IR32-SF25-060-4.5°	IR32	SF25	60	
T12ER32A220-25100	IR32-SF25-100-4.5°	IR32	SF25	100	
T12ER32A220-32060	IR32-SF32-060-4.5°	IR32	SF32	60	
T12ER32A220-32100	IR32-SF32-100-4.5°	IR32	SF32	100	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A040A22051	IR32-EM7/8"-2.0"	IR32	EM7/8"	2.00"	
T12ER32A040A22102	IR32-EM7/8"-4.0"	IR32	EM7/8"	4.00"	

SHELL MILLING HOLDER INCH - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A120A25063	IR32-SM1"-2.5"	IR32	SM1"	2.50"	
T12ER32A120A25102	IR32-SM1"-4"	IR32	SM1"	4.00"	

SHELL MILLING HOLDER COOLANT SLOT INCH - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A130A25063	IR32-SM1"-2.5"J	IR32	SM1"	2.50"	
T12ER32A130A25102	IR32-SM1"-4"J	IR32	SM1"	4.00"	

SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A220A25051	IR32-SF1"-2"-4.5°	IR32	SF1"	2.00"	
T12ER32A220A25102	IR32-SF1"-4"-4.5°	IR32	SF1"	4.00"	
T12ER32A220A32051	IR32-SF1 1/4"-2"-4.5°	IR32	SF1 1/4"	2.00"	
T12ER32A220A32102	IR32-SF1 1/4"-4"-4.5°	IR32	SF1 1/4"	4.00"	

INDEX - IR40 EXTENSION

BT SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00BT40926-40100A	BT40 IR40-100-EX	IR40	100	
T00BT50926-40120A	BT50 IR40-120-EX	IR40	120	

PBBT- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30928-40100A	PBBT30 IR40-100-EX	IR40	100	
T00BT40928-40120A	PBBT40 IR40-120-EX	IR40	120	

PBT- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00BT30929-40100A	PBT30 IR40-100-EX	IR40	100	
T00BT40929-40120A	PBT40 IR40-120-EX	IR40	120	

HSK A SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HA63926-40120	HSK A63 IR40-120-EX	IR40	120	
T00HA80926-40120	HSK A80 IR40-120-EX	IR40	120	
T00HA10926-40120	HSK A100 IR40-120-EX	IR40	120	
T00HA10926-42120	HSK A100 IR42-120-EX	IR42	120	
T00HA12926-40120	HSK A125 IR40-120-EX	IR40	120	
T00HA12926-42120	HSK A125 IR42-120-EX	IR42	120	

HSK F SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00HF63926-40120	HSK F63 IR40-120-EX	IR40	120	
T00HF80926-40100	HSK F80 IR40-100-EX	IR40	100	

CAT SHANK I SYSTEM, IR EXTENSION BASE INCH

Order Number	Part Name	Base	L inch	Qty
T00CA40926-40120A	CAT40 IR40-4.72"-EX	IR40	4.72"	
T00CA50926-40105A	CAT50 IR40-4.13"-EX	IR40	4.13"	

PBCAT- IPE SYSTEM, IR EXTENSION BASE INCH BBT SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40928-40120A	PBCAT40 IR40-4.72"-EX	IR40	4.72"	
T00CA50928-40105A	PBCAT50 IR40-4.13"-EX	IR40	4.13"	

PCAT- IPE SYSTEM, IR EXTENSION BASE INCH STANDARD SPINDLE

Order Number	Part Name	Base	L inch	Qty
T00CA40929-40120A	PCAT40 IR40-4.72"-EX	IR40	4.72"	
T00CA50929-40105A	PCAT50 IR40-4.13"-EX	IR40	4.13"	

SK SHANK I SYSTEM, IR EXTENSION BASE METRIC

Order Number	Part Name	Base	L mm	Qty
T00SK40926-40120A	SK40 IR40-120-EX	IR40	120	
T00SK50926-40105A	SK50 IR40-105-EX	IR40	105	

PBSK- IPE SYSTEM, IR EXTENSION BASE METRIC BBT SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40928-40120A	PBSK40 IR40-120-EX	IR40	120	
T00SK50928-40105A	PBSK50 IR40-105-EX	IR40	105	

PSK- IPE SYSTEM, IR EXTENSION BASE METRIC STANDARD SPINDLE

Order Number	Part Name	Base	L mm	Qty
T00SK40929-40120A	PSK40 IR40-120-EX	IR40	120	
T00SK50929-40105A	PSK50 IR40-105-EX	IR40	105	

IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A926-25100	IR40-IR25-100-EX	IR40	IR25	100	
T12ER40A926-25112	IR40-IR25-112-EX	IR40	IR25	112	
T12ER40A926-32100	IR40-IR32-100-EX	IR40	IR32	100	
T12ER40A926-32112	IR40-IR32-112-EX	IR40	IR32	112	
T12ER40A926-40100	IR40-IR40-100-EX	IR40	IR40	100	
T12ER40A926-40112	IR40-IR40-112-EX	IR40	IR40	112	
T12ER40A926-41100	IR40-IR41-100-EX	IR40	IR41	100	
T12ER40A926-42100	IR40-IR42-100-EX	IR40	IR42	100	
T12ER41A926-41100	IR41-IR41-100-EX	IR41	IR41	100	
T12ER41A926-42100	IR41-IR42-100-EX	IR41	IR42	100	
T12ER42A926-42100	IR42-IR42-100-EX	IR42	IR42	100	

ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	100	
T12ER40A020-25112	IR40-ER25-112	IR40	ER25	112	
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	100	
T12ER40A020-32112	IR40-ER32-112	IR40	ER32	112	
T12ER40A020-40060	IR40-ER40-060	IR40	ER40	60	
T12ER40A020-40100	IR40-ER40-100	IR40	ER40	100	
T12ER40A020-40112	IR40-ER40-112	IR40	ER40	112	

END MILL HOLDER COOLANT SLOT METRIC - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A030-20100	IR40-EM20-100J	IR40	EM20	100	
T12ER40A030-25060	IR40-EM25-060J	IR40	EM25	60	
T12ER40A030-25100	IR40-EM25-100J	IR40	EM25	100	
T12ER41A030-32060	IR41-EM32-060J	IR41	EM32	60	
T12ER41A030-32100	IR41-EM32-100J	IR41	EM32	100	

IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A926A40102	IR40-IR40-4"-EX	IR40	IR40	4.00"	
T12ER40A926A40127	IR40-IR40-5"-EX	IR40	IR40	5.00"	
T12ER41A926A41102	IR41-IR41-4"-EX	IR41	IR41	4.00"	
T12ER41A926A42102	IR41-IR42-4"-EX	IR41	IR42	4.00"	

ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A020A40051	IR40-ER40-2.0"	IR40	ER40	2.00"	
T12ER40A020A40102	IR40-ER40-4.0"	IR40	ER40	4.00"	

END MILL HOLDER COOLANT SLOT INCH - 030

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A030A25051	IR40-EM1"-2.0"J	IR40	EM1"	2.00"	
T12ER40A030A25102	IR40-EM1"-4.0"J	IR40	EM1"	4.00"	
T12ER40A030A32051	IR40-EM1 1/4"-2.0"J	IR40	EM1 1/4"	2.00"	
T12ER40A030A32102	IR40-EM1 1/4"-4.0"J	IR40	EM1 1/4"	4.00"	

INDEX - IR40 EXTENSION

END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A040-20112	IR40-EM20-112	IR40	EM20	112	
T12ER40A040-25060	IR40-EM25-060	IR40	EM25	60	
T12ER40A040-25100	IR40-EM25-100	IR40	EM25	100	
T12ER40A040-25112	IR40-EM25-112	IR40	EM25	112	
T12ER41A040-32060	IR41-EM32-060	IR41	EM32	60	
T12ER41A040-32100	IR41-EM32-100	IR41	EM32	100	
T12ER41A040-40100	IR41-EM40-100	IR41	EM40	100	
T12ER42A040-50100	IR42-EM50-100	IR42	EM50	100	

END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A040A25051	IR40-EM1"-2.0"	IR40	EM1"	2.00"	
T12ER40A040A25102	IR40-EM1"-4.0"	IR40	EM1"	4.00"	
T12ER40A040A32051	IR40-EM1 1/4"-2.0"	IR40	EM1 1/4"	2.00"	
T12ER40A040A32102	IR40-EM1 1/4"-4.0"	IR40	EM1 1/4"	4.00"	
T12ER41A040A38102	IR41-EM1 1/2"-4.0"	IR41	EM1 1/2"	4.00"	
T12ER41A040A50102	IR41-EM2"-4.0"	IR41	EM2"	4.00"	

SHELL MILLING HOLDER METRIC - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A120-27060	IR40-SM27-060	IR40	SM27	60	
T12ER40A120-27100	IR40-SM27-100	IR40	SM27	100	
T12ER41A120-32060	IR41-SM32-060	IR41	SM32	60	
T12ER41A120-32100	IR41-SM32-100	IR41	SM32	100	
T12ER42A120-40060	IR42-SM40-060	IR42	SM40	60	
T12ER42A120-40100	IR42-SM40-100	IR42	SM40	100	
T12ER42A120-60060	IR42-SM60-060	IR42	SM60	60	
T12ER42A120-60100	IR42-SM60-100	IR42	SM60	100	

SHELL MILLING HOLDER INCH - 120

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER41A120A32063	IR41-SM1 1/4"-2.5"	IR41	SM1 1/4"	2.50"	
T12ER41A120A32102	IR41-SM1 1/4"-4"	IR41	SM1 1/4"	4.00"	
T12ER42A120A38063	IR42-SM1 1/2"-2.5"	IR42	SM1 1/2"	2.50"	
T12ER42A120A38102	IR42-SM1 1/2"-4"	IR42	SM1 1/2"	4.00"	
T12ER42A120A50063	IR42-SM2"-2.5"	IR42	SM2"	2.50"	
T12ER42A120A50102	IR42-SM2"-4"	IR42	SM2"	4.00"	

SHELL MILLING HOLDER COOLANT SLOT METRIC - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A130-27060	IR40-SM27-060J	IR40	SM27	60	
T12ER40A130-27100	IR40-SM27-100J	IR40	SM27	100	
T12ER41A130-32060	IR41-SM32-060J	IR41	SM32	60	
T12ER41A130-32100	IR41-SM32-100J	IR41	SM32	100	
T12ER42A130-40060	IR42-SM40-060J	IR42	SM40	60	
T12ER42A130-40100	IR42-SM40-100J	IR42	SM40	100	
T12ER42A130-60060	IR42-SM60-060J	IR42	SM60	60	
T12ER42A130-60100	IR42-SM60-100J	IR42	SM60	100	

SHELL MILLING HOLDER COOLANT SLOT INCH - 130

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER41A130A32063	IR41-SM1 1/4"-2.5"J	IR41	SM1 1/4"	2.50"	
T12ER41A130A32102	IR41-SM1 1/4"-4"J	IR41	SM1 1/4"	4.00"	
T12ER42A130A38063	IR42-SM1 1/2"-2.5"J	IR42	SM1 1/2"	2.50"	
T12ER42A130A38102	IR42-SM1 1/2"-4"J	IR42	SM1 1/2"	4.00"	
T12ER42A130A50063	IR42-SM2"-2.5"J	IR42	SM2"	2.50"	
T12ER42A130A50102	IR42-SM2"-4"J	IR42	SM2"	4.00"	

## TOOLING KIT - T90

### 8 pcs TOOLING KIT

- 5x ER COLLET CHUCKS
- 2x END MILL HOLDERS
- 1x SHELL MILL HOLDERS
- 8x RETENSION KNOBS or COOLANT TUBE (HSK)
- 1x ER16 WRENCH
- 1x ER32 WRENCH



### BT40 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
<b>T90-BT40-S01</b>	<b>BT40 8pcs KIT</b>			<b>8</b>
T00BT40020-16070A	BT40 ER16-070	ER16	70	2
T00BT40020-32070A	BT40 ER32-070	ER32	70	1
T00BT40020-32100A	BT40 ER32-100	ER32	100	2
T00BT40040-12063A	BT40 EM12-063	EM12	63	1
T00BT40040-20063A	BT40 EM20-063	EM20	63	1
T00BT40130-22040A	BT40 SM22-040J	SM22	40	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05BT40B45-G	BT40-45°-W-G,			8
T05BT40B60-G	BT40-60°-W-G,			8
T05BT40B90-G	BT40-90°-W-G,			8
T05BT40B45DMA-G	BT40-45°-W-G, Mazak			8
T05BT40B75-JIS-G	BT40-75°-W-BBT-G,			8
T05BT40B75DMO-G	BT40-75°-W-G, DMG MORI			8

### BT40 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
<b>T90-BT40-AS01</b>	<b>BT40 8pcs KIT</b>			<b>8</b>
T00BT40020A16070A	BT40 ER16-2.76"	ER16	2.76"	2
T00BT40020A32070A	BT40 ER32-2.76"	ER32	2.76"	1
T00BT40020A32102A	BT40 ER32-4"	ER32	4.00"	2
T00BT40040A12065A	BT40 EM1/2"-2.56"	EM1/2"	2.56"	1
T00BT40040A19065A	BT40 EM3/4"-2.56"	EM3/4"	2.56"	1
T00BT40130A25051A	BT40 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05BT40B45-G	BT40-45°-W-G			8
T05BT40B60-G	BT40-60°-W-G			8
T05BT40B90-G	BT40-90°-W-G			8
T05BT40B45DMA-G	BT40-45°-W-G, Mazak			8
T05BT40B75-JIS-G	BT40-75°-W-BBT-G,			8
T05BT40B75DMO-G	BT40-75°-W-G, DMG MORI			8

### SK40 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
<b>T90-SK40-S01</b>	<b>SK40 8pcs KIT</b>			<b>8</b>
T00SK40020-16070A	SK40 ER16-070	ER16	70	2
T00SK40020-32070A	SK40 ER32-070	ER32	70	1
T00SK40020-32100A	SK40 ER32-100	ER32	100	2
T00SK40040-12063A	SK40 EM12-063	EM12	63	1
T00SK40040-20063A	SK40 EM20-063	EM20	63	1
T00SK40130-22035A	SK40 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05SK40B45-G	SK40-45°-W-G,			8

### CAT40 8PCS TOOLING KIT INCH

Order Number	Part Name	Chuck	L inch	Qty
<b>T90-CA40-S01</b>	<b>CA40 8pcs KIT</b>			<b>8</b>
T00CA40020-16063A	CAT40 ER16-2.5"	ER16	2.50"	2
T00CA40020-32070A	CAT40 ER32-2.76"	ER32	2.76"	1
T00CA40020-32102A	CAT40 ER32-4"	ER32	4.00"	2
T00CA40040-12065A	CAT40 EM1/2"-2.56"	EM1/2"	2.56"	1
T00CA40040-19065A	CAT40 EM3/4"-2.56"	EM3/4"	2.56"	1
T00CA40130-25051A	CAT40 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05CA40B45-G	CAT40-45°-W-G			8
T05CA40B45-HA-G	CAT40-45°-W-G,Haas			8
T05CA40B45-MA-G	CAT40-45°-W-G,Mazak			8
T05CA40B75-MO-G	CAT40-75°-W-G,DMG MORI			8
T05CA40B75-MI-G	CAT40-75°-W-G,Makino			8

### HSK A63 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L mm	Qty
<b>T90-HA63-S01</b>	<b>HSK A63 8pcs KIT</b>			<b>8</b>
T00HA63020-16100A	HSK A63 ER16-100	ER16	100	2
T00HA63020-32080A	HSK A63 ER32-080	ER32	80	1
T00HA63020-32100A	HSK A63 ER32-100	ER32	100	2
T00HA63040-12080A	HSK A63 EM12-080	EM12	80	1
T00HA63040-20080A	HSK A63 EM20-080	EM20	80	1
T00HA63130-22050A	HSK A63 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>COOLANT TUBE</b>				<b>8</b>
T17HSKA63-01	HSK A63 coolant tube			8

### HSK A100 8PCS TOOLING KIT METRIC

Order Number	Part Name	Chuck	L inch	Qty
<b>T90-HA10-S01</b>	<b>HSK A100 8pcs KIT</b>			<b>8</b>
T00HA10020-16100A	HSK A100 ER16-100	ER16	100	2
T00HA10020-32100A	HSK A100 ER32-100	ER32	100	2
T00HA10040-12090A	HSK A100 EM12-090	EM12	90	2
T00HA10040-20100A	HSK A100 EM20-100	EM20	100	1
T00HA10130-22050A	HSK A100 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>COOLANT TUBE</b>				<b>8</b>
T17HSA100-01	HSK A100 coolant tube			8

## TOOLING KIT - T90

**8 pcs TOOLING KIT**

- 5x ER COLLET CHUCKS
- 2x END MILL HOLDERS
- 1x SHELL MILL HOLDERS
- 8x RETENSION KNOBS
- 1x ER16 WRENCH
- 1x ER32 WRENCH



**BT50 8PCS TOOLING KIT METRIC**

Order Number	Part Name	Chuck	L mm	Qty
<b>T90-BT50-S01</b>	<b>BT50 8pcs KIT</b>			<b>8</b>
T00BT50020-16100A	BT50 ER16-100	ER16	100	2
T00BT50020-32070A	BT50 ER32-070	ER32	70	1
T00BT50020-32100A	BT50 ER32-100	ER32	100	2
T00BT50040-12080A	BT50 EM12-080	EM12	80	1
T00BT50040-20080A	BT50 EM20-080	EM20	80	1
T00BT50130-22050A	BT50 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05BT50B45-G	BT50-45°-W-G			8
T05BT50B60-G	BT50-60°-W-G			8
T05BT50B90-G	BT50-90°-W-G			8
T05BT50B45DMA-G	BT50-45°-W-G, Mazak			8
T05BT50B75-JIS-G	BT50-75°-W-BBT-G			8
T05BT50B75DMO-G	BT50-75°-W-G, DMG MORI			8

**BT50 8PCS TOOLING KIT INCH**

Order Number	Part Name	Chuck	L inch	Qty
<b>T90-BT50-AS01</b>	<b>BT50 8pcs KIT</b>			<b>8</b>
T00BT50020A16070A	BT50 ER16-2.76"	ER16	2.76"	2
T00BT50020A32070A	BT50 ER32-2.76"	ER32	2.76"	1
T00BT50020A32102A	BT50 ER32-4"	ER32	4.00"	2
T00BT50040A12080A	BT50 EM1/2"-3.15"	EM1/2"	3.15"	1
T00BT50040A19080A	BT50 EM3/4"-3.15"	EM3/4"	3.15"	1
T00BT50130A25051A	BT50 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05BT50B45-G	BT50-45°-W-G			8
T05BT50B60-G	BT50-60°-W-G			8
T05BT50B90-G	BT50-90°-W-G			8
T05BT50B45DMA-G	BT50-45°-W-G, Mazak			8
T05BT50B75-JIS-G	BT50-75°-W-BBT-G			8
T05BT50B75DMO-G	BT50-75°-W-G, DMG MORI			8

**SK50 8PCS TOOLING KIT METRIC**

Order Number	Part Name	Chuck	L mm	Qty
<b>T90-SK50-S01</b>	<b>SK50 8pcs KIT</b>			<b>8</b>
T00SK50020-16100A	SK50 ER16-100	ER16	100	2
T00SK50020-32070A	SK50 ER32-070	ER32	70	1
T00SK50020-32100A	SK50 ER32-100	ER32	100	2
T00SK50040-12063A	SK50 EM12-063	EM12	63	1
T00SK50040-20063A	SK50 EM20-063	EM20	63	1
T00SK50130-22035A	SK50 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05SK50B45-G-S01	SK50-45°-W-G			8

**CAT50 8PCS TOOLING KIT INCH**

Order Number	Part Name	Chuck	L inch	Qty
<b>T90-CA50-S01</b>	<b>CA50 8pcs KIT</b>			<b>8</b>
T00CA50020-16100A	CAT50 ER16-4"	ER16	4.00"	2
T00CA50020-32070A	CAT50 ER32-2.76"	ER32	2.76"	1
T00CA50020-32102A	CAT50 ER32-4"	ER32	4.00"	2
T00CA50040-12075A	CAT50 EM1/2"-2.95"	EM1/2"	2.95"	1
T00CA50040-19076A	CAT50 EM3/4"-3"	EM3/4"	3.00"	1
T00CA50130-25051A	CAT50 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05CA50B45-G	CAT50-45°-W-G			8
T05CA50B45-HA-G	CAT50-45°-W-G,Haas			8
T05CA50B45-MA-G	CAT50-45°-W-G,Mazak			8
T05CA50B75-MO-G	CAT50-75°-W-G,DMG MORI			8
T05CA50B75-MI-G	CAT50-75°-W-G,Makino			8



DUAL FACE CONTACT

**STANDARD TOOL HOLDERS**

**TOOLING KIT - T90**

**TOOLING KIT**  
 PBBT40-PBCAT40-PBSK40  
 PBBT50-PBCAT50-PBSK50  
**E SYSTEM - BBT SPINDLE 8PCS**

**8 pcs TOOLING KIT**

- 5× ER COLLET CHUCKS
- 2× END MILL HOLDERS
- 1× SHELL MILL HOLDERS
- 8× RETENSION KNOBS or COOLANT TUBE
- 1× ER16 WRENCH
- 1× ER32 WRENCH



**PBBT40 8PCS TOOLING KIT METRIC**

Order Number	Part Name	Chuck	L mm	Qty
<b>T90-BT40-E01</b>	<b>PBBT40 8pcs KIT</b>			<b>8</b>
T00BT40022-16070A	PBBT40 ER16-070	ER16	70	2
T00BT40022-32070A	PBBT40 ER32-070	ER32	70	1
T00BT40022-32100A	PBBT40 ER32-100	ER32	100	2
T00BT40042-12063A	PBBT40 EM12-063	EM12	63	1
T00BT40042-20063A	PBBT40 EM20-063	EM20	63	1
T00BT40132-22040A	PBBT40 SM22-040J	SM22	40	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05BT40B45DMA-G	BT40-45°-W-G, Mazak			8
T05BT40B75-JIS-G	BT40-75°-W-BBT-G,			8
T05BT40B75DMO-G	BT40-75°-W-G, DMG MORI			8

**PBBT50 8PCS TOOLING KIT METRIC**

Order Number	Part Name	Chuck	L mm	Qty
<b>T90-BT50-E01</b>	<b>PBBT50 8pcs KIT</b>			<b>8</b>
T00BT50022-16100A	PBBT50 ER16-100	ER16	100	2
T00BT50022-32070A	PBBT50 ER32-070	ER32	70	1
T00BT50022-32100A	PBBT50 ER32-100	ER32	100	2
T00BT50042-12080A	PBBT50 EM12-080	EM12	80	1
T00BT50042-20080A	PBBT50 EM20-080	EM20	80	1
T00BT50132-22050A	PBBT50 SM22-050J	SM22	50	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05BT50B45DMA-G	BT50-45°-W-G, Mazak			8
T05BT50B75-JIS-G	BT50-75°-W-BBT-G			8
T05BT50B75DMO-G	BT50-75°-W-G, DMG MORI			8

**PBT40 8PCS TOOLING KIT METRIC**

Order Number	Part Name	Chuck	L mm	Qty
<b>T90-BT40-E02</b>	<b>PBT40 8pcs KIT</b>			<b>8</b>
T00BT40021-16070A	PBT40 ER16-070	ER16	70	2
T00BT40021-32070A	PBT40 ER32-070	ER32	70	1
T00BT40021-32100A	PBT40 ER32-100	ER32	100	2
T00BT40041-12063A	PBT40 EM12-063	EM12	63	1
T00BT40041-20063A	PBT40 EM20-063	EM20	63	1
T00BT40131-22040A	PBT40 SM22-040J	SM22	40	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05BT40B45DMA-G	BT40-45°-W-G, Mazak			8
T05BT40B75-JIS-G	BT40-75°-W-BBT-G,			8
T05BT40B75DMO-G	BT40-75°-W-G, DMG MORI			8

**PBCAT40 8PCS TOOLING KIT INCH**

Order Number	Part Name	Chuck	L mm	Qty
<b>T90-CA40-E01</b>	<b>PBCAT40 8pcs KIT</b>			<b>8</b>
T00CA40022-16063A	PBCAT40 ER16-2.5"	ER16	2.50"	2
T00CA40022-32070A	PBCAT40 ER32-2.76"	ER32	2.76"	1
T00CA40022-32102A	PBCAT40 ER32-4"	ER32	4.00"	2
T00CA40042-12065A	PBCAT40 EM1/2"-2.56"	EM1/2"	2.56"	1
T00CA40042-19065A	PBCAT40 EM3/4"-2.56"	EM3/4"	2.56"	1
T00CA40132-25051A	PBCAT40 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05CA40B45-G	CAT40-45°-W-G			8
T05CA40B45-HA-G	CAT40-45°-W-G,Haas			8
T05CA40B45-MA-G	CAT40-45°-W-G,Mazak			8
T05CA40B75-MO-G	CAT40-75°-W-G,DMG MORI			8
T05CA40B75-MI-G	CAT40-75°-W-G,Makino			8

**PBCAT50 8PCS TOOLING KIT INCH**

Order Number	Part Name	Chuck	L inch	Qty
<b>T90-CA50-E01</b>	<b>PBCAT50 8pcs KIT</b>			<b>8</b>
T00CA50022-16100A	PBCAT50 ER16-4"	ER16	4.00"	2
T00CA50022-32070A	PBCAT50 ER32-2.76"	ER32	2.76"	1
T00CA50022-32102A	PBCAT50 ER32-4"	ER32	4.00"	2
T00CA50042-12075A	PBCAT50 EM1/2"-2.95"	EM1/2"	2.95"	1
T00CA50042-19076A	PBCAT50 EM3/4"-3"	EM3/4"	3.00"	1
T00CA50132-25051A	PBCAT50 SM1"-2"J	SM1"	2.00"	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05CA50B45-G	CAT50-45°-W-G			8
T05CA50B45-HA-G	CAT50-45°-W-G,Haas			8
T05CA50B45-MA-G	CAT50-45°-W-G,Mazak			8
T05CA50B75-MO-G	CAT50-75°-W-G,DMG MORI			8
T05CA50B75-MI-G	CAT50-75°-W-G,Makino			8

**PBSK40 8PCS TOOLING KIT METRIC**

Order Number	Part Name	Chuck	L mm	Qty
<b>T90-SK40-E01</b>	<b>PBSK40 8pcs KIT</b>			<b>8</b>
T00SK40022-16070A	PBSK40 ER16-070	ER16	70	2
T00SK40022-32070A	PBSK40 ER32-070	ER32	70	1
T00SK40022-32100A	PBSK40 ER32-100	ER32	100	2
T00SK40042-12063A	PBSK40 EM12-063	EM12	63	1
T00SK40042-20063A	PBSK40 EM20-063	EM20	63	1
T00SK40132-22035A	PBSK40 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05SK40B45-G	SK40-45°-W-G,			8

**PBSK50 8PCS TOOLING KIT METRIC**

Order Number	Part Name	Chuck	L inch	Qty
<b>T90-SK50-E01</b>	<b>PBSK50 8pcs KIT</b>			<b>8</b>
T00SK50022-16100A	PBSK50 ER16-100	ER16	100	2
T00SK50022-32070A	PBSK50 ER32-070	ER32	70	1
T00SK50022-32100A	PBSK50 ER32-100	ER32	100	2
T00SK50042-12063A	PBSK50 EM12-063	EM12	63	1
T00SK50042-20063A	PBSK50 EM20-063	EM20	63	1
T00SK50132-22035A	PBSK50 SM22-035J	SM22	35	1
T07ER1601	ER16 HEX WRENCH			1
T07ER3202	ER32 WRENCH			1
<b>Retention Knobs</b>				<b>8</b>
T05SK50B45-G-S01	SK50-45°-W-G			8



# I SYSTEM KIT

**TOOLING KIT - T90**

**ORDER No T90-XXXX-IR08-01**

- 1x SHANK IR EXTENSION BASE
- 2x IR EXTENSION BASE
- 2x ER COLLET CHUCK **MINI** EXTENSION
- 6x SHRINK-FIT 3° SLIM HOLDER EXTENSION



**I SYSTEM IR08 TOOLING KIT - IR08 BASE METRIC**

Order Number	SHANK	Qty
T90-BT30-IR08-01	BT30	
T90-BT40-IR08-01	BT40	
T90-BT50-IR08-01	BT50	
T90-SK40-IR08-01	SK40	
T90-SK50-IR08-01	SK50	
T90-HA63-IR08-01	HSK A63	
T90-HA10-IR08-01	HSK A100	

**I SYSTEM IR08 TOOLING KIT - IR08 BASE INCH**

Order Number	SHANK	Qty
T90-BT30-IR08A01	BT30	
T90-BT40-IR08A01	BT40	
T90-BT50-IR08A01	BT50	
T90-CA40-IR08-01	CAT40	
T90-CA50-IR08-01	CAT50	
T90-HA63-IR08A01	HSK A63	
T90-HA10-IR08A01	HSK A100	

**IPE SYSTEM IR08 TOOLING KIT - IR08 BASE METRIC**

Order Number	SHANK	Qty
T90-PBBT30-IR08-01	PBBT30	
T90-PBBT40-IR08-01	PBBT40	
T90-PBBT50-IR08-01	PBBT50	
T90-PBSK40-IR08-01	PBSK40	
T90-PBSK50-IR08-01	PBSK50	

**IPE SYSTEM IR08 TOOLING KIT - IR08 BASE INCH**

Order Number	SHANK	Qty
T90-PBBT30-IR08A01	PBBT30	
T90-PBBT40-IR08A01	PBBT40	
T90-PBBT50-IR08A01	PBBT50	
T90-PBCA40-IR08-01	PBCAT40	
T90-PBCA50-IR08-01	PBCAT50	

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A926-08050	IR08-IR08-050-EX	IR08	IR08	50	1
T12ER08A926-08100	IR08-IR08-100-EX	IR08	IR08	100	1

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A926A08051	IR08-IR08-2"-EX	IR08	IR08	2.00"	1
T12ER08A926A08102	IR08-IR08-4"-EX	IR08	IR08	4.00"	1

**ER COLLET CHUCK MINI NUT METRIC - M20**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08AM20-08060	IR08-ER08-060M	IR08	ER08M	60	1
T12ER08AM20-08100	IR08-ER08-100M	IR08	ER08M	100	1

**ER COLLET CHUCK MINI NUT INCH - M20**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08AM20A08051	IR08-ER08-2.0"M	IR08	ER08M	2.00"	1
T12ER08AM20A08102	IR08-ER08-4.0"M	IR08	ER08M	4.00"	1

**SHRINK - FIT HOLODER 3° SLIM METRIC - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER08A250-03060	IR08-SF03-060-3° slim	IR08	SF03	60	1
T12ER08A250-03100	IR08-SF03-100-3° slim	IR08	SF03	100	1
T12ER08A250-05060	IR08-SF05-060-3° slim	IR08	SF05	60	1
T12ER08A250-05100	IR08-SF05-100-3° slim	IR08	SF05	100	1
T12ER08A250-06060	IR08-SF06-060-3° slim	IR08	SF06	60	1
T12ER08A250-06100	IR08-SF06-100-3° slim	IR08	SF06	100	1

**SHRINK - FIT HOLODER 3° SLIM INCH - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER08A250A03060	IR08-SF1/8"-2.36"-3° slim	IR08	SF1/8"	2.36"	1
T12ER08A250A03102	IR08-SF1/8"-4"-3° slim	IR08	SF1/8"	4.00"	1
T12ER08A250A05060	IR08-SF3/16"-2.36"-3° slim	IR08	SF3/16"	2.36"	1
T12ER08A250A05102	IR08-SF3/16"-4"-3° slim	IR08	SF3/16"	4.00"	1
T12ER08A250A06060	IR08-SF1/4"-2.36"-3° slim	IR08	SF1/4"	2.36"	1
T12ER08A250A06102	IR08-SF1/4"-4"-3° slim	IR08	SF1/4"	4.00"	1



**TOOLING KIT - T90**

**ORDER No T90-XXXX-IR8S-01**

- 1x SHANK IR EXTENSION BASE
- 2x IR EXTENSION BASE
- 4x ER COLLET CHUCK MINI EXTENSION
- 1x SHRINK-FIT 4.5° HOLDER EXTENSION
- 4x SHRINK-FIT 3° HOLDER EXTENSION
- 6x SHRINK-FIT 3° SLIM HOLDER EXTENSION



**I SYSTEM IR8S TOOLING KIT - IR8S BASE METRIC**

Order Number	SHANK	Qty
T90-BT30-IR8S-01	BT30	
T90-BT40-IR8S-01	BT40	
T90-BT50-IR8S-01	BT50	
T90-SK40-IR8S-01	SK40	
T90-SK50-IR8S-01	SK50	
T90-HA63-IR8S-01	HSK A63	
T90-HA10-IR8S-01	HSK A100	

**I SYSTEM IR8S TOOLING KIT - IR8S BASE INCH**

Order Number	SHANK	Qty
T90-BT30-IR8SA01	BT30	
T90-BT40-IR8SA01	BT40	
T90-BT50-IR8SA01	BT50	
T90-CA40-IR8S-01	CAT40	
T90-CA50-IR8S-01	CAT50	
T90-HA63-IR8SA01	HSK A63	
T90-HA10-IR8SA01	HSK A100	

**IPE SYSTEM IR8S TOOLING KIT - IR8S BASE METRIC**

Order Number	SHANK	Qty
T90-PBBT30-IR8S-01	PBBT30	
T90-PBBT40-IR8S-01	PBBT40	
T90-PBBT50-IR8S-01	PBBT50	
T90-PBSK40-IR8S-01	PBSK40	
T90-PBSK50-IR8S-01	PBSK50	

**IPE SYSTEM IR8S TOOLING KIT - IR8S BASE INCH**

Order Number	SHANK	Qty
T90-PBBT30-IR8SA01	PBBT30	
T90-PBBT40-IR8SA01	PBBT40	
T90-PBBT50-IR8SA01	PBBT50	
T90-PBCA40-IR8S-01	PBCAT40	
T90-PBCA50-IR8S-01	PBCAT50	

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	50	1
T12ER8SA926-8S100	IR8S-IR8S-100-EX	IR8S	IR8S	100	1

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA926-8S050	IR8S-IR8S-050-EX	IR8S	IR8S	1.97"	1
T12ER8SA926A8S102	IR8S-IR8S-4"-EX	IR8S	IR8S	4.00"	1

**ER COLLET CHUCK MINI NUT METRIC - M20**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SAM20-08060	IR8S-ER08-060M	IR8S	ER08M	60	1
T12ER8SAM20-08100	IR8S-ER08-100M	IR8S	ER08M	100	1
T12ER8SAM20-11060	IR8S-ER11-060M	IR8S	ER11M	60	1
T12ER8SAM20-11100	IR8S-ER11-100M	IR8S	ER11M	100	1

**ER COLLET CHUCK MINI NUT INCH - M20**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SAM20A08051	IR8S-ER8-2.0"M	IR8S	ER08M	2.00"	1
T12ER8SAM20A08102	IR8S-ER8-4.0"M	IR8S	ER08M	4.00"	1
T12ER8SAM20A11051	IR8S-ER11-2.0"M	IR8S	ER11M	2.00"	1
T12ER8SAM20A11102	IR8S-ER11-4.0"M	IR8S	ER11M	4.00"	1

**SHRINK - FIT HOLODER 4.5° METRIC - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA220-03060	IR8S-SF03-060-4.5°	IR8S	SF03	60	1

**SHRINK - FIT HOLODER 4.5° INCH - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA220A03051	IR8S-SF1/8"-2"-4.5°	IR8S	SF1/8"	2.00"	1

**SHRINK - FIT HOLODER 3° METRIC - 240**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA240-03100	IR8S-SF03-100-3°	IR8S	SF03	100	1
T12ER8SA240-05060	IR8S-SF05-060-3°	IR8S	SF05	60	1
T12ER8SA240-05100	IR8S-SF05-100-3°	IR8S	SF05	100	1
T12ER8SA240-06060	IR8S-SF06-060-3°	IR8S	SF06	60	1

**SHRINK - FIT HOLODER 3° INCH - 240**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA240A03102	IR8S-SF1/8"-4"-3°	IR8S	SF1/8"	4.00"	1
T12ER8SA240A05051	IR8S-SF3/16"-2"-3°	IR8S	SF3/16"	2.00"	1
T12ER8SA240A05102	IR8S-SF3/16"-4"-3°	IR8S	SF3/16"	4.00"	1
T12ER8SA240A06051	IR8S-SF1/4"-2"-3°	IR8S	SF1/4"	2.00"	1

**SHRINK - FIT HOLODER 3° SLIM METRIC - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER8SA250-03100	IR8S-SF03-100-3° slim	IR8S	SF03	100	1
T12ER8SA250-04100	IR8S-SF04-100-3° slim	IR8S	SF04	100	1
T12ER8SA250-05100	IR8S-SF05-100-3° slim	IR8S	SF05	100	1
T12ER8SA250-06100	IR8S-SF06-100-3° slim	IR8S	SF06	100	1
T12ER8SA250-08060	IR8S-SF08-060-3° slim	IR8S	SF08	60	1
T12ER8SA250-10060	IR8S-SF10-060-3° slim	IR8S	SF10	60	1

**SHRINK - FIT HOLODER 3° SLIM INCH - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER8SA250A03102	IR8S-SF1/8"-4"-3° slim	IR8S	SF1/8"	4.00"	1
T12ER8SA250A05060	IR8S-SF3/16"-2.36"-3° slim	IR8S	SF3/16"	2.36"	1
T12ER8SA250A05102	IR8S-SF3/16"-4"-3° slim	IR8S	SF3/16"	4.00"	1
T12ER8SA250A06102	IR8S-SF1/4"-4"-3° slim	IR8S	SF1/4"	4.00"	1
T12ER8SA250A08060	IR8S-SF5/16"-2.36"-3° slim	IR8S	SF5/16"	2.36"	1
T12ER8SA250A09060	IR8S-SF3/8"-2.36"-3° slim	IR8S	SF3/8"	2.36"	1

## TOOLING KIT - T90

**ORDER No T90-XXXX-IR11-01**

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 4x ER COLLET CHUCK **MINI** EXTENSION
- 2x ER COLLET CHUCK EXTENSION
- 2x SHRINK-FIT 4.5° HOLDER EXTENSION
- 4x SHRINK-FIT 3° HOLDER EXTENSION



### I SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR11-01	BT30	
T90-BT40-IR11-01	BT40	
T90-BT50-IR11-01	BT50	
T90-SK40-IR11-01	SK40	
T90-SK50-IR11-01	SK50	
T90-HA63-IR11-01	HSK A63	
T90-HA10-IR11-01	HSK A100	

### I SYSTEM IR11 TOOLING KIT - IR11 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR11A01	BT30	
T90-BT40-IR11A01	BT40	
T90-BT50-IR11A01	BT50	
T90-CA40-IR11-01	CAT40	
T90-CA50-IR11-01	CAT50	
T90-HA63-IR11A01	HSK A63	
T90-HA10-IR11A01	HSK A100	

### IPE SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR11-01	PBBT30	
T90-PBBT40-IR11-01	PBBT40	
T90-PBBT50-IR11-01	PBBT50	
T90-PBSK40-IR11-01	PBSK40	
T90-PBSK50-IR11-01	PBSK50	

### IPE SYSTEM IR11 TOOLING KIT - IR11 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR11A01	PBBT30	
T90-PBBT40-IR11A01	PBBT40	
T90-PBBT50-IR11A01	PBBT50	
T90-PBCA40-IR11-01	PBCAT40	
T90-PBCA50-IR11-01	PBCAT50	

### IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	1

### IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A926A11102	IR11-IR11-4"-EX	IR11	IR11	4.00"	1

### ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11AM20-08060	IR11-ER08-060M	IR11	ER08M	60	1
T12ER11AM20-08100	IR11-ER08-100M	IR11	ER08M	100	1
T12ER11AM20-11060	IR11-ER11-060M	IR11	ER11M	60	1
T12ER11AM20-11100	IR11-ER11-100M	IR11	ER11M	100	1

### ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11AM20A08051	IR11-ER08-2.0"M	IR11	ER08M	2.00"	1
T12ER11AM20A08102	IR11-ER08-4.0"M	IR11	ER08M	4.00"	1
T12ER11AM20A11051	IR11-ER11-2.0"M	IR11	ER11M	2.00"	1
T12ER11AM20A11102	IR11-ER11-4.0"M	IR11	ER11M	4.00"	1

### ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	1
T12ER11A020-11100	IR11-ER11-100	IR11	ER11	100	1

### ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A020A11051	IR11-ER11-2.0"	IR11	ER11	2.00"	1
T12ER11A020A11102	IR11-ER11-4.0"	IR11	ER11	4.00"	1

### SHRINK - FIT HOLODER 4.5° METRIC - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A220-03060	IR11-SF03-060-4.5°	IR11	SF03	60	1
T12ER11A220-05060	IR11-SF05-060-4.5°	IR11	SF05	60	1

### SHRINK - FIT HOLODER 4.5° INCH - 220

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A220A03051	IR11-SF1/8"-2"-4.5°	IR11	SF1/8"	2.00"	1
T12ER11A220A05051	IR11-SF3/16"-2"-4.5°	IR11	SF3/16"	2.00"	1

### SHRINK - FIT HOLODER 3° METRIC - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	1
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	1
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	1
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	1

### SHRINK - FIT HOLODER 3° INCH - 240

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A240A03102	IR11-SF1/8"-4"-3°	IR11	SF1/8"	4.00"	1
T12ER11A240A05102	IR11-SF3/16"-4"-3°	IR11	SF3/16"	4.00"	1
T12ER11A240A06102	IR11-SF1/4"-4"-3°	IR11	SF1/4"	4.00"	1
T12ER11A240A09051	IR11-SF3/8"-2"-3°	IR11	SF3/8"	2.00"	1

**TOOLING KIT - T90**

**ORDER No T90-XXXX-IR11-02**

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 1x ER COLLET CHUCK EXTENSION
- 4x SHRINK-FIT 4.5° HOLDER EXTENSION
- 5x SHRINK-FIT 3° HOLDER EXTENSION
- 2x SHRINK-FIT 3° SLIM HOLDER EXTENSION



**I SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC**

Order Number	SHANK	Qty
T90-BT30-IR11-02	BT30	
T90-BT40-IR11-02	BT40	
T90-BT50-IR11-02	BT50	
T90-SK40-IR11-02	SK40	
T90-SK50-IR11-02	SK50	
T90-HA63-IR11-02	HSK A63	
T90-HA10-IR11-02	HSK A100	

**I SYSTEM IR11 TOOLING KIT - IR11 BASE INCH**

Order Number	SHANK	Qty
T90-BT30-IR11A02	BT30	
T90-BT40-IR11A02	BT40	
T90-BT50-IR11A02	BT50	
T90-CA40-IR11-02	CAT40	
T90-CA50-IR11-02	CAT50	
T90-HA63-IR11A02	HSK A63	
T90-HA10-IR11A02	HSK A100	

**IPE SYSTEM IR11 TOOLING KIT - IR11 BASE METRIC**

Order Number	SHANK	Qty
T90-PBBT30-IR11-02	PBBT30	
T90-PBBT40-IR11-02	PBBT40	
T90-PBBT50-IR11-02	PBBT50	
T90-PBSK40-IR11-02	PBSK40	
T90-PBSK50-IR11-02	PBSK50	

**IPE SYSTEM IR11 TOOLING KIT - IR11 BASE INCH**

Order Number	SHANK	Qty
T90-PBBT30-IR11A02	PBBT30	
T90-PBBT40-IR11A02	PBBT40	
T90-PBBT50-IR11A02	PBBT50	
T90-PBCA40-IR11-02	PBCAT40	
T90-PBCA50-IR11-02	PBCAT50	

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A926-11100	IR11-IR11-100-EX	IR11	IR11	100	1

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A926A11102	IR11-IR11-4"-EX	IR11	IR11	4.00"	1

**ER COLLET CHUCK METRIC - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A020-11060	IR11-ER11-060	IR11	ER11	60	1

**ER COLLET CHUCK INCH - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A020A11051	IR11-ER11-2.0"	IR11	ER11	2.00"	1

**SHRINK - FIT HOLODER 4.5° METRIC - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A220-03060	IR11-SF03-060-4.5°	IR11	SF03	60	1
T12ER11A220-03100	IR11-SF03-100-4.5°	IR11	SF03	100	1
T12ER11A220-05060	IR11-SF05-060-4.5°	IR11	SF05	60	1
T12ER11A220-05100	IR11-SF05-100-4.5°	IR11	SF05	100	1

**SHRINK - FIT HOLODER 4.5° INCH - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A220A03051	IR11-SF1/8"-2"-4.5°	IR11	SF1/8"	2.00"	1
T12ER11A220A03102	IR11-SF1/8"-4"-4.5°	IR11	SF1/8"	4.00"	1
T12ER11A220A05051	IR11-SF3/16"-2"-4.5°	IR11	SF3/16"	2.00"	1
T12ER11A220A05102	IR11-SF3/16"-4"-4.5°	IR11	SF3/16"	4.00"	1

**SHRINK - FIT HOLODER 3° METRIC - 240**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A240-03100	IR11-SF03-100-3°	IR11	SF03	100	1
T12ER11A240-05100	IR11-SF05-100-3°	IR11	SF05	100	1
T12ER11A240-06100	IR11-SF06-100-3°	IR11	SF06	100	1
T12ER11A240-08060	IR11-SF08-060-3°	IR11	SF08	60	1
T12ER11A240-10060	IR11-SF10-060-3°	IR11	SF10	60	1

**SHRINK - FIT HOLODER 3° INCH - 240**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A240A03102	IR11-SF1/8"-4"-3°	IR11	SF1/8"	4.00"	1
T12ER11A240A05102	IR11-SF3/16"-4"-3°	IR11	SF3/16"	4.00"	1
T12ER11A240A06102	IR11-SF1/4"-4"-3°	IR11	SF1/4"	4.00"	1
T12ER11A240A08051	IR11-SF5/16"-2"-3°	IR11	SF5/16"	2.00"	1
T12ER11A240A09051	IR11-SF3/8"-2"-3°	IR11	SF3/8"	2.00"	1

**SHRINK - FIT HOLODER 3° SLIM METRIC - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER11A250-08060	IR11-SF08-060-3° slim	IR11	SF08	60	1
T12ER11A250-12100	IR11-SF12-100-3° slim	IR11	SF12	100	1

**SHRINK - FIT HOLODER 3° SLIM INCH - 250**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER11A250A09051	IR11-SF3/8"-2"-3° slim	IR11	SF3/8"	2.00"	1
T12ER11A250A12100	IR11-SF1/2"-4"-3° slim	IR11	SF1/2"	4.00"	1

## TOOLING KIT - T90

**ORDER No T90-XXXX-IR16-01**

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 1x ER COLLET CHUCK **MINI** EXTENSION
- 3x ER COLLET CHUCK EXTENSION
- 1x END MILL HOLDER EXTENSION



### I SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC

Order Number	SHANK	Qty
T90-BT30-IR16-01	BT30	
T90-BT40-IR16-01	BT40	
T90-BT50-IR16-01	BT50	
T90-SK40-IR16-01	SK40	
T90-SK50-IR16-01	SK50	
T90-HA63-IR16-01	HSK A63	
T90-HA10-IR16-01	HSK A100	

### I SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-BT30-IR16A01	BT30	
T90-BT40-IR16A01	BT40	
T90-BT50-IR16A01	BT50	
T90-CA40-IR16-01	CAT40	
T90-CA50-IR16-01	CAT50	
T90-HA63-IR16A01	HSK A63	
T90-HA10-IR16A01	HSK A100	

### IPE SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC

Order Number	SHANK	Qty
T90-PBBT30-IR16-01	PBBT30	
T90-PBBT40-IR16-01	PBBT40	
T90-PBBT50-IR16-01	PBBT50	
T90-PBSK40-IR16-01	PBSK40	
T90-PBSK50-IR16-01	PBSK50	

### IPE SYSTEM IR16 TOOLING KIT - IR16 BASE INCH

Order Number	SHANK	Qty
T90-PBBT30-IR16A01	PBBT30	
T90-PBBT40-IR16A01	PBBT40	
T90-PBBT50-IR16A01	PBBT50	
T90-PBCA40-IR16-01	PBCAT40	
T90-PBCA50-IR16-01	PBCAT50	

### IR EXTENSION BASE METRIC - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	1

### IR EXTENSION BASE INCH - 926

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A926A16102	IR16-IR16-4"-EX	IR16	IR16	4.00"	1

### ER COLLET CHUCK MINI NUT METRIC - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16AM20-16100	IR16-ER16-100M	IR16	ER16M	100	1

### ER COLLET CHUCK MINI NUT INCH - M20

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16AM20A16102	IR16-ER16-4.0"M	IR16	ER16M	4.00"	1

### ER COLLET CHUCK METRIC - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A020-11100	IR16-ER11-100	IR16	ER11	100	1
T12ER16A020-16060	IR16-ER16-060	IR16	ER16	60	1
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	1

### ER COLLET CHUCK INCH - 020

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A020A11102	IR16-ER11-4.0"	IR16	ER11	4.00"	1
T12ER16A020A16051	IR16-ER16-2.0"	IR16	ER16	2.00"	1
T12ER16A020A16102	IR16-ER16-4.0"	IR16	ER16	4.00"	1

### END MILL HOLDER METRIC - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A040-08060	IR16-EM08-060	IR16	EM08	60	1

### END MILL HOLDER INCH - 040

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A040A09051	IR16-EM3/8"-2.0"	IR16	EM3/8"	2.00"	1

**TOOLING KIT - T90**

**ORDER No T90-XXXX-IR16-2**

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 1x ER COLLET CHUCK EXTENSION
- 3x SHRINK-FIT 4.5° HOLDER EXTENSION
- 1x SHRINK-FIT 3° HOLDER EXTENSION



**I SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC**

Order Number	SHANK	Qty
T90-BT30-IR16-02	BT30	
T90-BT40-IR16-02	BT40	
T90-BT50-IR16-02	BT50	
T90-SK40-IR16-02	SK40	
T90-SK50-IR16-02	SK50	
T90-HA63-IR16-02	HSK A63	
T90-HA10-IR16-02	HSK A100	

**I SYSTEM IR16 TOOLING KIT - IR16 BASE INCH**

Order Number	SHANK	Qty
T90-BT30-IR16A02	BT30	
T90-BT40-IR16A02	BT40	
T90-BT50-IR16A02	BT50	
T90-CA40-IR16-02	CAT40	
T90-CA50-IR16-02	CAT50	
T90-HA63-IR16A02	HSK A63	
T90-HA10-IR16A02	HSK A100	

**IPE SYSTEM IR16 TOOLING KIT - IR16 BASE METRIC**

Order Number	SHANK	Qty
T90-PBBT30-IR16-02	PBBT30	
T90-PBBT40-IR16-02	PBBT40	
T90-PBBT50-IR16-02	PBBT50	
T90-PBSK40-IR16-02	PBSK40	
T90-PBSK50-IR16-02	PBSK50	

**IPE SYSTEM IR16 TOOLING KIT - IR16 BASE INCH**

Order Number	SHANK	Qty
T90-PBBT30-IR16A02	PBBT30	
T90-PBBT40-IR16A02	PBBT40	
T90-PBBT50-IR16A02	PBBT50	
T90-PBCA40-IR16-02	PBCAT40	
T90-PBCA50-IR16-02	PBCAT50	

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A926-16100	IR16-IR16-100-EX	IR16	IR16	100	1

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A926A16102	IR16-IR16-4"-EX	IR16	IR16	4.00"	1

**ER COLLET CHUCK METRIC - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A020-16100	IR16-ER16-100	IR16	ER16	100	1

**ER COLLET CHUCK INCH - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A020A16102	IR16-ER16-4.0"	IR16	ER16	4.00"	1

**SHRINK - FIT HOLODER 4.5° METRIC - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A220-06060	IR16-SF06-060-4.5°	IR16	SF06	60	1
T12ER16A220-10060	IR16-SF10-060-4.5°	IR16	SF10	60	1
T12ER16A220-12100	IR16-SF12-100-4.5°	IR16	SF12	100	1

**SHRINK - FIT HOLODER 4.5° INCH - 220**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A220A06051	IR16-SF1/4"-2"-4.5°	IR16	SF1/4"	2.00"	1
T12ER16A220A09051	IR16-SF3/8"-2"-4.5°	IR16	SF3/8"	2.00"	1
T12ER16A220A12102	IR16-SF1/2"-4"-4.5°	IR16	SF1/2"	4.00"	1

**SHRINK - FIT HOLODER 3° METRIC - 240**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER16A240-12100	IR16-SF12-100-3°	IR16	SF12	100	1

**SHRINK - FIT HOLODER 3° INCH - 240**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER16A240A12102	IR16-SF1/2"-4"-3°	IR16	SF1/2"	4.00"	1

**TOOLING KIT - T90**

**ORDER No T90-XXXX-IR20-01**

- 1x SHANK IR EXTENSION BASE**
- 1x IR EXTENSION BASE**
- 3x ER COLLET CHUCK EXTENSION**
- 1x END MILL HOLDER EXTENSION**
- 1x SCREW-IN HOLDER EXTENSION**



**I SYSTEM IR20 TOOLING KIT - IR20 BASE METRIC**

Order Number	SHANK	Qty
T90-BT30-IR20-01	BT30	
T90-BT40-IR20-01	BT40	
T90-BT50-IR20-01	BT50	
T90-SK40-IR20-01	SK40	
T90-SK50-IR20-01	SK50	
T90-HA63-IR20-01	HSK A63	
T90-HA10-IR20-01	HSK A100	

**I SYSTEM IR20 TOOLING KIT - IR20 BASE INCH**

Order Number	SHANK	Qty
T90-BT30-IR20A01	BT30	
T90-BT40-IR20A01	BT40	
T90-BT50-IR20A01	BT50	
T90-CA40-IR20-01	CAT40	
T90-CA50-IR20-01	CAT50	
T90-HA63-IR20A01	HSK A63	
T90-HA10-IR20A01	HSK A100	

**IPE SYSTEM IR20 TOOLING KIT - IR20 BASE METRIC**

Order Number	SHANK	Qty
T90-PBBT30-IR20-01	PBBT30	
T90-PBBT40-IR20-01	PBBT40	
T90-PBBT50-IR20-01	PBBT50	
T90-PBSK40-IR20-01	PBSK40	
T90-PBSK50-IR20-01	PBSK50	

**IPE SYSTEM IR16 TOOLING KIT - IR16 BASE INCH**

Order Number	SHANK	Qty
T90-PBBT30-IR20A01	PBBT30	
T90-PBBT40-IR20A01	PBBT40	
T90-PBBT50-IR20A01	PBBT50	
T90-PBCA40-IR20-01	PBCAT40	
T90-PBCA50-IR20-01	PBCAT50	

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A926-20100	IR20-IR20-100-EX	IR20	IR20	100	1

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A926A20102	IR20-IR20-4"-EX	IR20	IR20	4.00"	1

**ER COLLET CHUCK METRIC - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	100	1
T12ER20A020-20060	IR20-ER20-060	IR20	ER20	60	1
T12ER20A020-20100	IR20-ER20-100	IR20	ER20	100	1

**ER COLLET CHUCK INCH - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A020-16100	IR20-ER16-100	IR20	ER16	3.94"	1
T12ER20A020A20051	IR20-ER20-2.0"	IR20	ER20	2.00"	1
T12ER20A020A20102	IR20-ER20-4.0"	IR20	ER20	4.00"	1

**END MILL HOLDER METRIC - 040**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A040-10060	IR20-EM10-060	IR20	EM10	60	1

**END MILL HOLDER INCH - 040**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A040A12051	IR20-EM1/2"-2.0"	IR20	EM1/2"	2.00"	1

**SCREW-IN HOLDER METRIC - 200**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER20A200-16060	IR20-M16-060	IR20	M16	60	1

**SCREW-IN HOLDER INCH - 200**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER20A200A16060	IR20-M16-2.36"	IR20	M16	2.36"	1

**TOOLING KIT - T90**

**ORDER No T90-XXXX-IR25-01**

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 4x ER COLLET CHUCK EXTENSION



**I SYSTEM IR25 TOOLING KIT - IR25 BASE METRIC**

Order Number	SHANK	Qty
T90-BT30-IR25-01	BT30	
T90-BT40-IR25-01	BT40	
T90-BT50-IR25-01	BT50	
T90-SK40-IR25-01	SK40	
T90-SK50-IR25-01	SK50	
T90-HA63-IR25-01	HSK A63	
T90-HA10-IR25-01	HSK A100	

**I SYSTEM IR25 TOOLING KIT - IR25 BASE INCH**

Order Number	SHANK	Qty
T90-BT30-IR25A01	BT30	
T90-BT40-IR25A01	BT40	
T90-BT50-IR25A01	BT50	
T90-CA40-IR25-01	CAT40	
T90-CA50-IR25-01	CAT50	
T90-HA63-IR25A01	HSK A63	
T90-HA10-IR25A01	HSK A100	

**IPE SYSTEM IR25 TOOLING KIT - IR25 BASE METRIC**

Order Number	SHANK	Qty
T90-PBBT30-IR25-01	PBBT30	
T90-PBBT40-IR25-01	PBBT40	
T90-PBBT50-IR25-01	PBBT50	
T90-PBSK40-IR25-01	PBSK40	
T90-PBSK50-IR25-01	PBSK50	

**IPE SYSTEM IR25 TOOLING KIT - IR25 BASE INCH**

Order Number	SHANK	Qty
T90-PBBT30-IR25A01	PBBT30	
T90-PBBT40-IR25A01	PBBT40	
T90-PBBT50-IR25A01	PBBT50	
T90-PBCA40-IR25-01	PBCAT40	
T90-PBCA50-IR25-01	PBCAT50	

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A926-25100	IR25-IR25-100-EX	IR25	IR25	100	1

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A926A25102	IR25-IR25-4"-EX	IR25	IR25	4.00"	1

**ER COLLET CHUCK METRIC - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	100	1
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	100	1
T12ER25A020-25060	IR25-ER25-060	IR25	ER25	60	1
T12ER25A020-25100	IR25-ER25-100	IR25	ER25	100	1

**ER COLLET CHUCK INCH - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER25A020-16100	IR25-ER16-100	IR25	ER16	3.94"	1
T12ER25A020-20100	IR25-ER20-100	IR25	ER20	3.94"	1
T12ER25A020A25051	IR25-ER25-2.0"	IR25	ER25	2.00"	1
T12ER25A020A25102	IR25-ER25-4.0"	IR25	ER25	4.00"	1

**TOOLING KIT - T90**

**ORDER No T90-XXXX-IR32-01**

- 1x SHANK IR EXTENSION BASE
- 1x IR EXTENSION BASE
- 3x ER COLLET CHUCK EXTENSION



**I SYSTEM IR32 TOOLING KIT - IR32 BASE METRIC**

Order Number	SHANK	Qty
T90-BT30-IR32-01	BT30	
T90-BT40-IR32-01	BT40	
T90-BT50-IR32-01	BT50	
T90-SK40-IR32-01	SK40	
T90-SK50-IR32-01	SK50	
T90-HA63-IR32-01	HSK A63	
T90-HA10-IR32-01	HSK A100	

**I SYSTEM IR32 TOOLING KIT - IR32 BASE INCH**

Order Number	SHANK	Qty
T90-BT30-IR32A01	BT30	
T90-BT40-IR32A01	BT40	
T90-BT50-IR32A01	BT50	
T90-CA40-IR32-01	CAT40	
T90-CA50-IR32-01	CAT50	
T90-HA63-IR32A01	HSK A63	
T90-HA10-IR32A01	HSK A100	

**IPE SYSTEM IR32 TOOLING KIT - IR32 BASE METRIC**

Order Number	SHANK	Qty
T90-PBBT30-IR32-01	PBBT30	
T90-PBBT40-IR32-01	PBBT40	
T90-PBBT50-IR32-01	PBBT50	
T90-PBSK40-IR32-01	PBSK40	
T90-PBSK50-IR32-01	PBSK50	

**IPE SYSTEM IR32 TOOLING KIT - IR32 BASE INCH**

Order Number	SHANK	Qty
T90-PBBT30-IR32A01	PBBT30	
T90-PBBT40-IR32A01	PBBT40	
T90-PBBT50-IR32A01	PBBT50	
T90-PBCA40-IR32-01	PBCAT40	
T90-PBCA50-IR32-01	PBCAT50	

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A926-32100	IR32-IR32-100-EX	IR32	IR32	100	1

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A926A32102	IR32-IR32-4"-EX	IR32	IR32	4.00"	1

**ER COLLET CHUCK METRIC - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	100	1
T12ER32A020-32100	IR32-ER32-100	IR32	ER32	100	1
T12ER32A020-32060	IR32-ER32-060	IR32	ER32	60	1

**ER COLLET CHUCK INCH - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER32A020-16100	IR32-ER16-100	IR32	ER16	3.94"	1
T12ER32A020-32102	IR32-ER32-4"	IR32	ER32	4.00"	1
T12ER32A020A32051	IR32-ER32-2.0"	IR32	ER32	2.00"	1



TOOLING KIT - T90

- ORDER No T90-XXXX-IR40-01**  
**1x SHANK IR EXTENSION BASE**  
**1x IR EXTENSION BASE**  
**3x ER COLLET CHUCK EXTENSION**



**I SYSTEM IR40 TOOLING KIT - IR40 BASE METRIC**

Order Number	SHANK	Qty
T90-BT40-IR40-01	BT40	
T90-BT50-IR40-01	BT50	
T90-SK40-IR40-01	SK40	
T90-SK50-IR40-01	SK50	
T90-HA63-IR40-01	HSK A63	
T90-HA10-IR40-01	HSK A100	

**I SYSTEM IR40 TOOLING KIT - IR40 BASE INCH**

Order Number	SHANK	Qty
T90-BT40-IR40A01	BT40	
T90-BT50-IR40A01	BT50	
T90-CA40-IR40-01	CAT40	
T90-CA50-IR40-01	CAT50	
T90-HA63-IR40A01	HSK A63	
T90-HA10-IR40A01	HSK A100	

**IPE SYSTEM IR40 TOOLING KIT - IR40 BASE METRIC**

Order Number	SHANK	Qty
T90-PBBT40-IR40-01	PBBT40	
T90-PBBT50-IR40-01	PBBT50	
T90-PBSK40-IR40-01	PBSK40	
T90-PBSK50-IR40-01	PBSK50	

**IPE SYSTEM IR40 TOOLING KIT - IR40 BASE INCH**

Order Number	SHANK	Qty
T90-PBBT40-IR40A01	PBBT40	
T90-PBBT50-IR40A01	PBBT50	
T90-PBCA40-IR40-01	PBCAT40	
T90-PBCA50-IR40-01	PBCAT50	

**IR EXTENSION BASE METRIC - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A926-40100	IR40-IR40-100-EX	IR40	IR40	100	1

**IR EXTENSION BASE INCH - 926**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A926A40102	IR40-IR40-4"-EX	IR40	IR40	4.00"	1

**ER COLLET CHUCK METRIC - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L mm	
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	100	1
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	100	1
T12ER40A020-40060	IR40-ER40-060	IR40	ER40	60	1

**ER COLLET CHUCK INCH - 020**

Order Number	Part Name	Base	Extension		Qty
			Size	L inch	
T12ER40A020-25100	IR40-ER25-100	IR40	ER25	3.94"	1
T12ER40A020-32100	IR40-ER32-100	IR40	ER32	3.94"	1
T12ER40A020A40051	IR40-ER40-2.0"	IR40	ER40	2.00"	1



# T14 EXTENSION



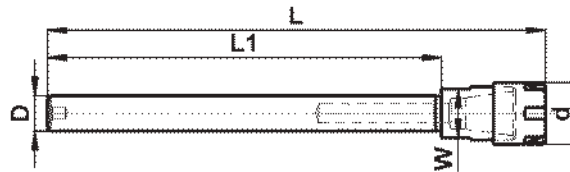
**STRAIGHT SHANK EXTENSION**

**STRAIGHT SHANK  
EXTENSION  
ER COLLET CHUCK  
T14  
MINI NUT**

**ER COLLET CHUCK MINI NUT - T14**

**Quality**

- Cylinderness : 0.005mm (0.00018")
- Case hardness: HRC 56±2
- Seat runout: 0.005mm (0.00018")
- w/ high-balanced nut



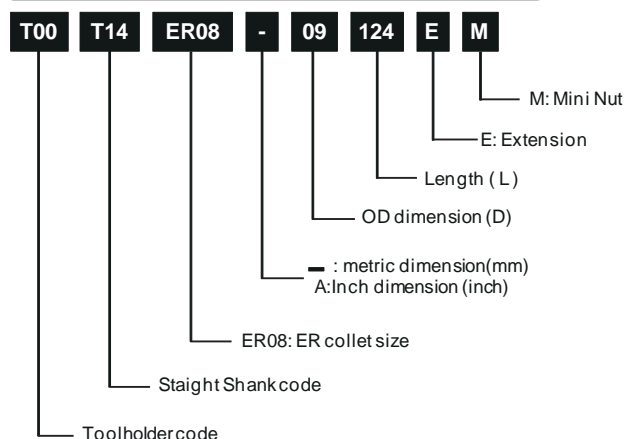
**ER COLLET CHUCK MINI NUT METRIC**

Order Number	Part Name	Collet	Length	D	d	L	L1	W	Nut
T00T14ER08-08045EM	ER08M 08x021	ER08	45	8	12	45	21	10	Mini
T00T14ER08-08104EM	ER08M 08x080	ER08	104	8	12	104	80	10	Mini
T00T14ER08-10124EM	ER08M 10x100	ER08	124	10	12	124	100	10	Mini
T00T14ER11-12166EM	ER11M 12x140	ER11	166	12	16	166	140	14	Mini
T00T14ER11-16161EM	ER11M 16x140	ER11	161	16	16	161	140	14	Mini
T00T14ER16-12118EM	ER16M 12x080	ER16	118	12	22	118	80	17	Mini
T00T14ER16-16138EM	ER16M 16x100	ER16	138	16	22	138	100	17	Mini
T00T14ER16-20166EM	ER16M 20x140	ER16	166	20	22	166	140	19	Mini
T00T14ER20-16142EM	ER20M 16x100	ER20	142	16	28	142	100	22	Mini
T00T14ER20-25165EM	ER20M 25x140	ER20	165	25	28	165	140	22	Mini

**ER COLLET CHUCK MINI NUT INCH**

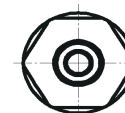
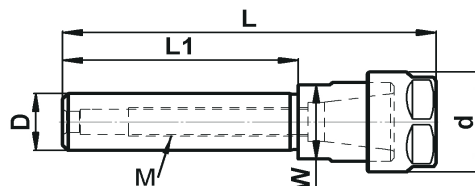
Order Number	Part Name	Collet	Length	D	d	L	L1	W	Nut
T00T14ER08A09124EM	ER08M 3/8"x3.94"	ER08	4.88"	3/8"	0.473"	4.88"	3.94"	3/8"	Mini
T00T14ER11A12166EM	ER11M 1/2"x5.52"	ER11	6.54"	1/2"	0.63"	6.54"	5.51"	9/16"	Mini
T00T14ER11A16158EM	ER11M 5/8"x5.52"	ER11	6.22"	5/8"	0.63"	6.22"	5.51"	9/16"	Mini
T00T14ER16A12177EM	ER16M 1/2"x5.52"	ER16	6.97"	1/2"	0.87"	6.97"	5.51"	11/16"	Mini
T00T14ER16A19165EM	ER16M 3/4"x5.52"	ER16	6.50"	3/4"	0.87"	6.5"	5.51"	11/16"	Mini
T00T14ER20A25168EM	ER20M 1"x5.52"	ER20	6.61"	1"	1.10"	6.61"	5.51"	7/8"	Mini

**Order Number Instruction**



## Quality

- Cylinderness : 0.005mm (0.00018")
- Case hardened hardness: HRC 56±2
- Seat runout: 0.005mm (0.00018")
- w/ high-balanced nut



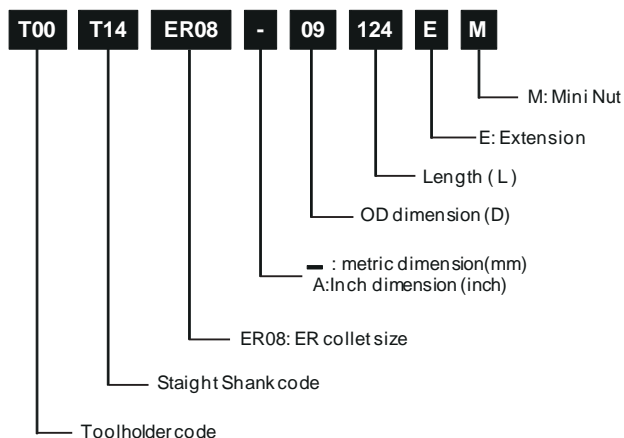
## ER COLLET CHUCK METRIC

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11-12134E	ER11 12x100	ER11	134	12	19	134	100	X	17	Hex
T00T14ER11-16174E	ER11 16x140	ER11	174	16	19	174	140	X	17	Hex
T00T14ER16-16096E	ER16 16x060	ER16	96	16	28	96	60	M8	19	Hex
T00T14ER16-20080E	ER16 20x050	ER16	80	20	28	80	50	M12	19	Hex
T00T14ER16-20130E	ER16 20x100	ER16	130	20	28	130	100	M12	19	Hex
T00T14ER16-20190E	ER16 20x160	ER16	190	20	28	190	160	M12	19	Hex
T00T14ER20-20096E	ER20 20x060	ER20	96	20	34	96	60	M12	22	Hex
T00T14ER20-20136E	ER20 20x100	ER20	136	20	34	136	100	M12	22	Hex
T00T14ER32-20104E	ER32 20x050	ER32	104	20	50	104	50	M12	36	Hex
T00T14ER32-20154E	ER32 20x100	ER32	154	20	50	154	100	M12	36	Hex
T00T14ER32-25154E	ER32 25x100	ER32	154	25	50	154	100	M18	36	Hex
T00T14ER40-25097E	ER40 25x050	ER40	97	25	50	97	50	M18	45	Hex

## ER COLLET CHUCK INCH

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11A12174E	ER11 1/2"x5.52"	ER11	6.85"	1/2"	0.75"	6.85"	5.52"	X	9/16"	Hex
T00T14ER11A16174E	ER11 5/8"x5.52"	ER11	6.85"	5/8"	0.75"	6.85"	5.52"	X	11/16"	Hex
T00T14ER16A16095E	ER16 5/8"x2.36"	ER16	3.74"	5/8"	1.10"	3.74"	2.36"	5/16"-24	13/16"	Hex
T00T14ER16A19085E	ER16 3/4"x1.97"	ER16	3.35"	3/4"	1.10"	3.35"	1.97"	7/16"-20	13/16"	Hex
T00T14ER16A19135E	ER16 3/4"x3.94"	ER16	5.32"	3/4"	1.10"	5.32"	3.94"	7/16"-20	13/16"	Hex
T00T14ER16A19175E	ER16 3/4"x5.52"	ER16	6.89"	3/4"	1.10"	6.89"	5.52"	7/16"-20	13/16"	Hex
T00T14ER20A19100E	ER20 3/4"x2.5"	ER20	3.94"	3/4"	1.34"	3.94"	2.50"	7/16"-20	15/16"	Hex
T00T14ER20A25180E	ER20 1"x5.52"	ER20	7.09"	1"	1.34"	7.09"	5.51"	9/16"-18	15/16"	Hex
T00T14ER25A25101E	ER25 1"x1.97"	ER25	3.98"	1"	1.65"	3.98"	1.97"	11/16"-16	1-1/2"	Spanner
T00T14ER32A25101E	ER32 1"x1.97"	ER32	3.98"	1"	1.97"	3.98"	1.97"	11/16"-16	1-1/2"	Spanner
T00T14ER32A32111E	ER32 1-1/4"x2.36"	ER32	4.37"	1-1/4"	1.97"	4.37"	2.36"	15/16"-16	1-1/2"	Spanner
T00T14ER40A25125E	ER40 1"x1.97"	ER40	4.92"	1"	2.48"	4.92"	1.97"	11/16"-16	1-7/8"	Spanner

## Order Number Instruction





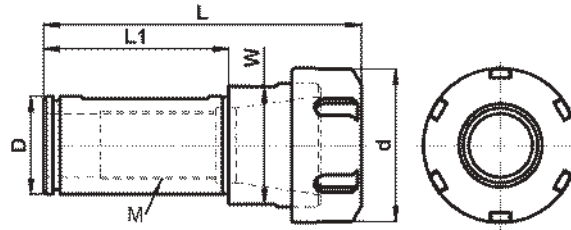
**STRAIGHT SHANK EXTENSION**

**STRAIGHT SHANK  
EXTENSION  
ER COLLET CHUCK  
T14  
CNC LATHE**

**ER COLLET CHUCK CNC LATHE - T14**

**Quality**

- Cylinderiness : 0.005mm (0.00018")
- Case hardness: HRC 56±2
- Seat runout: 0.005mm (0.00018")
- w/ high-balanced nut



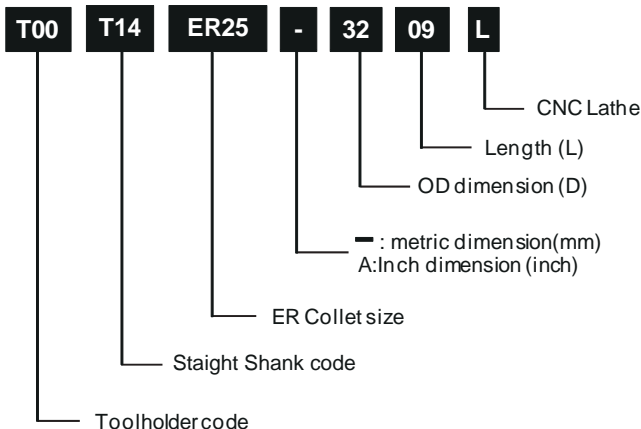
**ER COLLET CHUCK MINI NUT METRIC**

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER25-32092L	ER25 32x60	ER25	92	32	42	92	60	M18	27	Spanner
T00T14ER32-32098L	ER32 32x60	ER32	98	32	50	98	60	M24	36	Spanner
T00T14ER32-40113L	ER32 40x80	ER32	113	40	50	113	80	M24	36	Spanner
T00T14ER40-40130L	ER40 40x75	ER40	130	40	63	130	75	M28	36	Spanner

**ER COLLET CHUCK MINI NUT INCH**

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER25A32097L	ER25 1-1/4"x2.36"	ER25	3.82"	1-1/4"	1.65"	3.82"	2.36"	11/16"-16	1-1/8"	Spanner
T00T14ER32A32103L	ER32 1-1/4"x2.36"	ER32	4.06"	1-1/4"	1.97"	4.06"	2.36"	15/16"-16	1-1/2"	Spanner
T00T14ER32A38118L	ER32 1-1/2"x3.15"	ER32	4.65"	1-1/2"	1.97"	4.65"	3.15"	15/16"-16	1-1/2"	Spanner
T00T14ER40A32120L	ER40 1-1/4"x2.36"	ER40	4.72"	1-1/4"	2.48"	4.72"	2.36"	15/16"-16	1-7/8"	Spanner
T00T14ER40A38135L	ER40 1-1/2"x2.95"	ER40	5.31"	1-1/2"	2.48"	5.31"	2.95"	1-1/8"-16	1-7/8"	Spanner

**Order Number Instruction**





**STRAIGHT SHANK EXTENSION**

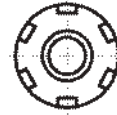
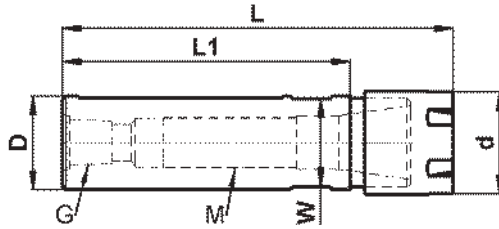
**ER COLLET CHUCK CNC LATHE - T14**

**STRAIGHT SHANK  
EXTENSION  
ER COLLET CHUCK  
T14**

**CNC LATHE w/pipe thread**

**Quality**

- Cylinderness : 0.005mm (0.00018")
- Case hardened hardness: HRC 56±2
- Seat runout: 0.005mm (0.00018")
- w/ high-balanced nut



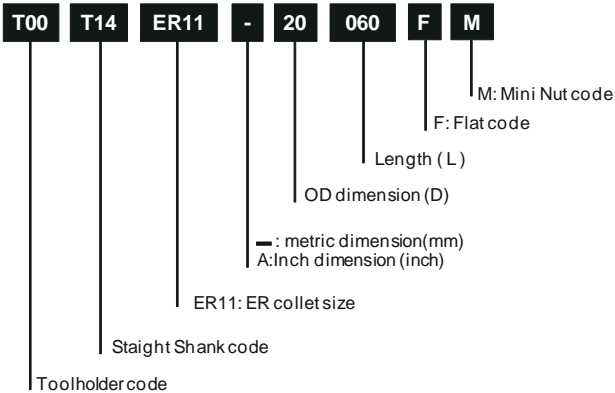
**ER COLLET CHUCK CNC LATHE - PIPE THREAD - COOLANT THRU - METRIC**

Order Number	Part Name	Collet	Length	D	d	L	L1	G	M	W	Nut
T00T14ER11-16059FM	ER11M 16x38	ER11	59	16	16	59	38	1/4"	M8	14	Mini
T00T14ER11-16161FM	ER11M 16x140	ER11	161	16	16	161	140	1/4"	M8	14	Mini
T00T14ER16-16096FM	ER16M 16x70	ER16	96	16	22	96	70	1/4"	M8	17	Mini
T00T14ER16-20096FM	ER16M 20x70	ER16	96	20	22	96	70	1/4"	M12	17	Mini
T00T14ER16-20126FM	ER16M 20x100	ER16	126	20	22	126	100	1/4"	M12	17	Mini
T00T14ER16-20166FM	ER16M 20x140	ER16	166	20	22	166	140	1/4"	M12	17	Mini
T00T14ER16-22096FM	ER16M 22x70	ER16	96	22	22	96	70	1/4"	M12	19	Mini
T00T14ER20-22108FM	ER20M 22x80	ER20	108	22	28	108	80	1/4"	M12	19	Mini
T00T14ER20-25128FM	ER20M 25x100	ER20	128	25	28	128	100	1/4"	M14	22	Mini
T00T14ER20-25178FM	ER20M 25x150	ER20	178	25	28	178	150	1/4"	M14	22	Mini
T00T14ER32-32115F	ER32 32x60	ER32	115	32	50	115	60	1/4"	M24	38	Spanner

**ER COLLET CHUCK CNC LATHE - PIPE THREAD - COOLANT THRU - INCH**

Order Number	Part Name	Collet	Length	D	d	L	L1	G	M	W	Nut
T00T14ER16A19110FM	ER16M 3/4"x3.42"	ER16	4.19"	3/4"	0.87"	4.19"	3.42"	1/4"	7/16"-20	11/16"	Mini
T00T14ER20A25111FM	ER20M 1"x3.31"	ER20	4.18"	1"	1.10"	4.18"	3.31"	1/4"	9/16"-18	15/16"	Mini
T00T14ER32A32115F	ER32 1-1/4"x2.36"	ER32	4.33"	1-1/4"	1.97"	4.33"	2.36"	1/4"	15/16"-16	1-1/2"	Spanner

**Order Number Instruction**





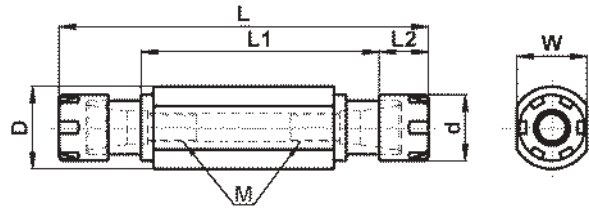
**STRAIGHT SHANK EXTENSION**

**ER COLLET CHUCK DOUBLE END - T14**

**STRAIGHT SHANK  
EXTENSION  
ER COLLET CHUCK  
T14  
CNC LATHE - DOUBLE END**

**Quality**

- Cylinderness : 0.005mm (0.00018")
- Case hardness: HRC 56±2
- Seat runout: 0.005mm (0.00018")
- w/ high-balanced nut



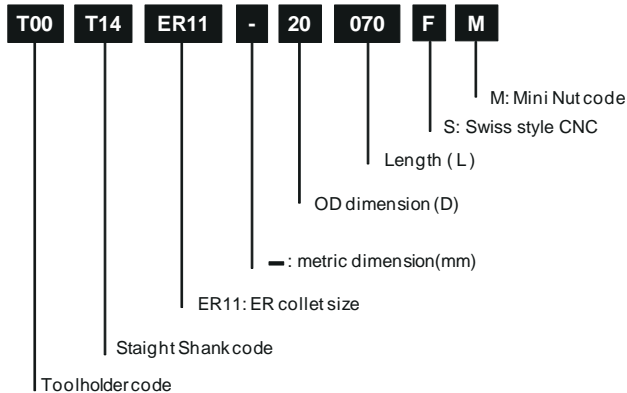
**ER COLLET CHUCK DOUBLE END - SWISS CNC MACHINES METRIC**

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11-20070SM	ER11M 20x30	ER11	70	20	16	70	30	M8	17	Mini
T00T14ER11-20090SM	ER11M 20x50	ER11	90	20	16	90	50	M8	17	Mini
T00T14ER16-20107SM	ER16M 20x55	ER16	107	20	22	107	55	M12	17	Mini
T00T14ER16-22111SM	ER16M 22x55	ER16	111	22	22	111	55	M12	19	Mini
T00T14ER16-22131SM	ER16M 22x75	ER16	131	22	22	131	75	M12	19	Mini

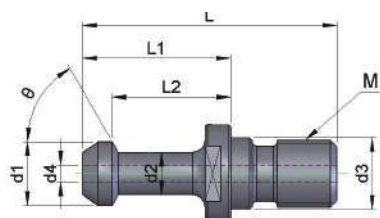
**ER COLLET CHUCK DOUBLE END - SWISS CNC MACHINES INCH**

Order Number	Part Name	Collet	Length	D	d	L	L1	M	W	Nut
T00T14ER11A19078SM	ER11M 3/4"x1.73"	ER11	3.06"	3/4"	0.63"	3.06"	1.73"	M8	17	Mini
T00T14ER11A19099SM	ER11M 3/4"x2.56"	ER11	3.88"	3/4"	0.63"	3.88"	2.56"	M8	17	Mini
T00T14ER11A19111SM	ER11M 3/4"x3.03"	ER11	4.35"	3/4"	0.63"	4.35"	3.03"	M8	17	Mini
T00T14ER11A19133SM	ER11M 3/4"x3.92"	ER11	5.24"	3/4"	0.63"	5.24"	3.92"	M8	17	Mini

**Order Number Instruction**



RETENTION KNOBS - T05



BT RETENTION KNOBS GROUND - wo/Coolant hole - MAS 403

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT30A45	BT30*45°	45	43	23	18	11	7	12.5	x	M12
T05BT30A60	BT30*60°	60	43	23	18	11	7	12.5	x	M12
T05BT30A90	BT30*90°	90	43	23	18	11	7	12.5	x	M12
T05BT40A45	BT40*45°	45	60	35	28	15	10	17	x	M16
T05BT40A60	BT40*60°	60	60	35	28	15	10	17	x	M16
T05BT40A90	BT40*90°	90	60	35	28	15	10	17	x	M16
T05BT50A45	BT50*45°	45	85	45	35	23	17	25	x	M24
T05BT50A60	BT50*60°	60	85	45	35	23	17	25	x	M24
T05BT50A90	BT50*90°	90	85	45	35	23	17	25	x	M24

BT RETENTION KNOBS GROUND - w/Coolant hole - MAS 403

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40B45	BT40*45°W	45	60	35	28	15	10	17	4	M16
T05BT40B60	BT40*60°W	60	60	35	28	15	10	17	4	M16
T05BT40B90	BT40*90°W	90	60	35	28	15	10	17	4	M16
T05BT50B45	BT50*45°W	45	85	45	35	23	17	25	7	M24
T05BT50B60	BT50*60°W	60	85	45	35	23	17	25	7	M24
T05BT50B90	BT50*90°W	90	85	45	35	23	17	25	7	M24

BT RETENTION KNOBS GROUND - w/Coolant hole - Mazak

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40B45-MA	BT40*45°W, Mazak	45	44.1	19.1	14	18.8	12.45	17	7	M16
T05BT40B45-MA-CA	BT40*45°W, Mazak 41L	45	41.1	16.1	11	18.8	12.45	17	7	M16
T05BT50B45-MA	BT50*45°W, Mazak	45	65.2	25.2	17.58	28.95	20.83	25	10	M24

BT RETENTION KNOBS w/Coolant hole - JIS B6339P

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT30B75-JIS	BT30*75°W, BBT	75	43	23.4	18.4	12	8	12.5	4	M12
T05BT40B75-JIS	BT40*75°W, BBT	75	54	29	23	19	14	17	7	M16
T05BT50B75-JIS	BT50*75°W, BBT	75	74	34	25	28	21	25	10	M24

BT RETENTION KNOBS with CAT Shank thread

BT RETENTION KNOBS CAT Shank thread

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40A45-CA	BT40*45°, CAT	45	57.15	32.15	25.15	15	10	x	x	5/8"
T05BT50A45-CA	BT50*45°, CAT	45	78.6	45	35.2	23	17	x	x	1"-8

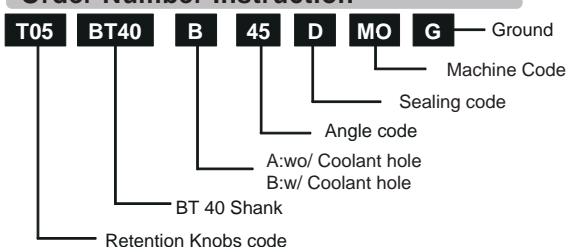
BT RETENTION KNOBS CAT Shank thread w/Coolant hole and Double O-ring for high-pressure coolant

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40B45DCA	BT40*45°W- CAT, DS	45	57.15	32.15	25.15	15	10	x	3	5/8"
T05BT50B45DCA	BT50*45°W-CAT, DS	45	78.6	45	35.2	23	17	x	7	1"-8

Note:

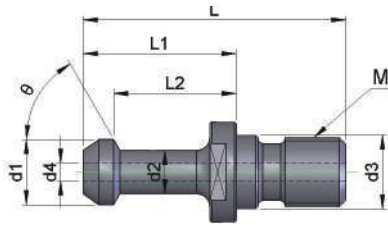
Please see catalogue Page11 before using

Order Number Instruction





RETENTION KNOBS - T05



MAS 403



JIS B6339



Mazak

HIGHEST PRECISION WITH GROUND

BT RETENTION KNOBS GROUND - wo/Coolant hole - MAS 403

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT30A45-G	BT30*45°,G	45	43	23	18	11	7	12.5	x	M12
T05BT30A60-G	BT30*60°,G	60	43	23	18	11	7	12.5	x	M12
T05BT30A90-G	BT30*90°,G	90	43	23	18	11	7	12.5	x	M12
T05BT40A45-G	BT40*45°,G	45	60	35	28	15	10	17	x	M16
T05BT40A60-G	BT40*60°,G	60	60	35	28	15	10	17	x	M16
T05BT40A90-G	BT40*90°,G	90	60	35	28	15	10	17	x	M16
T05BT50A45-G	BT50*45°,G	45	85	45	35	23	17	25	x	M24
T05BT50A60-G	BT50*60°,G	60	85	45	35	23	17	25	x	M24
T05BT50A90-G	BT50*90°,G	90	85	45	35	23	17	25	x	M24

BT RETENTION KNOBS GROUND - w/Coolant hole - MAS 403

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40B45-G	BT40*45°W, G	45	60	35	28	15	10	17	4	M16
T05BT40B60-G	BT40*60°W, G	60	60	35	28	15	10	17	4	M16
T05BT40B90-G	BT40*90°W, G	90	60	35	28	15	10	17	4	M16
T05BT50B45-G	BT50*45°W, G	45	85	45	35	23	17	25	7	M24
T05BT50B60-G	BT50*60°W, G	60	85	45	35	23	17	25	7	M24
T05BT50B90-G	BT50*90°W, G	90	85	45	35	23	17	25	7	M24

BT RETENTION KNOBS GROUND - w/Coolant hole and Double O-ring for high-pressure coolant - Mazak

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40B45DMA-G	BT40*45°W, DS, Mazak, G	45	44.1	19.1	14	18.8	12.45	17	7	M16
T05BT50B45DMA-G	BT50*45°W, DS, Mazak, G	45	65.2	25.2	17.58	28.95	20.83	25	10	M24

BT RETENTION KNOBS w/Coolant hole - JIS B6339P

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT30B75-JIS-G	BT30*75°W,BBT, G	75	43	23.4	18.4	12	8	12.5	4	M12
T05BT40B75-JIS-G	BT40*75°W,BBT, G	75	54	29	23	19	14	17	7	M16
T05BT50B75-JIS-G	BT50*75°W,BBT, G	75	74	34	25	28	21	25	10	M24

BT RETENTION KNOBS GROUND - w/ Coolant hole and Double O-ring for high-pressure coolan - JIS B6339P - DMG/Mori Seiki

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40B75DMO-G	BT40*75°W,DS, MO, G	75	54	29	23	19	14	17	7	M16
T05BT50B75DMO-G	BT50*75°W,DS, MO, G	75	74	34	25	28	21	25	10	M24

BT RETENTION KNOBS with CAT Shank thread

BT RETENTION KNOBS GROUND - CAT Shank thread

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40A45-CA-G	BT40*45°- CAT, G	45	57.15	32.15	25.15	15	10	x	x	5/8"
T05BT50A45-CA-G	BT50*45°- CAT, G	45	78.6	45	35.2	23	17	x	x	1"-8

BT RETENTION KNOBS GROUND - CAT Shank thread - w/Coolant hole and Double O-ring for high-pressure coolant

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40B45DCA-G	BT40*45°W- CAT, DS, G	45	57.15	32.15	25.15	15	10	x	3	5/8"
T05BT50B45DCA-G	BT50*45°W- CAT, DS, G	45	78.6	45	35.2	23	17	x	7	1"-8

BT RETENTION KNOBS GROUND- CAT Shank thread - w/Coolant hole and Double O-ring for high-pressure coolant, Toyoda

Order Number	Part Name	θ	L	L1	L2	d1	d2	d3	d4	M
T05BT40B45DCA-KT	BT40*45°W- CAT, DS, KT	45	57.15	32.15	25.15	15	10	16.28	3	5/8"

Note:

Please see catalogue Page11 before using

## ER COLLET - T03

A CLASS



ER08 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
		T03ERB8-030A	Collet ER08-03
T03ERB8-035A	Collet ER08-035	3.5~3.0	0.1400~0.1181"
T03ERB8-040A	Collet ER08-04	4.0~3.5	0.1575~0.1400"
T03ERB8-045A	Collet ER08-045	4.5~4.0	0.1800~0.1575"
T03ERB8-050A	Collet ER08-05	5.0~4.5	0.1969~0.1800"

ER11 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
		T03ERB11-030A	Collet ER11-03
T03ERB11-040A	Collet ER11-04	4.0~3.0	0.1575~0.1181"
T03ERB11-050A	Collet ER11-05	5.0~4.0	0.1969~0.1575"
T03ERB11-060A	Collet ER11-06	6.0~5.0	0.2362~0.1969"
T03ERB11-070A	Collet ER11-07	7.0~6.0	0.2756~0.2362"

ER16 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
		T03ERB16-030A	Collet ER16-03
T03ERB16-040A	Collet ER16-04	4.0~3.0	0.1575~0.1181"
T03ERB16-050A	Collet ER16-05	5.0~4.0	0.1969~0.1575"
T03ERB16-060A	Collet ER16-06	6.0~5.0	0.2362~0.1969"
T03ERB16-070A	Collet ER16-07	7.0~6.0	0.2756~0.2362"
T03ERB16-080A	Collet ER16-08	8.0~7.0	0.3150~0.2756"
T03ERB16-090A	Collet ER16-09	9.0~8.0	0.3543~0.3150"
T03ERB16-100A	Collet ER16-10	10.0~9.0	0.3937~0.3543"

ER20 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
		T03ERB20-030A	Collet ER20-03
T03ERB20-040A	Collet ER20-04	4.0~3.0	0.1575~0.1181"
T03ERB20-050A	Collet ER20-05	5.0~4.0	0.1969~0.1575"
T03ERB20-060A	Collet ER20-06	6.0~5.0	0.2362~0.1969"
T03ERB20-070A	Collet ER20-07	7.0~6.0	0.2756~0.2362"
T03ERB20-080A	Collet ER20-08	8.0~7.0	0.3150~0.2756"
T03ERB20-090A	Collet ER20-09	9.0~8.0	0.3543~0.3150"
T03ERB20-100A	Collet ER20-10	10.0~9.0	0.3937~0.3543"
T03ERB20-110A	Collet ER20-11	11.0~10.0	0.4330~0.3937"
T03ERB20-120A	Collet ER20-12	12.0~11.0	0.4724~0.4330"
T03ERB20-130A	Collet ER20-13	13.0~12.0	0.5118~0.4724"

ER25 COLLET METRIC		Clamping Range	
Order Number	Part Name	Metric	Inch
		T03ERB25-030A	Collet ER25-03
T03ERB25-040A	Collet ER25-04	4.0~3.0	0.1575~0.1181"
T03ERB25-050A	Collet ER25-05	5.0~4.0	0.1969~0.1575"
T03ERB25-060A	Collet ER25-06	6.0~5.0	0.2362~0.1969"
T03ERB25-070A	Collet ER25-07	7.0~6.0	0.2756~0.2362"
T03ERB25-080A	Collet ER25-08	8.0~7.0	0.3150~0.2756"
T03ERB25-090A	Collet ER25-09	9.0~8.0	0.3543~0.3150"
T03ERB25-100A	Collet ER25-10	10.0~9.0	0.3937~0.3543"
T03ERB25-110A	Collet ER25-11	11.0~10.0	0.4330~0.3937"
T03ERB25-120A	Collet ER25-12	12.0~11.0	0.4724~0.4330"
T03ERB25-130A	Collet ER25-13	13.0~12.0	0.5118~0.4724"
T03ERB25-140A	Collet ER25-14	14.0~13.0	0.5512~0.5118"
T03ERB25-150A	Collet ER25-15	15.0~14.0	0.5905~0.5512"
T03ERB25-160A	Collet ER25-16	16.0~15.0	0.6300~0.5905"

ER8 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB8A031A	Collet ER8-1/8"	7/64~1/8"
T03ERB8A040A	Collet ER8-5/32"	9/64~5/32"
T03ERB8A047A	Collet ER8-3/16"	5/32~3/16"

ER11 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB11A031A	Collet ER11-1/8"	5/64~1/8"
T03ERB11A040A	Collet ER11-5/32"	1/8~5/32"
T03ERB11A047A	Collet ER11-3/16"	5/32~3/16"
T03ERB11A055A	Collet ER11-7/32"	3/16~7/32"
T03ERB11A063A	Collet ER11-1/4"	7/32~1/4"

ER16 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB16A031A	Collet ER16-1/8"	5/64~1/8"
T03ERB16A040A	Collet ER16-5/32"	1/8~5/32"
T03ERB16A047A	Collet ER16-3/16"	5/32~3/16"
T03ERB16A055A	Collet ER16-7/32"	3/16~7/32"
T03ERB16A063A	Collet ER16-1/4"	7/32~1/4"
T03ERB16A071A	Collet ER16-9/32"	1/4~9/32"
T03ERB16A079A	Collet ER16-5/16"	9/32~5/16"
T03ERB16A087A	Collet ER16-11/32"	5/16~11/32"
T03ERB16A095A	Collet ER16-3/8"	11/32~3/8"
T03ERB16A103A	Collet ER16-13/32"	3/8~13/32"

ER20 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB20A031A	Collet ER20-1/8"	5/64~1/8"
T03ERB20A040A	Collet ER20-5/32"	1/8~5/32"
T03ERB20A047A	Collet ER20-3/16"	5/32~3/16"
T03ERB20A055A	Collet ER20-7/32"	3/16~7/32"
T03ERB20A063A	Collet ER20-1/4"	3/16~1/4"
T03ERB20A071A	Collet ER20-9/32"	1/4~9/32"
T03ERB20A079A	Collet ER20-5/16"	9/32~5/16"
T03ERB20A087A	Collet ER20-11/32"	5/16~11/32"
T03ERB20A095A	Collet ER20-3/8"	11/32~3/8"
T03ERB20A103A	Collet ER20-13/32"	11/32~13/32"
T03ERB20A111A	Collet ER20-7/16"	13/32~7/16"
T03ERB20A119A	Collet ER20-15/32"	7/16~15/32"
T03ERB20A127A	Collet ER20-1/2"	15/32~1/2"

ER25 COLLET INCH		Clamping Range
Order Number	Part Name	
T03ERB25A031A	Collet ER25-1/8"	5/64~1/8"
T03ERB25A040A	Collet ER25-5/32"	1/8~5/32"
T03ERB25A047A	Collet ER25-3/16"	5/32~3/16"
T03ERB25A055A	Collet ER25-7/32"	3/16~7/32"
T03ERB25A063A	Collet ER25-1/4"	3/16~1/4"
T03ERB25A071A	Collet ER25-9/32"	1/4~9/32"
T03ERB25A079A	Collet ER25-5/16"	9/32~5/16"
T03ERB25A087A	Collet ER25-11/32"	5/16~11/32"
T03ERB25A095A	Collet ER25-3/8"	11/32~3/8"
T03ERB25A103A	Collet ER25-13/32"	11/32~13/32"
T03ERB25A111A	Collet ER25-7/16"	13/32~7/16"
T03ERB25A119A	Collet ER25-15/32"	7/16~15/32"
T03ERB25A127A	Collet ER25-1/2"	15/32~1/2"
T03ERB25A135A	Collet ER25-17/32"	1/2~17/32"

## ER COLLET - T03

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## ER32 COLLET METRIC

Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB32-030A	Collet ER32-03	3.0~2.0	0.1181~0.0787"
T03ERB32-040A	Collet ER32-04	4.0~3.0	0.1575~0.1181"
T03ERB32-050A	Collet ER32-05	5.0~4.0	0.1969~0.1575"
T03ERB32-060A	Collet ER32-06	6.0~5.0	0.2362~0.1969"
T03ERB32-070A	Collet ER32-07	7.0~6.0	0.2756~0.2362"
T03ERB32-080A	Collet ER32-08	8.0~7.0	0.3150~0.2756"
T03ERB32-090A	Collet ER32-09	9.0~8.0	0.3543~0.3150"
T03ERB32-100A	Collet ER32-10	10.0~9.0	0.3937~0.3543"
T03ERB32-110A	Collet ER32-11	11.0~10.0	0.4330~0.3937"
T03ERB32-120A	Collet ER32-12	12.0~11.0	0.4724~0.4330"
T03ERB32-130A	Collet ER32-13	13.0~12.0	0.5118~0.4724"
T03ERB32-140A	Collet ER32-14	14.0~13.0	0.5512~0.5118"
T03ERB32-150A	Collet ER32-15	15.0~14.0	0.5905~0.5512"
T03ERB32-160A	Collet ER32-16	16.0~15.0	0.6300~0.5905"
T03ERB32-170A	Collet ER32-17	17.0~16.0	0.6693~0.6300"
T03ERB32-180A	Collet ER32-18	18.0~17.0	0.7087~0.6693"
T03ERB32-190A	Collet ER32-19	19.0~18.0	0.7480~0.7087"
T03ERB32-200A	Collet ER32-20	20.0~19.0	0.7874~0.7480"

## ER40 COLLET METRIC

Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB40-030A	Collet ER40-03	3.0~2.0	0.1181~0.0787"
T03ERB40-040A	Collet ER40-04	4.0~3.0	0.1575~0.1181"
T03ERB40-050A	Collet ER40-05	5.0~4.0	0.1969~0.1575"
T03ERB40-060A	Collet ER40-06	6.0~5.0	0.2362~0.1969"
T03ERB40-070A	Collet ER40-07	7.0~6.0	0.2756~0.2362"
T03ERB40-080A	Collet ER40-08	8.0~7.0	0.3150~0.2756"
T03ERB40-090A	Collet ER40-09	9.0~8.0	0.3543~0.3150"
T03ERB40-100A	Collet ER40-10	10.0~9.0	0.3937~0.3543"
T03ERB40-110A	Collet ER40-11	11.0~10.0	0.4330~0.3937"
T03ERB40-120A	Collet ER40-12	12.0~11.0	0.4724~0.4330"
T03ERB40-130A	Collet ER40-13	13.0~12.0	0.5118~0.4724"
T03ERB40-140A	Collet ER40-14	14.0~13.0	0.5512~0.5118"
T03ERB40-150A	Collet ER40-15	15.0~14.0	0.5905~0.5512"
T03ERB40-160A	Collet ER40-16	16.0~15.0	0.6300~0.5905"
T03ERB40-170A	Collet ER40-17	17.0~16.0	0.6693~0.6300"
T03ERB40-180A	Collet ER40-18	18.0~17.0	0.7087~0.6693"
T03ERB40-190A	Collet ER40-19	19.0~18.0	0.7480~0.7087"
T03ERB40-200A	Collet ER40-20	20.0~19.0	0.7874~0.7480"
T03ERB40-210A	Collet ER40-21	21.0~20.0	0.8268~0.7874"
T03ERB40-220A	Collet ER40-22	22.0~21.0	0.8661~0.8268"
T03ERB40-230A	Collet ER40-23	23.0~22.0	0.9055~0.8661"
T03ERB40-240A	Collet ER40-24	24.0~23.0	0.9449~0.9055"
T03ERB40-250A	Collet ER40-25	25.0~24.0	0.9843~0.9449"
T03ERB40-260A	Collet ER40-26	26.0~25.0	1.0236~0.9843"

## ER25 COLLET INCH

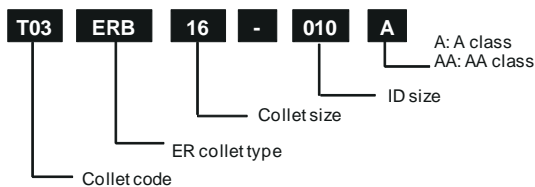
Order Number	Part Name	Clamping Range
T03ERB25A142A	Collet ER25-9/16"	17/32~9/16"
T03ERB25A150A	Collet ER25-19/32"	9/16~19/32"
T03ERB25A158A	Collet ER25-5/8"	19/32~5/8"

## ER32 COLLET INCH

Order Number	Part Name	Clamping Range
T03ERB32A031A	Collet ER32-1/8"	5/64~1/8"
T03ERB32A040A	Collet ER32-5/32"	1/8~5/32"
T03ERB32A047A	Collet ER32-3/16"	5/32~3/16"
T03ERB32A055A	Collet ER32-7/32"	3/16~7/32"
T03ERB32A063A	Collet ER32-1/4"	3/16~1/4"
T03ERB32A071A	Collet ER32-9/32"	1/4~9/32"
T03ERB32A079A	Collet ER32-5/16"	9/32~5/16"
T03ERB32A087A	Collet ER32-11/32"	5/16~11/32"
T03ERB32A095A	Collet ER32-3/8"	11/32~3/8"
T03ERB32A103A	Collet ER32-13/32"	11/32~13/32"
T03ERB32A111A	Collet ER32-7/16"	13/32~7/16"
T03ERB32A119A	Collet ER32-15/32"	7/16~15/32"
T03ERB32A127A	Collet ER32-1/2"	15/32~1/2"
T03ERB32A135A	Collet ER32-17/32"	1/2~17/32"
T03ERB32A142A	Collet ER32-9/16"	17/32~9/16"
T03ERB32A150A	Collet ER32-19/32"	9/16~19/32"
T03ERB32A158A	Collet ER32-5/8"	19/32~5/8"
T03ERB32A166A	Collet ER32-21/32"	5/8~21/32"
T03ERB32A174A	Collet ER32-11/16"	21/32~11/16"
T03ERB32A182A	Collet ER32-23/32"	11/16~23/32"
T03ERB32A190A	Collet ER32-3/4"	23/32~3/4"
T03ERB32A198A	Collet ER32-25/32"	3/4~25/32"

## ER40 COLLET INCH

Order Number	Part Name	Clamping Range
T03ERB40A031A	Collet ER40-1/8"	5/64~1/8"
T03ERB40A040A	Collet ER40-5/32"	1/8~5/32"
T03ERB40A047A	Collet ER40-3/16"	5/32~3/16"
T03ERB40A055A	Collet ER40-7/32"	3/16~7/32"
T03ERB40A063A	Collet ER40-1/4"	3/16~1/4"
T03ERB40A071A	Collet ER40-9/32"	1/4~9/32"
T03ERB40A079A	Collet ER40-5/16"	9/32~5/16"
T03ERB40A087A	Collet ER40-11/32"	5/16~11/32"
T03ERB40A095A	Collet ER40-3/8"	11/32~3/8"
T03ERB40A103A	Collet ER40-13/32"	11/32~13/32"
T03ERB40A111A	Collet ER40-7/16"	13/32~7/16"
T03ERB40A119A	Collet ER40-15/32"	7/16~15/32"
T03ERB40A127A	Collet ER40-1/2"	15/32~1/2"
T03ERB40A135A	Collet ER40-17/32"	1/2~17/32"
T03ERB40A142A	Collet ER40-9/16"	17/32~9/16"
T03ERB40A150A	Collet ER40-19/32"	9/16~19/32"
T03ERB40A158A	Collet ER40-5/8"	19/32~5/8"
T03ERB40A166A	Collet ER40-21/32"	5/8~21/32"
T03ERB40A174A	Collet ER40-11/16"	21/32~11/16"
T03ERB40A182A	Collet ER40-23/32"	11/16~23/32"
T03ERB40A190A	Collet ER40-3/4"	23/32~3/4"
T03ERB40A198A	Collet ER40-25/32"	3/4~25/32"
T03ERB40A206A	Collet ER40-13/16"	25/32~13/16"
T03ERB40A214A	Collet ER40-27/32"	13/16~27/32"
T03ERB40A222A	Collet ER40-7/8"	27/32~7/8"
T03ERB40A230A	Collet ER40-29/32"	7/8~29/32"
T03ERB40A238A	Collet ER40-15/16"	29/32~15/16"
T03ERB40A246A	Collet ER40-31/32"	15/16~31/32"
T03ERB40A254A	Collet ER40-1"	31/32~1"



## ER COLLET - T03



ER08 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB8-030AA	Collet ER08-03AA	3.0~2.5	0.1181~0.0984"
T03ERB8-035AA	Collet ER08-035AA	3.5~3.0	0.1400~0.1181"
T03ERB8-040AA	Collet ER08-04AA	4.0~3.5	0.1575~0.1400"
T03ERB8-045AA	Collet ER08-045AA	4.5~4.0	0.1800~0.1575"
T03ERB8-050AA	Collet ER08-05AA	5.0~4.5	0.1969~0.1800"

ER11 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB11-030AA	Collet ER11-03AA	3.0~2.0	0.1181~0.0787"
T03ERB11-040AA	Collet ER11-04AA	4.0~3.0	0.1575~0.1181"
T03ERB11-050AA	Collet ER11-05AA	5.0~4.0	0.1969~0.1575"
T03ERB11-060AA	Collet ER11-06AA	6.0~5.0	0.2362~0.1969"
T03ERB11-070AA	Collet ER11-07AA	7.0~6.0	0.2756~0.2362"

ER16 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB16-030AA	Collet ER16-03AA	3.0~2.0	0.1181~0.0787"
T03ERB16-040AA	Collet ER16-04AA	4.0~3.0	0.1575~0.1181"
T03ERB16-050AA	Collet ER16-05AA	5.0~4.0	0.1969~0.1575"
T03ERB16-060AA	Collet ER16-06AA	6.0~5.0	0.2362~0.1969"
T03ERB16-070AA	Collet ER16-07AA	7.0~6.0	0.2756~0.2362"
T03ERB16-080AA	Collet ER16-08AA	8.0~7.0	0.3150~0.2756"
T03ERB16-090AA	Collet ER16-09AA	9.0~8.0	0.3543~0.3150"
T03ERB16-100AA	Collet ER16-10AA	10.0~9.0	0.3937~0.3543"

ER20 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB20-030AA	Collet ER20-03AA	3.0~2.0	0.1181~0.0787"
T03ERB20-040AA	Collet ER20-04AA	4.0~3.0	0.1575~0.1181"
T03ERB20-050AA	Collet ER20-05AA	5.0~4.0	0.1969~0.1575"
T03ERB20-060AA	Collet ER20-06AA	6.0~5.0	0.2362~0.1969"
T03ERB20-070AA	Collet ER20-07AA	7.0~6.0	0.2756~0.2362"
T03ERB20-080AA	Collet ER20-08AA	8.0~7.0	0.3150~0.2756"
T03ERB20-090AA	Collet ER20-09AA	9.0~8.0	0.3543~0.3150"
T03ERB20-100AA	Collet ER20-10AA	10.0~9.0	0.3937~0.3543"
T03ERB20-110AA	Collet ER20-11AA	11.0~10.0	0.4330~0.3937"
T03ERB20-120AA	Collet ER20-12AA	12.0~11.0	0.4724~0.4330"
T03ERB20-130AA	Collet ER20-13AA	13.0~12.0	0.5118~0.4724"

ER25 COLLET METRIC			
Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB25-030AA	Collet ER25-03AA	3.0~2.0	0.1181~0.0787"
T03ERB25-040AA	Collet ER25-04AA	4.0~3.0	0.1575~0.1181"
T03ERB25-050AA	Collet ER25-05AA	5.0~4.0	0.1969~0.1575"
T03ERB25-060AA	Collet ER25-06AA	6.0~5.0	0.2362~0.1969"
T03ERB25-070AA	Collet ER25-07AA	7.0~6.0	0.2756~0.2362"
T03ERB25-080AA	Collet ER25-08AA	8.0~7.0	0.3150~0.2756"
T03ERB25-090AA	Collet ER25-09AA	9.0~8.0	0.3543~0.3150"
T03ERB25-100AA	Collet ER25-10AA	10.0~9.0	0.3937~0.3543"
T03ERB25-110AA	Collet ER25-11AA	11.0~10.0	0.4330~0.3937"
T03ERB25-120AA	Collet ER25-12AA	12.0~11.0	0.4724~0.4330"
T03ERB25-130AA	Collet ER25-13AA	13.0~12.0	0.5118~0.4724"
T03ERB25-140AA	Collet ER25-14AA	14.0~13.0	0.5512~0.5118"
T03ERB25-150AA	Collet ER25-15AA	15.0~14.0	0.5905~0.5512"
T03ERB25-160AA	Collet ER25-16AA	16.0~15.0	0.6300~0.5905"

ER8 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB8A031AA	Collet ER8-1/8"AA	7/64~1/8"
T03ERB8A040AA	Collet ER8-5/32"AA	9/64~5/32"
T03ERB8A047AA	Collet ER8-3/16"AA	5/32~3/16"

ER11 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB11A031AA	Collet ER11-1/8"AA	5/64~1/8"
T03ERB11A040AA	Collet ER11-5/32"AA	1/8~5/32"
T03ERB11A047AA	Collet ER11-3/16"AA	5/32~3/16"
T03ERB11A055AA	Collet ER11-7/32"AA	3/16~7/32"
T03ERB11A063AA	Collet ER11-1/4"AA	7/32~1/4"

ER16 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB16A031AA	Collet ER16-1/8"AA	5/64~1/8"
T03ERB16A040AA	Collet ER16-5/32"AA	1/8~5/32"
T03ERB16A047AA	Collet ER16-3/16"AA	5/32~3/16"
T03ERB16A055AA	Collet ER16-7/32"AA	3/16~7/32"
T03ERB16A063AA	Collet ER16-1/4"AA	7/32~1/4"
T03ERB16A071AA	Collet ER16-9/32"AA	1/4~9/32"
T03ERB16A079AA	Collet ER16-5/16"AA	9/32~5/16"
T03ERB16A087AA	Collet ER16-11/32"AA	5/16~11/32"
T03ERB16A095AA	Collet ER16-3/8"AA	11/32~3/8"
T03ERB16A103AA	Collet ER16-13/32"AA	3/8~13/32"

ER20 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB20A031AA	Collet ER20-1/8"AA	5/64~1/8"
T03ERB20A040AA	Collet ER20-5/32"AA	1/8~5/32"
T03ERB20A047AA	Collet ER20-3/16"AA	5/32~3/16"
T03ERB20A055AA	Collet ER20-7/32"AA	3/16~7/32"
T03ERB20A063AA	Collet ER20-1/4"AA	3/16~1/4"
T03ERB20A071AA	Collet ER20-9/32"AA	1/4~9/32"
T03ERB20A079AA	Collet ER20-5/16"AA	9/32~5/16"
T03ERB20A087AA	Collet ER20-11/32"AA	5/16~11/32"
T03ERB20A095AA	Collet ER20-3/8"AA	11/32~3/8"
T03ERB20A103AA	Collet ER20-13/32"AA	11/32~13/32"
T03ERB20A111AA	Collet ER20-7/16"AA	13/32~7/16"
T03ERB20A119AA	Collet ER20-15/32"AA	7/16~15/32"
T03ERB20A127AA	Collet ER20-1/2"AA	15/32~1/2"

ER25 COLLET INCH		
Order Number	Part Name	Clamping Range
T03ERB25A031AA	Collet ER25-1/8"AA	5/64~1/8"
T03ERB25A040AA	Collet ER25-5/32"AA	1/8~5/32"
T03ERB25A047AA	Collet ER25-3/16"AA	5/32~3/16"
T03ERB25A055AA	Collet ER25-7/32"AA	3/16~7/32"
T03ERB25A063AA	Collet ER25-1/4"AA	3/16~1/4"
T03ERB25A071AA	Collet ER25-9/32"AA	1/4~9/32"
T03ERB25A079AA	Collet ER25-5/16"AA	9/32~5/16"
T03ERB25A087AA	Collet ER25-11/32"AA	5/16~11/32"
T03ERB25A095AA	Collet ER25-3/8"AA	11/32~3/8"
T03ERB25A103AA	Collet ER25-13/32"AA	11/32~13/32"
T03ERB25A111AA	Collet ER25-7/16"AA	13/32~7/16"
T03ERB25A119AA	Collet ER25-15/32"AA	7/16~15/32"
T03ERB25A127AA	Collet ER25-1/2"AA	15/32~1/2"
T03ERB25A135AA	Collet ER25-17/32"AA	1/2~17/32"

## ER COLLET - T03

AA CLASS

## ER32 COLLET METRIC

Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB32-030AA	Collet ER32-03AA	3.0~2.0	0.1181~0.0787"
T03ERB32-040AA	Collet ER32-04AA	4.0~3.0	0.1575~0.1181"
T03ERB32-050AA	Collet ER32-05AA	5.0~4.0	0.1969~0.1575"
T03ERB32-060AA	Collet ER32-06AA	6.0~5.0	0.2362~0.1969"
T03ERB32-070AA	Collet ER32-07AA	7.0~6.0	0.2756~0.2362"
T03ERB32-080AA	Collet ER32-08AA	8.0~7.0	0.3150~0.2756"
T03ERB32-090AA	Collet ER32-09AA	9.0~8.0	0.3543~0.3150"
T03ERB32-100AA	Collet ER32-10AA	10.0~9.0	0.3937~0.3543"
T03ERB32-110AA	Collet ER32-11AA	11.0~10.0	0.4330~0.3937"
T03ERB32-120AA	Collet ER32-12AA	12.0~11.0	0.4724~0.4330"
T03ERB32-130AA	Collet ER32-13AA	13.0~12.0	0.5118~0.4724"
T03ERB32-140AA	Collet ER32-14AA	14.0~13.0	0.5512~0.5118"
T03ERB32-150AA	Collet ER32-15AA	15.0~14.0	0.5905~0.5512"
T03ERB32-160AA	Collet ER32-16AA	16.0~15.0	0.6300~0.5905"
T03ERB32-170AA	Collet ER32-17AA	17.0~16.0	0.6693~0.6300"
T03ERB32-180AA	Collet ER32-18AA	18.0~17.0	0.7087~0.6693"
T03ERB32-190AA	Collet ER32-19AA	19.0~18.0	0.7480~0.7087"
T03ERB32-200AA	Collet ER32-20AA	20.0~19.0	0.7874~0.7480"

## ER40 COLLET METRIC

Order Number	Part Name	Clamping Range	
		Metric	Inch
T03ERB40-030AA	Collet ER40-03AA	3.0~2.0	0.1181~0.0787"
T03ERB40-040AA	Collet ER40-04AA	4.0~3.0	0.1575~0.1181"
T03ERB40-050AA	Collet ER40-05AA	5.0~4.0	0.1969~0.1575"
T03ERB40-060AA	Collet ER40-06AA	6.0~5.0	0.2362~0.1969"
T03ERB40-070AA	Collet ER40-07AA	7.0~6.0	0.2756~0.2362"
T03ERB40-080AA	Collet ER40-08AA	8.0~7.0	0.3150~0.2756"
T03ERB40-090AA	Collet ER40-09AA	9.0~8.0	0.3543~0.3150"
T03ERB40-100AA	Collet ER40-10AA	10.0~9.0	0.3937~0.3543"
T03ERB40-110AA	Collet ER40-11AA	11.0~10.0	0.4330~0.3937"
T03ERB40-120AA	Collet ER40-12AA	12.0~11.0	0.4724~0.4330"
T03ERB40-130AA	Collet ER40-13AA	13.0~12.0	0.5118~0.4724"
T03ERB40-140AA	Collet ER40-14AA	14.0~13.0	0.5512~0.5118"
T03ERB40-150AA	Collet ER40-15AA	15.0~14.0	0.5905~0.5512"
T03ERB40-160AA	Collet ER40-16AA	16.0~15.0	0.6300~0.5905"
T03ERB40-170AA	Collet ER40-17AA	17.0~16.0	0.6693~0.6300"
T03ERB40-180AA	Collet ER40-18AA	18.0~17.0	0.7087~0.6693"
T03ERB40-190AA	Collet ER40-19AA	19.0~18.0	0.7480~0.7087"
T03ERB40-200AA	Collet ER40-20AA	20.0~19.0	0.7874~0.7480"
T03ERB40-210AA	Collet ER40-21AA	21.0~20.0	0.8268~0.7874"
T03ERB40-220AA	Collet ER40-22AA	22.0~21.0	0.8661~0.8268"
T03ERB40-230AA	Collet ER40-23AA	23.0~22.0	0.9055~0.8661"
T03ERB40-240AA	Collet ER40-24AA	24.0~23.0	0.9449~0.9055"
T03ERB40-250AA	Collet ER40-25AA	25.0~24.0	0.9843~0.9449"
T03ERB40-260AA	Collet ER40-26AA	26.0~25.0	1.0236~0.9843"

## ER25 COLLET INCH

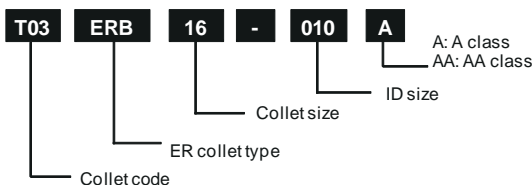
Order Number	Part Name	Clamping Range
T03ERB25A142AA	Collet ER25-9/16"AA	17/32~9/16"
T03ERB25A150AA	Collet ER25-19/32"AA	9/16~19/32"
T03ERB25A158AA	Collet ER25-5/8"AA	19/32~5/8"

## ER32 COLLET INCH

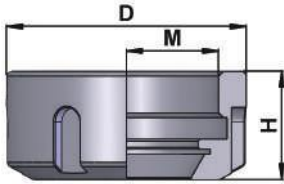
Order Number	Part Name	Clamping Range
T03ERB32A031AA	Collet ER32-1/8"AA	5/64~1/8"
T03ERB32A040AA	Collet ER32-5/32"AA	1/8~5/32"
T03ERB32A047AA	Collet ER32-3/16"AA	5/32~3/16"
T03ERB32A055AA	Collet ER32-7/32"AA	3/16~7/32"
T03ERB32A063AA	Collet ER32-1/4"AA	3/16~1/4"
T03ERB32A071AA	Collet ER32-9/32"AA	1/4~9/32"
T03ERB32A079AA	Collet ER32-5/16"AA	9/32~5/16"
T03ERB32A087AA	Collet ER32-11/32"AA	5/16~11/32"
T03ERB32A095AA	Collet ER32-3/8"AA	11/32~3/8"
T03ERB32A103AA	Collet ER32-13/32"AA	11/32~13/32"
T03ERB32A111AA	Collet ER32-7/16"AA	13/32~7/16"
T03ERB32A119AA	Collet ER32-15/32"AA	7/16~15/32"
T03ERB32A127AA	Collet ER32-1/2"AA	15/32~1/2"
T03ERB32A135AA	Collet ER32-17/32"AA	1/2~17/32"
T03ERB32A142AA	Collet ER32-9/16"AA	17/32~9/16"
T03ERB32A150AA	Collet ER32-19/32"AA	9/16~19/32"
T03ERB32A158AA	Collet ER32-5/8"AA	19/32~5/8"
T03ERB32A166AA	Collet ER32-21/32"AA	5/8~21/32"
T03ERB32A174AA	Collet ER32-11/16"AA	21/32~11/16"
T03ERB32A182AA	Collet ER32-23/32"AA	11/16~23/32"
T03ERB32A190AA	Collet ER32-3/4"AA	23/32~3/4"
T03ERB32A198AA	Collet ER32-25/32"AA	3/4~25/32"

## ER40 COLLET INCH

Order Number	Part Name	Clamping Range
T03ERB40A031AA	Collet ER40-1/8"AA	5/64~1/8"
T03ERB40A040AA	Collet ER40-5/32"AA	1/8~5/32"
T03ERB40A047AA	Collet ER40-3/16"AA	5/32~3/16"
T03ERB40A055AA	Collet ER40-7/32"AA	3/16~7/32"
T03ERB40A063AA	Collet ER40-1/4"AA	3/16~1/4"
T03ERB40A071AA	Collet ER40-9/32"AA	1/4~9/32"
T03ERB40A079AA	Collet ER40-5/16"AA	9/32~5/16"
T03ERB40A087AA	Collet ER40-11/32"AA	5/16~11/32"
T03ERB40A095AA	Collet ER40-3/8"AA	11/32~3/8"
T03ERB40A103AA	Collet ER40-13/32"AA	11/32~13/32"
T03ERB40A111AA	Collet ER40-7/16"AA	13/32~7/16"
T03ERB40A119AA	Collet ER40-15/32"AA	7/16~15/32"
T03ERB40A127AA	Collet ER40-1/2"AA	15/32~1/2"
T03ERB40A135AA	Collet ER40-17/32"AA	1/2~17/32"
T03ERB40A142AA	Collet ER40-9/16"AA	17/32~9/16"
T03ERB40A150AA	Collet ER40-19/32"AA	9/16~19/32"
T03ERB40A158AA	Collet ER40-5/8"AA	19/32~5/8"
T03ERB40A166AA	Collet ER40-21/32"AA	5/8~21/32"
T03ERB40A174AA	Collet ER40-11/16"AA	21/32~11/16"
T03ERB40A182AA	Collet ER40-23/32"AA	11/16~23/32"
T03ERB40A190AA	Collet ER40-3/4"AA	23/32~3/4"
T03ERB40A198AA	Collet ER40-25/32"AA	3/4~25/32"
T03ERB40A206AA	Collet ER40-13/16"AA	25/32~13/16"
T03ERB40A214AA	Collet ER40-27/32"AA	13/16~27/32"
T03ERB40A222AA	Collet ER40-7/8"AA	27/32~7/8"
T03ERB40A230AA	Collet ER40-29/32"AA	7/8~29/32"
T03ERB40A238AA	Collet ER40-15/16"AA	29/32~15/16"
T03ERB40A246AA	Collet ER40-31/32"AA	15/16~31/32"
T03ERB40A254AA	Collet ER40-1"AA	31/32~1"



## ER CLAMPING NUT - T04



Mini



Hex



Spanner



Ball Bearing

## ER MINI NUT - w/ PrimeTool unique concentric balanced design - HSM

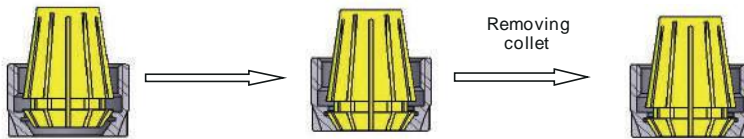
Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR08-M1A	ER08 Mini Nut	ER08	12	10.8	M10x0.75	Mini	T07ER0803	
T04RR11-M1A	ER11 Mini Nut	ER11	16	12.0	M13x0.75	Mini	T07ER1103	
T04RR16-M1A	ER16 Mini Nut	ER16	22	18.4	M19x1.00	Mini	T07ER1603	
T04RR20-M1A	ER20 Mini Nut	ER20	28	19.0	M24x1.00	Mini	T07ER2003	

## ER MINI BALANCED NUT, BALANCED (&lt;1g-mm) - w/PrimeTool unique concentric balanced design - HSM

Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR08-M2A	ER08-HB,Mini Nut	ER08	12	10.8	M10x0.75	Mini	T07ER0803	
T04RR11-M2A	ER11-HB,Mini Nut	ER11	16	12.0	M13x0.75	Mini	T07ER1103	
T04RR16-M2A	ER16-HB,Mini Nut	ER16	22	18.4	M19x1.00	Mini	T07ER1603	
T04RR20-M2A	ER20-HB,Mini Nut	ER20	28	19.0	M24x1.00	Mini	T07ER2003	

## Assembly with ER collet

1. Push collet into the nut as shown in the Diagram below



Concentric Design

Complete assembly

1. Push collet out from nut in direction of arrow

## ER NUT

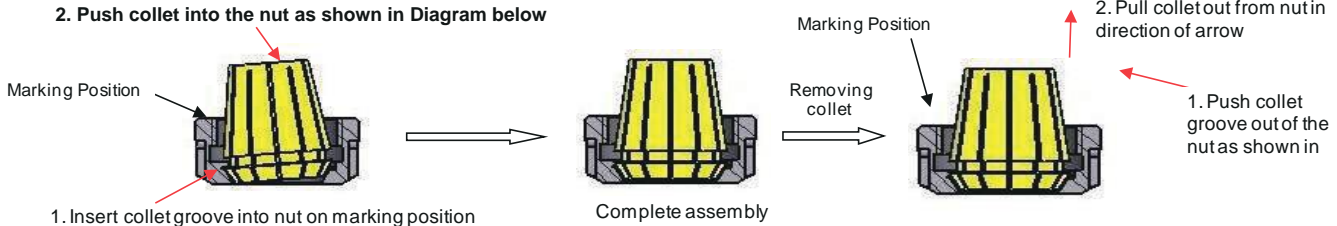
Order Number	Part Name	Collet	D	H	M	wrench		remark
T04ER11-H1A	ER11 Nut,Hex	ER11	19	11.3	M14x0.75	Hex	T07ER1101	
T04ER16-H1A	ER16 Nut, Hex	ER16	28	17.5	M22x1.50	Hex	T07ER1601	
T04ER20-H1A	ER20 Nut,Hex	ER20	34	19.0	M25x1.50	Hex	T07ER2001	
T04ER20-D1A	ER20 Nut,Spanner	ER20	35	19.0	M25x1.50	IR	T07ER2004	
T04ER25-D1A	ER25 Nut	ER25	42	20.0	M32x1.50	ER	T07ER2502	
T04ER32-D1A	ER32 Nut	ER32	50	22.5	M40x1.50	ER	T07ER3202	
T04ER40-D1A	ER40 Nut	ER40	63	25.5	M50x1.50	ER	T07ER4002	

## ER BALANCED NUT, BALANCED (&lt;1g-mm)

Order Number	Part Name	Collet	D	H	M	wrench		remark
T04ER11-H2A	ER11-HB Nut	ER11	19	11.3	M14x0.75	Hex	T07ER1101	
T04ER16-H2A	ER16-HB Nut	ER16	28	17.5	M22x1.50	Hex	T07ER1601	
T04ER20-H2A	ER20-HB Nut	ER20	34	19.0	M25x1.50	Hex	T07ER2001	
T04ER20-D2A	ER20-HB Nut,Spanner	ER20	35	19.0	M25x1.50	IR	T07ER2004	
T04ER25-D2A	ER25-HB Nut	ER25	42	20.0	M32x1.50	ER	T07ER2502	
T04ER32-D2A	ER32-HB Nut	ER32	50	22.5	M40x1.50	ER	T07ER3202	
T04ER40-D2A	ER40-HB Nut	ER40	63	25.5	M50x1.50	ER	T07ER4002	

## Assembly with ER collet

2. Push collet into the nut as shown in Diagram below



1. Insert collet groove into nut on marking position

Complete assembly

1. Push collet groove out of the nut as shown in

2. Pull collet out from nut in direction of arrow

## ER CLAMPING NUT - T04

## ER RR Nut - w/PrimeTool Unique concentric balanced design - HSM

Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR11-H1A	ER11-RR Nut	ER11	19	11.3	M14x0.75	Hex	T07ER1101	
T04RR16-H1A	ER16-RR Nut	ER16	28	17.5	M22x1.50	Hex	T07ER1601	
T04RR20-H1A	ER20-RR Nut	ER20	34	19.0	M25x1.50	Hex	T07ER2001	
T04RR25-D1A	ER25-RR Nut	ER25	42	20.0	M32x1.50	ER	T07ER2502	
T04RR32-D1A	ER32-RR Nut	ER32	50	22.5	M40x1.50	ER	T07ER3202	
T04RR40-D1A	ER40-RR Nut	ER40	63	25.5	M50x1.50	ER	T07ER4002	

## ER RR BALANCED NUT - BALANCED (&lt;1g-mm) - w/PrimeTool unique concentric balanced design - HSM

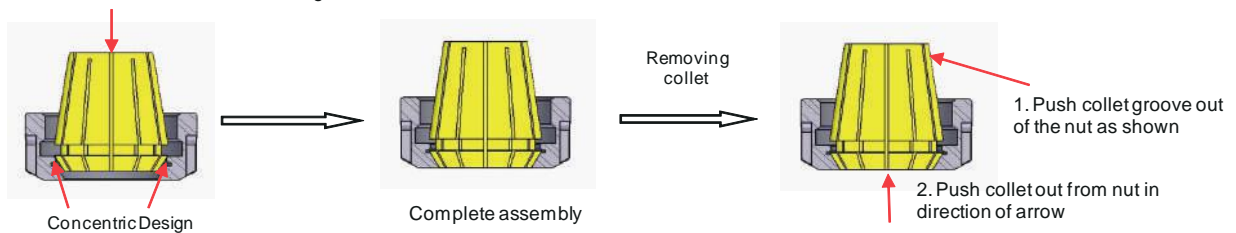
Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR11-H2A	ER11-RR-HB Nut	ER11	19	11.3	M14x0.75	Hex	T07ER1101	
T04RR16-H2A	ER16-RR-HB Nut	ER16	28	17.5	M22x1.50	Hex	T07ER1601	
T04RR20-H2A	ER20-RR-HB Nut	ER20	34	19.0	M25x1.50	Hex	T07ER2001	
T04RR25-D2A	ER25-RR-HB Nut	ER25	42	20.0	M32x1.50	ER	T07ER2502	
T04RR32-D2A	ER32-RR-HB Nut	ER32	50	22.5	M40x1.50	ER	T07ER3202	
T04RR40-D2A	ER40-RR-HB Nut	ER40	63	25.5	M50x1.50	ER	T07ER4002	

## PrimeTool unique concentric design:

1. Concentric design eliminates imbalance from standard clamping nut.
2. Easy to assemble ER collet. Push ER collet into ER nut with one step.
3. The collet will not fall out when properly in the nut.
4. Unique design for High Speed Machining

## Assembly with ER collet

1. Push collet into the nut as shown in diagram below



## ER BALL BEARING NUT - w/ PrimeTool unique concentric balanced design - HSM

Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR25-D1A-BB	ER25-BB, Ball Bearing Nut	ER25	42	20.0	M32x1.50	ER	T07ER2502	
T04RR32-D1A-BB	ER32-BB, Ball Bearing Nut	ER32	50	22.5	M40x1.50	ER	T07ER3202	
T04RR40-D1A-BB	ER40-BB, Ball Bearing Nut	ER40	63	25.5	M50x1.50	ER	T07ER4002	

## Feature:

1. PrimeTool Unique Concentric Design.
2. Precision ball bearing assemble. Smoothly working.



Ball bearing nut



Ball bearing nut

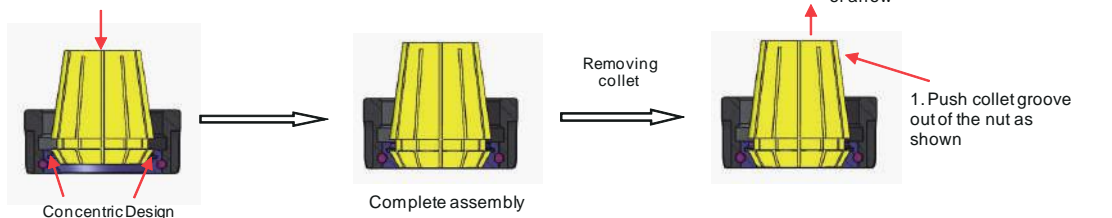
Steel ball



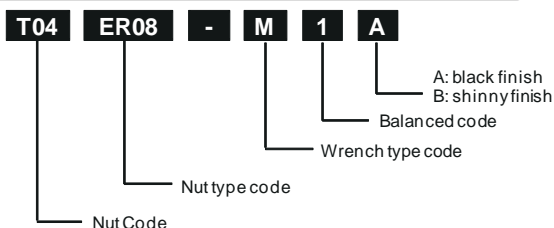
ER Spanner

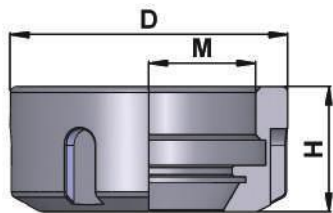
## Assembly with ER collet

1. Push collet into the nut as shown in Diagram below



## Order Number Instruction





Mini



Hex



Spanner



Ball Bearing

**ER COOLANT MINI NUT w/sealing coolant -w/ PrimeTool unique concentric design - HSM**

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR08-M1AC	ER08C,Coolant Mini Nut	ER08	12	10.8	M10x0.75	Mini	T07ER0803
T04RR11-M1AC	ER11C,Coolant Mini Nut	ER11	16	12.0	M13x0.75	Mini	T07ER1103
T04RR16-M1AC	ER16C,Coolant Mini Nut	ER16	22	18.4	M19x1.00	Mini	T07ER1603
T04RR20-M1AC	ER20C,Coolant Mini Nut	ER20	28	19.0	M24x1.00	Mini	T07ER2003

**ER COOLANT MINI NUT HIGH BALANCED - w/sealing coolant w/ Primetool unique concentric Design - HSM**

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR08-M2AC	ER08C-HB, Coolant Mini Nut	ER08	12	10.8	M10x0.75	Mini	T07ER0803
T04RR11-M2AC	ER11C-HB, Coolant Mini Nut	ER11	16	12.0	M13x0.75	Mini	T07ER1103
T04RR16-M2AC	ER16C-HB, Coolant Mini Nut	ER16	22	18.4	M19x1.00	Mini	T07ER1603
T04RR20-M2AC	ER20C-HB, Coolant Mini Nut	ER20	28	19.0	M24x1.00	Mini	T07ER2003

**ER RR COOLANT NUT w/sealing coolant - w/ PrimeTool unique concentric design - HSM**

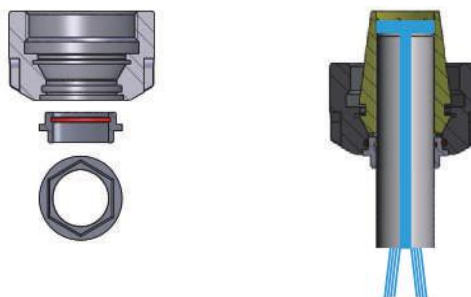
Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR11-H1AC	ER11C, Coolant Nut,Hex	ER11	19		M14x0.75	Hex	T07ER1101
T04RR16-H1AC	ER16C, Coolant Nut,Hex	ER16	28		M22x1.50	Hex	T07ER1601
T04RR20-H1AC	ER20C, Coolant Nut,Hex	ER20	34		M25x1.50	Hex	T07ER2001
T04RR25-H1AC	ER25C, Coolant Nut	ER25	42		M32x1.50	Spanner	T07ER2502
T04RR32-H1AC	ER32C, Coolant Nut	ER32	50		M40x1.50	Spanner	T07ER3202
T04RR40-H1AC	ER40C, Coolant Nut	ER40	63		M50x1.50	Spanner	T07ER4002

**ER RR COOLANT NUT HIGH-BALANCED (<2g-mm) - w/sealing coolant - w/PrimeTool unique concentric design - HSM**

Order Number	Part Name	Collet	D	H	M	wrench	remark
T04RR11-H2AC	ER11C-HB, Coolant Nut,Hex	ER11	19		M14x0.75	Hex	T07ER1101
T04RR16-H2AC	ER16C-HB, Coolant Nut,Hex	ER16	28		M22x1.50	Hex	T07ER1601
T04RR20-H2AC	ER20C-HB, Coolant Nut,Hex	ER20	34		M25x1.50	Hex	T07ER2001
T04RR25-H2AC	ER25C-HB, Coolant Nut	ER25	42		M32x1.50	Spanner	T07ER2502
T04RR32-H2AC	ER32C-HB, Coolant Nut	ER32	50		M40x1.50	Spanner	T07ER3202
T04RR40-H2AC	ER40C-HB, Coolant Nut	ER40	63		M50x1.50	Spanner	T07ER4002

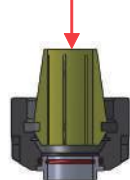
Feature:

1. PrimeTool Unique Concentric Design.
2. Coolant pressure: up to 1500psi ( 103 bar ).



**Assembly with ER collet**

1. Push collet into the nut as shown in Diagram below



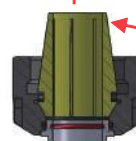
Concentric Design



Complete Assembly



Removing collet



2. Pull collet out from nut in direction of arrow

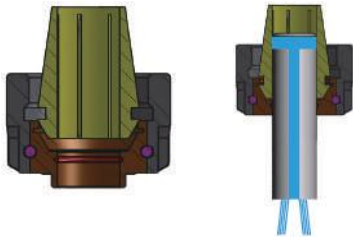
1. Push collet groove out of the nut as shown



ER CLAMPING NUT **COOLANT - T04**

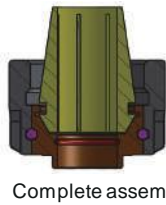
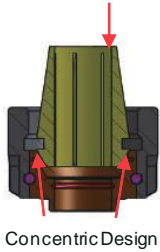
ER BALL BEARING COOLANT NUT **BALL BEARING- w/Coolant Sealing**

Order Number	Part Name	Collet	D	H	M	wrench		remark
T04RR25-D1AC-BB	ER25-BB,Ball Bearing Nut	ER25	42	20	M32x1.50	Spanner	T07ER2502	
T04RR32-D1AC-BB	ER32-BB,Ball Bearing Nut	ER32	50	22.5	M40x1.50	Spanner	T07ER3202	
T04RR40-D1AC-BB	ER40-BB,Ball Bearing Nut	ER40	63	25.5	M50x1.50	Spanner	T07ER4002	

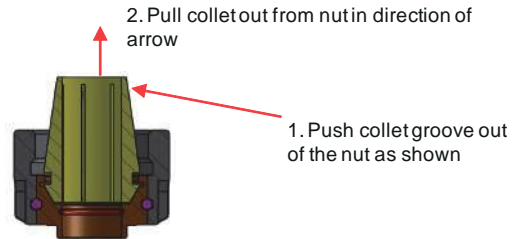


Assembly with ER collet

1. Push collet into the nut as shown in Diagram below



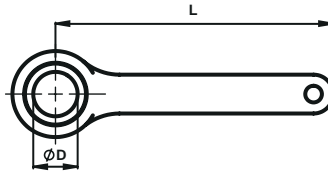
Removing collet



**WRENCH - T07**

**Quality**

- Forged-alloy steel
- Case-hardened heat treatment



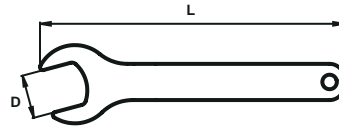
**MINI WRENCH**

**MINI WRENCH BEARING WITH ONE-WAY CLUTCHES**

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07ER0805	ER08 MINI WRENCH	12	100	ER08M	YES	YES	
T07ER1105	ER11 MINI WRENCH	16	100	ER11M	YES	YES	
T07ER1605	ER16 MINI WRENCH	22	120	ER16M	YES	NO	
T07ER2005	ER20 MINI WRENCH	28	120	ER20M	YES	NO	

**Quality**

- Forged-alloy steel
- Case-hardened heat treatment



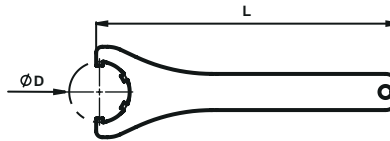
**HEX WRENCH**

**HEX WRENCH**

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07ER0801	IR08 HEX WRENCH	11	165	ER11 HEX	YES	YES	
T07ER8S01	IR8S HEX WRENCH	15	165	ER11 HEX	YES	YES	
T07ER1101	ER11 HEX WRENCH	17	165	ER11 HEX	YES	YES	
T07ER1601	ER16 HEX WRENCH	25	204	ER16 HEX	YES	YES	
T07ER2001	ER20 HEX WRENCH	30	210	ER20 HEX	YES	YES	

**Quality**

- Forged-alloy steel
- Case-hardened heat treatment



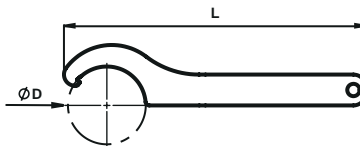
**ER WRENCH**

**ER WRENCH**

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07ER2502	ER25 WRENCH	42	210	ER25	YES	REDUCTION O	
T07ER3202	ER32 WRENCH	50	250	ER32	YES	REDUCTION O	
T07ER4002	ER40 WRENCH	63	290	ER40	YES	REDUCTION O	

**Quality**

- Forged-alloy steel
- Case-hardened heat treatment

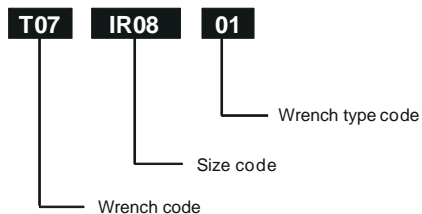


**IR WRENCH**

**IR WRENCH**

Order Number	Part Name	D	L	NUT	STANDARD	I SYSTEM	remark
T07ER2004	IR20 WRENCH	34	203	ER20	YES	YES	
T07ER2504	IR25 WRENCH	42	205	ER25	YES	YES	
T07ER3204	IR32 WRENCH	50	240	ER32	YES	YES	
T07ER4004	IR40 WRENCH	63	245	ER40	YES	YES	
T07ER4104	IR41 WRENCH	70	250	NO	NO	YES	
T07ER4204	IR42 WRENCH	85	256	NO	NO	YES	

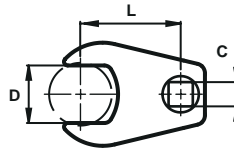
**Order Number Instruction**



**WRENCH DRIVE KEY - T07 TORQUE WRENCH ADAPTOR**

**Quality**

- Forged-alloy steel
- Case-hardened heat treatment



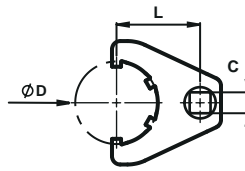
**HEX WRENCH ADAPTOR**

**HEX WRENCH ADAPTOR DRIVE KEY TORQUE WRENCH**

Order Number	Part Name	D	L mm	L inch	C	NUT	STANDARD	I SYSTEM	remark
T07ER0801-D09	IR08 HEX WRENCH 3/8" ADAPTOR	11	50.8	2"	3/8"	NO	NO	YES	
T07ER8S01-D09	IR8S HEX WRENCH 3/8" ADAPTOR	14	50.8	2"	3/8"	NO	NO	YES	
T07ER1101-D09	ER11 HEX WRENCH 3/8" ADAPTOR	17	50.8	2"	3/8"	ER11 HEX	YES	YES	
T07ER1601-D12	ER16 HEX WRENCH 1/2" ADAPTOR	25	50.8	2"	1/2"	ER16 HEX	YES	YES	
T07ER2001-D12	ER20 HEX WRENCH 1/2" ADAPTOR	30	50.8	2"	1/2"	ER20 HEX	YES	YES	

**Quality**

- Forged-alloy steel
- Case-hardened heat treatment



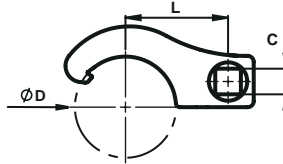
**ER WRENCH ADAPTOR**

**ER WRENCH ADAPTOR DRIVE KEY TORQUE WRENCH**

Order Number	Part Name	D	L mm	L inch	C	NUT	STANDARD	I SYSTEM	remark
T07ER2502-D12	ER 25 WRENCH 1/2" ADAPTOR	42	50.8	2"	1/2"	ER25	YES	YES	
T07ER3202-D12	ER 32 WRENCH 1/2" ADAPTOR	50	50.8	2"	1/2"	ER32	YES	YES	
T07ER4002-D12	ER 40 WRENCH 1/2" ADAPTOR	63	50.8	2"	1/2"	ER40	YES	YES	

**Quality**

- Forged-alloy steel
- Case-hardened heat treatment

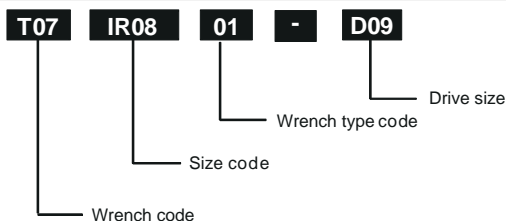


**IR WRENCH ADAPTOR**

**IR WRENCH ADAPTOR DRIVE KEY TORQUE WRENCH**

Order Number	Part Name	D	L mm	L inch	C	NUT	STANDARD	I SYSTEM	remark
T07ER2004-D12	IR20 WRENCH 1/2" ADAPTOR	34	50.8	2"	1/2"	NO	NO	YES	
T07ER2504-D12	IR25 WRENCH 1/2" ADAPTOR	42	50.8	2"	1/2"	ER25	YES	YES	
T07ER3204-D12	IR32 WRENCH 1/2" ADAPTOR	50	50.8	2"	1/2"	ER32	YES	YES	
T07ER4004-D12	IR40 WRENCH 1/2" ADAPTOR	63	50.8	2"	1/2"	ER40	YES	YES	
T07ER4104-D12	IR41 WRENCH 1/2" ADAPTOR	70	76.2	3"	1/2"	NO	NO	YES	
T07ER4204-D12	IR42 WRENCH 1/2" ADAPTOR	83	76.2	3"	1/2"	NO	NO	YES	

**Order Number Instruction**

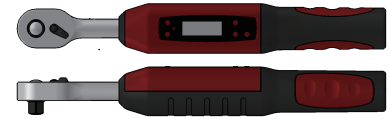
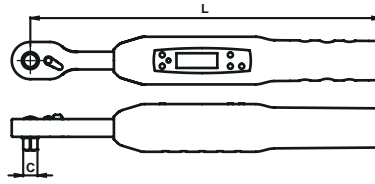


**ACCESSORIES**

**TORQUE WRENCH DIGITAL - T07 DRIVING KEY**

**Quality**

- Unit: N-m, Kg-cm, Kg-m, in-lb, ft-lb
- Peak and Trace mode
- Auto shut off: 80 Seconds
- Alarm: Buzzer and LED
- Preset: 10



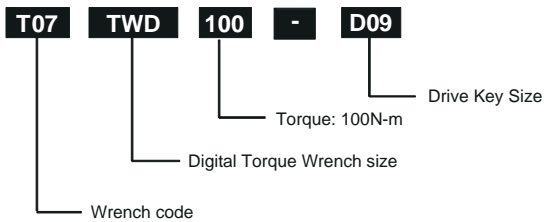
**TORQUE WRENCH DRIVE KEY DIGITAL**

Order Number	Part Name	C inch	L mm	L inch	N-m	ft-lb	remark
T07TWD100-D09	Digital Torque Wrench 100N-m, 3/8"	3/8"	310	12.205"	10-100	7.4-74	
T07TWD200-D12	Digital Torque Wrench 200N-m, 1/2"	1/2"	480	18.898"	20-200	15-147	
T07TWD310-D12	Digital Torque Wrench 340N-m, 1/2"	1/2"	630	24.803"	68-340	50-250	

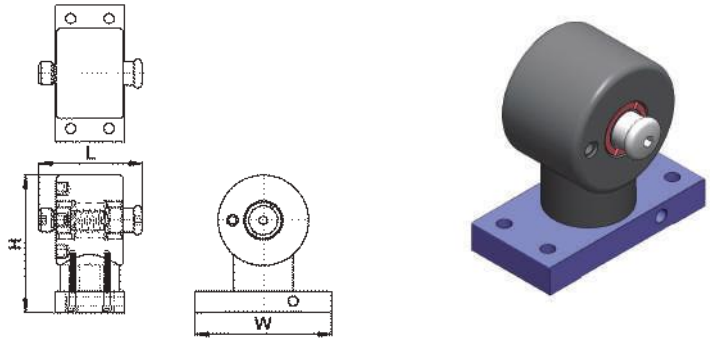
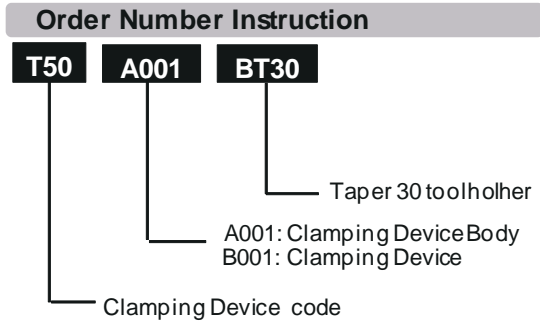


Order Number	Part Name	C inch	L mm	L inch	N-m	ft-lb	remark
T07TWD200V-D12	Digital Torque Wrench 200N-m, 1/2", V	1/2"	480	18.898"	20-200	15-147	

**Order Number Instruction**

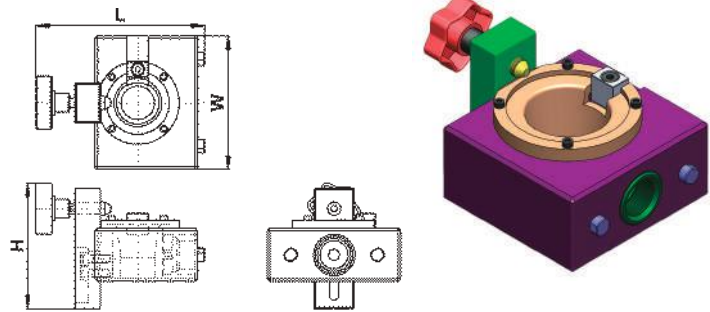


**UNIVERSAL CNC TIGHTENING SYSTEM - T50**



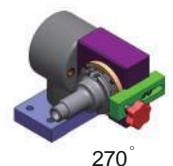
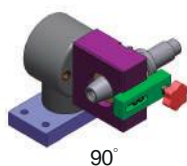
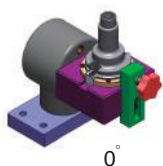
**CLAMPING DEVICE BODY**

Order Number	Part Name	L	W	H
T50-A001	Clamping device body	108	142	143



**CLAMPING DEVICE**

Order Number	Part Name	L	W	H	Taper size				
T50-B001-BT30	Taper 30 clamping device	127	100	91	BT30	ISO30			
T50-B001-BT40	Taper 40 clamping device	142	100	91	BT40	CAT40	ISO40		
T50-B001-BT50	Taper 50 clamping device	169	100	91	BT50	CAT50	ISO50		
T50-B001-BT50-R	Taper 50 clamping device-Rotor	169	100	91	BT50	CAT50	ISO50		
T50-B001-HA32	HSK A32 clamping device	132	100	74	A32	C32			
T50-B001-HA40	HSK A40 clamping device	136	100	74	A40	C40			
T50-B001-HA50	HSK A50 clamping device		100		A50	C50			
T50-B001-HA63	HSK A63 clamping device	142	100	91	A63	C63			
T50-B001-HA80	HSK A80 clamping device		100		A80				
T50-B001-HA100	HSK A100 clamping device	179	100	97	A100				
T50-B001-HA100-R	HSK A100 clamping device w/Rotor	179	100	97	A100				
T50-B001-HA125	HSK A125 clamping device				A125				
T50-B001-HA125-R	HSK A125 clamping device w/Rotor				A125				
T50-B001-HA160-R	HSK A160 clamping device w/Rotor				A160				
T50-B001-HE25	HSK E25 clamping device		100		E25				
T50-B001-HE32	HSK E32 clamping device	132	100	74	E32	A32	F32	C32	
T50-B001-HE40	HSK E40 clamping device	136	100	74	E40	A40	F40	C40	
T50-B001-HE50	HSK E50 clamping device		100		E50	A50	B50	F50	C50
T50-B001-HE63	HSK E63 clamping device	142	100	91	E63	A63	B63	F63	C63
T50-B001-KM32	KM 32 clamping device	132	100	74	KM32	KZ32			
T50-B001-KM40	KM 40 clamping device	136	100	74	KM40	KZ40			
T50-B001-KM50	KM 50 clamping device		100		KM50	KZ50			
T50-B001-KM63	KM 63 clamping device	142	100	91	KM63	KZ63			
T50-B001-PSC32	PSC C32 clamping device	132	100	74	PSC C32				
T50-B001-PSC40	PSC C40 clamping device	136	100	74	PSC C40				
T50-B001-PSC50	PSC C50 clamping device		100		PSC C50				
T50-B001-PSC63	PSC C63 clamping device	142	100	91	PSC C63				
T50-B001-PSC80	PSC C80 clamping device				PSC C80				



# Toolholder balancing ring - Sample Adjusting Process

Toolholder	Dynamic balancing w/o tool	Imbalance (g-mm)	Weight (g)	Weight-removed position (degree)	Date	2007/3/1
BT40 ER20-060	G2.5, 25000rpm	5.7	0.21	103.2		

## Imbalance adjusting process



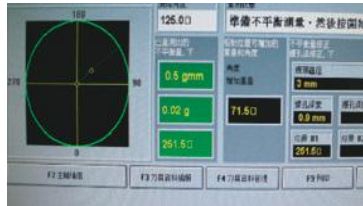
Before adjusting

Attach balancing ring and set screws  
Patent pending

After adjusting



Before adjusting



After adjusting

