



PRECISE AFFORDABLE CONSISTENT

PRECISION TOOLS USA

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PRECISE ✓

AFFORDABLE ✓

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TOOL HOLDERS & ACCESSORIES







TOOL HOLDERS

TOOLING PACKAGES



PG: 08

ER COLLET HOLDERS - CAT & BT



PG: 09-13

ER COLLET HOLDERS **DUAL-CONTACT** - CAT & BT



PG: 14-17

ER COLLET HOLDERS - HSK-A TAPER



PG: 18-21

END MILL HOLDERS - CAT & BT



PG: 22-28

END MILL HOLDERS **DUAL-CONTACT** - CAT & BT



PG: 29-31

END MILL HOLDERS - HSK TAPER



PG: 32-36

SHRINKFIT HOLDERS



PG: 37-43

SHRINKFIT HOLDERS **DUAL-CONTACT**



PG: 44-52

FACE MILL HOLDER - CAT & BT



PG: 53-56

FACE MILL HOLDER - **DUAL-CONTACT** - CAT & BT



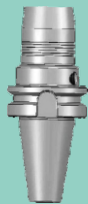
PG: 57-60

FACEMILL HOLDERS - HSK TAPER



PG: 61-64

HYDRAULIC HOLDERS



PG: 65-68

POWER MILLING CHUCKS



PG: 69-70

POWER MILLING CHUCKS - **DUAL CONTACT**



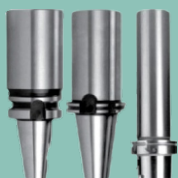
PG: 71-72

QUICK CHANGE TAPPING HOLDERS - RIGID & TENSION - COMPRESSION



PG: 73-78

TOOL HOLDER BLANKS



PG: 79

ER STRAIGHT SHANK HOLDER



PG: 80-84

DOUBLE ENDED ER STRAIGHT SHANK HOLDERS



PG: 85



COLLETS

<p>ER COLLETS</p>  <p>PG: 86-93</p>	<p>ER COLLET SET</p>  <p>PG: 94</p>	<p>ER STEEL SEALED COLLETS</p>  <p>PG: 95-98</p>	<p>ER STEEL SEALED COLLET SET</p>  <p>PG: 99</p>
<p>ER COOL BLAST COLLETS (JET SPRAY)</p>  <p>PG:100-102</p>	<p>ER COOL BLAST COLLETS SET</p>  <p>PG: 103</p>	<p>ER TAP COLLETS</p>  <p>PG: 104-106</p>	<p>ER TAP COLLETS SET</p>  <p>PG: 107</p>
<p>ER TAP STEEL SEALED COLLETS</p>  <p>PG:108-110</p>	<p>ER TAP STEEL SEALED COLLET SET</p>  <p>PG: 111</p>	<p>ER FLOATING TAP COLLETS</p>  <p>PG: 112-114</p>	<p>ER QUICK CHANGE TAP COLLETS</p>  <p>PG: 115-117</p>
<p>DNA (DEAD NUTS ACCURATE) OR RTX COLLETS</p>  <p>PG: 118-120</p>	<p>SK COLLETS</p>  <p>PG: 121-123</p>	<p>SK COLLET SET</p>  <p>PG: 124</p>	<p>DA COLLETS</p>  <p>PG: 125-127</p>
<p>DA SEALED COLLETS</p>  <p>PG: 128-130</p>	<p>DA COLLET SET</p>  <p>PG: 131</p>	<p>TG COLLETS</p>  <p>PG: 132-135</p>	<p>TG SEALED COLLETS</p>  <p>PG: 136-139</p>

TG TAP COLLETS



PG: 140-141

TG COLLET SET



PG: 142

AF COLLETS



PG: 143-146

OZ (EOC) COLLETS



PG: 147-149

OZ (EOC) SEALED COLLETS



PG: 150-152

STRAIGHT COLLET - FOR POWER MILLING CHUCK



PG: 153

COLLETS FOR HYDRAULIC HOLDERS/REDUCTION SLEEVES



PG: 154-155

MILLING & REDUCTION SLEEVE SET



PG: 156

QUICK CHANGE TAP ADAPTERS/COLLETS



PG: 157-161

TAP ADAPTERS SET



PG: 162

R8 COLLETS



PG: 163-164

5C COLLETS



PG: 165-166

5C COLLET SET



PG: 167

16C COLLETS



PG: 168-170

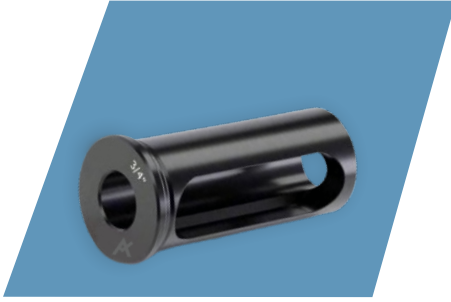
3J COLLETS



PG: 171-173



CONTENT



TOOL HOLDERS BUSHINGS/ TURRET SLEEVES

**TYPE-C
BUSHINGS**



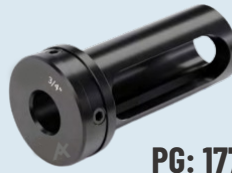
PG: 174-176

**TYPE-CS
BUSHINGS**



PG: 176-177

**TYPE-Z
BUSHINGS**



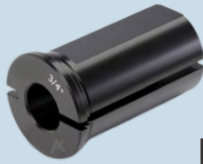
PG: 177-178

**TYPE-J
BUSHINGS**



PG: 178-179

**TYPE-B
BUSHINGS**



PG: 180

**BORING BAR
SLEEVES**



PG: 181-182

CONTENT



RETENTION KNOBS-PULL STUDS

**CAT RETENTION
KNOBS**



PG: 187-190

**BT RETENTION
KNOBS**



PG: 183-186



CONTENT



CNC LIVE & DEAD CENTERS

CNC HEAVY DUTY LIVE CENTERS



PG: 192-197

SMALL CASING MEDIUM DUTY CNC LIVE CENTERS



PG: 198-199

SLIMLINE MEDIUM DUTY CNC LIVE CENTERS



PG: 200-201

CNC DEAD CENTERS



PG: 202-204

CONTENT



OTHER MACHINE TOOLS ACCESSORIES

ER NUT



PG: 205

ER WRENCH



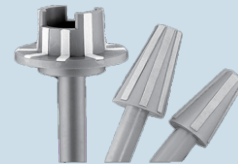
PG: 206-207

TOOL LOCKING DEVICE



PG: 208

SPINDLE WIPER



PG: 209

TOOLING PACKAGES

TOOLING PACKAGES



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Call us or our Distributor
FOR TOOLING PACKAGES

Make your own custom package

ER COLLET HOLDERS CAT & BT



Each holder comes with Inspection Certificate.
PAC Certified For Quality.

PAC CERTIFIED QUALITY



PAC Holders are surface treated,
preventing corrosion.

CORROSION PROTECTION



**E-COMMERCE
WEB PAGE**



FEATURES :

- Balanced to 25,000 RPM at G2.5
- Flange Coolant AD+B feature is standard in all CAT holders
- Corrosion Proof - all holders have special rust preventive coating
- Accuracy: 0.0001" TIR or better
- AT3 Class Taper
- Thru-tool coolant feature is standard
- High precision pilot holes
- Hardness: HRC 56-58
- Carbon depth: 0.8mm +/-0.2mm
- Surface Roughness: Ra<0.005mm
- Crafted from case hardened alloy steel
- Nuts are individually Balanced to 25,000 RPM



PG. 86



PG. 205



PG. 183



PG. 206



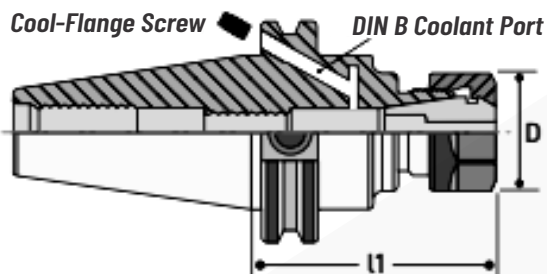
PG. 208

ER COLLET HOLDERS

CAT TAPER



DIN B (AD+B)



PART NUMBER	DESCRIPTION	TAPER	COLLET TYPE	PROJ. LENGTH L1	NUT DIA D
611003	CAT40-ER16-2.76"-CF	CAT40	ER16	2.76"	1.08"
611004	CAT40-ER16-4"-CF	CAT40	ER16	4"	1.08"
611005	CAT40-ER16-6"-CF	CAT40	ER16	6"	1.08"
611006	CAT40-ER16-8"-CF	CAT40	ER16	8"	1.08"
611001	CAT40-ER16-10"-CF	CAT40	ER16	10"	1.08"
611002	CAT40-ER16-12"-CF	CAT40	ER16	12"	1.08"
611009	CAT40-ER20-2.76"-CF	CAT40	ER20	2.76"	1.34"
611010	CAT40-ER20-4"-CF	CAT40	ER20	4"	1.34"
611011	CAT40-ER20-6"-CF	CAT40	ER20	6"	1.34"
611012	CAT40-ER20-8"-CF	CAT40	ER20	8"	1.34"
611007	CAT40-ER20-10"-CF	CAT40	ER20	10"	1.34"
611008	CAT40-ER20-12"-CF	CAT40	ER20	12"	1.34"
611015	CAT40-ER25-2.76"-CF	CAT40	ER25	2.76"	1.65"
611016	CAT40-ER25-4"-CF	CAT40	ER25	4"	1.65"
611017	CAT40-ER25-6"-CF	CAT40	ER25	6"	1.65"
611018	CAT40-ER25-8"-CF	CAT40	ER25	8"	1.65"
611013	CAT40-ER25-10"-CF	CAT40	ER25	10"	1.65"
611014	CAT40-ER25-12"-CF	CAT40	ER25	12"	1.65"
611021	CAT40-ER32-2.76"-CF	CAT40	ER32	2.76"	1.97"
611022	CAT40-ER32-4"-CF	CAT40	ER32	4"	1.97"
611023	CAT40-ER32-6"-CF	CAT40	ER32	6"	1.97"
611024	CAT40-ER32-8"-CF	CAT40	ER32	8"	1.97"
611019	CAT40-ER32-10"-CF	CAT40	ER32	10"	1.97"
611020	CAT40-ER32-12"-CF	CAT40	ER32	12"	1.97"
611027	CAT40-ER40-2.76"-CF	CAT40	ER40	2.76"	2.48"
611028	CAT40-ER40-4"-CF	CAT40	ER40	4"	2.48"
611029	CAT40-ER40-6"-CF	CAT40	ER40	6"	2.48"
611031	CAT40-ER40-8"-CF	CAT40	ER40	8"	2.48"
611025	CAT40-ER40-10"-CF	CAT40	ER40	10"	2.48"
611026	CAT40-ER40-12"-CF	CAT40	ER40	12"	2.48"

ER COLLET HOLDERS

CAT TAPER

PART NUMBER	DESCRIPTION	TAPER	COLLET TYPE	PROJ. LENGTH L1	NUT DIA D
611035	CAT50-ER16-2.76"-CF	CAT50	ER16	2.76"	1.08"
611036	CAT50-ER16-4"-CF	CAT50	ER16	4"	1.08"
611037	CAT50-ER16-6"-CF	CAT50	ER16	6"	1.08"
611038	CAT50-ER16-8"-CF	CAT50	ER16	8"	1.08"
611032	CAT50-ER16-10"-CF	CAT50	ER16	10"	1.08"
611033	CAT50-ER16-12"-CF	CAT50	ER16	12"	1.08"
611034	CAT50-ER16-15"-CF	CAT50	ER16	15"	1.08"
611042	CAT50-ER20-2.76"-CF	CAT50	ER20	2.76"	1.34"
611043	CAT50-ER20-4"-CF	CAT50	ER20	4"	1.34"
611044	CAT50-ER20-6"-CF	CAT50	ER20	6"	1.34"
611045	CAT50-ER20-8"-CF	CAT50	ER20	8"	1.34"
611039	CAT50-ER20-10"-CF	CAT50	ER20	10"	1.34"
611040	CAT50-ER20-12"-CF	CAT50	ER20	12"	1.34"
611041	CAT50-ER20-15"-CF	CAT50	ER20	15"	1.34"
611049	CAT50-ER25-2.76"-CF	CAT50	ER25	2.76"	1.65"
611050	CAT50-ER25-4"-CF	CAT50	ER25	4"	1.65"
611051	CAT50-ER25-6"-CF	CAT50	ER25	6"	1.65"
611052	CAT50-ER25-8"-CF	CAT50	ER25	8"	1.65"
611046	CAT50-ER25-10"-CF	CAT50	ER25	10"	1.65"
611047	CAT50-ER25-12"-CF	CAT50	ER25	12"	1.65"
611048	CAT50-ER25-15"-CF	CAT50	ER25	15"	1.65"
611056	CAT50-ER32-2.76"-CF	CAT50	ER32	2.76"	1.97"
611057	CAT50-ER32-4"-CF	CAT50	ER32	4"	1.97"
611058	CAT50-ER32-6"-CF	CAT50	ER32	6"	1.97"
611059	CAT50-ER32-8"-CF	CAT50	ER32	8"	1.97"
611053	CAT50-ER32-10"-CF	CAT50	ER32	10"	1.97"
611054	CAT50-ER32-12"-CF	CAT50	ER32	12"	1.97"
611055	CAT50-ER32-15"-CF	CAT50	ER32	15"	1.97"
611063	CAT50-ER40-2.76"-CF	CAT50	ER40	2.76"	2.48"
611064	CAT50-ER40-4"-CF	CAT50	ER40	4"	2.48"
611065	CAT50-ER40-6"-CF	CAT50	ER40	6"	2.48"
611066	CAT50-ER40-8"-CF	CAT50	ER40	8"	2.48"
611060	CAT50-ER40-10"-CF	CAT50	ER40	10"	2.48"
611061	CAT50-ER40-12"-CF	CAT50	ER40	12"	2.48"
611062	CAT50-ER40-15"-CF	CAT50	ER40	15"	2.48"



PG. 86



PG. 205



PG. 183



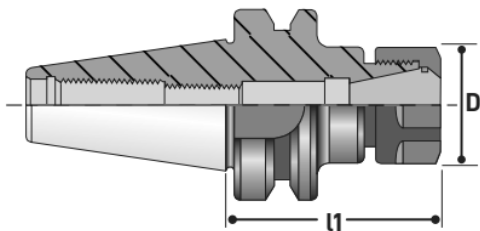
PG. 206



PG. 208

ER COLLET HOLDERS

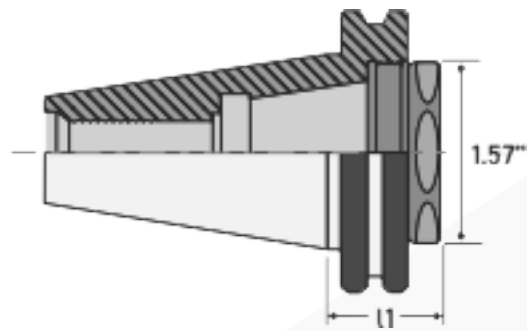
BT TAPER



PART NUMBER	DESCRIPTION	TAPER	COLLET TYPE	PROJ. LENGTH L1	NUT DIA D
510001	BT30-ER16-70 Holder	BT30	ER16	70mm	1.08"
510002	BT30-ER20-70 Holder	BT30	ER20	70mm	1.34"
510003	BT30-ER25-70 Holder	BT30	ER25	70mm	1.65"
510004	BT30-ER32-70 Holder	BT30	ER32	70mm	1.97"
510005	BT30-ER32-100 Holder	BT30	ER32	100mm	1.97"
510006	BT30-ER40-80 Holder	BT30	ER40	80mm	2.48"
510007	BT40-ER16-70 Holder	BT40	ER16	70mm	1.08"
510008	BT40-ER16-100 Holder	BT40	ER16	100mm	1.08"
510009	BT40-ER20-70 Holder	BT40	ER20	70mm	1.34"
510010	BT40-ER20-100 Holder	BT40	ER20	100mm	1.34"
510011	BT40-ER20-150 Holder	BT40	ER20	150mm	1.34"
510012	BT40-ER25-70 Holder	BT40	ER25	70mm	1.65"
510013	BT40-ER25-100 Holder	BT40	ER25	100mm	1.65"
510014	BT40-ER25-150 Holder	BT40	ER25	150mm	1.65"
510015	BT40-ER32-70 Holder	BT40	ER32	70mm	1.97"
510016	BT40-ER32-100 Holder	BT40	ER32	100mm	1.97"
510017	BT40-ER32-150 Holder	BT40	ER32	150mm	1.97"
510018	BT40-ER32-200 Holder	BT40	ER32	70mm	1.97"
510019	BT40-ER40-70 Holder	BT40	ER40	70mm	2.48"
510020	BT40-ER40-100 Holder	BT40	ER40	100mm	2.48"
510021	BT40-ER40-150 Holder	BT40	ER40	150mm	2.48"
510022	BT50-ER16-70 Holder	BT50	ER16	70mm	1.08"
510023	BT50-ER20-70 Holder	BT50	ER20	70mm	1.34"
510024	BT50-ER20-100 Holder	BT50	ER20	100mm	1.34"
510025	BT50-ER25-70 Holder	BT50	ER25	70mm	1.65"
510026	BT50-ER25-100 Holder	BT50	ER25	100mm	1.65"
510027	BT50-ER32-70 Holder	BT50	ER32	70mm	1.97"
510028	BT50-ER32-100 Holder	BT50	ER32	100mm	1.97"
510029	BT50-ER32-150 Holder	BT50	ER32	150mm	1.97"
510030	BT50-ER32-200 Holder	BT50	ER32	200mm	1.97"
510031	BT50-ER40-80 Holder	BT50	ER40	80mm	2.48"
510032	BT50-ER40-100 Holder	BT50	ER40	100mm	2.48"
510033	BT50-ER40-150 Holder	BT50	ER40	150mm	2.48"
510034	BT50-ER40-200 Holder	BT50	ER40	200mm	2.48"

ER COLLET HOLDERS

CAT & BT TAPER - SUPER RIGID



PART NUMBER	DESCRIPTION	TAPER	COLLET TYPE	PROJ. LENGTH L1
611001-0	CAT40 ER32 Holder	CAT40	ER32	1.1"
611001-1	BT40 ER32 Holder	BT40	ER32	1.1"



PG. 86



PG. 205



PG. 183



PG. 206



PG. 208

ER COLLET HOLDERS DUAL CONTACT - CAT & BT



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.

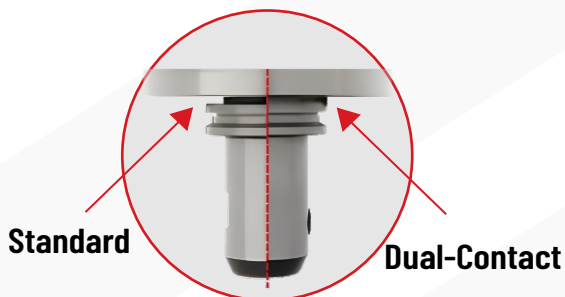


CORROSION PROTECTION

PAC Holders are surface treated,
preventing corrosion.



**E-COMMERCE
WEB PAGE**



FEATURES :

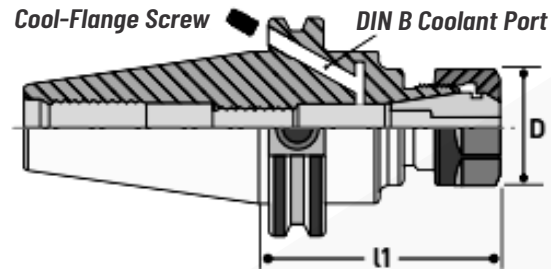
- Balanced to 25,000 RPM at G2.5
- Holder Taper is design for dual contact Spindle
- Flange Coolant AD+B feature is standard in all CAT dual-contact holders
- Corrosion Proof - all holders have special rust preventive coating
- Accuracy: 0.0001" TIR or better
- AT3 Class Taper
- Thru-tool coolant feature is standard
- High precision pilot holes
- Hardness: HRC 56-58
- Carbon depth: 0.8mm +/-0.2mm
- Surface Roughness: Ra<0.005mm
- Crafted from case hardened alloy steel
- Nuts are individually Balanced to 25,000 RPM

ER COLLET HOLDERS

DUAL CONTACT - CAT TAPER



DIN B (AD+B)



PART NUMBER	DESCRIPTION	TAPER	COLLET TYPE	PROJ. LENGTH L1	NUT DIA D
613003	DCAT40-ER16-2.76"-CF Dual-Contact	DCAT40	ER16	2.76"	1.08"
613004	DCAT40-ER16-4"-CF Dual-Contact	DCAT40	ER16	4"	1.08"
613005	DCAT40-ER16-6"-CF Dual-Contact	DCAT40	ER16	6"	1.08"
613006	DCAT40-ER16-8"-CF Dual-Contact	DCAT40	ER16	8"	1.08"
613001	DCAT40-ER16-10"-CF Dual-Contact	DCAT40	ER16	10"	1.08"
613002	DCAT40-ER16-12"-CF Dual-Contact	DCAT40	ER16	12"	1.08"
613009	DCAT40-ER20-2.76"-CF Dual-Contact	DCAT40	ER20	2.76"	1.34"
613010	DCAT40-ER20-4"-CF Dual-Contact	DCAT40	ER20	4"	1.34"
613011	DCAT40-ER20-6"-CF Dual-Contact	DCAT40	ER20	6"	1.34"
613012	DCAT40-ER20-8"-CF Dual-Contact	DCAT40	ER20	8"	1.34"
613007	DCAT40-ER20-10"-CF Dual-Contact	DCAT40	ER20	10"	1.34"
613008	DCAT40-ER20-12"-CF Dual-Contact	DCAT40	ER20	12"	1.34"
613015	DCAT40-ER25-2.76"-CF Dual-Contact	DCAT40	ER25	2.76"	1.65"
613016	DCAT40-ER25-4"-CF Dual-Contact	DCAT40	ER25	4"	1.65"
613017	DCAT40-ER25-6"-CF Dual-Contact	DCAT40	ER25	6"	1.65"
613018	DCAT40-ER25-8"-CF Dual-Contact	DCAT40	ER25	8"	1.65"
613013	DCAT40-ER25-10"-CF Dual-Contact	DCAT40	ER25	10"	1.65"
613014	DCAT40-ER25-12"-CF Dual-Contact	DCAT40	ER25	12"	1.65"
613021	DCAT40-ER32-2.76"-CF Dual-Contact	DCAT40	ER32	2.76"	1.97"
613022	DCAT40-ER32-4"-CF Dual-Contact	DCAT40	ER32	4"	1.97"
613023	DCAT40-ER32-6"-CF Dual-Contact	DCAT40	ER32	6"	1.97"
613024	DCAT40-ER32-8"-CF Dual-Contact	DCAT40	ER32	8"	1.97"
613019	DCAT40-ER32-10"-CF Dual-Contact	DCAT40	ER32	10"	1.97"
613020	DCAT40-ER32-12"-CF Dual-Contact	DCAT40	ER32	12"	1.97"
613027	DCAT40-ER40-2.76"-CF Dual-Contact	DCAT40	ER40	2.76"	2.48"
613028	DCAT40-ER40-4"-CF Dual-Contact	DCAT40	ER40	4"	2.48"
613029	DCAT40-ER40-6"-CF Dual-Contact	DCAT40	ER40	6"	2.48"
613030	DCAT40-ER40-8"-CF Dual-Contact	DCAT40	ER40	8"	2.48"
613025	DCAT40-ER40-10"-CF Dual-Contact	DCAT40	ER40	10"	2.48"
613026	DCAT40-ER40-12"-CF Dual-Contact	DCAT40	ER40	12"	2.48"



PG. 86



PG. 205



PG. 183



PG. 206



PG. 208

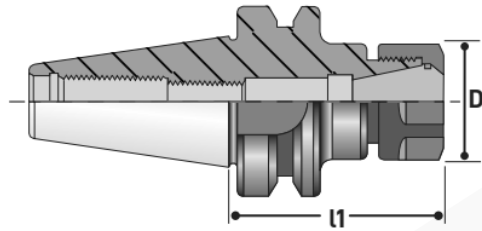
ER COLLET HOLDERS

DUAL CONTACT - CAT TAPER

PART NUMBER	DESCRIPTION	TAPER	COLLET TYPE	PROJ. LENGTH L1	NUT DIA D
613034	DCAT50-ER16-4"-CF Dual-Contact	DCAT50	ER16	4"	1.08"
613035	DCAT50-ER16-6"-CF Dual-Contact	DCAT50	ER16	6"	1.08"
613036	DCAT50-ER16-8"-CF Dual-Contact	DCAT50	ER16	8"	1.08"
613031	DCAT50-ER16-10"-CF Dual-Contact	DCAT50	ER16	10"	1.08"
613032	DCAT50-ER16-12"-CF Dual-Contact	DCAT50	ER16	12"	1.08"
613033	DCAT50-ER16-15"-CF Dual-Contact	DCAT50	ER16	15"	1.08"
613040	DCAT50-ER20-4"-CF Dual-Contact	DCAT50	ER20	4"	1.34"
613041	DCAT50-ER20-6"-CF Dual-Contact	DCAT50	ER20	6"	1.34"
613042	DCAT50-ER20-8"-CF Dual-Contact	DCAT50	ER20	8"	1.34"
613037	DCAT50-ER20-10"-CF Dual-Contact	DCAT50	ER20	10"	1.34"
613038	DCAT50-ER20-12"-CF Dual-Contact	DCAT50	ER20	12"	1.34"
613039	DCAT50-ER20-15"-CF Dual-Contact	DCAT50	ER20	15"	1.34"
613046	DCAT50-ER25-4"-CF Dual-Contact	DCAT50	ER25	4"	1.65"
613047	DCAT50-ER25-6"-CF Dual-Contact	DCAT50	ER25	6"	1.65"
613048	DCAT50-ER25-8"-CF Dual-Contact	DCAT50	ER25	8"	1.65"
613043	DCAT50-ER25-10"-CF Dual-Contact	DCAT50	ER25	10"	1.65"
613044	DCAT50-ER25-12"-CF Dual-Contact	DCAT50	ER25	12"	1.65"
613045	DCAT50-ER25-15"-CF Dual-Contact	DCAT50	ER25	15"	1.65"
613052	DCAT50-ER32-4"-CF Dual-Contact	DCAT50	ER32	4"	1.97"
613053	DCAT50-ER32-6"-CF Dual-Contact	DCAT50	ER32	6"	1.97"
613054	DCAT50-ER32-8"-CF Dual-Contact	DCAT50	ER32	8"	1.97"
613049	DCAT50-ER32-10"-CF Dual-Contact	DCAT50	ER32	10"	1.97"
613050	DCAT50-ER32-12"-CF Dual-Contact	DCAT50	ER32	12"	1.97"
613051	DCAT50-ER32-15"-CF Dual-Contact	DCAT50	ER32	15"	1.97"
613058	DCAT50-ER40-4"-CF Dual-Contact	DCAT50	ER40	4"	2.48"
613059	DCAT50-ER40-6"-CF Dual-Contact	DCAT50	ER40	6"	2.48"
613060	DCAT50-ER40-8"-CF Dual-Contact	DCAT50	ER40	8"	2.48"
613055	DCAT50-ER40-10"-CF Dual-Contact	DCAT50	ER40	10"	2.48"
613056	DCAT50-ER40-12"-CF Dual-Contact	DCAT50	ER40	12"	2.48"
613057	DCAT50-ER40-15"-CF Dual-Contact	DCAT50	ER40	15"	2.48"



ER COLLET HOLDERS DUAL CONTACT - BT TAPER



PART NUMBER	DESCRIPTION	TAPER	COLLET TYPE	PROJ. LENGTH L1	NUT DIA D
512001	DBT30-ER16-70 Dual-Contact Holder	DBT30	ER16	70mm	1.08"
512002	DBT30-ER20-70 Dual-Contact Holder	DBT30	ER20	70mm	1.34"
512003	DBT30-ER25-70 Dual-Contact Holder	DBT30	ER25	70mm	1.65"
512004	DBT30-ER32-70 Dual-Contact Holder	DBT30	ER32	70mm	1.97"
512005	DBT30-ER32-100 Dual-Contact Holder	DBT30	ER32	100mm	1.97"
512006	DBT30-ER40-80 Dual-Contact Holder	DBT30	ER40	80mm	2.48"
512007	DBT40-ER16-70 Dual-Contact Holder	DBT40	ER16	70mm	1.08"
512008	DBT40-ER16-100 Dual-Contact Holder	DBT40	ER16	100mm	1.08"
512009	DBT40-ER20-70 Dual-Contact Holder	DBT40	ER20	70mm	1.34"
512010	DBT40-ER20-100 Dual-Contact Holder	DBT40	ER20	100mm	1.34"
512011	DBT40-ER20-150 Dual-Contact Holder	DBT40	ER20	150mm	1.34"
512012	DBT40-ER25-70 Dual-Contact Holder	DBT40	ER25	70mm	1.65"
512013	DBT40-ER25-100 Dual-Contact Holder	DBT40	ER25	100mm	1.65"
512014	DBT40-ER25-150 Dual-Contact Holder	DBT40	ER25	150mm	1.65"
512015	DBT40-ER32-70 Dual-Contact Holder	DBT40	ER32	70mm	1.97"
512016	DBT40-ER32-100 Dual-Contact Holder	DBT40	ER32	100mm	1.97"
512017	DBT40-ER32-150 Dual-Contact Holder	DBT40	ER32	150mm	1.97"
512018	DBT40-ER32-200 Dual-Contact Holder	DBT40	ER32	70mm	1.97"
512019	DBT40-ER40-80 Dual-Contact Holder	DBT40	ER40	70mm	2.48"
512020	DBT40-ER40-100 Dual-Contact Holder	DBT40	ER40	100mm	2.48"
512021	DBT40-ER40-150 Dual-Contact Holder	DBT40	ER40	150mm	2.48"
512022	DBT50-ER16-70 Dual-Contact Holder	DBT50	ER16	70mm	1.08"
512023	DBT50-ER20-70 Dual-Contact Holder	DBT50	ER20	70mm	1.34"
512024	DBT50-ER20-100 Dual-Contact Holder	DBT50	ER20	100mm	1.34"
512025	DBT50-ER25-70 Dual-Contact Holder	DBT50	ER25	70mm	1.65"
512026	DBT50-ER25-100 Dual-Contact Holder	DBT50	ER25	100mm	1.65"
512027	DBT50-ER32-70 Dual-Contact Holder	DBT50	ER32	70mm	1.97"
512028	DBT50-ER32-100 Dual-Contact Holder	DBT50	ER32	100mm	1.97"
512029	DBT50-ER32-150 Dual-Contact Holder	DBT50	ER32	150mm	1.97"
512030	DBT50-ER32-200 Dual-Contact Holder	DBT50	ER32	200mm	1.97"
512031	DBT50-ER40-80 Dual-Contact Holder	DBT50	ER40	80mm	2.48"
512032	DBT50-ER40-100 Dual-Contact Holder	DBT50	ER40	100mm	2.48"
512033	DBT50-ER40-150 Dual-Contact Holder	DBT50	ER40	150mm	2.48"
512034	DBT50-ER40-200 Dual-Contact Holder	DBT50	ER40	200mm	2.48"



PG. 86



PG. 205



PG. 183



PG. 206



PG. 208

ER COLLET HOLDERS HSK-A TAPER



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.



CORROSION PROTECTION

PAC Holders are surface treated,
preventing corrosion.



**E-COMMERCE
WEB PAGE**

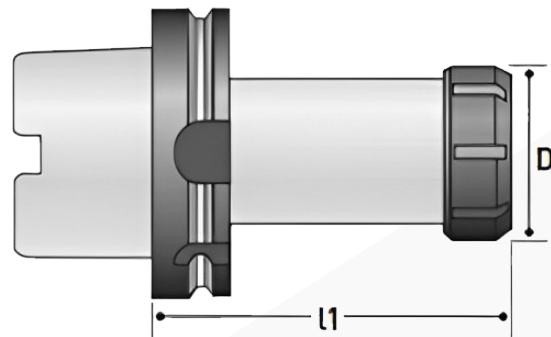
FEATURES :

- Balanced to 25,000 RPM at G2.5
- Corrosion Proof - all holders have special rust preventive coating
- Accuracy: 0.0001" TIR or better
- AT3 Class Taper
- Hardness: HRC 56-58
- Carbon depth: 0.8mm +/-0.2mm
- Surface Roughness: Ra<0.005mm
- Crafted from case hardened alloy steel



ER COLLET HOLDERS

HSK-A TAPER



PART NUMBER	DESCRIPTION	TAPER	COLLET TYPE	PROJ. LENGTH L1	NUT DIA D
520001	HSK50A-ER16-60-25K Holder	HSK50-A	ER16	60mm	28mm
520002	HSK50A-ER16-100-25K Holder	HSK50-A	ER16	100mm	28mm
520003	HSK50A-ER20-100-25K Holder	HSK50-A	ER20	100mm	34mm
520004	HSK50A-ER25-80-25K Holder	HSK50-A	ER25	80mm	35mm
520005	HSK50A-ER25-100-25K Holder	HSK50-A	ER25	100mm	35mm
520006	HSK50A-ER32-80-25K Holder	HSK50-A	ER32	80mm	50mm
520007	HSK50A-ER32-100-25K Holder	HSK50-A	ER32	100mm	50mm
520008	HSK50A-ER40-80-25K Holder	HSK50-A	ER40	80mm	63mm
520009	HSK63A-ER16-100-25K Holder	HSK63-A	ER16	100mm	28mm
520010	HSK63A-ER16-160-25K Holder	HSK63-A	ER16	160mm	28mm
520011	HSK63A-ER16-200-25K Holder	HSK63-A	ER16	200mm	28mm
520012	HSK63A-ER16-250-25K Holder	HSK63-A	ER16	250mm	28mm
520013	HSK63A-ER16-300-25K Holder	HSK63-A	ER16	300mm	28mm
520014	HSK63A-ER20-100-25K Holder	HSK63-A	ER20	100mm	34mm
520015	HSK63A-ER20-160-25K Holder	HSK63-A	ER20	160mm	34mm
520016	HSK63A-ER20-200-25K Holder	HSK63-A	ER20	200mm	34mm
520017	HSK63A-ER20-250-25K Holder	HSK63-A	ER20	250mm	34mm
520018	HSK63A-ER20-300-25K Holder	HSK63-A	ER20	300mm	34mm
520019	HSK63A-ER25-100-25K Holder	HSK63-A	ER25	100mm	35mm
520020	HSK63A-ER25-160-25K Holder	HSK63-A	ER25	160mm	35mm
520021	HSK63A-ER25-200-25K Holder	HSK63-A	ER25	200mm	35mm
520022	HSK63A-ER25-250-25K Holder	HSK63-A	ER25	250mm	35mm
520023	HSK63A-ER25-300-25K Holder	HSK63-A	ER25	300mm	35mm
520024	HSK63A-ER32-100-25K Holder	HSK63-A	ER32	100mm	50mm
520025	HSK63A-ER32-150-25K Holder	HSK63-A	ER32	150mm	50mm
520026	HSK63A-ER32-200-25K Holder	HSK63-A	ER32	200mm	50mm
520027	HSK63A-ER32-250-25K Holder	HSK63-A	ER32	250mm	50mm
520028	HSK63A-ER32-300-25K Holder	HSK63-A	ER32	300mm	50mm



PG. 86



PG. 205



PG. 183



PG. 206



PG. 208

ER COLLET HOLDERS

HSK-A TAPER

PART NUMBER	DESCRIPTION	TAPER	COLLET TYPE	PROJ. LENGTH L1	NUT DIA D
520029	HSK63A-ER40-100-25K Holder	HSK63-A	ER40	100mm	63mm
520030	HSK63A-ER40-150-25K Holder	HSK63-A	ER40	150mm	63mm
520031	HSK63A-ER40-200-25K Holder	HSK63-A	ER40	200mm	63mm
520032	HSK63A-ER40-250-25K Holder	HSK63-A	ER40	250mm	63mm
520033	HSK63A-ER40-300-25K Holder	HSK63-A	ER40	300mm	63mm
520034	HSK100A-ER25-100-25K Holder	HSK100-A	ER25	100mm	35mm
520035	HSK100A-ER25-160-25K Holder	HSK100-A	ER25	160mm	35mm
520036	HSK100A-ER25-200-25K Holder	HSK100-A	ER25	200mm	35mm
520037	HSK100A-ER25-250-25K Holder	HSK100-A	ER25	250mm	35mm
520038	HSK100A-ER25-300-25K Holder	HSK100-A	ER25	300mm	35mm
520039	HSK100A-ER25-400-25K Holder	HSK100-A	ER25	400mm	35mm
520040	HSK100A-ER32-100-25K Holder	HSK100-A	ER32	100mm	50mm
520041	HSK100A-ER32-160-25K Holder	HSK100-A	ER32	160mm	50mm
520042	HSK100A-ER32-200-25K Holder	HSK100-A	ER32	200mm	50mm
520043	HSK100A-ER32-250-25K Holder	HSK100-A	ER32	250mm	50mm
520044	HSK100A-ER32-300-25K Holder	HSK100-A	ER32	300mm	50mm
520045	HSK100A-ER32-400-25K Holder	HSK100-A	ER32	400mm	50mm
520046	HSK100A-ER40-100-25K Holder	HSK100-A	ER40	100mm	63mm
520047	HSK100A-ER40-160-25K Holder	HSK100-A	ER40	160mm	63mm
520048	HSK100A-ER40-200-25K Holder	HSK100-A	ER40	200mm	63mm
520049	HSK100A-ER40-250-25K Holder	HSK100-A	ER40	250mm	63mm
520050	HSK100A-ER40-300-25K Holder	HSK100-A	ER40	300mm	63mm
520051	HSK100A-ER40-400-25K Holder	HSK100-A	ER40	400mm	63mm



ER COLLET HOLDERS HSK-A TAPER

HSK COOLANT TUBE & WRENCHES



DESCRIPTION	COOLANT TUBE PART NUMBER	WRENCHES PART NUMBER
HSK50	52000CT-HSK50	52000W-HSK50
HSK63	52000CT-HSK63	52000W-HSK63
HSK100	52000CT-HSK100	52000W-HSK100



PG. 86



PG. 205



PG. 183



PG. 206



PG. 208

END MILL HOLDERS



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.



CORROSION PROTECTION

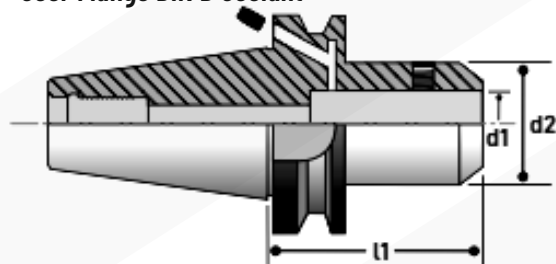
PAC Holders are surface treated,
preventing corrosion.



**E-COMMERCE
WEB PAGE**



Cool-Flange DIN B Coolant



FEATURES :

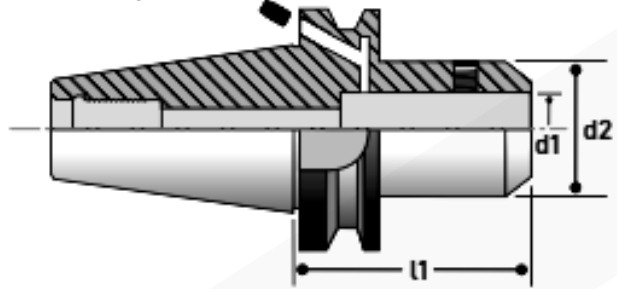
- Balanced to 25,000 RPM at G2.5
- Flange coolant AD+B feature is standard in all CAT holders with inch sizes
- Corrosion Proof - all holders have special rust preventive coating
- AT3 Class Taper Accuracy
- H5 bore tolerance for optimum contact with cutting tool
- High precision pilot holes
- Hardness: HRC 56-58
- Carbon depth: 0.8mm +/-0.2mm
- Surface Roughness: Ra<0.005mm
- Crafted from case hardened alloy steel

END MILL HOLDERS CAT TAPER



DIN-B (AD+B)

Cool-Flange DIN B Coolant



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
617001	CAT40-SLN1/8"-2-3/8"-CF Cool-Flange Holder	CAT40	1/8"	2-3/8"	0.750"	ESC18
617002	CAT40-SLN3/16"-2-1/2"-CF Cool-Flange Holder	CAT40	3/16"	2-1/2"	0.787"	ESC316
617003	CAT40-SLN1/4"-2-1/2"-CF Cool-Flange Holder	CAT40	1/4"	2-1/2"	0.807"	ESC14
617003-4	CAT40-SLN1/4"-4"-CF Cool-Flange Holder	CAT40	1/4"	4"	0.807"	ESC14
617004	CAT40-SLN5/16"-2-1/2"-CF Cool-Flange Holder	CAT40	5/16"	2-1/2"	1"	ESC516
617004-4	CAT40-SLN5/16"-4"-CF Cool-Flange Holder	CAT40	5/16"	4"	1"	ESC516
617004-6	CAT40-SLN5/16"-6"-CF Cool-Flange Holder	CAT40	5/16"	6"	1"	ESC516
617005	CAT40-SLN3/8"-2-1/2"-CF Cool-Flange Holder	CAT40	3/8"	2-1/2"	1"	ESC38
617005-4	CAT40-SLN3/8"-4"-CF Cool-Flange Holder	CAT40	3/8"	4"	1"	ESC38
617005-6	CAT40-SLN3/8"-6"-CF Cool-Flange Holder	CAT40	3/8"	6"	1"	ESC38
617006	CAT40-SLN7/16"-3.00"-CF Cool-Flange Holder	CAT40	7/16"	3"	1.380"	ESC716
617007	CAT40-SLN1/2"-3.00"-CF Cool-Flange Holder	CAT40	1/2"	3"	1.380"	ESC12
617007-4	CAT40-SLN1/2"-4.00"-CF Cool-Flange Holder	CAT40	1/2"	4"	1.380"	ESC12
617007-6	CAT40-SLN1/2"-6.00"-CF Cool-Flange Holder	CAT40	1/2"	6"	1.380"	ESC12
617008	CAT40-SLN5/8"-3.00"-CF Cool-Flange Holder	CAT40	5/8"	3"	1.653"	ESC58
617008-4	CAT40-SLN5/8"-4.00"-CF AD+B Holder	CAT40	5/8"	4"	1.653"	ESC58
617009	CAT40-SLN3/4"-3.00"-CF Cool-Flange Holder	CAT40	3/4"	3"	1.750"	ESC34
617009-4	CAT40-SLN3/4"-4.00"-CF Cool-Flange Holder	CAT40	3/4"	4"	1.750"	ESC34
617009-6	CAT40-SLN3/4"-6.00"-CF Cool-Flange Holder	CAT40	3/4"	6"	1.750"	ESC34
617010	CAT40-SLN7/8"-3-1/2"-CF Cool-Flange Holder	CAT40	7/8"	3-1/2"	2.047"	ESC78
617011	CAT40-SLN1.0"-4.00"-CF Cool-Flange Holder	CAT40	1"	4"	2.362"	ESC1
617011-6	CAT40-SLN1.0"-6.00"-CF Cool-Flange Holder	CAT40	1"	6"	2.362"	ESC1
617012	CAT40-SLN1-1/4"-4.00"-CF Cool-Flange Holder	CAT40	1-1/4"	4"	2.480"	ESC114
617012-6	CAT40-SLN1-1/4"-6.00"-CF Cool-Flange Holder	CAT40	1-1/4"	6"	2.480"	ESC114
617013	CAT40-SLN1-1/2"-4-1/2"-CF Cool-Flange Holder	CAT40	1-1/2"	4-1/2"	3"	ESC112
617013-6	CAT40-SLN1-1/2"-6"-CF Cool-Flange Holder	CAT40	1-1/2"	6"	3"	ESC112



PG. 36



PG. 183



PG. 206



PG. 208

END MILL HOLDERS

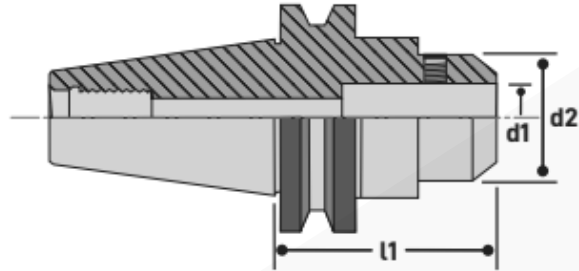
CAT TAPER

PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
617014	CAT50-SLN1/8"-2-3/8"-CF Cool-Flange Holder	CAT50	1/8"	2-3/8"	0.750"	ESC18
617015	CAT50-SLN3/16"-2-1/2"-CF Cool-Flange Holder	CAT50	3/16"	2-1/2"	0.787"	ESC316
617016	CAT50-SLN1/4"-2-1/2"-CF Cool-Flange Holder	CAT50	1/4"	2-1/2"	0.807"	ESC14
617016-4	CAT50-SLN1/4"-4"-CF Cool-Flange Holder	CAT50	1/4"	4"	0.807"	ESC14
617017	CAT50-SLN5/16"-2-1/2"-CF Cool-Flange Holder	CAT50	5/16"	2-1/2"	1"	ESC516
617017-4	CAT50-SLN5/16"-4"-CF Cool-Flange Holder	CAT50	5/16"	4"	1"	ESC516
617017-6	CAT50-SLN5/16"-6"-CF Cool-Flange Holder	CAT50	5/16"	6"	1"	ESC516
617018	CAT50-SLN3/8"-2-1/2"-CF Cool-Flange Holder	CAT50	3/8"	2-1/2"	1"	ESC38
617018-4	CAT50-SLN3/8"-4"-CF Cool-Flange Holder	CAT50	3/8"	4"	1"	ESC38
617018-6	CAT50-SLN3/8"-6"-CF Cool-Flange Holder	CAT50	3/8"	6"	1"	ESC38
617019	CAT50-SLN7/16"-3.00"-CF Cool-Flange Holder	CAT50	7/16"	3"	1.380"	ESC716
617020	CAT50-SLN1/2"-3.00"-CF Cool-Flange Holder	CAT50	1/2"	3"	1.380"	ESC12
617020-4	CAT50-SLN1/2"-4.00"-CF Cool-Flange Holder	CAT50	1/2"	4"	1.380"	ESC12
617020-6	CAT50-SLN1/2"-6.00"-CF Cool-Flange Holder	CAT50	1/2"	6"	1.380"	ESC12
617021	CAT50-SLN5/8"-3.00"-CF Cool-Flange Holder	CAT50	5/8"	3"	1.653"	ESC58
617022	CAT50-SLN3/4"-3.00"-CF Cool-Flange Holder	CAT50	3/4"	3"	1.750"	ESC34
617022-4	CAT50-SLN3/4"-4.00"-CF Cool-Flange Holder	CAT50	3/4"	4"	1.750"	ESC34
617022-6	CAT50-SLN3/4"-6.00"-CF Cool-Flange Holder	CAT50	3/4"	6"	1.750"	ESC34
617023	CAT50-SLN7/8"-4.00"-CF Cool-Flange Holder	CAT50	7/8"	3-1/2"	2.047"	ESC78
617024	CAT50-SLN1.00"-4.00"-CF Cool-Flange Holder	CAT50	1"	4"	2.362"	ESC1
617024-6	CAT50-SLN1.00"-6.00"-CF Cool-Flange Holder	CAT50	1"	6"	2.362"	ESC1
617025	CAT50-SLN1-1/4"-4.00"-CF Cool-Flange Holder	CAT50	1-1/4"	4"	2.480"	ESC114
617025-6	CAT50-SLN1-1/4"-6.00"-CF Cool-Flange Holder	CAT50	1-1/4"	6"	2.480"	ESC114
617026	CAT50-SLN1-1/2"-4-1/2"-CF Cool-Flange Holder	CAT50	1-1/2"	4-1/2"	3"	ESC112
617026-6	CAT50-SLN1-1/2"-6"-CF Cool-Flange Holder	CAT50	1-1/2"	6"	3"	ESC112



END MILL HOLDERS

CAT TAPER - METRIC SIZES



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
617001M	CAT40-6MM-63L Holder	CAT40	6mm	63mm	0.984"	ESC6
617002M	CAT40-8MM-63L Holder	CAT40	8mm	63mm	1.102"	ESC8
617003M	CAT40-10MM-63L Holder	CAT40	10mm	63mm	1.378"	ESC10
617004M	CAT40-12MM-63L Holder	CAT40	12mm	63mm	1.653"	ESC12
617005M	CAT40-16MM-63L Holder	CAT40	16mm	63mm	1.890"	ESC16
617006M	CAT40-20MM-70L Holder	CAT40	20mm	70mm	2.047"	ESC20
617007M	CAT40-20MM-100L Holder	CAT40	20mm	100mm	2.047"	ESC20
617009M	CAT40-25MM-100L Holder	CAT40	25mm	100mm	2.165"	ESC25
617010M	CAT40-25MM-150L Holder	CAT40	25mm	150mm	2.165"	ESC25
617012M	CAT40-32MM-100L Holder	CAT40	32mm	100mm	2.401"	ESC32
617013M	CAT40-32MM-150L Holder	CAT40	32mm	150mm	2.401"	ESC32
617015M	CAT40-40MM-100L Holder	CAT40	40mm	100mm	2.480"	ESC40
617016M	CAT50-6MM-63L Holder	CAT50	6mm	63mm	0.984"	ESC6
617017M	CAT50-8MM-63L Holder	CAT50	8mm	63mm	1.102"	ESC8
617018M	CAT50-10MM-63L Holder	CAT50	10mm	63mm	1.378"	ESC10
617019M	CAT50-12MM-80L Holder	CAT50	12mm	80mm	1.653"	ESC12
617020M	CAT50-16MM-80L Holder	CAT50	16mm	80mm	1.890"	ESC16
617022M	CAT50-20MM-100L Holder	CAT50	20mm	100mm	2.047"	ESC20
617024M	CAT50-25MM-100L Holder	CAT50	25mm	100mm	2.165"	ESC25
617025M	CAT50-25MM-150L Holder	CAT50	25mm	150mm	2.165"	ESC25
617027M	CAT50-32MM-100L Holder	CAT50	32mm	100mm	2.401"	ESC32
617028M	CAT50-32MM-150L Holder	CAT50	32mm	150mm	2.401"	ESC32
617030M	CAT50-40MM-100L Holder	CAT50	40mm	100mm	2.738"	ESC40



PG. 36



PG. 183



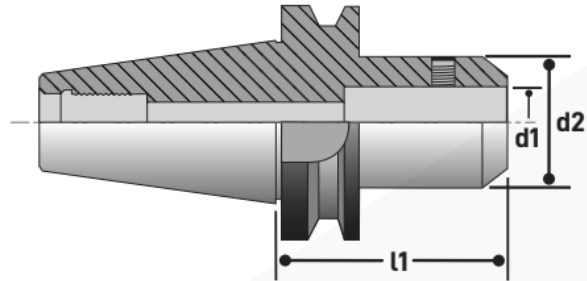
PG. 206



PG. 208

END MILL HOLDERS

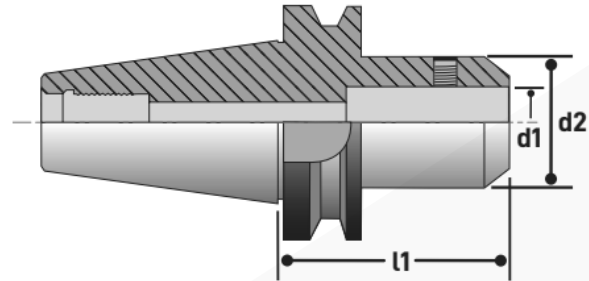
BT TAPER



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
517001	BT40-SLN1/8"-2-3/8" Holder	BT40	1/8"	2-3/8"	0.750"	ESC18
517002	BT40-SLN3/16"-2-1/2" Holder	BT40	3/16"	2-1/2"	0.787"	ESC316
517003	BT40-SLN1/4"-2-1/2" Holder	BT40	1/4"	2-1/2"	0.807"	ESC14
517004	BT40-SLN5/16"-2-1/2" Holder	BT40	5/16"	2-1/2"	1"	ESC516
517005	BT40-SLN3/8"-2-1/2" Holder	BT40	3/8"	2-1/2"	1"	ESC38
517006	BT40-SLN7/16"-3.00" Holder	BT40	7/16"	3"	1.380"	ESC716
517007	BT40-SLN1/2"-3.00" Holder	BT40	1/2"	3"	1.380"	ESC12
517008	BT40-SLN5/8"-3.00" Holder	BT40	5/8"	3"	1.653"	ESC58
517009	BT40-SLN3/4"-3.00" Holder	BT40	3/4"	3"	1.750"	ESC34
517010	BT40-SLN7/8"-3-1/2" Holder	BT40	7/8"	3-1/2"	2.047"	ESC78
517011	BT40-SLN1.0"-4.00" Holder	BT40	1"	4"	2.362"	ESC1
517012	BT40-SLN1-1/4"-4.00" Holder	BT40	1-1/4"	4"	2.480"	ESC114
517013	BT40-SLN1-1/2"-4-1/2" Holder	BT40	1-1/2"	4-1/2"	3"	ESC112
517014	BT50-SLN1/8"-2-3/8" Holder	BT50	1/8"	2-3/8"	0.750"	ESC18
517015	BT50-SLN3/16"-2-1/2" Holder	BT50	3/16"	2-1/2"	0.787"	ESC316
517016	BT50-SLN1/4"-2-1/2" Holder	BT50	1/4"	2-1/2"	0.807"	ESC14
517017	BT50-SLN5/16"-2-1/2" Holder	BT50	5/16"	2-1/2"	1"	ESC516
517018	BT50-SLN3/8"-2-1/2" Holder	BT50	3/8"	2-1/2"	1"	ESC38
517019	BT50-SLN7/16"-3.00" Holder	BT50	7/16"	3"	1.380"	ESC716
517020	BT50-SLN1/2"-3.00" Holder	BT50	1/2"	3"	1.380"	ESC12
517021	BT50-SLN5/8"-3.00" Holder	BT50	5/8"	3"	1.653"	ESC58
517022	BT50-SLN3/4"-3.00" Holder	BT50	3/4"	3"	1.750"	ESC34
517023	BT50-SLN7/8"-4.00" Holder	BT50	7/8"	4"	2.047"	ESC78
517024	BT50-SLN1.00"-4.00" Holder	BT50	1"	4"	2.362"	ESC1
517025	BT50-SLN1-1/4"-4.00" Holder	BT50	1-1/4"	4"	2.480"	ESC114
517026	BT50-SLN1-1/2"-4-1/2" Holder	BT50	1-1/2"	4-1/2"	3"	ESC112

END MILL HOLDERS

BT TAPER - METRIC SIZES



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
517001MBT3	BT30-6MM-63L Holder	BT30	6mm	63mm	0.984"	ESC6
517002MBT3	BT30-8MM-63L Holder	BT30	8mm	63mm	1.102"	ESC8
517003MBT3	BT30-10MM-63L Holder	BT30	10mm	63mm	1.378"	ESC10
517004MBT3	BT30-12MM-63L Holder	BT30	12mm	63mm	1.653"	ESC12
517005MBT3	BT30-16MM-63L Holder	BT30	16mm	63mm	1.890"	ESC16
517006MBT3	BT30-20MM-70L Holder	BT30	20mm	70mm	1.890"	ESC20
517007MBT3	BT30-20MM-100L Holder	BT30	20mm	100mm	1.890"	ESC20
517009MBT3	BT30-25MM-100L Holder	BT30	25mm	100mm	2.007"	ESC25
517010MBT3	BT30-25MM-150L Holder	BT30	25mm	150mm	2.007"	ESC25
517012MBT3	BT30-32MM-100L Holder	BT30	32mm	100mm	2.362"	ESC32
517013MBT3	BT30-32MM-150L Holder	BT30	32mm	150mm	2.362"	ESC32
517001M	BT40-6MM-63L Holder	BT40	6mm	63mm	0.984"	ESC6
517002M	BT40-8MM-63L Holder	BT40	8mm	63mm	1.102"	ESC8
517003M	BT40-10MM-63L Holder	BT40	10mm	63mm	1.378"	ESC10
517004M	BT40-12MM-63L Holder	BT40	12mm	63mm	1.653"	ESC12
517005M	BT40-16MM-63L Holder	BT40	16mm	63mm	1.890"	ESC16
517006M	BT40-20MM-70L Holder	BT40	20mm	70mm	2.047"	ESC20
517007M	BT40-20MM-100L Holder	BT40	20mm	100mm	2.047"	ESC20
517009M	BT40-25MM-100L Holder	BT40	25mm	100mm	2.165"	ESC25
517010M	BT40-25MM-150L Holder	BT40	25mm	150mm	2.165"	ESC25
517012M	BT40-32MM-100L Holder	BT40	32mm	100mm	2.401"	ESC32
517013M	BT40-32MM-150L Holder	BT40	32mm	150mm	2.401"	ESC32
517015M	BT40-40MM-100L Holder	BT40	40mm	100mm	2.480"	ESC40



PG. 36



PG. 183



PG. 206



PG. 208

END MILL HOLDERS

BT TAPER - METRIC SIZES

PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
517016M	BT50-6MM-63L Holder	BT50	6mm	63mm	0.984"	ESC6
517017M	BT50-8MM-63L Holder	BT50	8mm	63mm	1.102"	ESC8
517018M	BT50-10MM-63L Holder	BT50	10mm	63mm	1.378"	ESC10
517019M	BT50-12MM-80L Holder	BT50	12mm	80mm	1.653"	ESC12
517020M	BT50-16MM-80L Holder	BT50	16mm	80mm	1.890"	ESC16
517022M	BT50-20MM-100L Holder	BT50	20mm	100mm	2.047"	ESC20
517024M	BT50-25MM-100L Holder	BT50	25mm	100mm	2.165"	ESC25
517025M	BT50-25MM-150L Holder	BT50	25mm	150mm	2.165"	ESC25
517027M	BT50-32MM-100L Holder	BT50	32mm	100mm	2.401"	ESC32
517028M	BT50-32MM-150L Holder	BT50	32mm	150mm	2.401"	ESC32
517030M	BT50-40MM-100L Holder	BT50	40mm	100mm	2.738"	ESC40



END MILL HOLDERS DUAL CONTACT



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.

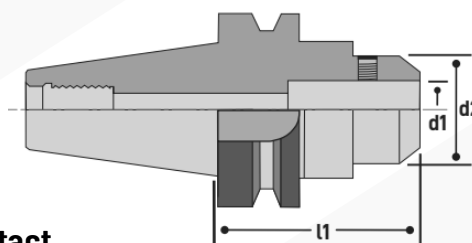
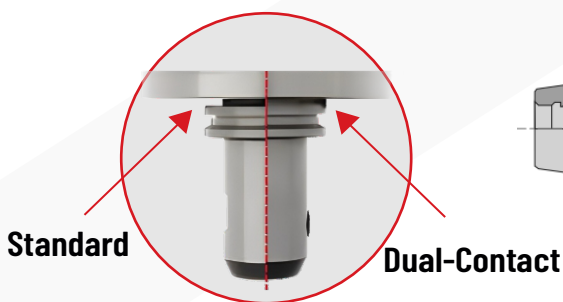


CORROSION PROTECTION

PAC Holders are surface treated,
preventing corrosion.



**E-COMMERCE
WEB PAGE**



FEATURES :

- Balanced to 25,000 RPM at G2.5
- Flange coolant AD+B feature is standard in all CAT dual-contact holders
- Holder Taper is design for dual contact Spindle
- Corrosion Proof - all holders have special rust preventive coating
- AT3 Class Taper Accuracy
- H5 bore tolerance for optimum contact with cutting tool
- High precision pilot holes
- Hardness: HRC 56-58
- Carbon depth: 0.8mm +/-0.2mm
- Surface Roughness: Ra<0.005mm
- Crafted from case hardened alloy steel



PG. 36



PG. 183



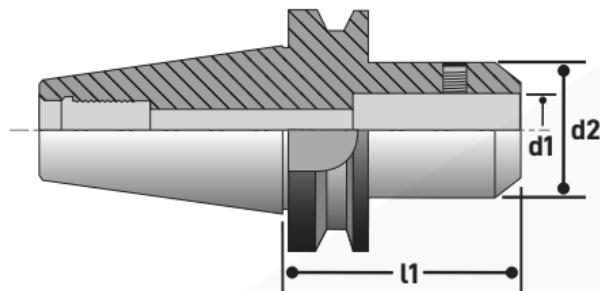
PG. 206



PG. 208

END MILL HOLDERS

DUAL CONTACT - BT TAPER



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
518001	DBT40-SLN1/8"-2-3/8" Dual-Contact Holder	DBT40	1/8"	2-3/8"	0.750"	ESC18
518002	DBT40-SLN3/16"-2-1/2" Dual-Contact Holder	DBT40	3/16"	2-1/2"	0.787"	ESC316
518003	DBT40-SLN1/4"-2-1/2" Dual-Contact Holder	DBT40	1/4"	2-1/2"	0.807"	ESC14
518004	DBT40-SLN5/16"-2-1/2" Dual-Contact Holder	DBT40	5/16"	2-1/2"	1"	ESC516
518005	DBT40-SLN3/8"-2-1/2" Dual-Contact Holder	DBT40	3/8"	2-1/2"	1"	ESC38
518006	DBT40-SLN7/16"-3.00" Dual-Contact Holder	DBT40	7/16"	3"	1.380"	ESC716
518007	DBT40-SLN1/2"-3.00" Dual-Contact Holder	DBT40	1/2"	3"	1.380"	ESC12
518008	DBT40-SLN5/8"-3.00" Dual-Contact Holder	DBT40	5/8"	3"	1.653"	ESC58
518009	DBT40-SLN3/4"-3.00" Dual-Contact Holder	DBT40	3/4"	3"	1.750"	ESC34
518010	DBT40-SLN7/8"-3-1/2" Dual-Contact Holder	DBT40	7/8"	3-1/2"	2.047"	ESC78
518011	DBT40-SLN1.0"-4.00" Dual-Contact Holder	DBT40	1"	4"	2.362"	ESC1
518012	DBT40-SLN1-1/4"-4.00" Dual-Contact Holder	DBT40	1-1/4"	4"	2.480"	ESC114
518013	DBT40-SLN1-1/2"-4-1/2" Dual-Contact Holder	DBT40	1-1/2"	4-1/2"	3"	ESC112
518014	DBT50-SLN1/8"-2-3/8" Dual-Contact Holder	DBT50	1/8"	2-3/8"	0.750"	ESC18
518015	DBT50-SLN3/16"-2-1/2" Dual-Contact Holder	DBT50	3/16"	2-1/2"	0.787"	ESC316
518016	DBT50-SLN1/4"-2-1/2" Dual-Contact Holder	DBT50	1/4"	2-1/2"	0.807"	ESC14
518017	DBT50-SLN5/16"-2-1/2" Dual-Contact Holder	DBT50	5/16"	2-1/2"	1"	ESC516
518018	DBT50-SLN3/8"-2-1/2" Dual-Contact Holder	DBT50	3/8"	2-1/2"	1"	ESC38
518019	DBT50-SLN7/16"-3.00" Dual-Contact Holder	DBT50	7/16"	3"	1.380"	ESC716
518020	DBT50-SLN1/2"-3.00" Dual-Contact Holder	DBT50	1/2"	3"	1.380"	ESC12
518021	DBT50-SLN5/8"-3.00" Dual-Contact Holder	DBT50	5/8"	3"	1.653"	ESC58
518022	DBT50-SLN3/4"-3.00" Dual-Contact Holder	DBT50	3/4"	3"	1.750"	ESC34
518023	DBT50-SLN7/8"-4.00" Dual-Contact Holder	DBT50	7/8"	4"	2.047"	ESC78
518024	DBT50-SLN1.00"-4.00" Dual-Contact Holder	DBT50	1"	4"	2.362"	ESC1
518025	DBT50-SLN1-1/4"-4.00" Dual-Contact Holder	DBT50	1-1/4"	4"	2.480"	ESC114
518026	DBT50-SLN1-1/2"-4-1/2" Dual-Contact Holder	DBT50	1-1/2"	4-1/2"	3"	ESC112

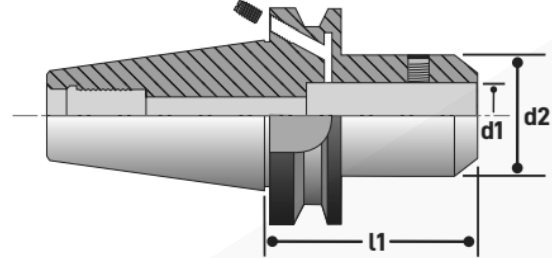
END MILL HOLDERS

DUAL CONTACT - CAT TAPER



DIN-B (AD+B)

Cool-Flange DIN B Coolant



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
618001	DCAT40-SLN1/8"-2-3/8"-CF Dual-Contact Cool-Flange Holder	DCAT40	1/8"	2-3/8"	0.750"	ESC18
618002	DCAT40-SLN3/16"-2-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT40	3/16"	2-1/2"	0.787"	ESC316
618003	DCAT40-SLN1/4"-2-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT40	1/4"	2-1/2"	0.807"	ESC14
618004	DCAT40-SLN5/16"-2-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT40	5/16"	2-1/2"	1"	ESC516
618005	DCAT40-SLN3/8"-2-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT40	3/8"	2-1/2"	1"	ESC38
618006	DCAT40-SLN7/16"-3.00"-CF Dual-Contact Cool-Flange Holder	DCAT40	7/16"	3"	1.380"	ESC716
618007	DCAT40-SLN1/2"-3.00"-CF Dual-Contact Cool-Flange Holder	DCAT40	1/2"	3"	1.380"	ESC12
618008	DCAT40-SLN5/8"-3.00"-CF Dual-Contact Cool-Flange Holder	DCAT40	5/8"	3"	1.653"	ESC58
618009	DCAT40-SLN3/4"-3.00"-CF Dual-Contact Cool-Flange Holder	DCAT40	3/4"	3"	1.750"	ESC34
618010	DCAT40-SLN7/8"-3-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT40	7/8"	3-1/2"	2.047"	ESC78
618011	DCAT40-SLN1.0"-4.00"-CF Dual-Contact Cool-Flange Holder	DCAT40	1"	4"	2.362"	ESC1
618012	DCAT40-SLN1-1/4"-4.00"-CF Dual-Contact Cool-Flange Holder	DCAT40	1-1/4"	4"	2.480"	ESC114
618013	DCAT40-SLN1-1/2"-4-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT40	1-1/2"	4-1/2"	3"	ESC112
618014	DCAT50-SLN1/8"-2-3/8"-CF Dual-Contact Cool-Flange Holder	DCAT50	1/8"	2-3/8"	0.750"	ESC18
618015	DCAT50-SLN3/16"-2-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT50	3/16"	2-1/2"	0.787"	ESC316
618016	DCAT50-SLN1/4"-2-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT50	1/4"	2-1/2"	0.807"	ESC14
618017	DCAT50-SLN5/16"-2-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT50	5/16"	2-1/2"	1"	ESC516
618018	DCAT50-SLN3/8"-2-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT50	3/8"	2-1/2"	1"	ESC38
618019	DCAT50-SLN7/16"-3.00"-CF Dual-Contact Cool-Flange Holder	DCAT50	7/16"	3"	1.380"	ESC716
618020	DCAT50-SLN1/2"-3.00"-CF Dual-Contact Cool-Flange Holder	DCAT50	1/2"	3"	1.380"	ESC12
618021	DCAT50-SLN5/8"-3.00"-CF Dual-Contact Cool-Flange Holder	DCAT50	5/8"	3"	1.653"	ESC58
618022	DCAT50-SLN3/4"-3.00"-CF Dual-Contact Cool-Flange Holder	DCAT50	3/4"	3"	1.750"	ESC34
618023	DCAT50-SLN7/8"-4.00"-CF Dual-Contact Cool-Flange Holder	DCAT50	7/8"	4"	2.047"	ESC78
618024	DCAT50-SLN1.00"-4.00"-CF Dual-Contact Cool-Flange Holder	DCAT50	1"	4"	2.362"	ESC1
618025	DCAT50-SLN1-1/4"-4.00"-CF Dual-Contact Cool-Flange Holder	DCAT50	1-1/4"	4"	2.480"	ESC114
618026	DCAT50-SLN1-1/2"-4-1/2"-CF Dual-Contact Cool-Flange Holder	DCAT50	1-1/2"	4-1/2"	3"	ESC112



PG. 36



PG. 183



PG. 206



PG. 208

END MILL HOLDERS HSK-A TAPER



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.



CORROSION PROTECTION

PAC Holders are surface treated,
preventing corrosion.

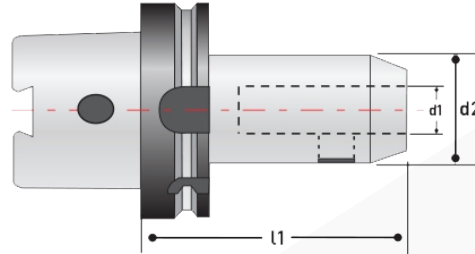


**E-COMMERCE
WEB PAGE**

FEATURES :

- Balanced to 25,000 RPM at G2.5
- Coolant thru Flange capability - DIN-B (AD+B)
- Corrosion Proof - all holders have special rust preventive coating
- H5 bore tolerance for optimum contact with cutting tool
- Surface Roughness: Ra<0.005mm
- Crafted from case hardened alloy steel
- AT3 Class Taper

END MILL HOLDERS HSK-A TAPER



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
520052	HSK50A-SLN1"-4" Holder	HSK50-A	1"	4"	2.362"	ESC1
520053	HSK63A-SLN1/8"-3" Holder	HSK63-A	1/8"	3"	0.750"	ESC18
520054	HSK63A-SLN1/8"-5" Holder	HSK63-A	1/8"	5"	0.750"	ESC18
520055	HSK63A-SLN3/16"-3" Holder	HSK63-A	3/16"	3"	0.787"	ESC316
520056	HSK63A-SLN3/16"-5" Holder	HSK63-A	3/16"	5"	0.787"	ESC316
520057	HSK63A-SLN1/4"-3" Holder	HSK63-A	1/4"	3"	0.807"	ESC14
520058	HSK63A-SLN1/4"-5" Holder	HSK63-A	1/4"	5"	0.807"	ESC14
520059	HSK63A-SLN5/16"-4" Holder	HSK63-A	5/16"	4"	1"	ESC516
520060	HSK63A-SLN3/8"-3" Holder	HSK63-A	3/8"	3"	1"	ESC38
520061	HSK63A-SLN3/8"-5" Holder	HSK63-A	3/8"	5"	1"	ESC38
520062	HSK63A-SLN1/2"-3" Holder	HSK63-A	1/2"	3"	1.380"	ESC12
520063	HSK63A-SLN1/2"-4" Holder	HSK63-A	1/2"	4"	1.380"	ESC12
520064	HSK63A-SLN1/2"-5" Holder	HSK63-A	1/2"	5"	1.380"	ESC12
520065	HSK63A-SLN5/8"-4" Holder	HSK63-A	5/8"	4"	1.653"	ESC58
520066	HSK63A-SLN5/8"-5" Holder	HSK63-A	5/8"	5"	1.653"	ESC58
520067	HSK63A-SLN3/4"-4" Holder	HSK63-A	3/4"	4"	1.750"	ESC34
520068	HSK63A-SLN3/4"-5" Holder	HSK63-A	3/4"	5"	1.750"	ESC34
520069	HSK63A-SLN3/4"-6" Holder	HSK63-A	3/4"	6"	1.750"	ESC34
520069-8	HSK63A-SLN3/4"-8" Holder	HSK63-A	3/4"	8"	1.750"	ESC34
520070	HSK63A-SLN7/8"-4" Holder	HSK63-A	7/8"	4"	2.047"	ESC78
520071	HSK63A-SLN1"-4" Holder	HSK63-A	1"	4"	2.362"	ESC1
520071-6	HSK63A-SLN1"-6" Holder	HSK63-A	1"	6"	2.362"	ESC1
520071-8	HSK63A-SLN1"-8" Holder	HSK63-A	1"	8"	2.362"	ESC1
520071-10	HSK63A-SLN1"-10" Holder	HSK63-A	1"	10"	2.362"	ESC1
520072	HSK63A-SLN1-1/4"-4" Holder	HSK63-A	1-1/4"	4"	2.480"	ESC114
520072-6	HSK63A-SLN1-1/4"-6" Holder	HSK63-A	1-1/4"	6"	2.480"	ESC114
520072-8	HSK63A-SLN1-1/4"-8" Holder	HSK63-A	1-1/4"	8"	2.480"	ESC114



PG. 36



PG. 183



PG. 206



PG. 208

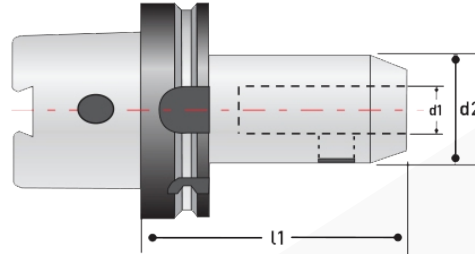
END MILL HOLDERS

HSK-A TAPER

PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
520073	HSK100A-SLN1/4"-3" Holder	HSK100-A	1/4"	3"	0.807"	ESC14
520074	HSK100A-SLN1/4"-6" Holder	HSK100-A	1/4"	6"	0.807"	ESC14
520075	HSK100A-SLN3/8"-3" Holder	HSK100-A	5/16"	3"	1"	ESC516
520076	HSK100A-SLN3/8"-6" Holder	HSK100-A	3/8"	6"	1"	ESC38
520077	HSK100A-SLN1/2"-3" Holder	HSK100-A	3/8"	3"	1.380"	ESC38
520078	HSK100A-SLN1/2"-6" Holder	HSK100-A	1/2"	6"	1.380"	ESC12
520079	HSK100A-SLN5/8"-4" Holder	HSK100-A	5/8"	4"	1.653"	ESC58
520080	HSK100A-SLN5/8"-6" Holder	HSK100-A	5/8"	6"	1.653"	ESC58
520081	HSK100A-SLN3/4"-4" Holder	HSK100-A	3/4"	4"	1.750"	ESC34
520082	HSK100A-SLN3/4"-6" Holder	HSK100-A	3/4"	6"	1.750"	ESC34
520082-8	HSK100A-SLN3/4"-8" Holder	HSK100-A	3/4"	8"	1.750"	ESC34
520083	HSK100A-SLN7/8"-6" Holder	HSK100-A	7/8"	6"	2.047"	ESC78
520084	HSK100A-SLN1"-4" Holder	HSK100-A	1"	4"	2.362"	ESC1
520085	HSK100A-SLN1"-6" Holder	HSK100-A	1"	6"	2.362"	ESC1
520085-8	HSK100A-SLN1"-8" Holder	HSK100-A	1"	8"	2.362"	ESC1
520085-10	HSK100A-SLN1"-10" Holder	HSK100-A	1"	10"	2.362"	ESC1
520086	HSK100A-SLN1-1/4"-4" Holder	HSK100-A	1-1/4"	4"	2.480"	ESC114
520087	HSK100A-SLN1-1/4"-6" Holder	HSK100-A	1-1/4"	6"	2.480"	ESC114
520087-8	HSK100A-SLN1-1/4"-8" Holder	HSK100-A	1-1/4"	8"	2.480"	ESC114
520087-10	HSK100A-SLN1-1/4"-10" Holder	HSK100-A	1-1/4"	10"	2.480"	ESC114
520089	HSK100A-SLN1-1/2"-4" Holder	HSK100-A	1-1/2"	4"	3"	ESC112
520090	HSK100A-SLN1-1/2"-6" Holder	HSK100-A	1-1/2"	6"	3"	ESC112
520090-8	HSK100A-SLN1-1/2"-8" Holder	HSK100-A	1-1/2"	8"	3"	ESC112
520090-10	HSK100A-SLN1-1/2"-10" Holder	HSK100-A	1-1/2"	10"	3"	ESC112
520091	HSK100A-SLN2"-5" Holder	HSK100-A	2"	5"	3.858"	ESC2
520092	HSK100A-SLN2"-6" Holder	HSK100-A	2"	6"	3.858"	ESC2
520092-8	HSK100A-SLN2"-8" Holder	HSK100-A	2"	8"	3.858"	ESC2
520092-10	HSK100A-SLN2"-10" Holder	HSK100-A	2"	10"	3.858"	ESC2

END MILL HOLDERS

HSK-A TAPER - METRIC SIZE



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	PROJ. LENGTH L1	OD SIZE d2	SET SCREW PART NO.
520053M	HSK63-A-6MM-63L Holder	HSK63-A	6mm	63mm	0.984"	ESC6
520054M	HSK63-A-8MM-63L Holder	HSK63-A	8mm	63mm	1.102"	ESC8
520055M	HSK63-A-10MM-63L Holder	HSK63-A	10mm	63mm	1.378"	ESC10
520056M	HSK63-A-12MM-63L Holder	HSK63-A	12mm	63mm	1.653"	ESC12
520057M	HSK63-A-16MM-63L Holder	HSK63-A	16mm	63mm	1.890"	ESC16
520058M	HSK63-A-20MM-70L Holder	HSK63-A	20mm	70mm	2.047"	ESC20
520059M	HSK63-A-20MM-100L Holder	HSK63-A	20mm	100mm	2.047"	ESC20
520060M	HSK63-A-25MM-100L Holder	HSK63-A	25mm	100mm	2.165"	ESC25
520061M	HSK63-A-25MM-150L Holder	HSK63-A	25mm	150mm	2.165"	ESC25
520062M	HSK63-A-32MM-100L Holder	HSK63-A	32mm	100mm	2.401"	ESC32
520063M	HSK63-A-32MM-150L Holder	HSK63-A	32mm	150mm	2.401"	ESC32
520064M	HSK63-A-40MM-100L Holder	HSK63-A	40mm	100mm	2.480"	ESC40
<hr/>						
520066M	HSK100-A-6MM-63L Holder	HSK100-A	6mm	63mm	0.984"	ESC6
520067M	HSK100-A-8MM-63L Holder	HSK100-A	8mm	63mm	1.102"	ESC8
520068M	HSK100-A-10MM-63L Holder	HSK100-A	10mm	63mm	1.378"	ESC10
520069M	HSK100-A-12MM-80L Holder	HSK100-A	12mm	80mm	1.653"	ESC12
520070M	HSK100-A-16MM-80L Holder	HSK100-A	16mm	80mm	1.890"	ESC16
520071M	HSK100-A-20MM-100L Holder	HSK100-A	20mm	100mm	2.047"	ESC20
520072M	HSK100-A-25MM-100L Holder	HSK100-A	25mm	100mm	2.165"	ESC25
520073M	HSK100-A-25MM-150L Holder	HSK100-A	25mm	150mm	2.165"	ESC25
520074M	HSK100-A-32MM-100L Holder	HSK100-A	32mm	100mm	2.401"	ESC32
520075M	HSK100-A-32MM-150L Holder	HSK100-A	32mm	150mm	2.401"	ESC32
520076M	HSK100-A-40MM-100L Holder	HSK100-A	40mm	100mm	2.738"	ESC40
520077M	HSK100-A-40MM-150L Holder	HSK100-A	40mm	150mm	2.738"	ESC40



PG. 36



PG. 183



PG. 206



PG. 208

SET SCREW DETAILS FOR END MILL HOLDERS



PART NUMBER	HOLDER ID SIZE	THREAD	LENGTH
ESC18	1/8" Holder	8#-32	8mm
ESC316	3/16" Holder	10#-32	8mm
ESC14	1/4" Holder	1/4-28	6.35mm
ESC38	3/8" Holder	3/8-24	9.5mm
ESC516	5/16" Holder	5/16-24	6.35mm
ESC716	7/16" Holder	7/16-20	10mm
ESC12	1/2" Holder	7/16-20	10mm
ESC58	5/8" Holder	9/16-18	13mm
ESC34	3/4" Holder	5/8-18	13mm
ESC78	7/8" Holder	5/8-18	13mm
ESC10	1" Holder	3/4-16	18mm
ESC114	1-1/4" Holder	3/4-16	18mm
ESC112	1-1/2" Holder	3/4-16	18mm
ESC6	6MM	M6	8mm
ESC8	8MM	M8	8mm
ESC10	10MM	M10	10mm
ESC12	12MM	M12	12mm
ESC16	16MM	M16	14mm
ESC20	20MM	M20	16mm
ESC25	25MM	M25	16mm
ESC32	32MM	M32	16mm
ESC40	40MM	M40	10mm

HSK COOLANT TUBE & WRENCHES



DISCRIPTION	COOLANT TUBE PART NUMBER	WRENCH PART NUMBER
HSK50	52000CT-HSK50	52000W-HSK50
HSK63	52000CT-HSK63	52000W-HSK63
HSK100	52000CT-HSK100	52000W-HSK100

SHRINK FIT HOLDERS COOL-FLANGE DIN-B (AD+B) - CAT & BT



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.

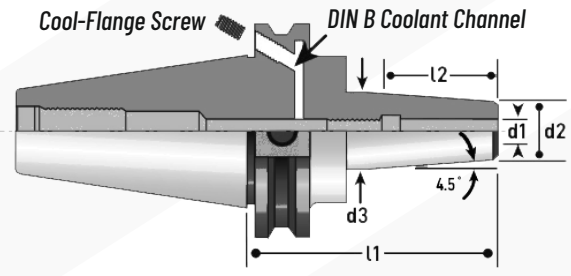


CORROSION PROTECTION

PAC Holders are surface treated,
preventing corrosion.



**E-COMMERCE
WEB PAGE**

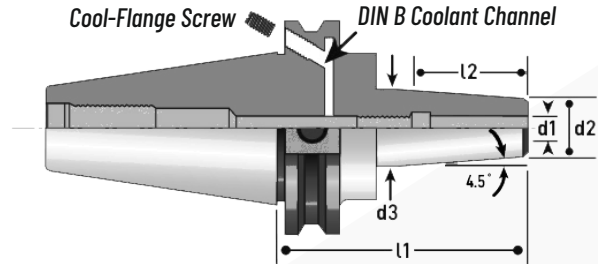


FEATURES :

- Balanced to 25,000 RPM at G2.5
- Corrosion Proof - all holders have special rust preventive coating
- Accuracy: 0.0001" TIR or better
- AT3 Class Taper
- H5 bore tolerance for optimum surface contact with cutting tool
- Coolant thru Flange capability - DIN-B (AD+B)
- High precision pilot holes
- Surface Finish: Ra<0.005mm

SHRINK FIT HOLDERS

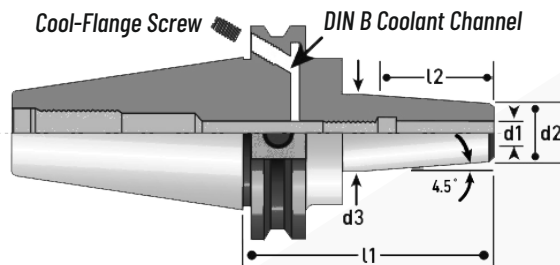
CAT40 TAPER - COOL-FLANGE DIN-B (AD+B)



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	PROJ. LENGTH L1	LENGTH L2
543001	CAT40-SFH1/8"-3.5"-CF Shrink Fit Holder	CAT40	1/8"	0.441"	0.736"	3.5"	2.120"
543002	CAT40-SFH1/8"-5"-CF Shrink Fit Holder	CAT40	1/8"	0.441"	0.894"	5"	3.620"
543003	CAT40-SFH3/16"-3.5"-CF Shrink Fit Holder	CAT40	3/16"	0.501"	0.718"	3.5"	2.120"
543004	CAT40-SFH3/16"-5"-CF Shrink Fit Holder	CAT40	3/16"	0.501"	0.954"	5"	3.620"
543005	CAT40-SFH1/4"-3.5"-CF Shrink Fit Holder	CAT40	1/4"	0.562"	0.856"	3.5"	2.120"
543006	CAT40-SFH1/4"-6"-CF Shrink Fit Holder	CAT40	1/4"	0.562"	1.118"	6"	4.620"
543007	CAT40-SFH5/16"-3.5"-CF Shrink Fit Holder	CAT40	5/16"	0.629"	0.924"	3.5"	2.120"
543008	CAT40-SFH5/16"-5"-CF Shrink Fit Holder	CAT40	5/16"	0.629"	1.081"	5"	3.620"
543009	CAT40-SFH3/8"-3.75"-CF Shrink Fit Holder	CAT40	3/8"	0.691"	1.013"	3.75"	2.370"
543010	CAT40-SFH3/8"-6"-CF Shrink Fit Holder	CAT40	3/8"	0.691"	1.248"	6"	4.620"
543011	CAT40-SFH7/16"-3"-CF Shrink Fit Holder	CAT40	7/16"	0.754"	0.997"	3"	1.620"
543012	CAT40-SFH1/2"-3.75"-CF Shrink Fit Holder	CAT40	1/2"	0.811"	1.133"	3.75"	2.370"
543013	CAT40-SFH1/2"-6"-CF Shrink Fit Holder	CAT40	1/2"	0.811"	1.368"	6"	4.620"
543014	CAT40-SFH5/8"-3.75"-CF Shrink Fit Holder	CAT40	5/8"	0.941"	1.263"	3.75"	2.370"
543015	CAT40-SFH3/4"-4"-CF Shrink Fit Holder	CAT40	3/4"	1.066"	1.414"	4"	2.620"
543016	CAT40-SFH3/4"-6"-CF Shrink Fit Holder	CAT40	3/4"	1.066"	1.623"	6"	4.620"
543017	CAT40-SFH1.0"-4"-CF Shrink Fit Holder	CAT40	1"	1.395"	1.668"	4"	2.620"
543018	CAT40-SFH1.0"-6"-CF Shrink Fit Holder	CAT40	1"	1.395"	1.871"	6"	4.561"
543019	CAT40-SFH1-1/4"-4"-CF Shrink Fit Holder	CAT40	1-1/4"	1.645"	1.910"	4"	2.542"

SHRINK FIT HOLDERS

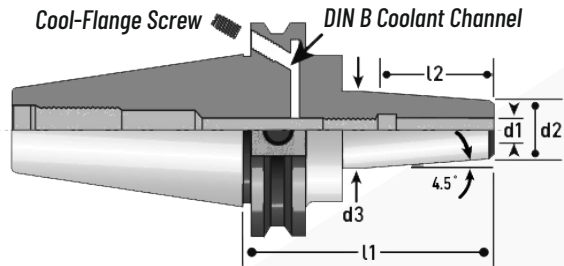
CAT50 TAPER - COOL-FLANGE DIN-B (AD+B)



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	PROJ. LENGTH L1	LENGTH L2
543021	CAT50-SFH1/8"-4"-CF Shrink Fit Holder	CAT50	1/8"	0.441"	0.789"	4"	2.620"
543022	CAT50-SFH3/16"-3.5"-CF Shrink Fit Holder	CAT50	3/16"	0.501"	0.796"	3.5"	2.120"
543023	CAT50-SFH3/16"-6"-CF Shrink Fit Holder	CAT50	3/16"	0.501"	1.058"	6"	4.620"
543024	CAT50-SFH1/4"-3.5"-CF Shrink Fit Holder	CAT50	1/4"	0.562"	0.856"	3.5"	2.120"
543025	CAT50-SFH1/4"-6"-CF Shrink Fit Holder	CAT50	1/4"	0.562"	1.118"	6"	4.620"
543026	CAT50-SFH5/16"-3.5"-CF Shrink Fit Holder	CAT50	5/16"	0.629"	0.924"	3.5"	2.120"
543027	CAT50-SFH3/8"-4"-CF Shrink Fit Holder	CAT50	3/8"	0.691"	1.039"	4"	2.620"
543028	CAT50-SFH3/8"-6"-CF Shrink Fit Holder	CAT50	3/8"	0.691"	1.248"	6"	4.620"
543029	CAT50-SFH1/2"-4"-CF Shrink Fit Holder	CAT50	1/2"	0.811"	1.159"	4"	2.620"
543030	CAT50-SFH1/2"-6"-CF Shrink Fit Holder	CAT50	1/2"	0.811"	1.368"	6"	4.620"
543031	CAT50-SFH5/8"-4"-CF Shrink Fit Holder	CAT50	5/8"	0.941"	1.289"	4"	2.620"
543032	CAT50-SFH5/8"-6"-CF Shrink Fit Holder	CAT50	5/8"	0.941"	1.498"	6"	4.620"
543033	CAT50-SFH3/4"-4"-CF Shrink Fit Holder	CAT50	3/4"	1.066"	1.414"	4"	2.620"
543034	CAT50-SFH3/4"-6"-CF Shrink Fit Holder	CAT50	3/4"	1.066"	1.623"	6"	4.620"
543035	CAT50-SFH1.00"-4"-CF Shrink Fit Holder	CAT50	1"	1.395"	1.743"	4"	2.620"
543036	CAT50-SFH1.00"-6"-CF Shrink Fit Holder	CAT50	1"	1.395"	1.952"	6"	4.620"
543037	CAT50-SFH1-1/4"-4"-CF Shrink Fit Holder	CAT50	1-1/4"	1.645"	1.993"	4"	2.620"
543038	CAT50-SFH1-1/4"-6"-CF Shrink Fit Holder	CAT50	1-1/4"	1.645"	2.202"	6"	4.620"

SHRINK FIT HOLDERS

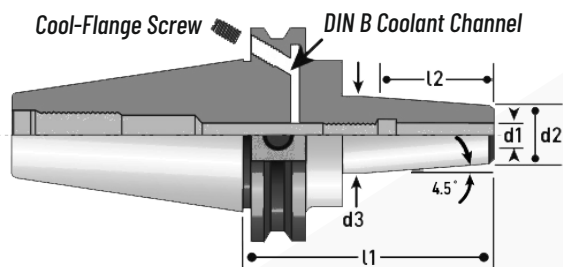
CAT40 TAPER - COOL-FLANGE DIN-B (AD+B) - METRIC SIZES



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	PROJ. LENGTH L1	LENGTH L2
543001M	CAT40-SFH3mm-80mm-CF Shrink Fit Holder	CAT40	3mm	0.433"	0.693"	80mm	1.769"
543002M	CAT40-SFH3mm-130mm-CF Shrink Fit Holder	CAT40	3mm	0.433"	0.899"	130mm	3.738"
543003M	CAT40-SFH4mm-80mm-CF Shrink Fit Holder	CAT40	4mm	0.472"	0.732"	80mm	1.769"
543004M	CAT40-SFH4mm-130mm-CF Shrink Fit Holder	CAT40	4mm	0.472"	0.938"	130mm	3.738"
543005M	CAT40-SFH5mm-80mm-CF Shrink Fit Holder	CAT40	5mm	0.511"	0.772"	80mm	1.769"
543006M	CAT40-SFH5mm-130mm-CF Shrink Fit Holder	CAT40	5mm	0.511"	0.978"	130mm	3.738"
543007M	CAT40-SFH6mm-80mm-CF Shrink Fit Holder	CAT40	6mm	0.551"	0.811"	80mm	1.769"
543008M	CAT40-SFH6mm-130mm-CF Shrink Fit Holder	CAT40	6mm	0.551"	1.017"	130mm	3.738"
543009M	CAT40-SFH8mm-80mm-CF Shrink Fit Holder	CAT40	8mm	0.629"	0.890"	80mm	1.769"
543010M	CAT40-SFH8mm-130mm-CF Shrink Fit Holder	CAT40	8mm	0.629"	1.096"	130mm	3.738"
543011M	CAT40-SFH10mm-80mm-CF Shrink Fit Holder	CAT40	10mm	0.708"	0.968"	80mm	1.769"
543012M	CAT40-SFH10mm-130mm-CF Shrink Fit Holder	CAT40	10mm	0.708"	1.175"	130mm	3.738"
543013M	CAT40-SFH12mm-80mm-CF Shrink Fit Holder	CAT40	12mm	0.787"	1.047"	80mm	1.769"
543014M	CAT40-SFH12mm-130mm-CF Shrink Fit Holder	CAT40	12mm	0.787"	1.253"	130mm	3.738"
543015M	CAT40-SFH14mm-80mm-CF Shrink Fit Holder	CAT40	14mm	0.866"	1.126"	80mm	1.769"
543016M	CAT40-SFH14mm-130mm-CF Shrink Fit Holder	CAT40	14mm	0.866"	1.332"	130mm	3.738"
543017M	CAT40-SFH16mm-80mm-CF Shrink Fit Holder	CAT40	16mm	0.944"	1.205"	80mm	1.769"
543018M	CAT40-SFH16mm-130mm-CF Shrink Fit Holder	CAT40	16mm	0.944"	1.411"	130mm	3.738"
543019M	CAT40-SFH18mm-80mm-CF Shrink Fit Holder	CAT40	18mm	1.023"	1.283"	80mm	1.769"
543020M	CAT40-SFH18mm-130mm-CF Shrink Fit Holder	CAT40	18mm	1.023"	1.490"	130mm	3.738"
543021M	CAT40-SFH20mm-80mm-CF Shrink Fit Holder	CAT40	20mm	1.102"	1.362"	80mm	1.769"
543022M	CAT40-SFH20mm-130mm-CF Shrink Fit Holder	CAT40	20mm	1.102"	1.568"	130mm	3.738"
543023M	CAT40-SFH20mm-160mm-CF Shrink Fit Holder	CAT40	20mm	1.102"	1.617"	160mm	4.919"
543024M	CAT40-SFH25mm-80mm-CF Shrink Fit Holder	CAT40	25mm	1.299"	1.559"	80mm	1.769"
543025M	CAT40-SFH25mm-130mm-CF Shrink Fit Holder	CAT40	25mm	1.299"	1.687"	130mm	3.704"
543026M	CAT40-SFH25mm-160mm-CF Shrink Fit Holder	CAT40	25mm	1.299"	1.811"	160mm	4.890"
543027M	CAT40-SFH32mm-80mm-CF Shrink Fit Holder	CAT40	32mm	1.574"	1.754"	80mm	1.716"
543028M	CAT40-SFH32mm-130mm-CF Shrink Fit Holder	CAT40	32mm	1.574"	1.962"	130mm	3.700"
543029M	CAT40-SFH32mm-160mm-CF Shrink Fit Holder	CAT40	32mm	1.574"	2.086"	160mm	4.881"

SHRINK FIT HOLDERS

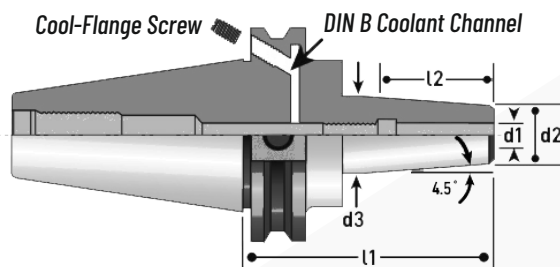
BT TAPER - COOL-FLANGE DIN-B (AD+B)



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	PROJ. LENGTH L1	LENGTH L2
543005BT3	BT30-SFH1/4"-3.15"-CF Shrink Fit Holder	BT30	1/4"	0.562"	0.874"	3.15"	2.283"
543006BT3	BT30-SFH1/4"-4"-CF Shrink Fit Holder	BT30	1/4"	0.562"	0.963"	4"	3.133"
543009BT3	BT30-SFH3/8"-3.15"-CF Shrink Fit Holder	BT30	3/8"	0.691"	1.004"	3.15"	2.283"
543010BT3	BT30-SFH3/8"-4"-CF Shrink Fit Holder	BT30	3/8"	0.691"	1.093"	4"	3.133"
543012BT3	BT30-SFH1/2"-3.15"-CF Shrink Fit Holder	BT30	1/2"	0.811"	1.124"	3.15"	2.283"
543013BT3	BT30-SFH1/2"-4"-CF Shrink Fit Holder	BT30	1/2"	0.811"	1.213"	4"	3.133"
543014BT3	BT30-SFH5/8"-3.15"-CF Shrink Fit Holder	BT30	5/8"	0.941"	1.254"	3.15"	2.283"
543015BT3	BT30-SFH3/4"-4"-CF Shrink Fit Holder	BT30	3/4"	1.066"	1.468"	4"	3.133"
543016BT3	BT30-SFH3/4"-6"-CF Shrink Fit Holder	BT30	3/4"	1.066"	1.677"	6"	5.133"
543003BT4	BT40-SFH3/16"-3.15"-CF Shrink Fit Holder	BT40	3/16"	0.501"	0.793"	3.15"	2.086"
543004BT4	BT40-SFH3/16"-6"-CF Shrink Fit Holder	BT40	3/16"	0.501"	1.092"	6"	4.937"
543005BT4	BT40-SFH1/4"-3.15"-CF Shrink Fit Holder	BT40	1/4"	0.562"	0.853"	3.15"	2.086"
543006BT4	BT40-SFH1/4"-6"-CF Shrink Fit Holder	BT40	1/4"	0.562"	1.152"	6"	4.937"
543009BT4	BT40-SFH3/8"-3.15"-CF Shrink Fit Holder	BT40	3/8"	0.691"	0.983"	3.15"	2.086"
543010BT4	BT40-SFH3/8"-6"-CF Shrink Fit Holder	BT40	3/8"	0.691"	1.282"	6"	4.937"
543012BT4	BT40-SFH1/2"-3.15"-CF Shrink Fit Holder	BT40	1/2"	0.811"	1.103"	3.15"	2.086"
543013BT4	BT40-SFH1/2"-6"-CF Shrink Fit Holder	BT40	1/2"	0.811"	1.402"	6"	4.937"
543014BT4	BT40-SFH5/8"-3.15"-CF Shrink Fit Holder	BT40	5/8"	0.941"	1.233"	3.15"	2.086"
543015BT4	BT40-SFH3/4"-4"-CF Shrink Fit Holder	BT40	3/4"	1.066"	1.447"	4"	2.937"
543016BT4	BT40-SFH3/4"-6"-CF Shrink Fit Holder	BT40	3/4"	1.066"	1.657"	6"	4.937"
543017BT4	BT40-SFH1.0"-4"-CF Shrink Fit Holder	BT40	1"	1.395"	1.776"	4"	2.937"
543018BT4	BT40-SFH1.0"-6"-CF Shrink Fit Holder	BT40	1"	1.395"	1.985"	6"	4.937"
543019BT4	BT40-SFH1-1/4"-4"-CF Shrink Fit Holder	BT40	1-1/4"	1.645"	2.026"	4"	2.937"

SHRINK FIT HOLDERS

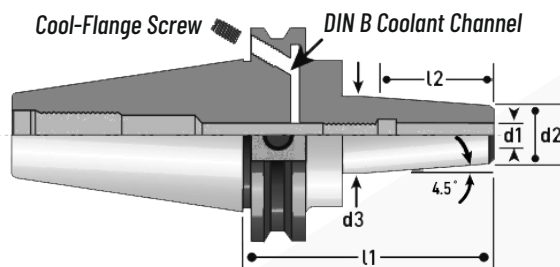
BT30 TAPER - COOL-FLANGE DIN-B (AD+B) - METRIC SIZES



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	PROJ. LENGTH L1	LENGTH L2
543001MBT3	BT30-SFH3mm-80mm-CF Shrink Fit Holder	BT30	3mm	0.433"	0.747"	80mm	2.283"
543002MBT3	BT30-SFH3mm-130mm-CF Shrink Fit Holder	BT30	3mm	0.433"	0.953"	130mm	4.251"
543003MBT3	BT30-SFH4mm-80mm-CF Shrink Fit Holder	BT30	4mm	0.472"	0.786"	80mm	2.283"
543004MBT3	BT30-SFH4mm-130mm-CF Shrink Fit Holder	BT30	4mm	0.472"	0.992"	130mm	4.251"
543007MBT3	BT30-SFH6mm-80mm-CF Shrink Fit Holder	BT30	6mm	0.551"	0.865"	80mm	2.283"
543008MBT3	BT30-SFH6mm-130mm-CF Shrink Fit Holder	BT30	6mm	0.551"	1.071"	130mm	4.251"
543009MBT3	BT30-SFH8mm-80mm-CF Shrink Fit Holder	BT30	8mm	0.629"	0.944"	80mm	2.283"
543010MBT3	BT30-SFH8mm-130mm-CF Shrink Fit Holder	BT30	8mm	0.629"	1.150"	130mm	4.251"
543011MBT3	BT30-SFH10mm-80mm-CF Shrink Fit Holder	BT30	10mm	0.708"	1.022"	80mm	2.283"
543012MBT3	BT30-SFH10mm-130mm-CF Shrink Fit Holder	BT30	10mm	0.708"	1.229"	130mm	4.251"
543013MBT3	BT30-SFH12mm-80mm-CF Shrink Fit Holder	BT30	12mm	0.787"	1.101"	80mm	2.283"
543014MBT3	BT30-SFH12mm-130mm-CF Shrink Fit Holder	BT30	12mm	0.787"	1.307"	130mm	4.251"
543017MBT3	BT30-SFH16mm-80mm-CF Shrink Fit Holder	BT30	16mm	0.944"	1.259"	80mm	2.283"
543018MBT3	BT30-SFH16mm-130mm-CF Shrink Fit Holder	BT30	16mm	0.944"	1.465"	130mm	4.251"
543021MBT3	BT30-SFH20mm-80mm-CF Shrink Fit Holder	BT30	20mm	1.102"	1.416"	80mm	2.283"
543022MBT3	BT30-SFH20mm-130mm-CF Shrink Fit Holder	BT30	20mm	1.102"	1.622"	130mm	4.251"
543023MBT3	BT30-SFH20mm-160mm-CF Shrink Fit Holder	BT30	20mm	1.102"	1.671"	160mm	5.433"
543024MBT3	BT30-SFH25mm-80mm-CF Shrink Fit Holder	BT30	25mm	1.299"	1.613"	80mm	2.283"
543025MBT3	BT30-SFH25mm-130mm-CF Shrink Fit Holder	BT30	25mm	1.299"	1.744"	130mm	4.251"
543026MBT3	BT30-SFH25mm-160mm-CF Shrink Fit Holder	BT30	25mm	1.299"	1.832"	160mm	5.087"

SHRINK FIT HOLDERS

BT40 TAPER - COOL-FLANGE DIN-B (AD+B) - METRIC SIZES



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	PROJ. LENGTH L1	LENGTH L2
543001MBT4	BT40-SFH3mm-80mm-CF Shrink Fit Holder	BT40	3mm	0.433"	0.726"	80mm	2.086"
543002MBT4	BT40-SFH3mm-130mm-CF Shrink Fit Holder	BT40	3mm	0.433"	0.932"	130mm	4.055"
543003MBT4	BT40-SFH4mm-80mm-CF Shrink Fit Holder	BT40	4mm	0.472"	0.765"	80mm	2.086"
543004MBT4	BT40-SFH4mm-130mm-CF Shrink Fit Holder	BT40	4mm	0.472"	0.972"	130mm	4.055"
543007MBT4	BT40-SFH6mm-80mm-CF Shrink Fit Holder	BT40	6mm	0.551"	0.844"	80mm	2.086"
543008MBT4	BT40-SFH6mm-130mm-CF Shrink Fit Holder	BT40	6mm	0.551"	1.051"	130mm	4.055"
543009MBT4	BT40-SFH8mm-80mm-CF Shrink Fit Holder	BT40	8mm	0.629"	0.923"	80mm	2.086"
543010MBT4	BT40-SFH8mm-130mm-CF Shrink Fit Holder	BT40	8mm	0.629"	1.129"	130mm	4.055"
543011MBT4	BT40-SFH10mm-80mm-CF Shrink Fit Holder	BT40	10mm	0.708"	1.002"	80mm	2.086"
543012MBT4	BT40-SFH10mm-130mm-CF Shrink Fit Holder	BT40	10mm	0.708"	1.208"	130mm	4.055"
543013MBT4	BT40-SFH12mm-80mm-CF Shrink Fit Holder	BT40	12mm	0.787"	1.080"	80mm	2.086"
543014MBT4	BT40-SFH12mm-130mm-CF Shrink Fit Holder	BT40	12mm	0.787"	1.287"	130mm	4.055"
543017MBT4	BT40-SFH16mm-80mm-CF Shrink Fit Holder	BT40	16mm	0.944"	1.238"	80mm	2.086"
543018MBT4	BT40-SFH16mm-130mm-CF Shrink Fit Holder	BT40	16mm	0.944"	1.444"	130mm	4.055"
543021MBT4	BT40-SFH20mm-80mm-CF Shrink Fit Holder	BT40	20mm	1.102"	1.395"	80mm	2.086"
543022MBT4	BT40-SFH20mm-130mm-CF Shrink Fit Holder	BT40	20mm	1.102"	1.602"	130mm	4.055"
543023MBT4	BT40-SFH20mm-160mm-CF Shrink Fit Holder	BT40	20mm	1.102"	1.725"	160mm	5.236"
543024MBT4	BT40-SFH25mm-80mm-CF Shrink Fit Holder	BT40	25mm	1.299"	1.592"	80mm	2.086"
543025MBT4	BT40-SFH25mm-130mm-CF Shrink Fit Holder	BT40	25mm	1.299"	1.798"	130mm	4.055"
543026MBT4	BT40-SFH25mm-160mm-CF Shrink Fit Holder	BT40	25mm	1.299"	1.922"	160mm	5.236"

SHRINK FIT HOLDERS - DUAL CONTACT WITH COOL-FLANGE DIN-B (AD+B) - CAT & BT



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.

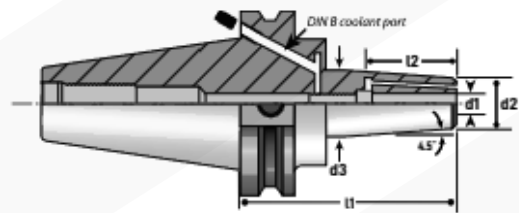
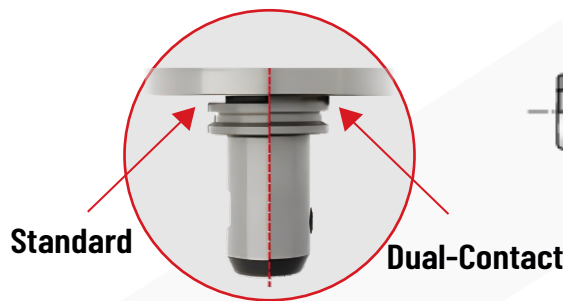


CORROSION PROTECTION

PAC Holders are surface treated,
preventing corrosion.



**E-COMMERCE
WEB PAGE**

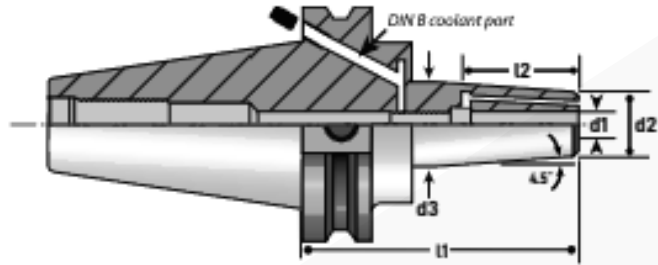


FEATURES :

- Balanced to 25,000 RPM at G2.5
- Corrosion Proof - all holders have special rust preventive coating
- Accuracy: 0.0001" TIR or better
- AT3 Class Taper
- H5 bore tolerance for optimum surface contact with cutting tool
- Coolant thru Flange capability - DIN-B (AD+B)
- High precision pilot holes
- Surface Finish: Ra<0.005mm

SHRINK FIT HOLDERS

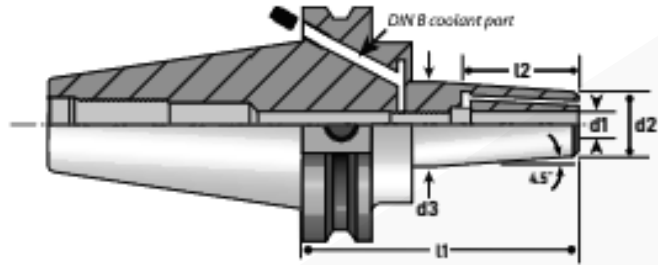
CAT40 TAPER DUAL CONTACT & COOL-FLANGE DIN-B (AD+B)



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	PROJ. LENGTH L1	LENGTH L2
543039	DCAT40-SFH1/8"-3.5"-CF Dual-Contact Shrink Fit Holder	DCAT40	1/8"	0.441"	0.736"	3.5"	2.120"
543040	DCAT40-SFH1/8"-5"-CF Dual-Contact Shrink Fit Holder	DCAT40	1/8"	0.441"	0.894"	5"	3.620"
543041	DCAT40-SFH3/16"-3.5"-CF Dual-Contact Shrink Fit Holder	DCAT40	3/16"	0.501"	0.718"	3.5"	2.120"
543042	DCAT40-SFH3/16"-5"-CF Dual-Contact Shrink Fit Holder	DCAT40	3/16"	0.501"	0.954"	5"	3.620"
543043	DCAT40-SFH1/4"-3.5"-CF Dual-Contact Shrink Fit Holder	DCAT40	1/4"	0.562"	0.856"	3.5"	2.120"
543044	DCAT40-SFH1/4"-6"-CF Dual-Contact Shrink Fit Holder	DCAT40	1/4"	0.562"	1.118"	6"	4.620"
543045	DCAT40-SFH5/16"-3.5"-CF Dual-Contact Shrink Fit Holder	DCAT40	5/16"	0.629"	0.924"	3.5"	2.120"
543046	DCAT40-SFH5/16"-5"-CF Dual-Contact Shrink Fit Holder	DCAT40	5/16"	0.629"	1.081"	5"	3.620"
543047	DCAT40-SFH3/8"-3.75"-CF Dual-Contact Shrink Fit Holder	DCAT40	3/8"	0.691"	1.013"	3.75"	2.370"
543048	DCAT40-SFH3/8"-6"-CF Dual-Contact Shrink Fit Holder	DCAT40	3/8"	0.691"	1.248"	6"	4.620"
543049	DCAT40-SFH7/16"-3"-CF Dual-Contact Shrink Fit Holder	DCAT40	7/16"	0.754"	0.997"	3"	1.620"
543050	DCAT40-SFH1/2"-3.75"-CF Dual-Contact Shrink Fit Holder	DCAT40	1/2"	0.811"	1.133"	3.75"	2.370"
543051	DCAT40-SFH1/2"-6"-CF Dual-Contact Shrink Fit Holder	DCAT40	1/2"	0.811"	1.368"	6"	4.620"
543052	DCAT40-SFH5/8"-3.75"-CF Dual-Contact Shrink Fit Holder	DCAT40	5/8"	0.941"	1.263"	3.75"	2.370"
543053	DCAT40-SFH3/4"-4"-CF Dual-Contact Shrink Fit Holder	DCAT40	3/4"	1.066"	1.414"	4"	2.620"
543054	DCAT40-SFH3/4"-6"-CF Dual-Contact Shrink Fit Holder	DCAT40	3/4"	1.066"	1.623"	6"	4.620"
543055	DCAT40-SFH1.0"-4"-CF Dual-Contact Shrink Fit Holder	DCAT40	1"	1.395"	1.668"	4"	2.620"

SHRINK FIT HOLDERS

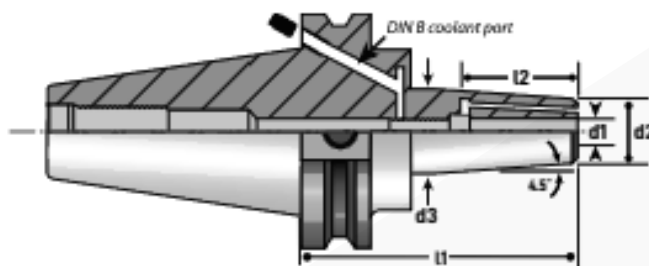
CAT50 TAPER DUAL CONTACT & COOL-FLANGE DIN-B (AD+B)



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	PROJ. LENGTH L1	LENGTH L2
543059	DCAT50-SFH1/8"-4"-CF Dual-Contact Shrink Fit Holder	DCAT50	1/8"	0.441"	0.789"	4"	2.620"
543060	DCAT50-SFH3/16"-3.5"-CF Dual-Contact Shrink Fit Holder	DCAT50	3/16"	0.501"	0.796"	3.5"	2.120"
543061	DCAT50-SFH3/16"-6"-CF Dual-Contact Shrink Fit Holder	DCAT50	3/16"	0.501"	1.058"	6"	4.620"
543062	DCAT50-SFH1/4"-3.5"-CF Dual-Contact Shrink Fit Holder	DCAT50	1/4"	0.562"	0.856"	3.5"	2.120"
543063	DCAT50-SFH1/4"-6"-CF Dual-Contact Shrink Fit Holder	DCAT50	1/4"	0.562"	1.118"	6"	4.620"
543064	DCAT50-SFH5/16"-3.5"-CF Dual-Contact Shrink Fit Holder	DCAT50	5/16"	0.629"	0.924"	3.5"	2.120"
543065	DCAT50-SFH3/8"-4"-CF Dual-Contact Shrink Fit Holder	DCAT50	3/8"	0.691"	1.039"	4"	2.620"
543066	DCAT50-SFH3/8"-6"-CF Dual-Contact Shrink Fit Holder	DCAT50	3/8"	0.691"	1.248"	6"	4.620"
543067	DCAT50-SFH1/2"-4"-CF Dual-Contact Shrink Fit Holder	DCAT50	1/2"	0.811"	1.159"	4"	2.620"
543068	DCAT50-SFH1/2"-6"-CF Dual-Contact Shrink Fit Holder	DCAT50	1/2"	0.811"	1.368"	6"	4.620"
543069	DCAT50-SFH5/8"-4"-CF Dual-Contact Shrink Fit Holder	DCAT50	5/8"	0.941"	1.289"	4"	2.620"
543070	DCAT50-SFH5/8"-6"-CF Dual-Contact Shrink Fit Holder	DCAT50	5/8"	0.941"	1.498"	6"	4.620"
543071	DCAT50-SFH3/4"-4"-CF Dual-Contact Shrink Fit Holder	DCAT50	3/4"	1.066"	1.414"	4"	2.620"
543072	DCAT50-SFH3/4"-6"-CF Dual-Contact Shrink Fit Holder	DCAT50	3/4"	1.066"	1.623"	6"	4.620"
543073	DCAT50-SFH1.00"-4"-CF Dual-Contact Shrink Fit Holder	DCAT50	1"	1.395"	1.743"	4"	2.620"
543074	DCAT50-SFH1.00"-6"-CF Dual-Contact Shrink Fit Holder	DCAT50	1"	1.395"	1.952"	6"	4.620"
543075	DCAT50-SFH1-1/4"-4"-CF Dual-Contact Shrink Fit Holder	DCAT50	1-1/4"	1.645"	1.993"	4"	2.620"
543076	DCAT50-SFH1-1/4"-6"-CF Dual-Contact Shrink Fit Holder	DCAT50	1-1/4"	1.645"	2.202"	6"	4.620"

SHRINK FIT HOLDERS

BT TAPER DUAL CONTACT & COOL-FLANGE DIN-B (AD+B)



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE D1 TO d1	OD SIZE D2 TO d1	OD SIZE D3 TO d3	PROJ. LENGTH L TO L1	LENGTH L1 TO L2
543005DBT3	BT30-SFH1/4"-3.15"-CF Dual-Contact Shrink Fit Holder	DBT30	1/4"	0.562"	0.874"	3.15"	2.283"
543006DBT3	BT30-SFH1/4"-4"-CF Dual-Contact Shrink Fit Holder	DBT30	1/4"	0.562"	0.963"	4"	3.133"
543009DBT3	BT30-SFH3/8"-3.15"-CF Dual-Contact Shrink Fit Holder	DBT30	3/8"	0.691"	1.004"	3.15"	2.283"
543010DBT3	BT30-SFH3/8"-4"-CF Dual-Contact Shrink Fit Holder	DBT30	3/8"	0.691"	1.093"	4"	3.133"
543012DBT3	BT30-SFH1/2"-3.15"-CF Dual-Contact Shrink Fit Holder	DBT30	1/2"	0.811"	1.124"	3.15"	2.283"
543013DBT3	BT30-SFH1/2"-4"-CF Dual-Contact Shrink Fit Holder	DBT30	1/2"	0.811"	1.213"	4"	3.133"
543014DBT3	BT30-SFH5/8"-3.15"-CF Dual-Contact Shrink Fit Holder	DBT30	5/8"	0.941"	1.254"	3.15"	2.283"
543015DBT3	BT30-SFH3/4"-4"-CF Dual-Contact Shrink Fit Holder	DBT30	3/4"	1.066"	1.468"	4"	3.133"
543016DBT3	BT30-SFH3/4"-6"-CF Dual-Contact Shrink Fit Holder	DBT30	3/4"	1.066"	1.677"	6"	5.133"
543003DBT4	BT40-SFH3/16"-3.15"-CF Dual-Contact Shrink Fit Holder	DBT40	3/16"	0.501"	0.793"	3.15"	2.086"
543004DBT4	BT40-SFH3/16"-6"-CF Dual-Contact Shrink Fit Holder	DBT40	3/16"	0.501"	1.092"	6"	4.937"
543005DBT4	BT40-SFH1/4"-3.15"-CF Dual-Contact Shrink Fit Holder	DBT40	1/4"	0.562"	0.853"	3.15"	2.086"
543006DBT4	BT40-SFH1/4"-6"-CF Dual-Contact Shrink Fit Holder	DBT40	1/4"	0.562"	1.152"	6"	4.937"
543009DBT4	BT40-SFH3/8"-3.15"-CF Dual-Contact Shrink Fit Holder	DBT40	3/8"	0.691"	0.983"	3.15"	2.086"
543010DBT4	BT40-SFH3/8"-6"-CF Dual-Contact Shrink Fit Holder	DBT40	3/8"	0.691"	1.282"	6"	4.937"
543012DBT4	BT40-SFH1/2"-3.15"-CF Dual-Contact Shrink Fit Holder	DBT40	1/2"	0.811"	1.103"	3.15"	2.086"
543013DBT4	BT40-SFH1/2"-6"-CF Dual-Contact Shrink Fit Holder	DBT40	1/2"	0.811"	1.402"	6"	4.937"
543014DBT4	BT40-SFH5/8"-3.15"-CF Dual-Contact Shrink Fit Holder	DBT40	5/8"	0.941"	1.233"	3.15"	2.086"
543015DBT4	BT40-SFH3/4"-4"-CF Dual-Contact Shrink Fit Holder	DBT40	3/4"	1.066"	1.447"	4"	2.937"
543016DBT4	BT40-SFH3/4"-6"-CF Dual-Contact Shrink Fit Holder	DBT40	3/4"	1.066"	1.657"	6"	4.937"
543017DBT4	BT40-SFH1.0"-4"-CF Dual-Contact Shrink Fit Holder	DBT40	1"	1.395"	1.776"	4"	2.937"
543018DBT4	BT40-SFH1.0"-6"-CF Dual-Contact Shrink Fit Holder	DBT40	1"	1.395"	1.985"	6"	4.937"
543019DBT4	BT40-SFH1-1/4"-4"-CF Dual-Contact Shrink Fit Holder	DBT40	1-1/4"	1.645"	2.026"	4"	2.937"

SHRINK FIT HOLDERS

HSK-A TAPER



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.



CORROSION PROTECTION

PAC Holders are surface treated,
preventing corrosion.



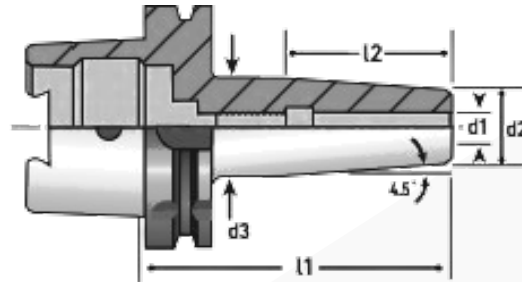
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FEATURES :

- Balanced to 25,000 RPM at G2.5
- Corrosion Proof - all holders have special rust preventive coating
- Accuracy: 0.0001" TIR or better
- AT3 Class Taper
- H5 bore tolerance for optimum surface contact with cutting tool
- Coolant thru Flange capability - DIN-B (AD+B)
- High precision pilot holes
- Surface Finish: Ra<0.005mm

SHRINK FIT HOLDERS

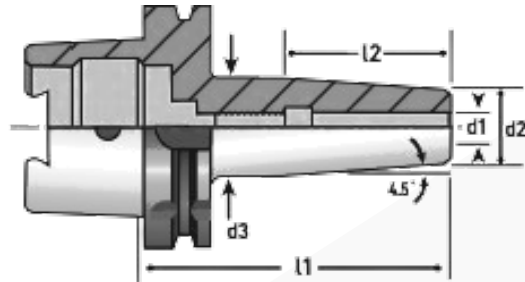
HSK-A TAPER



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	LENGTH L1	LENGTH L2
543001HSK5	HSK50A-SFH1"-3.15" Shrink Fit Holder	HSK50-A	1"	1.395"	1.691"	3.15"	2.125"
543003HSK6	HSK63A-SFH1/8"-3.15" Shrink Fit Holder	HSK63-A	1/8"	0.441"	0.737"	3.15"	2.125"
543004HSK6	HSK63A-SFH1/8"-5.12" Shrink Fit Holder	HSK63-A	1/8"	0.441"	0.944"	5.12"	4.096"
543005HSK6	HSK63A-SFH3/16"-3.15" Shrink Fit Holder	HSK63-A	3/16"	0.501"	0.797"	3.15"	2.125"
543006HSK6	HSK63A-SFH3/16"-5.12" Shrink Fit Holder	HSK63-A	3/16"	0.501"	1.004"	5.12"	4.096"
543007HSK6	HSK63A-SFH1/4"-3.15" Shrink Fit Holder	HSK63-A	1/4"	0.562"	0.857"	3.15"	2.125"
543008HSK6	HSK63A-SFH1/4"-5.12" Shrink Fit Holder	HSK63-A	1/4"	0.562"	1.064"	5.12"	4.096"
543009HSK6	HSK63A-SFH5/16"-3.15" Shrink Fit Holder	HSK63-A	5/16"	0.629"	0.925"	3.15"	2.125"
543010HSK6	HSK63A-SFH3/8"-3.35" Shrink Fit Holder	HSK63-A	3/8"	0.691"	0.987"	3.35"	2.125"
543011HSK6	HSK63A-SFH3/8"-5.12" Shrink Fit Holder	HSK63-A	3/8"	0.691"	1.194"	5.12"	4.096"
543012HSK6	HSK63A-SFH1/2"-3.54" Shrink Fit Holder	HSK63-A	1/2"	0.811"	1.107"	3.54"	2.125"
543013HSK6	HSK63A-SFH1/2"-5.12" Shrink Fit Holder	HSK63-A	1/2"	0.811"	1.314"	5.12"	4.096"
543014HSK6	HSK63A-SFH1/2"-6.3" Shrink Fit Holder	HSK63-A	1/2"	0.811"	1.437"	6.3"	5.275"
543015HSK6	HSK63A-SFH5/8"-3.74" Shrink Fit Holder	HSK63-A	5/8"	0.941"	1.237"	3.74"	2.125"
543016HSK6	HSK63A-SFH5/8"-5.12" Shrink Fit Holder	HSK63-A	5/8"	0.941"	1.444"	5.12"	4.096"
543017HSK6	HSK63A-SFH3/4"-3.94" Shrink Fit Holder	HSK63-A	3/4"	1.066"	1.362"	3.94"	2.125"
543018HSK6	HSK63A-SFH3/4"-5.12" Shrink Fit Holder	HSK63-A	3/4"	1.066"	1.571"	5.12"	4.096"
543019HSK6	HSK63A-SFH3/4"-6.3" Shrink Fit Holder	HSK63-A	3/4"	1.066"	1.692"	6.3"	5.275"
543020HSK6	HSK63A-SFH3/4"-8" Shrink Fit Holder	HSK63-A	3/4"	1.066"	1.870"	8"	6.976"
543021HSK6	HSK63A-SFH7/8"-3.15" Shrink Fit Holder	HSK63-A	7/8"	1.191"	1.487"	3.15"	2.125"
543022HSK6	HSK63A-SFH1"-4.53" Shrink Fit Holder	HSK63-A	1"	1.395"	1.691"	4.53"	2.125"
543023HSK6	HSK63A-SFH1"-5.12" Shrink Fit Holder	HSK63-A	1"	1.395"	1.897"	5.12"	4.096"
543024HSK6	HSK63A-SFH1"-6.3" Shrink Fit Holder	HSK63-A	1"	1.395"	2.021"	6.3"	5.275"
543025HSK6	HSK63A-SFH1"-8" Shrink Fit Holder	HSK63-A	1"	1.395"	2.086"	8"	6.610"
543026HSK6	HSK63A-SFH1-1/4"-4.72" Shrink Fit Holder	HSK63-A	1-1/4"	1.645"	1.941"	4.72"	2.125"
543027HSK6	HSK63A-SFH1-1/4"-5.12" Shrink Fit Holder	HSK63-A	1-1/4"	1.645"	2.147"	5.12"	4.096"
543028HSK6	HSK63A-SFH1-1/4"-6.3" Shrink Fit Holder	HSK63-A	1-1/4"	1.645"	2.086"	6.3"	4.225"

SHRINK FIT HOLDERS

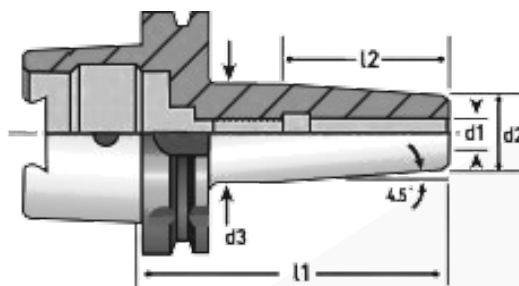
HSK-A TAPER



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	LENGTH L1	LENGTH L2
543030HSK1	HSK100A-SFH1/4"-3.35" Shrink Fit Holder	HSK100-A	1/4"	0.562"	0.845"	3.35"	2.007"
543031HSK1	HSK100A-SFH1/4"-5.12" Shrink Fit Holder	HSK100-A	1/4"	0.562"	1.051"	5.12"	3.978"
543032HSK1	HSK100A-SFH5/16"-3.35" Shrink Fit Holder	HSK100-A	5/16"	0.629"	0.912"	3.35"	2.007"
543033HSK1	HSK100A-SFH3/8"-3.54" Shrink Fit Holder	HSK100-A	3/8"	0.691"	0.975"	3.54"	2.007"
543034HSK1	HSK100A-SFH3/8"-5.12" Shrink Fit Holder	HSK100-A	3/8"	0.691"	1.181"	5.12"	3.978"
543035HSK1	HSK100A-SFH1/2"-3.74" Shrink Fit Holder	HSK100-A	1/2"	0.811"	1.095"	3.74"	2.007"
543036HSK1	HSK100A-SFH1/2"-5.12" Shrink Fit Holder	HSK100-A	1/2"	0.811"	1.301"	5.12"	3.978"
543037HSK1	HSK100A-SFH1/2"-6.3" Shrink Fit Holder	HSK100-A	1/2"	0.811"	1.425"	6.3"	5.157"
543038HSK1	HSK100A-SFH5/8"-3.94" Shrink Fit Holder	HSK100-A	5/8"	0.941"	1.225"	3.94"	2.007"
543039HSK1	HSK100A-SFH5/8"-5.12" Shrink Fit Holder	HSK100-A	5/8"	0.941"	1.431"	5.12"	3.978"
543040HSK1	HSK100A-SFH3/4"-4.13" Shrink Fit Holder	HSK100-A	3/4"	1.066"	1.350"	4.13"	2.007"
543041HSK1	HSK100A-SFH3/4"-5.12" Shrink Fit Holder	HSK100-A	3/4"	1.066"	1.556"	5.12"	3.978"
543042HSK1	HSK100A-SFH3/4"-6.3" Shrink Fit Holder	HSK100-A	3/4"	1.066"	1.680"	6.3"	5.157"
543043HSK1	HSK100A-SFH3/4"-8" Shrink Fit Holder	HSK100-A	3/4"	1.066"	1.858"	8"	6.858"
543044HSK1	HSK100A-SFH7/8"-3.15" Shrink Fit Holder	HSK100-A	7/8"	1.191"	1.475"	3.15"	2.007"
543045HSK1	HSK100A-SFH1"-4.53" Shrink Fit Holder	HSK100-A	1"	1.395"	1.678"	4.53"	2.007"
543046HSK1	HSK100A-SFH1"-5.12" Shrink Fit Holder	HSK100-A	1"	1.395"	1.885"	5.12"	3.978"
543047HSK1	HSK100A-SFH1"-6.3" Shrink Fit Holder	HSK100-A	1"	1.395"	2.009"	6.3"	5.157"
543048HSK1	HSK100A-SFH1"-8" Shrink Fit Holder	HSK100-A	1"	1.395"	2.187"	8"	6.858"
543049HSK1	HSK100A-SFH1-1/4"-4.72" Shrink Fit Holder	HSK100-A	1-1/4"	1.645"	1.928"	4.72"	2.007"
543050HSK1	HSK100A-SFH1-1/4"-5.12" Shrink Fit Holder	HSK100-A	1-1/4"	1.645"	2.135"	5.12"	3.978"
543051HSK1	HSK100A-SFH1-1/4"-6.3" Shrink Fit Holder	HSK100-A	1-1/4"	1.645"	2.259"	6.3"	5.157"

SHRINK FIT HOLDERS

HSK-A TAPER - METRIC SIZE



PART NUMBER	DESCRIPTION	TAPER	ID BORE SIZE d1	OD SIZE d2	OD SIZE d3	LENGTH L1	LENGTH L2
543003HSK6M	HSK63-A-6MM-80L Shrink Fit Holder	HSK63-A	6mm	0.551"	0.848"	80mm	2.125"
543004HSK6M	HSK63-A-8MM-80L Shrink Fit Holder	HSK63-A	8mm	0.629"	0.827"	80mm	2.125"
543005HSK6M	HSK63-A-10MM-85L Shrink Fit Holder	HSK63-A	10mm	0.708"	1.005"	85mm	2.125"
543006HSK6M	HSK63-A-12MM-90L Shrink Fit Holder	HSK63-A	12mm	0.787"	1.084"	90mm	2.125"
543007HSK6M	HSK63-A-16MM-95L Shrink Fit Holder	HSK63-A	16mm	0.944"	1.242"	95mm	2.125"
543008HSK6M	HSK63-A-20MM-100L Shrink Fit Holder	HSK63-A	20mm	1.102"	1.399"	100mm	2.125"
543009HSK6M	HSK63-A-20MM-130L Shrink Fit Holder	HSK63-A	20mm	1.102"	1.606"	130mm	4.094"
543010HSK6M	HSK63-A-25MM-115L Shrink Fit Holder	HSK63-A	25mm	1.299"	1.803"	115mm	2.125"
543011HSK6M	HSK63-A-25MM-130L Shrink Fit Holder	HSK63-A	25mm	1.299"	1.872"	130mm	4.094"
543012HSK6M	HSK63-A-32MM-120L Shrink Fit Holder	HSK63-A	32mm	1.574"	1.872"	120mm	2.125"
543013HSK6M	HSK63-A-32MM-130L Shrink Fit Holder	HSK63-A	32mm	1.574"	2.078"	130mm	4.094"
543016HSK1M	HSK100-A-6MM-85L Shrink Fit Holder	HSK100-A	6mm	0.551"	0.836"	85mm	2.007"
543017HSK1M	HSK100-A-8MM-85L Shrink Fit Holder	HSK100-A	8mm	0.629"	0.915"	85mm	2.007"
543018HSK1M	HSK100-A-10MM-90L Shrink Fit Holder	HSK100-A	10mm	0.708"	0.993"	90mm	2.007"
543019HSK1M	HSK100-A-12MM-95L Shrink Fit Holder	HSK100-A	12mm	0.787"	1.072"	95mm	2.007"
543020HSK1M	HSK100-A-16MM-100L Shrink Fit Holder	HSK100-A	16mm	0.944"	1.230"	100mm	2.007"
543021HSK1M	HSK100-A-20MM-105L Shrink Fit Holder	HSK100-A	20mm	1.102"	1.387"	105mm	2.007"
543022HSK1M	HSK100-A-25MM-115L Shrink Fit Holder	HSK100-A	25mm	1.102"	1.584"	115mm	2.007"
543023HSK1M	HSK100-A-25MM-130L Shrink Fit Holder	HSK100-A	25mm	1.299"	1.790"	130mm	3.976"
543024HSK1M	HSK100-A-32MM-120L Shrink Fit Holder	HSK100-A	32mm	1.299"	1.860"	120mm	2.007"
543025HSK1M	HSK100-A-32MM-130L Shrink Fit Holder	HSK100-A	32mm	1.574"	2.066"	130mm	3.976"

HSK COOLANT TUBE & WRENCHES



DESCRIPTION	COOLANT TUBE PART NUMBER	WRENCHES PART NUMBER
HSK50	52000CT-HSK50	52000W-HSK50
HSK63	52000CT-HSK63	52000W-HSK63
HSK100	52000CT-HSK100	52000W-HSK100

FACEMILL HOLDERS - CAT & BT



Each holder comes with Inspection Certificate. PAC Certified For Quality.

PAC CERTIFIED QUALITY



PAC Holders are surface treated, preventing corrosion.

CORROSION PROTECTION



**E-COMMERCE
WEB PAGE**



FEATURES :

- Balanced to 25,000 RPM at G2.5
- Corrosion Proof - all holders have special rust preventive coating
- AT3 Class Taper
- H6 arbor tolerance
- High precision pilot holes
- Hardness: HRC 56-58
- Carbon depth: 0.8mm +/-0.2mm
- Surface Finish: Ra<0.005mm
- Crafted from case hardened alloy steel



PG. 64



PG. 183



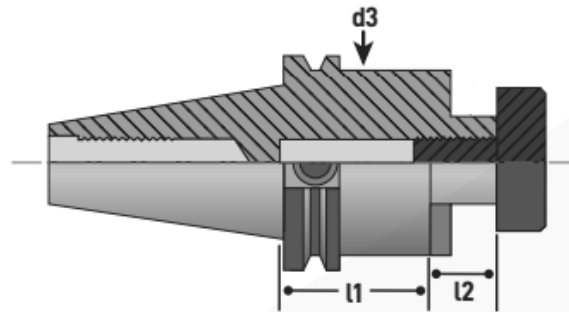
PG. 206



PG. 208

FACEMILL HOLDERS

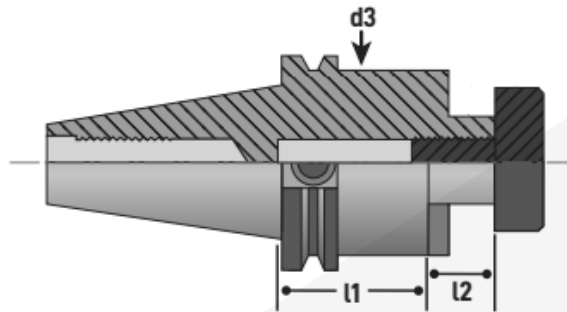
CAT40 TAPER



PART NUMBER	DESCRIPTION	TAPER	ARBOR SIZE	PROJ. LENGTH L1	L2	OD DIA d3
615001	CAT40-FMA3/4"-1-3/4"-CF Holder	CAT40	3/4"	1-3/4"	0.689"	1.75"
615002	CAT40-FMA3/4"-4"-CF Holder	CAT40	3/4"	4"	0.689"	1.75"
615003	CAT40-FMA3/4"-6"-CF Holder	CAT40	3/4"	6"	0.689"	1.75"
615003-8	CAT40-FMA3/4"-8"-CF Holder	CAT40	3/4"	8"	0.689"	1.75"
615003-10	CAT40-FMA3/4"-10"-CF Holder	CAT40	3/4"	10"	0.689"	1.75"
615004	CAT40-FMA1.0"-2"-CF Holder	CAT40	1"	2"	0.689"	2.362"
615005	CAT40-FMA1.0"-4"-CF Holder	CAT40	1"	4"	0.689"	2.362"
615006	CAT40-FMA1.0"-6"-CF Holder	CAT40	1"	6"	0.689"	2.362"
615006-8	CAT40-FMA1.0"-8"-CF Holder	CAT40	1"	8"	0.689"	2.362"
615006-10	CAT40-FMA1.0"-10"-CF Holder	CAT40	1"	10"	0.689"	2.362"
615007	CAT40-FMA1-1/4"-2"-CF Holder	CAT40	1-1/4"	2"	0.689"	2.874"
615008	CAT40-FMA1-1/4"-4"-CF Holder	CAT40	1-1/4"	4"	0.689"	2.874"
615009	CAT40-FMA1-1/4"-6"-CF Holder	CAT40	1-1/4"	6"	0.689"	2.874"
615009-8	CAT40-FMA1-1/4"-8"-CF Holder	CAT40	1-1/4"	8"	0.689"	2.874"
615009-10	CAT40-FMA1-1/4"-10"-CF Holder	CAT40	1-1/4"	10"	0.689"	2.874"
615010	CAT40-FMA1-1/2"-2"-CF Holder	CAT40	1-1/2"	2"	0.937"	3.818"
615011	CAT40-FMA1-1/2"-4"-CF Holder	CAT40	1-1/2"	4"	0.937"	3.818"
615012	CAT40-FMA1-1/2"-6"-CF Holder	CAT40	1-1/2"	6"	0.937"	3.818"
615012-8	CAT40-FMA1-1/2"-8"-CF Holder	CAT40	1-1/2"	8"	0.937"	3.818"
615012-10	CAT40-FMA1-1/2"-10"-CF Holder	CAT40	1-1/2"	10"	0.937"	3.818"

FACEMILL HOLDERS

CAT50 TAPER



PART NUMBER	DESCRIPTION	TAPER	ARBOR SIZE	PROJ. LENGTH L1	L2	OD DIA d3
615013A	CAT50-FMA3/4"-1-3/4"-CF Holder	CAT50	3/4"	2"	0.689"	1.75"
615014	CAT50-FMA3/4"-4"-CF Holder	CAT50	3/4"	4"	0.689"	1.75"
615015	CAT50-FMA3/4"-6"-CF Holder	CAT50	3/4"	6"	0.689"	1.75"
615015-8	CAT50-FMA3/4"-8"-CF Holder	CAT50	3/4"	8"	0.689"	1.75"
615015-10	CAT50-FMA3/4"-10"-CF Holder	CAT50	3/4"	10"	0.689"	1.75"
615016	CAT50-FMA1.0"-2"-CF Holder	CAT50	1"	2"	0.689"	1.75"
615017	CAT50-FMA1.0"-4"-CF Holder	CAT50	1"	4"	0.689"	2.362"
615018	CAT50-FMA1.0"-6"-CF Holder	CAT50	1"	6"	0.689"	2.362"
615018-8	CAT50-FMA1.0"-8"-CF Holder	CAT50	1"	8"	0.689"	2.362"
615018-10	CAT50-FMA1.0"-10"-CF Holder	CAT50	1"	10"	0.689"	2.362"
615019	CAT50-FMA1-1/4"-2"-CF Holder	CAT50	1-1/4"	2"	0.689"	2.874"
615020	CAT50-FMA1-1/4"-4"-CF Holder	CAT50	1-1/4"	4"	0.689"	2.874"
615021	CAT50-FMA1-1/4"-6"-CF Holder	CAT50	1-1/4"	6"	0.689"	2.874"
615021-8	CAT50-FMA1-1/4"-8"-CF Holder	CAT50	1-1/4"	8"	0.689"	2.874"
615021-10	CAT50-FMA1-1/4"-10"-CF Holder	CAT50	1-1/4"	10"	0.689"	2.874"
615022	CAT50-FMA1-1/2"-2"-CF Holder	CAT50	1-1/2"	2"	0.937"	3.818"
615023	CAT50-FMA1-1/2"-4"-CF Holder	CAT50	1-1/2"	4"	0.937"	3.818"
615024	CAT50-FMA1-1/2"-6"-CF Holder	CAT50	1-1/2"	6"	0.937"	3.818"
615024-8	CAT50-FMA1-1/2"-8"-CF Holder	CAT50	1-1/2"	8"	0.937"	3.818"
615024-10	CAT50-FMA1-1/2"-10"-CF Holder	CAT50	1-1/2"	10"	0.937"	3.818"
615025	CAT50-FMA2"-4"-CF Holder	CAT50	2"	4"	0.944"	3.818"



PG. 64



PG. 183



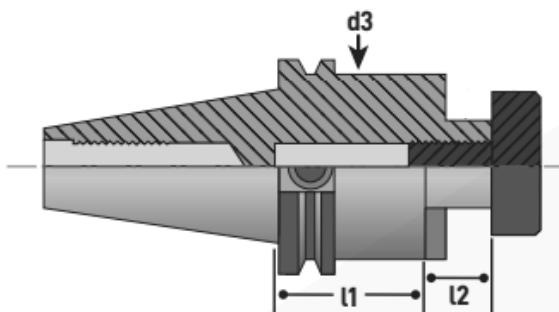
PG. 206



PG. 208

FACEMILL HOLDERS

BT TAPER



PART NUMBER	DESCRIPTION	TAPER	ARBOR SIZE	PROJ. LENGTH L1	L2	OD DIA d3
515001	BT30-FMA3/4"-2"-CF Holder	BT30	3/4"	2"	0.689"	1.75"
515002	BT30-FMA1"-2"-CF Holder	BT30	1"	2"	0.689"	2.362"
515003	BT30-FMA1-1/2"-2"-CF Holder	BT30	1-1/2"	2"	0.937"	3.818"
515004	BT30-FMA1-1/4"-2"-CF Holder	BT30	1-1/4"	2"	0.689"	2.874"
515007	BT40-FMA3/4"-4"-CF Holder	BT40	3/4"	4"	0.689"	1.75"
515005	BT40-FMA1-1/2"-2"-CF Holder	BT40	1-1/2"	2"	0.937"	3.818"
515006	BT40-FMA1-1/4"-3"-CF Holder	BT40	1-1/4"	3"	0.689"	2.874"
515011	BT50-FMA3/4"-2"-CF Holder	BT50	3/4"	2"	0.689"	1.75"
515012	BT50-FMA3/4"-4"-CF Holder	BT50	3/4"	4"	0.689"	1.75"
515013	BT50-FMA3/4"-6"-CF Holder	BT50	3/4"	6"	0.689"	1.75"
515008	BT50-FMA1"-4"-CF Holder	BT50	1"	4"	0.689"	2.362"
515009	BT50-FMA1"-6"-CF Holder	BT50	1"	6"	0.689"	2.362"
515010	BT50-FMA1-1/4"-4"-CF Holder	BT50	1-1/4"	4"	0.689"	2.874"

FACEMILL HOLDERS DUAL CONTACT - CAT & BT



Each holder comes with Inspection Certificate.
PAC Certified For Quality.

PAC CERTIFIED QUALITY

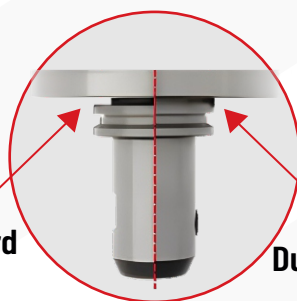


PAC Holders are surface treated,
preventing corrosion.

CORROSION PROTECTION



**E-COMMERCE
WEB PAGE**



Standard

Dual-Contact

FEATURES :

- Balanced to 25,000 RPM at G2.5
- Holder Taper is design for dual contact Spindle
- Corrosion Proof - all holders have special rust preventive coating
- AT3 Class Taper
- H6 arbor tolerance
- High precision pilot holes
- Hardness: HRC 56-58
- Carbon depth: 0.8mm +/-0.2mm
- Surface Finish: Ra<0.005mm
- Crafted from case hardened alloy steel



PG. 64



PG. 183



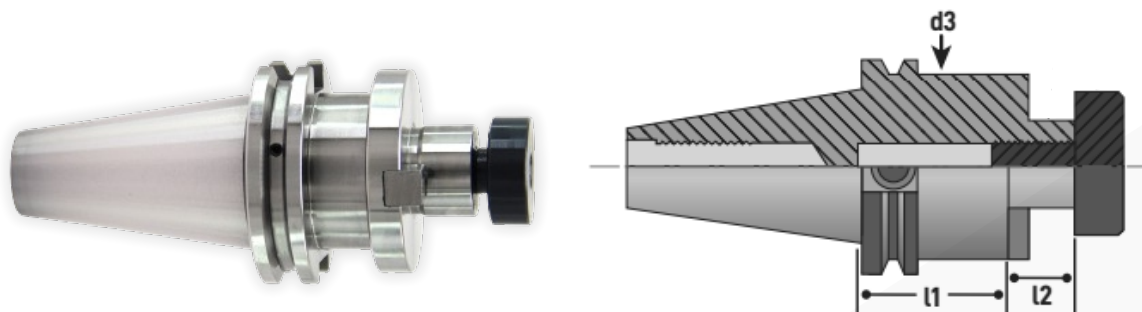
PG. 206



PG. 208

FACEMILL HOLDERS

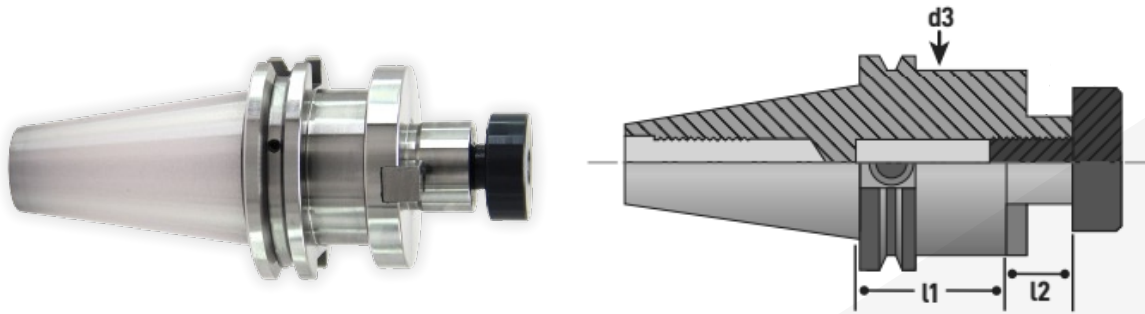
DUAL CONTACT - CAT40 TAPER



PART NUMBER	DESCRIPTION	TAPER	ARBOR SIZE	PROJ. LENGTH L1	L2	OD DIA d3
616001	DCAT40-FMA3/4"-1-3/4"-CF Dual-Contact Holder	DCAT40	3/4"	1-3/4"	0.689"	1.75"
616002	DCAT40-FMA3/4"-4"-CF Dual-Contact Holder	DCAT40	3/4"	4"	0.689"	1.75"
616003	DCAT40-FMA3/4"-6"-CF Dual-Contact Holder	DCAT40	3/4"	6"	0.689"	1.75"
616003-8	DCAT40-FMA3/4"-8"-CF Dual-Contact Holder	DCAT40	3/4"	8"	0.689"	1.75"
616003-10	DCAT40-FMA3/4"-10"-CF Dual-Contact Holder	DCAT40	3/4"	10"	0.689"	1.75"
616004	DCAT40-FMA1.0"-2"-CF Dual-Contact Holder	DCAT40	1"	2"	0.689"	2.362"
616005	DCAT40-FMA1.0"-4"-CF Dual-Contact Holder	DCAT40	1"	4"	0.689"	2.362"
616006	DCAT40-FMA1.0"-6"-CF Dual-Contact Holder	DCAT40	1"	6"	0.689"	2.362"
616006-8	DCAT40-FMA1.0"-8"-CF Dual-Contact Holder	DCAT40	1"	8"	0.689"	2.362"
616006-10	DCAT40-FMA1.0"-10"-CF Dual-Contact Holder	DCAT40	1"	10"	0.689"	2.362"
616007	DCAT40-FMA1-1/4"-2"-CF Dual-Contact Holder	DCAT40	1-1/4"	2"	0.689"	2.874"
616008	DCAT40-FMA1-1/4"-4"-CF Dual-Contact Holder	DCAT40	1-1/4"	4"	0.689"	2.874"
616009	DCAT40-FMA1-1/4"-6"-CF Dual-Contact Holder	DCAT40	1-1/4"	6"	0.689"	2.874"
616009-8	DCAT40-FMA1-1/4"-8"-CF Dual-Contact Holder	DCAT40	1-1/4"	8"	0.689"	2.874"
616009-10	DCAT40-FMA1-1/4"-10"-CF Dual-Contact Holder	DCAT40	1-1/4"	10"	0.689"	2.874"
616010	DCAT40-FMA1-1/2"-2"-CF Dual-Contact Holder	DCAT40	1-1/2"	2"	0.937"	3.818"
616011	DCAT40-FMA1-1/2"-4"-CF Dual-Contact Holder	DCAT40	1-1/2"	4"	0.937"	3.818"
616012	DCAT40-FMA1-1/2"-6"-CF Dual-Contact Holder	DCAT40	1-1/2"	6"	0.937"	3.818"
616012-8	DCAT40-FMA1-1/2"-8"-CF Dual-Contact Holder	DCAT40	1-1/2"	8"	0.937"	3.818"
616012-10	DCAT40-FMA1-1/2"-10"-CF Dual-Contact Holder	DCAT40	1-1/2"	10"	0.937"	3.818"

FACEMILL HOLDERS

DUAL CONTACT - CAT50 TAPER



PART NUMBER	DESCRIPTION	TAPER	ARBOR SIZE	PROJ. LENGTH L1	L2	OD DIA d3
616013-2	DCAT50-FMA3/4"-1-3/4"-CF Dual-Contact Holder	DCAT50	3/4"	2"	0.689"	1.75"
616014	DCAT50-FMA3/4"-4"-CF Dual-Contact Holder	DCAT50	3/4"	4"	0.689"	1.75"
616015	DCAT50-FMA3/4"-6"-CF Dual-Contact Holder	DCAT50	3/4"	6"	0.689"	1.75"
616015-8	DCAT50-FMA3/4"-8"-CF Dual-Contact Holder	DCAT50	3/4"	8"	0.689"	1.75"
616015-10	DCAT50-FMA3/4"-10"-CF Dual-Contact Holder	DCAT50	3/4"	10"	0.689"	1.75"
616016	DCAT50-FMA1.0"-2"-CF Dual-Contact Holder	DCAT50	1"	2"	0.689"	2.362"
616017	DCAT50-FMA1.0"-4"-CF Dual-Contact Holder	DCAT50	1"	4"	0.689"	2.362"
616018	DCAT50-FMA1.0"-6"-CF Dual-Contact Holder	DCAT50	1"	6"	0.689"	2.362"
616018-8	DCAT50-FMA1.0"-8"-CF Dual-Contact Holder	DCAT50	1"	8"	0.689"	2.362"
616018-10	DCAT50-FMA1.0"-10"-CF Dual-Contact Holder	DCAT50	1"	10"	0.689"	2.362"
616019	DCAT50-FMA1-1/4"-2"-CF Dual-Contact Holder	DCAT50	1-1/4"	2"	0.689"	2.874"
616020	DCAT50-FMA1-1/4"-4"-CF Dual-Contact Holder	DCAT50	1-1/4"	4"	0.689"	2.874"
616021	DCAT50-FMA1-1/4"-6"-CF Dual-Contact Holder	DCAT50	1-1/4"	6"	0.689"	2.874"
616021-8	DCAT50-FMA1-1/4"-8"-CF Dual-Contact Holder	DCAT50	1-1/4"	8"	0.689"	2.874"
616021-10	DCAT50-FMA1-1/4"-10"-CF Dual-Contact Holder	DCAT50	1-1/4"	10"	0.689"	2.874"
616022	DCAT50-FMA1-1/2"-2"-CF Dual-Contact Holder	DCAT50	1-1/2"	2"	0.937"	3.818"
616023	DCAT50-FMA1-1/2"-4"-CF Dual-Contact Holder	DCAT50	1-1/2"	4"	0.937"	3.818"
616024	DCAT50-FMA1-1/2"-6"-CF Dual-Contact Holder	DCAT50	1-1/2"	6"	0.937"	3.818"
616024-8	DCAT50-FMA1-1/2"-8"-CF Dual-Contact Holder	DCAT50	1-1/2"	8"	0.937"	3.818"
616024-10	DCAT50-FMA1-1/2"-10"-CF Dual-Contact Holder	DCAT50	1-1/2"	10"	0.937"	3.818"
616025	DCAT50-FMA2"-4"-CF Dual-Contact Holder	DCAT50	1-1/2"	4"	0.944"	3.818"



PG. 64



PG. 183



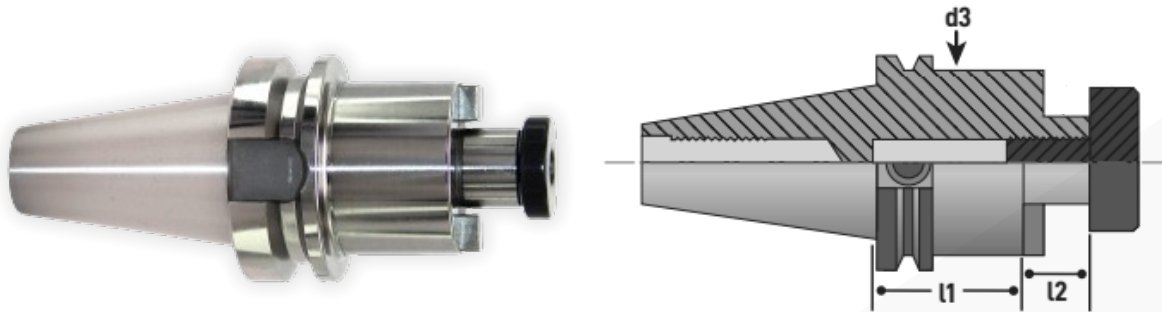
PG. 206



PG. 208

FACEMILL HOLDERS

DUAL CONTACT - BT TAPER



PART NUMBER	DESCRIPTION	TAPER	ARBOR SIZE	PROJ. LENGTH L1	L2	OD DIA d3
516001	DBT30-FMA3/4"-2"-CF Dual-Contact Holder	DBT30	3/4"	2"	0.689"	1.75"
516002	DBT30-FMA1"-2"-CF Dual-Contact Holder	DBT30	1"	2"	0.689"	2.362"
516003	DBT30-FMA1-1/2"-2"-CF Dual-Contact Holder	DBT30	1-1/2"	2"	0.937"	3.818"
516004	DBT30-FMA1-1/4"-2"-CF Dual-Contact Holder	DBT30	1-1/4"	2"	0.689"	2.874"
516007	DBT40-FMA3/4"-4"-CF Dual-Contact Holder	DBT40	3/4"	4"	0.689"	1.75"
516005	DBT40-FMA1-1/2"-4"-CF Dual-Contact Holder	DBT40	1-1/2"	4"	0.937"	3.818"
516006	DBT40-FMA1-1/4"-4"-CF Dual-Contact Holder	DBT40	1-1/4"	4"	0.689"	2.874"
516012	DBT50-FMA3/4"-2"-CF Dual-Contact Holder	DBT50	3/4"	2"	0.689"	1.75"
516013	DBT50-FMA3/4"-4"-CF Dual-Contact Holder	DBT50	3/4"	4"	0.689"	1.75"
516014	DBT50-FMA3/4"-6"-CF Dual-Contact Holder	DBT50	3/4"	6"	0.689"	1.75"
516015	DBT50-FMA3/4"-8"-CF Dual-Contact Holder	DBT50	3/4"	8"	0.689"	1.75"
516008	DBT50-FMA1"-4"-CF Dual-Contact Holder	DBT50	1"	4"	0.689"	2.362"
516009	DBT50-FMA1"-6"-CF Dual-Contact Holder	DBT50	1"	6"	0.689"	2.362"
516010	DBT50-FMA1"-8"-CF Dual-Contact Holder	DBT50	1"	8"	0.689"	2.362"
516011	DBT50-FMA1-1/4"-4"-CF Dual-Contact Holder	DBT50	1-1/4"	4"	0.689"	2.874"

FACEMILL HOLDERS

HSK-A TAPER



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.



CORROSION PROTECTION

PAC Holders are surface treated,
preventing corrosion.



**E-COMMERCE
WEB PAGE**

FEATURES :

- Balanced to 25,000 RPM at G2.5
- Corrosion Proof - all holders have special rust preventive coating
- H6 arbor tolerance
- Surface Finish: Ra<0.005mm
- Crafted from case hardened alloy steel
- AT3 Class Taper



PG. 64



PG. 183



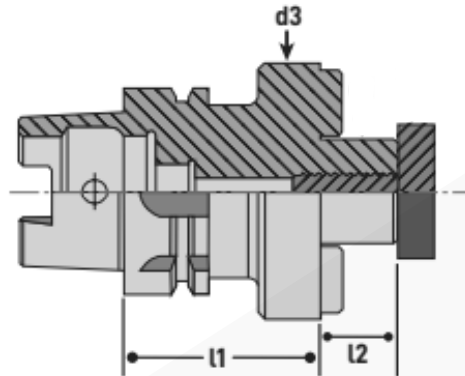
PG. 206



PG. 208

FACEMILL HOLDERS

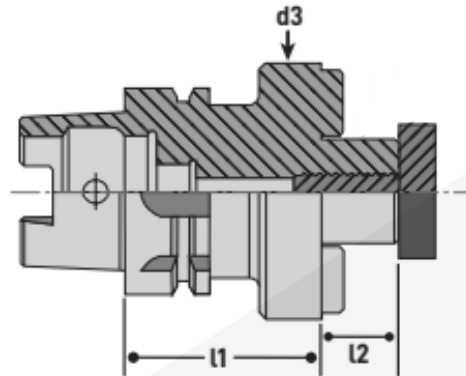
HSK-A TAPER



PART NUMBER	DESCRIPTION	TAPER	ARBOR SIZE	PROJ. LENGTH L1	L2	OD DIA d3
520093	HSK63A-FMA3/4"-2" Holder	HSK63-A	3/4"	2"	0.689"	1.75"
520096	HSK63A-FMA3/4"-4" Holder	HSK63-A	3/4"	4"	0.689"	1.75"
520097	HSK63A-FMA3/4"-6" Holder	HSK63-A	3/4"	6"	0.689"	1.75"
520098	HSK63A-FMA3/4"-8" Holder	HSK63-A	3/4"	8"	0.689"	1.75"
520098-10	HSK63A-FMA3/4"-10" Holder	HSK63-A	3/4"	10"	0.689"	1.75"
520094	HSK63A-FMA1"-2.37" Holder	HSK63-A	1"	2.37"	0.689"	2.362"
520099	HSK63A-FMA1"-4" Holder	HSK63-A	1"	4"	0.689"	2.362"
520100	HSK63A-FMA1"-6" Holder	HSK63-A	1"	6"	0.689"	2.362"
520101	HSK63A-FMA1"-8" Holder	HSK63-A	1"	8"	0.689"	2.362"
520101-10	HSK63A-FMA1"-10" Holder	HSK63-A	1"	10"	0.689"	2.362"
520095	HSK63A-FMA1-1/4"-2.75" Holder	HSK63-A	1-1/4"	2.75"	0.689"	2.874"
520102	HSK63A-FMA1-1/4"-4" Holder	HSK63-A	1-1/4"	4"	0.689"	2.874"
520103	HSK63A-FMA1-1/4"-6" Holder	HSK63-A	1-1/4"	6"	0.689"	2.874"
520104	HSK63A-FMA1-1/4"-8" Holder	HSK63-A	1-1/4"	8"	0.689"	2.874"
520104-10	HSK63A-FMA1-1/4"-10" Holder	HSK63-A	1-1/4"	10"	0.689"	2.874"
520105	HSK63A-FMA1-1/2"-4" Holder	HSK63-A	1-1/2"	4"	0.937"	3.818"
520106	HSK63A-FMA1-1/2"-6" Holder	HSK63-A	1-1/2"	6"	0.937"	3.818"

FACEMILL HOLDERS

HSK-A TAPER



PART NUMBER	DESCRIPTION	TAPER	ARBOR SIZE	PROJ. LENGTH L1	L2	OD DIA d3
520107	HSK100A-FMA3/4"-2" Holder	HSK100-A	3/4"	2"	0.689"	1.75"
520108	HSK100A-FMA3/4"-6" Holder	HSK100-A	3/4"	6"	0.689"	1.75"
520108-8	HSK100A-FMA3/4"-8" Holder	HSK100-A	3/4"	8"	0.689"	1.75"
520108-10	HSK100A-FMA3/4"-10" Holder	HSK100-A	3/4"	10"	0.689"	1.75"
520109	HSK100A-FMA1"-2" Holder	HSK100-A	1"	2"	0.689"	2.362"
520110	HSK100A-FMA1"-6" Holder	HSK100-A	1"	6"	0.689"	2.362"
520110-8	HSK100A-FMA1"-8" Holder	HSK100-A	1"	8"	0.689"	2.362"
520110-10	HSK100A-FMA1"-10" Holder	HSK100-A	1"	10"	0.689"	2.362"
520111	HSK100A-FMA1-1/4"-2-1/2" Holder	HSK100-A	1-1/4"	2-1/2"	0.689"	2.874"
520112	HSK100A-FMA1-1/4"-6" Holder	HSK100-A	1-1/4"	6"	0.689"	2.874"
520112-8	HSK100A-FMA1-1/4"-8" Holder	HSK100-A	1-1/4"	8"	0.689"	2.874"
520112-10	HSK100A-FMA1-1/4"-10" Holder	HSK100-A	1-1/4"	10"	0.689"	2.874"
520113	HSK100A-FMA1-1/2"-2-1/2" Holder	HSK100-A	1-1/2"	2-1/2"	0.937"	3.818"
520114	HSK100A-FMA1-1/2"-6" Holder	HSK100-A	1-1/2"	6"	0.937"	3.818"
520114-8	HSK100A-FMA1-1/2"-8" Holder	HSK100-A	1-1/2"	8"	0.937"	3.818"
520114-10	HSK100A-FMA1-1/2"-10" Holder	HSK100-A	1-1/2"	10"	0.937"	3.818"
520115	HSK100A-FMA2"-4" Holder	HSK100-A	1-1/2"	4"	0.937"	3.818"



PG. 64



PG. 183



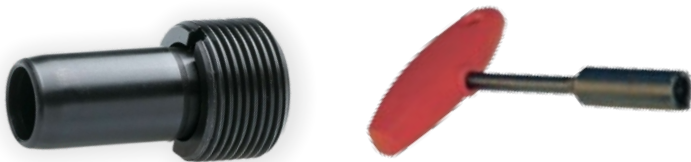
PG. 206



PG. 208

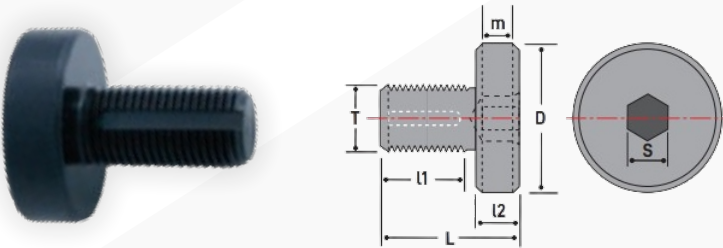
FACEMILL HOLDERS HSK-A TAPER

COOLANT TUBE & WRENCHES



DESCRIPTION	COOLANT TUBE PART NUMBER	WRENCHES PART NUMBER
HSK50	52000CT-HSK50	52000W-HSK50
HSK63	52000CT-HSK63	52000W-HSK63
HSK100	52000CT-HSK100	52000W-HSK100

LOCK SCREW FOR FACEMILL HOLDERS



SCREW PART NUMBER	FOR HOLDER SIZE	D	L	L1	L2	THREADS
SC-FMA1/2	FMA1/2" Holder	5/8	29/32	1/2	9/32	1/4-28
SC-FMA3/4	FMA3/4" Holder	7/8	1-1/4	13/16	5/16	3/8-24
SC-FMA1"	FMA1" Holder	1-1/4	1-11/16	1-3/32	7/16	1/2-20
SC-FMA1-1/4	FMA1-1/4" Holder	1-1/2	2-3/64	1-13/32	15/32	5/8-18
SC-FMA1-1/2	FMA1-1/2" Holder	1-7/8	2-3/8	1-21/32	9/16	3/4-16
SC-FMA2"	FMA2" Holder	2-31/64	2-17/32	1-27/32	9/16	1"-14

HYDRAULIC CHUCK / HOLDERS



Each holder comes with Inspection Certificate.
PAC Certified For Quality.

PAC CERTIFIED QUALITY



PAC Holders are surface treated,
preventing corrosion.

CORROSION PROTECTION



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FEATURES :

- Balanced to 25000 RPM at G2.5
- Accuracy: 3 Micron or 0.0001" TIR or better
- AT3 Class Taper Accuracy
- Use Reduction Sleeve to hold variety of shank diameters
- Surface Roughness: Ra<0.005mm
- High precision pilot holes
- Crafted from case hardened alloy steel
- Best suitable for Drilling, Reaming & Milling operations
- Excellent vibration damping properties improves surface finish and tool life



PG. 183



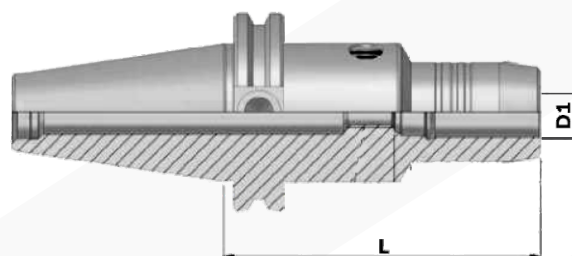
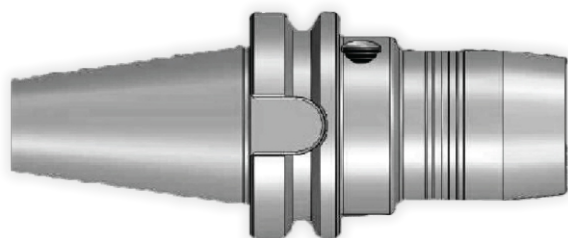
PG. 206



PG. 154

HYDRAULIC CHUCK / HOLDERS

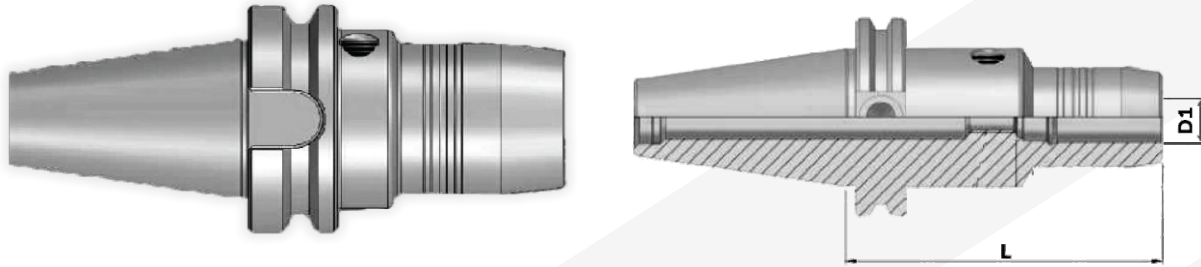
CAT TAPER HYDRAULIC HOLDERS INCH & METRIC



PART NUMBER	DESCRIPTION	SIZE	D1	L	REDUCTION SLEEVE ID RANGE
19000201-2	CAT40 - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	2.52"	1/8" to 5/8" x 1/16"
19000201	CAT40 - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	4"	1/8" to 5/8" x 1/16"
19000202	CAT40 - 1-1/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	1-1/4"	4"	1/8" to 1" x 1/16"
19000203-0	CAT40 - 12mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	12mm	64mm	3mm to 8mm x 1mm
19000203	CAT40 - 12mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	12mm	101.6mm	3mm to 8mm x 1mm
19000204-0	CAT40 - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	64mm	3mm to 16mm x 1mm
19000205	CAT40 - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	101.6mm	3mm to 16mm x 1mm
19000206	CAT40 - 32mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	32mm	101.6mm	3mm to 25mm x 1mm
19000207-2	CAT50 - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	2.54"	1/8" to 5/8" x 1/16"
19000207	CAT50 - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	4"	1/8" to 5/8" x 1/16"
19000208-3	CAT50 - 1-1/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	1-1/4"	3.19"	1/8" to 1" x 1/16"
19000208	CAT50 - 1-1/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	1-1/4"	4"	1/8" to 1" x 1/16"
19000209	CAT50 - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	101.6mm	3mm to 16mm x 1mm
19000210	CAT50 - 32mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	32mm	101.6mm	3mm to 25mm x 1mm

HYDRAULIC CHUCK / HOLDERS

BT TAPER HYDRAULIC HOLDERS INCH & METRIC



PART NUMBER	DESCRIPTION	SIZE	D1	L	REDUCTION SLEEVE ID RANGE
19000211-2	BT30 - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	2.85"	1/8" to 5/8" x 1/16"
19000211	BT30 - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	3.54"	1/8" to 5/8" x 1/16"
19000212	BT30 - 12mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	12mm	70mm	3mm to 8mm x 1mm
19000213	BT30 - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	90mm	3mm to 16mm x 1mm
19000214-3	BT40 - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	3.54"	1/8" to 5/8" x 1/16"
19000214	BT40 - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	4"	1/8" to 5/8" x 1/16"
19000214-5	BT40 - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	5.51"	1/8" to 5/8" x 1/16"
19000215	BT40 - 1-1/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	1-1/4"	4"	1/8" to 1" x 1/16"
19000216	BT40 - 12mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	12mm	101.6mm	3mm to 8mm x 1mm
19000217	BT40 - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	72.5mm	3mm to 16mm x 1mm
19000218	BT40 - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	101.6mm	3mm to 16mm x 1mm
19000219	BT40 - 32mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	32mm	101.6mm	3mm to 25mm x 1mm
19000220	BT50 - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	4"	1/8" to 5/8" x 1/16"
19000221	BT50 - 1-1/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	1-1/4"	4"	1/8" to 1" x 1/16"
19000222	BT50 - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	101.6mm	3mm to 16mm x 1mm
19000223	BT50 - 32mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	32mm	101.6mm	3mm to 25mm x 1mm



PG. 183



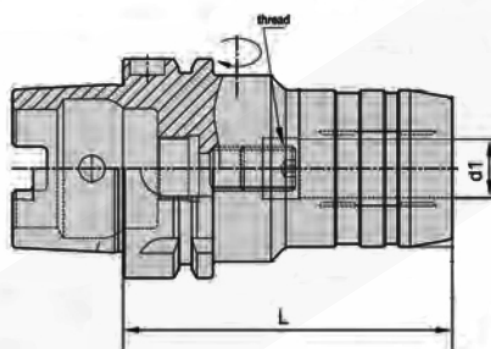
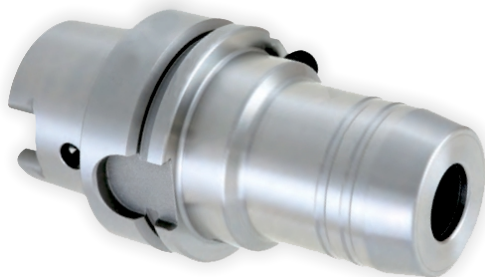
PG. 206



PG. 154

HYDRAULIC CHUCK / HOLDERS

■ HSK TAPER HYDRAULIC HOLDERS INCH & METRIC



PART NUMBER	DESCRIPTION	SIZE	d1	L	REDUCTION SLEEVE ID RANGE
19000224	HSK50A - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	3.54"	1/8" to 5/8" x 1/16"
19000225	HSK50A - 12mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	12mm	70mm	3mm to 8mm x 1mm
19000226	HSK50A - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	90mm	3mm to 16mm x 1mm
19000227-3	HSK63A - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	3.15"	1/8" to 5/8" x 1/16"
19000227	HSK63A - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	4"	1/8" to 5/8" x 1/16"
19000227-5	HSK63A - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	5.91"	1/8" to 5/8" x 1/16"
19000227-7	HSK63A - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	7.87"	1/8" to 5/8" x 1/16"
19000228	HSK63A - 1-1/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	1-1/4"	4"	1/8" to 1" x 1/16"
19000229	HSK63A - 12mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	12mm	101.6mm	3mm to 8mm x 1mm
19000230	HSK63A - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	72.5mm	3mm to 16mm x 1mm
19000231	HSK63A - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	101.6mm	3mm to 16mm x 1mm
19000232	HSK63A - 32mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	32mm	101.6mm	3mm to 25mm x 1mm
19000233-3	HSK100A - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	3.54"	1/8" to 5/8" x 1/16"
19000233	HSK100A - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	4"	1/8" to 5/8" x 1/16"
19000233-5	HSK100A - 3/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	3/4"	5.91"	1/8" to 5/8" x 1/16"
19000234	HSK100A - 1-1/4" ID Hydraulic Holder - Uses Reduction Sleeves	Inch	1-1/4"	4"	1/8" to 1" x 1/16"
19000235	HSK100A - 20mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	20mm	101.6mm	3mm to 16mm x 1mm
19000236	HSK100A - 32mm ID Hydraulic Holder - Uses Reduction Sleeves	mm	32mm	101.6mm	3mm to 25mm x 1mm

POWER MILLING CHUCKS



Each holder comes with Inspection Certificate.
PAC Certified For Quality.

PAC CERTIFIED QUALITY



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FEATURES :

- Corrosion Proof - all holders have special rust preventive coating
- Surface Finish: Ra<0.005mm
- Crafted from case hardened alloy steel
- AT3 Class Taper



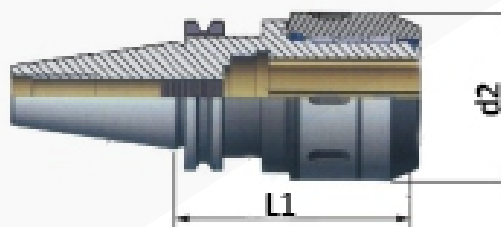
POWER MILLING CHUCKS

CAT TAPER



PART NUMBER	DESCRIPTION	TAPER	SIZE	PROJ. LENGTH L1	OD DIA d2	HOLDING POWER
542012	CAT40-MC3/4"-4" Power Milling Holder	CAT40	3/4"	4"	2.48"	350 ft/lbs
542013	CAT40-MC3/4"-6" Power Milling Holder	CAT40	3/4"	6"	2.48"	350 ft/lbs
542011	CAT40-MC1-1/4"-4" Power Milling Holder	CAT40	1-1/4"	4"	2.874"	500 ft/lbs
542016	CAT50-MC3/4"-4" Power Milling Holder	CAT40	3/4"	4"	2.48"	350 ft/lbs
542014	CAT50-MC1-1/4"-4" Power Milling Holder	CAT40	1-1/4"	4"	2.874"	500 ft/lbs
542015	CAT50-MC1-1/4"-6" Power Milling Holder	CAT40	1-1/4"	6"	2.874"	500 ft/lbs

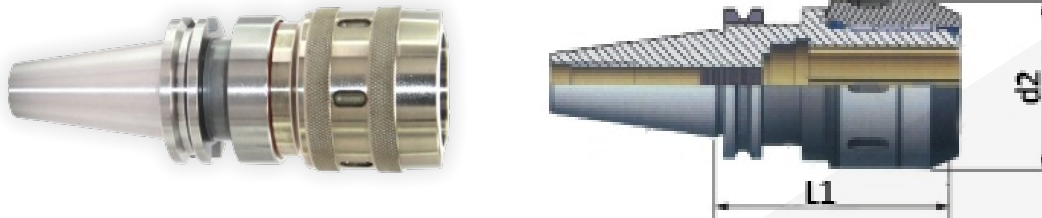
BT TAPER



PART NUMBER	DESCRIPTION	TAPER	SIZE	PROJ. LENGTH L1	OD DIA d2	HOLDING POWER
542010	BT40-MC3/4"-4" Power Milling Holder	BT40	3/4"	4"	2.48"	350 ft/lbs
542009	BT40-MC1-1/4"-4" Power Milling Holder	BT40	1-1/4"	4"	2.874"	350 ft/lbs

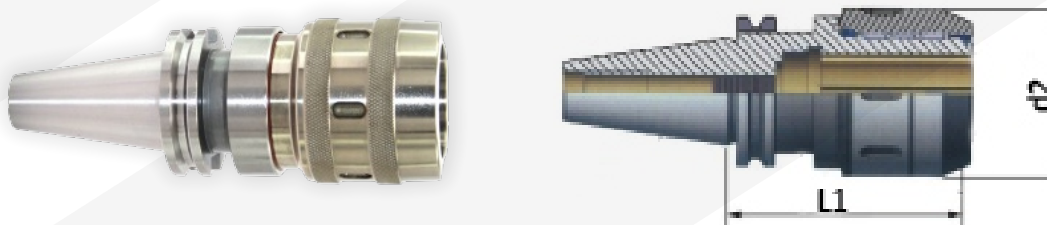
POWER MILLING DUAL-CONTACT CHUCKS

CAT DUAL-CONTACT TAPER



PART NUMBER	DESCRIPTION	TAPER	SIZE	PROJ. LENGTH L1	OD DIA d2	HOLDING POWER
542003	DCAT40-MC3/4"-4" Power Milling Holder	DCAT40	3/4"	4"	2.48"	350 ft/lbs
542004	DCAT40-MC1-1/4"-4" Power Milling Holder	DCAT40	1-1/4"	6"	2.874"	500 ft/lbs
542007	DCAT50-MC3/4"-4" Power Milling Holder	DCAT50	3/4"	4"	2.48"	350 ft/lbs
542008	DCAT50-MC3/4"-6" Power Milling Holder	DCAT50	3/4"	6"	2.48"	350 ft/lbs
542005	DCAT50-MC1-1/4"-4" Power Milling Holder	DCAT50	1-1/4"	4"	2.874"	500 ft/lbs
542006	DCAT50-MC1-1/4"-6" Power Milling Holder	DCAT50	1-1/4"	6"	2.874"	500 ft/lbs

BT DUAL-CONTACT TAPER

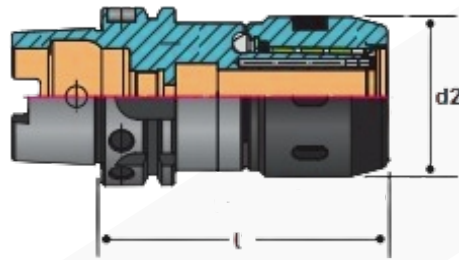


PART NUMBER	DESCRIPTION	TAPER	SIZE	PROJ. LENGTH L1	OD DIA d2	HOLDING POWER
542001	DBT40-MC3/4"-4" Power Milling Holder	DBT40	3/4"	4"	2.48"	350 ft/lbs
542002	DBT40-MC1-1/4"-4" Power Milling Holder	DBT40	1-1/4"	4"	2.874"	500 ft/lbs



POWER MILLING CHUCKS

HSK TAPER



PART NUMBER	DESCRIPTION	TAPER	SIZE	PROJ. LENGTH L	OD DIA d2	HOLDING POWER
542017	HSK63A-MC3/4"-120MM Power Milling Holder	HSK63-A	3/4"	120mm	2.48"	350 ft/lbs
542018	HSK63A-MC1-1/4"-120MM Power Milling Holder	HSK63-A	1-1/4"	120mm	2.874"	500 ft/lbs
542019	HSK100A-MC3/4"-120MM Power Milling Holder	HSK100-A	3/4"	120mm	2.48"	350 ft/lbs
542020	HSK100A-MC1-1/4"-120MM Power Milling Holder	HSK100-A	1-1/4"	120mm	2.874"	500 ft/lbs



QUICK CHANGE TAPPING HOLDERS **TENSION-COMPRESSION**



Each holder comes with Inspection Certificate.
PAC Certified For Quality.

PAC CERTIFIED QUALITY



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FEATURES :

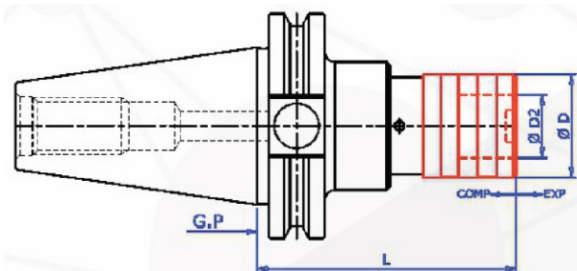
- Quick Change system
- AT3 Class Taper Accuracy
- Compression helps start difficult taps
- Prevent broken taps



QUICK CHANGE TAPPING HOLDERS

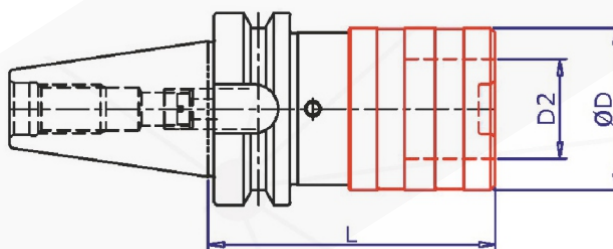
TENSION-COMPRESSION

CAT TAPER



PART NUMBER	DESCRIPTION	TAPER	SIZE	TAP CAPACITY	PROJ. LENGTH L	OD DIA D	D2	COMPENSATION	
								TENSION	COMPRESION
540009	CAT40-QCFLK1-3" Size-1 Tension Compression Tap Holder	CAT40	1	0 - 9/16"	3"	1.42"	.0748"	0.35"	0.35"
540010	CAT50-QCFLK1-3" Size-1 Tension Compression Tap Holder	CAT50	1	0 - 9/16"	3"	1.42"	.0748"	0.35"	0.35"
540011	CAT40-QCFLK2-3.94" Size-2 Tension Compression Tap Holder	CAT40	2	5/16" - 7/8"	3.94"	2.09"	1.220"	0.59"	0.59"
540012	CAT50-QCFLK2-3.94" Size-2 Tension Compression Tap Holder	CAT50	2	5/16" - 7/8"	3.94"	2.09"	1.220"	0.59"	0.59"
540013	CAT40-QCFLK3-5.9" Size-3 Tension Compression Tap Holder	CAT40	3	1/2" - 1-3/8"	5.9"	3.07"	1.890"	0.94"	0.94"
540014	CAT50-QCFLK3-5.51" Size-3 Tension Compression Tap Holder	CAT50	3	1/2" - 1-3/8"	5.51"	3.07"	1.890"	0.94"	0.94"

BT TAPER

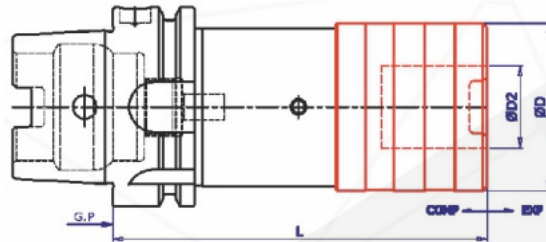


PART NUMBER	DESCRIPTION	TAPER	SIZE	TAP CAPACITY	PROJ. LENGTH L	OD DIA D	D2	COMPENSATION	
								TENSION	COMPRESION
540001	BT30-QCFLK1-64 Size-1 Tension Compression Tap Holder	BT30	1	0 - 9/16"	64mm	1.42"	.0748"	0.35"	0.35"
540002	BT40-QCFLK1-67.5 Size-1 Tension Compression Tap Holder	BT40	1	0 - 9/16"	67.5mm	1.42"	.0748"	0.35"	0.35"
540003	BT50-QCFLK1-77 Size-1 Tension Compression Tap Holder	BT50	1	0 - 9/16"	77mm	1.42"	.0748"	0.35"	0.35"
540004	BT30-QCFLK2-99 Size-2 Tension Compression Tap Holder	BT30	2	5/16" - 7/8"	99mm	2.09"	1.220"	0.59"	0.59"
540005	BT40-QCFLK2-94.5 Size-2 Tension Compression Tap Holder	BT40	2	5/16" - 7/8"	94.5mm	2.09"	1.220"	0.59"	0.59"
540006	BT50-QCFLK2-102.5 Size-2 Tension Compression Tap Holder	BT50	2	5/16" - 7/8"	102.5mm	2.09"	1.220"	0.59"	0.59"
540007	BT40-QCFLK3-164.5 Size-3 Tension Compression Tap Holder	BT40	3	1/2" - 1-3/8"	164.5mm	3.07"	1.890"	0.94"	0.94"
540008	BT50-QCFLK3-142.5 Size-3 Tension Compression Tap Holder	BT50	3	1/2" - 1-3/8"	142.5mm	3.07"	1.890"	0.94"	0.94"

QUICK CHANGE TAPPING HOLDERS

TENSION-COMPRESSION

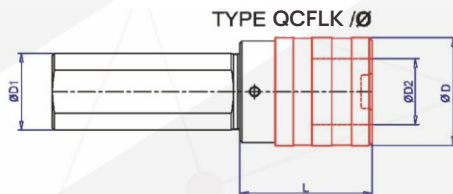
HSK TAPER



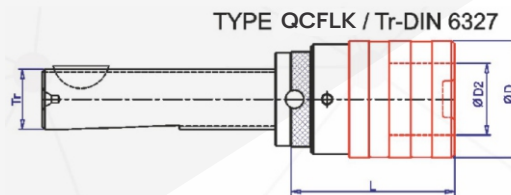
PART NUMBER	DESCRIPTION	TAPER	SIZE	TAP CAPACITY	PROJ. LENGTH L	OD DIA D	D2	COMPENSATION	
								TENSION	COMPRESSION
540016	HSK50A-QCFLK1-102 Size-1 Tension Compression Tap Holder	HSK50-A	1	0 - 9/16"	102mm	1.42"	.0748"	0.35"	0.35"
540017	HSK63A-QCFLK1-102 Size-1 Tension Compression Tap Holder	HSK63-A	1	0 - 9/16"	102mm	1.42"	.0748"	0.35"	0.35"
540015	HSK100A-QCFLK1-112 Size-1 Tension Compression Tap Holder	HSK100-A	1	0 - 9/16"	112mm	1.42"	.0748"	0.35"	0.35"
540019	HSK50A-QCFLK2-145 Size-2 Tension Compression Tap Holder	HSK50-A	2	5/16" - 7/8"	145mm	2.09"	1.220"	0.59"	0.59"
540020	HSK63A-QCFLK2-145 Size-2 Tension Compression Tap Holder	HSK63-A	2	5/16" - 7/8"	145mm	2.09"	1.220"	0.59"	0.59"
540018	HSK100A-QCFLK2-153 Size-2 Tension Compression Tap Holder	HSK100-A	2	5/16" - 7/8"	153mm	2.09"	1.220"	0.59"	0.59"
540022	HSK63A-QCFLK3-215 Size-3 Tension Compression Tap Holder	HSK63-A	3	1/2" - 1-3/8"	215mm	3.07"	1.890"	0.94"	0.94"
540021	HSK100A-QCFLK3-215 Size-3 Tension Compression Tap Holder	HSK100-A	3	1/2" - 1-3/8"	215mm	3.07"	1.890"	0.94"	0.94"

STRAIGHT SHANK TAP HOLDER

DIA #1



DIA #2



PART NUMBER	DESCRIPTION	SIZE	SHANK DIA	TAP CAPACITY	PROJ. LENGTH L	OD DIA D	D2	COMPENSATION	
								TENSION	COMPRESSION
540023	QCFLK1-SH1"-1.58" Size-1 Straight Shank Tap Holder	1	1"	0 - 9/16"	1.58"	1.42"	.0748"	0.35"	0.35"
540024	QCFLK2-SH1"-2.48" Size-2 Straight Shank Tap Holder	2	1"	5/16" - 7/8"	2.48"	2.09"	1.220"	0.59"	0.59"
540025	QCFLK2-SH1.5"-2.48" Size-2 Straight Shank Tap Holder	2	1.5"	5/16" - 7/8"	2.48"	2.09"	1.220"	0.59"	0.59"



PG. 157



PG. 183



PG. 206



PG. 208

QUICK CHANGE TAPPING HOLDERS

RIGID



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.



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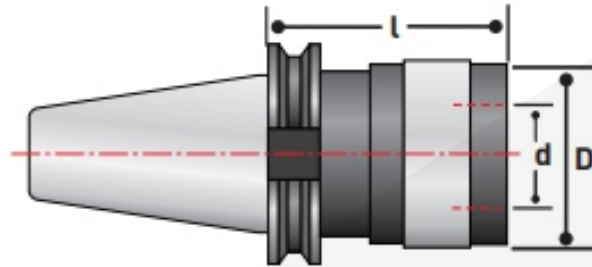
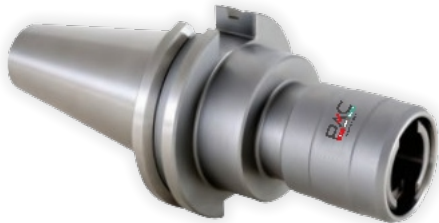
FEATURES :

- Quick Change system
- AT3 Class Taper Accuracy
- Prevent broken taps

QUICK CHANGE TAPPING HOLDERS

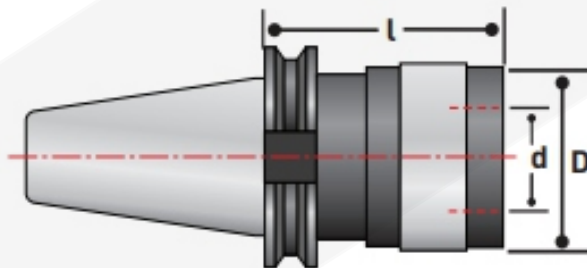
RIGID

CAT TAPER



PART NUMBER	DESCRIPTION	TAPER	SIZE	TAP CAPACITY	PROJ. LENGTH L	OD DIA D	d
540034	CAT40-QCR1-3" Size-1 Rigid Tap Holder	CAT40	1	0 - 9/16"	3"	1.42"	.0748"
540035	CAT50-QCR1-3" Size-1 Rigid Tap Holder	CAT50	1	0 - 9/16"	3"	1.42"	.0748"
540036	CAT40-QCR2-3.94" Size-2 Rigid Tap Holder	CAT40	2	5/16" - 7/8"	3.94"	2.09"	1.220"
540037	CAT50-QCR2-3.94" Size-2 Rigid Tap Holder	CAT50	2	5/16" - 7/8"	3.94"	2.09"	1.220"
540038	CAT40-QCR3-4.72" Size-3 Rigid Tap Holder	CAT40	3	1/2" - 1-3/8"	4.72"	3.07"	1.890"
540039	CAT50-QCR3-4.72" Size-3 Rigid Tap Holder	CAT50	3	1/2" - 1-3/8"	4.72"	3.07"	1.890"

BT TAPER



PART NUMBER	DESCRIPTION	TAPER	SIZE	TAP CAPACITY	PROJ. LENGTH L	OD DIA D	d
540026	BT30-QCR1-64 Size-1 Rigid Tap Holder	1	0 - 9/16"	64mm	1.42"	.0748"	.0748"
540027	BT40-QCR1-67.5 Size-1 Rigid Tap Holder	1	0 - 9/16"	67.5mm	1.42"	.0748"	.0748"
540028	BT50-QCR1-77 Size-1 Rigid Tap Holder	1	0 - 9/16"	77mm	1.42"	.0748"	.0748"
540029	BT30-QCR2-99 Size-2 Rigid Tap Holder	2	5/16" - 7/8"	99mm	2.09"	1.220"	1.220"
540030	BT40-QCR2-94.5 Size-2 Rigid Tap Holder	2	5/16" - 7/8"	94.5mm	2.09"	1.220"	1.220"
540031	BT50-QCR2-102.5 Size-2 Rigid Tap Holder	2	5/16" - 7/8"	102.5mm	2.09"	1.220"	1.220"
540032	BT40-QCR3-110 Size-3 Rigid Tap Holder	3	1/2" - 1-3/8"	110mm	3.07"	1.890"	1.890"
540033	BT50-QCR3-120 Size-3 Rigid Tap Holder	3	1/2" - 1-3/8"	120mm	3.07"	1.890"	1.890"



PG. 157



PG. 183



PG. 206

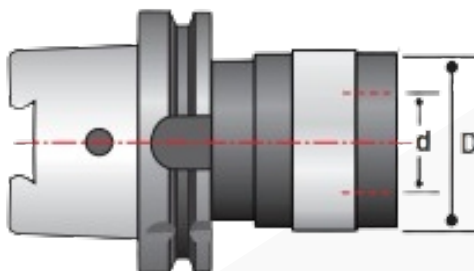


PG. 208

QUICK CHANGE TAPPING HOLDERS

RIGID

HSK TAPER



PART NUMBER	DESCRIPTION	TAPER	SIZE	TAP CAPACITY	PROJ. LENGTH L	OD DIA D	d
540041	HSK50A-QCR1-102 Size-1 Rigid Tap Holder	HSK50-A	1	0 - 9/16"	102mm	1.42"	.0748"
540042	HSK63A-QCR1-102 Size-1 Rigid Tap Holder	HSK63-A	1	0 - 9/16"	102mm	1.42"	.0748"
540040	HSK100A-QCR1-112 Size-1 Rigid Tap Holder	HSK100-A	1	0 - 9/16"	112mm	1.42"	.0748"
540044	HSK50A-QCR2-136 Size-2 Rigid Tap Holder	HSK50-A	2	5/16" - 7/8"	136mm	2.09"	1.220"
540045	HSK63A-QCR2-145 Size-2 Rigid Tap Holder	HSK63-A	2	5/16" - 7/8"	145mm	2.09"	1.220"
540043	HSK100A-QCR2-153 Size-2 Rigid Tap Holder	HSK100-A	2	5/16" - 7/8"	153mm	2.09"	1.220"
540047	HSK63A-QCR3-150 Size-3 Rigid Tap Holder	HSK63-A	3	1/2" - 1-3/8"	150mm	3.07"	1.890"
540046	HSK100A-QCR3-140 Size-3 Rigid Tap Holder	HSK100-A	3	1/2" - 1-3/8"	140mm	3.07"	1.890"

TOOL HOLDER BLANKS CAT, BT & HSK TAPER



Each holder comes with Inspection Certificate.
PAC Certified For Quality.

PAC CERTIFIED QUALITY



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FEATURES :

- AT3 Class Taper
- High precision pilot holes
- Crafted from case hardened alloy steel
- Each Blanks are tested and certified for accuracy

PART NUMBER	DESCRIPTION	TAPER	DIA D	LENGTH L
590001	CAT40-2.5"-6" Blank	CAT40	2.5"	6"
590002	CAT40-2.5"-8" Blank	CAT40	2.5"	8"
590003	CAT40-2.5"-10" Blank	CAT40	2.5"	10"
590004	CAT50-3"-6" Blank	CAT50	3"	6"
590005	CAT50-3"-8" Blank	CAT50	3"	8"
590006	CAT50-3.5"-10" Blank	CAT50	3.5"	10"
590007	CAT50-3.5"-12" Blank	CAT50	3.5"	12"
590008	HSK63A-3"-6" Blank	HSK63-A	3"	6"
590009	HSK63A-3.5"-10" Blank	HSK63-A	3.5"	10"
590010	HSK100A-4"-10" Blank	HSK100-A	4"	10"

ER STRAIGHT SHANK HOLDER

FEATURES :

- Accuracy: 0.0001" TIR or better
- Available in He, Mini & Spanner type nuts
- Available with flat on shank & Round Shank
- All surfaces precision ground

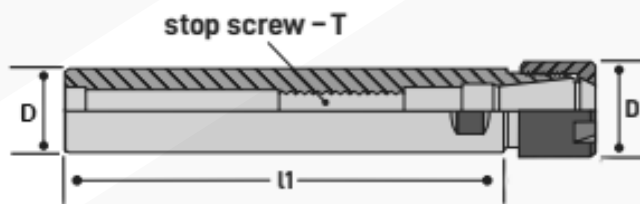


PAC CERTIFIED QUALITY



E-COMMERCE WEB PAGE

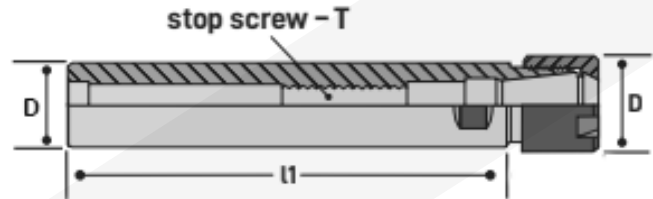
ER STRAIGHT SHANK WITH MINI NUT - ROUND SHANK



PART NUMBER	DESCRIPTION	ER COLLET SERIES	SHANK DIA D	SHANK TYPE	SHANK LENGTH L1	NUT TYPE	NUT DIA D
530001	1/2" Shank - ER8 - 3.7"L with Mini Nut - Round shank	ER8	1/2"	Round Shank	3.7"	Mini	0.480"
530002	1/2" Shank - ER11 - 3"L with Mini Nut - Round Shank	ER11	1/2"	Round Shank	3"	Mini	0.630"
530003	1/2" Shank - ER11 - 6"L with Mini Nut - Round Shank	ER11	1/2"	Round Shank	6"	Mini	0.630"
530005	5/8" Shank - ER11 - 2"L with Mini Nut - Round Shank	ER11	5/8"	Round Shank	2"	Mini	0.630"
530006	5/8" Shank - ER11 - 3"L with Mini Nut - Round Shank	ER11	5/8"	Round Shank	3"	Mini	0.630"
530007	5/8" Shank - ER11 - 6"L with Mini Nut - Round Shank	ER11	5/8"	Round Shank	6"	Mini	0.630"
530009	1/2" Shank - ER16 - 6"L with Mini Nut - Round Shank	ER16	1/2"	Round Shank	6"	Mini	0.870"
530010	5/8" Shank - ER16 - 3"L with Mini Nut - Round Shank	ER16	5/8"	Round Shank	3"	Mini	0.870"
530012	5/8" Shank - ER16 - 6"L with Mini Nut - Round Shank	ER16	5/8"	Round Shank	6"	Mini	0.870"
530015	3/4" Shank - ER16 - 3"L with Mini Nut - Round Shank	ER16	3/4"	Round Shank	3"	Mini	0.870"
530018	3/4" Shank - ER16 - 5.2"L with Mini Nut - Round Shank	ER16	3/4"	Round Shank	5.2"	Mini	0.870"
530020	3/4" Shank - ER16 - 7.4"L with Mini Nut - Round Shank	ER16	3/4"	Round Shank	7.4"	Mini	0.870"
530025	3/4" Shank - ER20 - 4"L with Mini Nut - Round Shank	ER20	3/4"	Round Shank	4"	Mini	1.102"
530030	1" Shank - ER20 - 5.2"L with Mini Nut - Round Shank	ER20	1"	Round Shank	5.2"	Mini	1.102"
530031	1" Shank - ER20 - 5.5"L with Mini Nut - Round Shank	ER20	1"	Round Shank	5.5"	Mini	1.102"
530038	1" Shank - ER25 - 4"L with Mini Nut - Round Shank	ER25	1"	Round Shank	4"	Mini	1.102"

ER STRAIGHT SHANK HOLDER

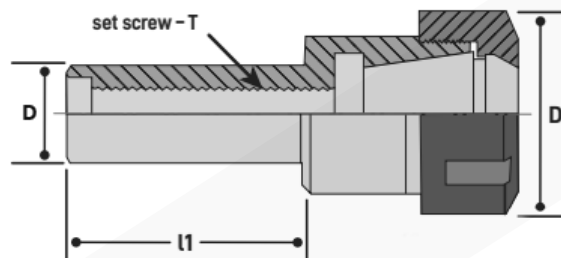
ER STRAIGHT SHANK WITH MINI NUT - FLAT ON SHANK



PART NUMBER	DESCRIPTION	ER COLLET SERIES	SHANK DIA D	SHANK TYPE	SHANK LENGTH L1	NUT TYPE	NUT DIA D
530055	1/2" Shank - ER8 - 3.7"L with Mini Nut - Flat on full Shank	ER8	1/2"	Flat on full Shank	3.7"	Mini	0.480"
530056	1/2" Shank - ER11 - 3"L with Mini Nut - Flat on full Shank	ER11	1/2"	Flat on full Shank	3"	Mini	0.630"
530057	1/2" Shank - ER11 - 6"L with Mini Nut - Flat on full Shank	ER11	1/2"	Flat on full Shank	6"	Mini	0.630"
530059	5/8" Shank - ER11 - 2"L with Mini Nut - Flat on full Shank	ER11	5/8"	Flat on full Shank	2"	Mini	0.630"
530060	5/8" Shank - ER11 - 3"L with Mini Nut - Flat on full Shank	ER11	5/8"	Flat on full Shank	3"	Mini	0.630"
530061	5/8" Shank - ER11 - 6"L with Mini Nut - Flat on full Shank	ER11	5/8"	Flat on full Shank	6"	Mini	0.630"
530063	1/2" Shank - ER16 - 6"L with Mini Nut - Flat on full Shank	ER16	1/2"	Flat on full Shank	6"	Mini	0.870"
530064	5/8" Shank - ER16 - 3"L with Mini Nut - Flat on full Shank	ER16	5/8"	Flat on full Shank	3"	Mini	0.870"
530066	5/8" Shank - ER16 - 6"L with Mini Nut - Flat on full Shank	ER16	5/8"	Flat on full Shank	6"	Mini	0.870"
530069	3/4" Shank - ER16 - 3"L with Mini Nut - Flat on full Shank	ER16	3/4"	Flat on full Shank	3"	Mini	0.870"
530072	3/4" Shank - ER16 - 5.2"L with Mini Nut - Flat on full Shank	ER16	3/4"	Flat on full Shank	5.2"	Mini	0.870"
530074	3/4" Shank - ER16 - 7.4"L with Mini Nut - Flat on full Shank	ER16	3/4"	Flat on full Shank	7.4"	Mini	0.870"
530079	3/4" Shank - ER20 - 4"L with Mini Nut - Flat on full Shank	ER20	3/4"	Flat on full Shank	4"	Mini	1.102"
530084	1" Shank - ER20 - 5.2"L with Mini Nut - Flat on full Shank	ER20	1"	Flat on full Shank	5.2"	Mini	1.102"
530085	1" Shank - ER20 - 5.5"L with Mini Nut - Flat on full Shank	ER20	1"	Flat on full Shank	5.5"	Mini	1.102"
530092	1" Shank - ER25 - 4"L with Mini Nut - Flat on full Shank	ER25	1"	Flat on full Shank	4"	Mini	1.102"

ER STRAIGHT SHANK HOLDER

ER STRAIGHT SHANK WITH STANDARD HEX & SLOTTED NUT - ROUND SHANK

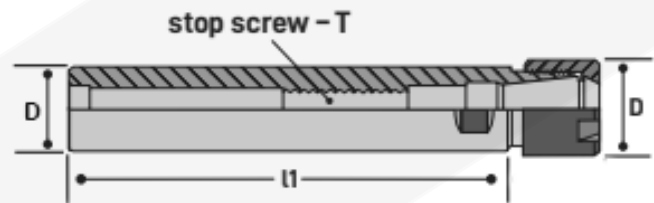


PART NUMBER	DESCRIPTION	ER COLLET SERIES	SHANK DIA D	SHANK TYPE	SHANK LENGTH L1	NUT TYPE	NUT DIA D
530004	1/2" Shank - ER11 - 6.2"L with HEX Nut - Round Shank	ER11	1/2"	Round Shank	6.2"	Hex	0.748"
530008	5/8" Shank - ER11 - 6.2"L with HEX Nut - Round Shank	ER11	5/8"	Round Shank	6.2"	Hex	0.748"
530011	5/8" Shank - ER16 - 3.7"L with HEX Nut - Round Shank	ER16	5/8"	Round Shank	3.7"	Hex	1.08"
530013	3/4" Shank - ER16 - 2"L with HEX Nut - Round Shank	ER16	3/4"	Round Shank	2"	Hex	1.08"
530014	3/4" Shank - ER16 - 2.5"L with HEX Nut - Round Shank	ER16	3/4"	Round Shank	2.5"	Hex	1.08"
530016	3/4" Shank - ER16 - 3.6"L with HEX Nut - Round Shank	ER16	3/4"	Round Shank	6"	Hex	1.08"
530017	3/4" Shank - ER16 - 4"L with HEX Nut - Round Shank	ER16	3/4"	Round Shank	4"	Hex	1.08"
530019	3/4" Shank - ER16 - 6"L with HEX Nut - Round Shank	ER16	3/4"	Round Shank	6"	Hex	1.08"
530021	1" Shank - ER16 - 2.5"L with HEX Nut - Round Shank	ER16	1"	Round Shank	2.5"	Hex	1.08"
530022	1" Shank - ER16 - 4"L with HEX Nut - Round Shank	ER16	1"	Round Shank	4"	Hex	1.08"
530023	1" Shank - ER16 - 6"L with HEX Nut - Round Shank	ER16	1"	Round Shank	6"	Hex	1.08"
530024	3/4" Shank - ER20 - 2.5"L with HEX Nut - Round Shank	ER20	3/4"	Round Shank	2.5"	Hex	1.34"
530026	3/4" Shank - ER20 - 4"L with HEX Nut - Round Shank	ER20	3/4"	Round Shank	4"	Hex	1.34"
530027	3/4" Shank - ER20 - 6"L with HEX Nut - Round Shank	ER20	3/4"	Round Shank	6"	Hex	1.34"
530028	1" Shank - ER20 - 2.5"L with HEX Nut - Round Shank	ER20	1"	Round Shank	2.5"	Hex	1.34"
530029	1" Shank - ER20 - 4"L with HEX Nut - Round Shank	ER20	1"	Round Shank	4"	Hex	1.34"
530032	1" Shank - ER20 - 6"L with HEX Nut - Round Shank	ER20	1"	Round Shank	6"	Hex	1.34"
530033	1/2" Shank - ER25 - 4"L with Slotted Nut - Round Shank	ER25	1/2"	Round Shank	4"	Slotted	1.65"
530034	3/4" Shank - ER25 - 2.5"L with Slotted Nut - Round Shank	ER25	3/4"	Round Shank	2.5"	Slotted	1.65"
530035	3/4" Shank - ER25 - 4"L with Slotted Nut - Round Shank	ER25	3/4"	Round Shank	4"	Slotted	1.65"
530036	3/4" Shank - ER25 - 6"L with Slotted Nut - Round Shank	ER25	3/4"	Round Shank	6"	Slotted	1.65"
530037	1" Shank - ER25 - 2.5"L with Slotted Nut - Round Shank	ER25	1"	Round Shank	2.5"	Slotted	1.65"
530039	1" Shank - ER25 - 4"L with Slotted Nut - Round Shank	ER25	1"	Round Shank	4"	Slotted	1.65"
530040	1" Shank - ER25 - 6"L with Slotted Nut - Round Shank	ER25	1"	Round Shank	6"	Slotted	1.65"
530041	1" Shank - ER32 - 2"L with Slotted Nut - Round Shank	ER32	1"	Round Shank	2"	Slotted	1.97"
530042	1" Shank - ER32 - 2.5"L with Slotted Nut - Round Shank	ER32	1"	Round Shank	2.5"	Slotted	1.97"

ER STRAIGHT SHANK HOLDER

PART NUMBER	DESCRIPTION	ER COLLET SERIES	SHANK DIA D	SHANK TYPE	SHANK LENGTH L1	NUT TYPE	NUT DIA D
530043	1" Shank - ER32 - 4"L with Slotted Nut - Round Shank	ER32	1"	Round Shank	4"	Slotted	1.97"
530044	1" Shank - ER32 - 6"L with Slotted Nut - Round Shank	ER32	1"	Round Shank	6"	Slotted	1.97"
530045	1-1/4" Shank - ER32 - 2"L with Slotted Nut - Round Shank	ER32	1-1/4"	Round Shank	2"	Slotted	1.97"
530046	1-1/4" Shank - ER32 - 2.5"L with Slotted Nut - Round Shank	ER32	1-1/4"	Round Shank	2.5"	Slotted	1.97"
530047	1-1/4" Shank - ER32 - 4"L with Slotted Nut - Round Shank	ER32	1-1/4"	Round Shank	4"	Slotted	1.97"
530048	1-1/4" Shank - ER32 - 6"L with Slotted Nut - Round Shank	ER32	1-1/4"	Round Shank	6"	Slotted	1.97"
530049	1" Shank - ER40 - 2.5"L with Slotted Nut - Round Shank	ER40	1"	Round Shank	2.5"	Slotted	2.48"
530050	1" Shank - ER40 - 4"L with Slotted Nut - Round Shank	ER40	1"	Round Shank	4"	Slotted	2.48"
530051	1" Shank - ER40 - 6"L with Slotted Nut - Round Shank	ER40	1"	Round Shank	6"	Slotted	2.48"
530052	1-1/4" Shank - ER40 - 2.5"L with Slotted Nut - Round Shank	ER40	1-1/4"	Round Shank	2.5"	Slotted	2.48"
530053	1-1/4" Shank - ER40 - 4"L with Slotted Nut - Round Shank	ER40	1-1/4"	Round Shank	4"	Slotted	2.48"
530054	1-1/4" Shank - ER40 - 6"L with Slotted Nut - Round Shank	ER40	1-1/4"	Round Shank	6"	Slotted	2.48"

ER STRAIGHT SHANK WITH STANDARD HEX & SLOTTED NUT - FLAT ON SHANK



PART NUMBER	DESCRIPTION	ER COLLET SERIES	SHANK DIA D	SHANK TYPE	SHANK LENGTH L1	NUT TYPE	NUT DIA D
530058	1/2" Shank - ER11 - 6.2"L with HEX Nut - Flat on full Shank	ER11	1/2"	Flat on full Shank	6.2"	Hex	0.748"
530062	5/8" Shank - ER11 - 6.2"L with HEX Nut - Flat on full Shank	ER11	5/8"	Flat on full Shank	6.2"	Hex	0.748"
530065	5/8" Shank - ER16 - 3.7"L with HEX Nut - Flat on full Shank	ER16	5/8"	Flat on full Shank	3.7"	Hex	1.08"
530067	3/4" Shank - ER16 - 2"L with HEX Nut - Flat on full Shank	ER16	3/4"	Flat on full Shank	2"	Hex	1.08"
530068	3/4" Shank - ER16 - 2.5"L with HEX Nut - Flat on full Shank	ER16	3/4"	Flat on full Shank	2.5"	Hex	1.08"
530070	3/4" Shank - ER16 - 3.6"L with HEX Nut - Flat on full Shank	ER16	3/4"	Flat on full Shank	6"	Hex	1.08"
530071	3/4" Shank - ER16 - 4"L with HEX Nut - Flat on full Shank	ER16	3/4"	Flat on full Shank	4"	Hex	1.08"
530073	3/4" Shank - ER16 - 6"L with HEX Nut - Flat on full Shank	ER16	3/4"	Flat on full Shank	6"	Hex	1.08"
530075	1" Shank - ER16 - 2.5"L with HEX Nut - Flat on full Shank	ER16	1"	Flat on full Shank	2.5"	Hex	1.08"
530076	1" Shank - ER16 - 4"L with HEX Nut - Flat on full Shank	ER16	1"	Flat on full Shank	4"	Hex	1.08"
530077	1" Shank - ER16 - 6"L with HEX Nut - Flat on full Shank	ER16	1"	Flat on full Shank	6"	Hex	1.08"

ER STRAIGHT SHANK HOLDER

PART NUMBER	DESCRIPTION	ER COLLET SERIES	SHANK DIA D	SHANK TYPE	SHANK LENGTH L1	NUT TYPE	NUT DIA D
530078	3/4" Shank - ER20 - 2.5"L with HEX Nut - Flat on full Shank	ER20	3/4"	Flat on full Shank	2.5"	Hex	1.34"
530080	3/4" Shank - ER20 - 4"L with HEX Nut - Flat on full Shank	ER20	3/4"	Flat on full Shank	4"	Hex	1.34"
530081	3/4" Shank - ER20 - 6"L with HEX Nut - Flat on full Shank	ER20	3/4"	Flat on full Shank	6"	Hex	1.34"
530082	1" Shank - ER20 - 2.5"L with HEX Nut - Flat on full Shank	ER20	1"	Flat on full Shank	2.5"	Hex	1.34"
530083	1" Shank - ER20 - 4"L with HEX Nut - Flat on full Shank	ER20	1"	Flat on full Shank	4"	Hex	1.34"
530086	1" Shank - ER20 - 6"L with HEX Nut - Flat on full Shank	ER20	1"	Flat on full Shank	6"	Hex	1.34"
530087	1/2" Shank - ER25 - 4"L with Slotted Nut - Flat on full Shank	ER25	1/2"	Flat on full Shank	4"	Slotted	1.65"
530088	3/4" Shank - ER25 - 2.5"L with Slotted Nut - Flat on full Shank	ER25	3/4"	Flat on full Shank	2.5"	Slotted	1.65"
530089	3/4" Shank - ER25 - 4"L with Slotted Nut - Flat on full Shank	ER25	3/4"	Flat on full Shank	4"	Slotted	1.65"
530090	3/4" Shank - ER25 - 6"L with Slotted Nut - Flat on full Shank	ER25	3/4"	Flat on full Shank	6"	Slotted	1.65"
530091	1" Shank - ER25 - 2.5"L with Slotted Nut - Flat on full Shank	ER25	1"	Flat on full Shank	2.5"	Slotted	1.65"
530093	1" Shank - ER25 - 4"L with Slotted Nut - Flat on full Shank	ER25	1"	Flat on full Shank	4"	Slotted	1.65"
530094	1" Shank - ER25 - 6"L with Slotted Nut - Flat on full Shank	ER25	1"	Flat on full Shank	6"	Slotted	1.65"
530095	1" Shank - ER32 - 2"L with Slotted Nut - Flat on full Shank	ER32	1"	Flat on full Shank	2"	Slotted	1.97"
530096	1" Shank - ER32 - 2.5"L with Slotted Nut - Flat on full Shank	ER32	1"	Flat on full Shank	2.5"	Slotted	1.97"
530097	1" Shank - ER32 - 4"L with Slotted Nut - Flat on full Shank	ER32	1"	Flat on full Shank	4"	Slotted	1.97"
530098	1" Shank - ER32 - 6"L with Slotted Nut - Flat on full Shank	ER32	1"	Flat on full Shank	6"	Slotted	1.97"
530099	1-1/4" Shank - ER32 - 2"L with Slotted Nut - Flat on full Shank	ER32	1-1/4"	Flat on full Shank	2"	Slotted	1.97"
530100	1-1/4" Shank - ER32 - 2.5"L with Slotted Nut - Flat on full Shank	ER32	1-1/4"	Flat on full Shank	2.5"	Slotted	1.97"
530101	1-1/4" Shank - ER32 - 4"L with Slotted Nut - Flat on full Shank	ER32	1-1/4"	Flat on full Shank	4"	Slotted	1.97"
530102	1-1/4" Shank - ER32 - 6"L with Slotted Nut - Flat on full Shank	ER32	1-1/4"	Flat on full Shank	6"	Slotted	1.97"
530103	1" Shank - ER40 - 2.5"L with Slotted Nut - Flat on full Shank	ER40	1"	Flat on full Shank	2.5"	Slotted	2.48"
530104	1" Shank - ER40 - 4"L with Slotted Nut - Flat on full Shank	ER40	1"	Flat on full Shank	4"	Slotted	2.48"
530105	1" Shank - ER40 - 6"L with Slotted Nut - Flat on full Shank	ER40	1"	Flat on full Shank	6"	Slotted	2.48"
530106	1-1/4" Shank - ER40 - 2.5"L with Slotted Nut - Flat on full Shank	ER40	1-1/4"	Flat on full Shank	2.5"	Slotted	2.48"
530107	1-1/4" Shank - ER40 - 4"L with Slotted Nut - Flat on full Shank	ER40	1-1/4"	Flat on full Shank	4"	Slotted	2.48"
530108	1-1/4" Shank - ER40 - 6"L with Slotted Nut - Flat on full Shank	ER40	1-1/4"	Flat on full Shank	6"	Slotted	2.48"

DOUBLE-ENDED ER STRAIGHT SHANK FOR SWISS MACHINES

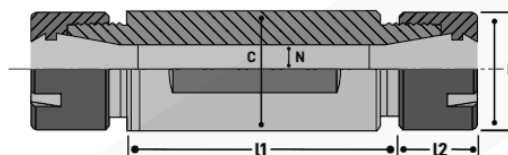


Each holder comes with Inspection Certificate.
PAC Certified For Quality.

PAC CERTIFIED QUALITY



**E-COMMERCE
WEB PAGE**



FEATURES :

- Accuracy: 0.0001" TIR or better
- All surfaces precision ground

PART NUMBER	DESCRIPTION	ER COLLET SERIES	SHANK DIA D	SHANK TYPE	SHANK LENGTH L1	OAL (MM)	NUT TYPE	NUT DIA D
535001	5/8" Shank - ER8 - 15mm L with Mini Nut	ER8	5/8"	Flat on full Shank	15mm	45mm	Mini	0.48"
535002	5/8" Shank - ER8 - 25mm L with Mini Nut	ER8	5/8"	Flat on full Shank	25mm	55mm	Mini	0.48"
535003	3/4" Shank - ER11 - 25mm L with Mini Nut	ER11	3/4"	Flat on full Shank	25mm	65mm	Mini	0.44"
535004	3/4" Shank - ER11 - 40mm L with Mini Nut	ER11	3/4"	Flat on full Shank	40mm	80mm	Mini	0.44"
535005	3/4" Shank - ER11 - 70mm L with Mini Nut	ER11	3/4"	Flat on full Shank	70mm	110mm	Mini	0.44"
535006	3/4" Shank - ER11 - 90mm L with Mini Nut	ER11	3/4"	Flat on full Shank	90mm	130mm	Mini	0.44"
535007	16mm Shank - ER11 - 40mm L with Mini Nut	ER11	16mm	Flat on full Shank	40mm	79mm	Mini	0.44"
535008	16mm Shank - ER11 - 50mm L with Mini Nut	ER11	16mm	Flat on full Shank	50mm	90mm	Mini	0.44"
535009	20mm Shank - ER11 - 30mm L with Mini Nut	ER11	20mm	Flat on full Shank	30mm	70mm	Mini	0.44"
535010	20mm Shank - ER11 - 50mm L with Mini Nut	ER11	20mm	Flat on full Shank	50mm	90mm	Mini	0.44"
535011	20mm Shank - ER11 - 70mm L with Mini Nut	ER11	20mm	Flat on full Shank	70mm	109mm	Mini	0.44"
535013	3/4" Shank - ER16 - 55mm L with Mini Nut	ER16	3/4"	Flat on full Shank	55mm	107mm	Mini	0.67"
535014	1" Shank - ER16 - 30mm L with Mini Nut	ER16	1"	Flat on full Shank	30mm	85mm	Mini	0.67"
535015	1" Shank - ER16 - 62mm L with Mini Nut	ER16	1"	Flat on full Shank	62mm	118mm	Mini	0.67"
535016	20mm Shank - ER16 - 30mm L with Mini Nut	ER16	20mm	Flat on full Shank	30mm	85mm	Mini	0.67"
535017	20mm Shank - ER16 - 55mm L with Mini Nut	ER16	20mm	Flat on full Shank	55mm	107mm	Mini	0.67"
535018	22mm Shank - ER16 - 55mm L with Mini Nut	ER16	22mm	Flat on full Shank	55mm	111mm	Mini	0.67"
535019	22mm Shank - ER16 - 75mm L with Mini Nut	ER16	22mm	Flat on full Shank	75mm	131mm	Mini	0.67"
535020	25mm Shank - ER16 - 36mm L with Mini Nut	ER8	25mm	Flat on full Shank	36mm	92mm	Mini	0.67"
535021	25mm Shank - ER16 - 62mm L with Mini Nut	ER8	25mm	Flat on full Shank	62mm	118mm	Mini	0.67"
535022	25mm Shank - ER20 - 36mm L with Mini Nut	ER11	25mm	Flat on full Shank	36mm	92mm	Mini	0.75"
535023	25mm Shank - ER20 - 66mm L with Mini Nut	ER11	25mm	Flat on full Shank	66mm	122mm	Mini	0.75"
535024	32mm Shank - ER20 - 55mm L with Mini Nut	ER11	32mm	Flat on full Shank	55mm	111mm	Mini	0.75"
535025	32mm Shank - ER20 - 75mm L with Mini Nut	ER11	32mm	Flat on full Shank	75mm	131mm	Mini	0.75"

ER COLLETS

ACCURACY:



STANDARD PRECISION
-0.00059"



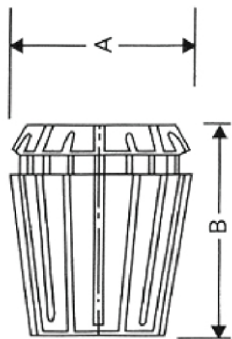
HIGH PRECISION
-0.00039"



ULTRA PRECISION
-0.00019"



DIMENSIONS:



COLLET SERIES	REFERENCE#	A	B
ER 8	4004E	8.5mm (.335 in)	13.5mm (.531 in)
ER 11	4008E	11.5mm (.453 in)	18mm (.709 in)
ER 16	426E	17mm (.669 in)	27.5mm (1.063 in)
ER 20	428E	21mm (.827 in)	31.5mm (1.220 in)
ER 25	430E	26mm (1.024 in)	34mm (1.378 in)
ER 32	470E	33mm (1.299 in)	40mm 1.575 in)
ER 40	472E	41mm (1.614 in)	46mm (1.811 in)
ER 50	477E	52mm (2.047 in)	60mm (2.362 in)

FEATURES :

- All PAC Collets are as per ISO-15488 / DIN 6499 standard
- Manufactured with SWISS Technology
- Crafted from high quality Spring Steel
- METRIC & INCH sizes
- Fractional Collets manufactured specifically for USA market requirements
- 16 slot construction for rigid clamping and extra concentricity
- PAC Collets improve tool life, part finish and reduces spindle wear
- Can be used for drilling, milling, tapping and reaming
- Hardness: 44-46 HRC
- All edges are not only deburred, but additionally rounded for guaranteed repeatability

ER COLLETS

ER8, ER11, ER16

COLLET SIZE	DECIMAL SIZE (INCH)	ER8			ER11			ER16		
		STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.	STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.	STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.
1/32	0.031	200001	200001HP	200001UP	200021	200021HP	200021UP	200050	200050HP	200050UP
1mm	0.039	200002	200002HP	200002UP	200022	200022HP	200022UP	200051	200051HP	200051UP
3/64	0.047	200003	200003HP	200003UP	200023	200023HP	200023UP	200052	200052HP	200052UP
1.5mm	0.059	200004	200004HP	200004UP	200024	200024HP	200024UP	200053	200053HP	200053UP
1/16	0.063	200005	200005HP	200005UP	200025	200025HP	200025UP	200054	200054HP	200054UP
5/64	0.078	200006	200006HP	200006UP	200026	200026HP	200026UP	200055	200055HP	200055UP
2mm	0.079	200007	200007HP	200007UP	200027	200027HP	200027UP	200056	200056HP	200056UP
3/32	0.094	200008	200008HP	200008UP	200028	200028HP	200028UP	200057	200057HP	200057UP
2.5mm	0.098	200009	200009HP	200009UP	200029	200029HP	200029UP	200058	200058HP	200058UP
7/64	0.109	200010	200010HP	200010UP	200030	200030HP	200030UP	200059	200059HP	200059UP
3mm	0.118	200011	200011HP	200011UP	200031	200031HP	200031UP	200060	200060HP	200060UP
1/8	0.125	200012	200012HP	200012UP	200032	200032HP	200032UP	200061	200061HP	200061UP
3.5mm	0.138	200013	200013HP	200013UP	200033	200033HP	200033UP	200062	200062HP	200062UP
9/64	0.141	200014	200014HP	200014UP	200034	200034HP	200034UP	200063	200063HP	200063UP
5/32	0.156	200015	200015HP	200015UP	200035	200035HP	200035UP	200064	200064HP	200064UP
4mm	0.157	200016	200016HP	200016UP	200036	200036HP	200036UP	200065	200065HP	200065UP
11/64	0.172	200017	200017HP	200017UP	200037	200037HP	200037UP	200066	200066HP	200066UP
4.5mm	0.177	200018	200018HP	200018UP	200038	200038HP	200038UP	200067	200067HP	200067UP
3/16	0.188	200019	200019HP	200019UP	200039	200039HP	200039UP	200068	200068HP	200068UP
5mm	0.197	200020	200020HP	200020UP	200040	200040HP	200040UP	200069	200069HP	200069UP
13/64	0.203				200041	200041HP	200041UP	200070	200070HP	200070UP
5.5mm	0.217				200042	200042HP	200042UP	200071	200071HP	200071UP
7/32	0.219				200043	200043HP	200043UP	200072	200072HP	200072UP
15/64	0.234				200044	200044HP	200044UP	200073	200073HP	200073UP
6mm	0.236				200045	200045HP	200045UP	200074	200074HP	200074UP
1/4	0.250				200046	200046HP	200046UP	200075	200075HP	200075UP
6.5mm	0.256				200047	200047HP	200047UP	200076	200076HP	200076UP
17/64	0.266				200048	200048HP	200048UP	200077	200077HP	200077UP
7mm	0.276				200049	200049HP	200049UP	200078	200078HP	200078UP
9/32	0.281							200079	200079HP	200079UP
7.5mm	0.295							200080	200080HP	200080UP
19/64	0.297							200081	200081HP	200081UP
5/16	0.313							200082	200082HP	200082UP
8mm	0.315							200083	200083HP	200083UP
21/64	0.328							200084	200084HP	200084UP
8.5mm	0.335							200085	200085HP	200085UP
11/32	0.344							200086	200086HP	200086UP
9mm	0.354							200087	200087HP	200087UP

ER COLLETS

COLLET SIZE	DECIMAL SIZE (INCH)	ER8			ER11			ER16		
		STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.	STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.	STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.
23/64	0.359							200088	200088HP	200088UP
9.5mm	0.374							200089	200089HP	200089UP
3/8	0.375							200090	200090HP	200090UP
25/64	0.391							200091	200091HP	200091UP
10mm	0.394							200092	200092HP	200092UP
13/32	0.406							200093	200093HP	200093UP

ER20, ER25, ER32

COLLET SIZE	DECIMAL SIZE (INCH)	ER20			ER25			ER32		
		STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.	STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.	STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.
2mm	0.079	200094	200094HP	200094UP	200145	200145HP	200145UP			
3/32	0.094	200095	200095HP	200095UP	200146	200146HP	200146UP			
2.5mm	0.098	200096	200096HP	200096UP	200147	200147HP	200147UP			
7/64	0.109	200097	200097HP	200097UP	200148	200148HP	200148UP			
3mm	0.118	200098	200098HP	200098UP	200149	200149HP	200149UP	200210	200210HP	200210UP
1/8	0.125	200099	200099HP	200099UP	200150	200150HP	200150UP	200211	200211HP	200211UP
3.5mm	0.138	200100	200100HP	200100UP	200151	200151HP	200151UP	200212	200212HP	200212UP
9/64	0.141	200101	200101HP	200101UP	200152	200152HP	200152UP	200213	200213HP	200213UP
5/32	0.156	200102	200102HP	200102UP	200153	200153HP	200153UP	200214	200214HP	200214UP
4mm	0.157	200103	200103HP	200103UP	200154	200154HP	200154UP	200215	200215HP	200215UP
11/64	0.172	200104	200104HP	200104UP	200155	200155HP	200155UP	200216	200216HP	200216UP
4.5mm	0.177	200105	200105HP	200105UP	200156	200156HP	200156UP	200217	200217HP	200217UP
3/16	0.188	200106	200106HP	200106UP	200157	200157HP	200157UP	200218	200218HP	200218UP
5mm	0.197	200107	200107HP	200107UP	200158	200158HP	200158UP	200219	200219HP	200219UP
13/64	0.203	200108	200108HP	200108UP	200159	200159HP	200159UP	200220	200220HP	200220UP
5.5mm	0.217	200109	200109HP	200109UP	200160	200160HP	200160UP	200221	200221HP	200221UP
7/32	0.219	200110	200110HP	200110UP	200161	200161HP	200161UP	200222	200222HP	200222UP
15/64	0.234	200111	200111HP	200111UP	200162	200162HP	200162UP	200223	200223HP	200223UP
6mm	0.236	200112	200112HP	200112UP	200163	200163HP	200163UP	200224	200224HP	200224UP
1/4	0.250	200113	200113HP	200113UP	200164	200164HP	200164UP	200225	200225HP	200225UP
6.5mm	0.256	200114	200114HP	200114UP	200165	200165HP	200165UP	200226	200226HP	200226UP
17/64	0.266	200115	200115HP	200115UP	200166	200166HP	200166UP	200227	200227HP	200227UP
7mm	0.276	200116	200116HP	200116UP	200167	200167HP	200167UP	200228	200228HP	200228UP
9/32	0.281	200117	200117HP	200117UP	200168	200168HP	200168UP	200229	200229HP	200229UP
7.5mm	0.295	200118	200118HP	200118UP	200169	200169HP	200169UP	200230	200230HP	200230UP
19/64	0.297	200119	200119HP	200119UP	200170	200170HP	200170UP	200231	200231HP	200231UP

ER COLLETS

COLLET SIZE	DECIMAL SIZE (INCH)	ER20			ER25			ER32		
		STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.	STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.	STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.
5/16	0.313	200120	200120HP	200120UP	200171	200171HP	200171UP	200232	200232HP	200232UP
8mm	0.315	200121	200121HP	200121UP	200172	200172HP	200172UP	200233	200233HP	200233UP
21/64	0.328	200122	200122HP	200122UP	200173	200173HP	200173UP	200234	200234HP	200234UP
8.5mm	0.335	200123	200123HP	200123UP	200174	200174HP	200174UP	200235	200235HP	200235UP
11/32	0.344	200124	200124HP	200124UP	200175	200175HP	200175UP	200236	200236HP	200236UP
9mm	0.354	200125	200125HP	200125UP	200176	200176HP	200176UP	200237	200237HP	200237UP
23/64	0.359	200126	200126HP	200126UP	200177	200177HP	200177UP	200238	200238HP	200238UP
9.5mm	0.374	200127	200127HP	200127UP	200178	200178HP	200178UP	200239	200239HP	200239UP
3/8	0.375	200128	200128HP	200128UP	200179	200179HP	200179UP	200240	200240HP	200240UP
25/64	0.391	200129	200129HP	200129UP	200180	200180HP	200180UP	200241	200241HP	200241UP
10mm	0.394	200130	200130HP	200130UP	200181	200181HP	200181UP	200242	200242HP	200242UP
13/32	0.406	200131	200131HP	200131UP	200182	200182HP	200182UP	200243	200243HP	200243UP
10.5mm	0.413	200132	200132HP	200132UP	200183	200183HP	200183UP	200244	200244HP	200244UP
27/64	0.422	200133	200133HP	200133UP	200184	200184HP	200184UP	200245	200245HP	200245UP
11mm	0.433	200134	200134HP	200134UP	200185	200185HP	200185UP	200246	200246HP	200246UP
7/16	0.438	200135	200135HP	200135UP	200186	200186HP	200186UP	200247	200247HP	200247UP
11.5mm	0.453	200136	200136HP	200136UP	200187	200187HP	200187UP	200248	200248HP	200248UP
29/64	0.453	200137	200137HP	200137UP	200188	200188HP	200188UP	200249	200249HP	200249UP
15/32	0.469	200138	200138HP	200139UP	200189	200189HP	200190UP	200251	200251HP	200251UP
12mm	0.472	200139	200139HP	200140UP	200190	200190HP	200191UP	200252	200252HP	200252UP
31/64	0.484	200140	200140HP	200141UP	200191	200191HP	200192UP	200253	200253HP	200253UP
12.5mm	0.492	200141	200141HP	200142UP	200192	200192HP	200193UP	200254	200254HP	200254UP
1/2	0.500	200142	200142HP	200143UP	200193	200193HP	200194UP	200255	200255HP	200255UP
13mm	0.512	200143	200143HP	200144UP	200194	200194HP	200195UP	200256	200256HP	200256UP
33/64	0.516	200144	200144HP		200195	200195HP	200196UP	200257	200257HP	200257UP
17/32	0.531				200196	200196HP	200197UP	200258	200258HP	200258UP
13.5mm	0.531				200197	200197HP	200198UP	200259	200259HP	200259UP
35/64	0.547				200198	200198HP	200199UP	200260	200260HP	200260UP
14mm	0.551				200199	200199HP	200200UP	200261	200261HP	200261UP
9/16	0.563				200200	200200HP	200201UP	200262	200262HP	200262UP
14.5mm	0.571				200201	200201HP	200202UP	200263	200263HP	200263UP
37/64	0.578				200202	200202HP	200203UP	200264	200264HP	200264UP
15mm	0.591				200203	200203HP	200204UP	200265	200265HP	200265UP
19/32	0.594				200204	200204HP	200205UP	200266	200266HP	200266UP
39/64	0.609				200205	200205HP	200206UP	200267	200267HP	200267UP
15.5mm	0.610				200206	200206HP	200207UP	200268	200268HP	200268UP
5/8	0.625				200207	200207HP	200208UP	200269	200269HP	200269UP
16mm	0.630				200208	200208HP	200209UP	200270	200270HP	200270UP
41/64	0.641				200209	200209HP		200271	200271HP	200271UP
16.5mm	0.650							200272	200272HP	200272UP

ER COLLETS

COLLET SIZE	DECIMAL SIZE (INCH)	ER20			ER25			ER32		
		STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.	STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.	STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.
21/32	0.656							200273	200273HP	200273UP
17mm	0.669							200274	200274HP	200274UP
43/64	0.672							200275	200275HP	200275UP
11/16	0.688							200276	200276HP	200276UP
17.5mm	0.689							200277	200277HP	200277UP
45/64	0.703							200278	200278HP	200278UP
18mm	0.709							200279	200279HP	200279UP
23/32	0.719							200280	200280HP	200280UP
18.5mm	0.728							200281	200281HP	200281UP
47/64	0.734							200282	200282HP	200282UP
19mm	0.748							200283	200283HP	200283UP
3/4	0.750							200284	200284HP	200284UP
49/64	0.766							200285	200285HP	200285UP
19.5mm	0.768							200286	200286HP	200286UP
25/32	0.781							200287	200287HP	200287UP
20mm	0.787							200288	200288HP	200288UP
51/64	0.797							200289	200289HP	200289UP
20.5mm	0.807							200290	200290HP	200290UP
13/16	0.813							200291	200291HP	200291UP

ER COLLETS

ER40

COLLET SIZE	DECIMAL SIZE (INCH)	ER40		
		STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.
3mm	0.118	200292	200292HP	200292UP
1/8	0.125	200293	200293HP	200293UP
3.5mm	0.138	200294	200294HP	200294UP
9/64	0.141	200295	200295HP	200295UP
5/32	0.156	200296	200296HP	200296UP
4mm	0.157	200297	200297HP	200297UP
11/64	0.172	200298	200298HP	200298UP
4.5mm	0.177	200299	200299HP	200299UP
3/16	0.188	200300	200300HP	200300UP
5mm	0.197	200301	200301HP	200301UP
13/64	0.203	200302	200302HP	200302UP
5.5mm	0.217	200303	200303HP	200303UP
7/32	0.219	200304	200304HP	200304UP
15/64	0.234	200305	200305HP	200305UP
6mm	0.236	200306	200306HP	200306UP
1/4	0.250	200307	200307HP	200307UP
6.5mm	0.256	200308	200308HP	200308UP
17/64	0.266	200309	200309HP	200309UP
7mm	0.276	200310	200310HP	200310UP
9/32	0.281	200311	200311HP	200311UP
7.5mm	0.295	200312	200312HP	200312UP
19/64	0.297	200313	200313HP	200313UP
5/16	0.313	200314	200314HP	200314UP
8mm	0.315	200315	200315HP	200315UP
21/64	0.328	200316	200316HP	200316UP
8.5mm	0.335	200317	200317HP	200317UP
11/32	0.344	200318	200318HP	200318UP
9mm	0.354	200319	200319HP	200319UP
23/64	0.359	200320	200320HP	200320UP
9.5mm	0.374	200321	200321HP	200321UP
3/8	0.375	200322	200322HP	200322UP
25/64	0.391	200323	200323HP	200323UP
10mm	0.394	200324	200324HP	200324UP
13/32	0.406	200325	200325HP	200325UP
10.5mm	0.413	200326	200326HP	200326UP
27/64	0.422	200327	200327HP	200327UP
11mm	0.433	200328	200328HP	200328UP
7/16	0.438	200329	200329HP	200329UP

COLLET SIZE	DECIMAL SIZE (INCH)	ER40		
		STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.
Continue...				
11.5mm	0.453	200330	200330HP	200330UP
29/64	0.453	200331	200331HP	200331UP
15/32	0.469	200333	200333HP	200333UP
12mm	0.472	200334	200334HP	200334UP
31/64	0.484	200335	200335HP	200335UP
12.5mm	0.492	200336	200336HP	200336UP
1/2	0.500	200337	200337HP	200337UP
13mm	0.512	200338	200338HP	200338UP
33/64	0.516	200339	200339HP	200339UP
17/32	0.531	200340	200340HP	200340UP
13.5mm	0.531	200341	200341HP	200341UP
35/64	0.547	200342	200342HP	200342UP
14mm	0.551	200343	200343HP	200343UP
9/16	0.563	200344	200344HP	200344UP
14.5mm	0.571	200345	200345HP	200345UP
37/64	0.578	200346	200346HP	200346UP
15mm	0.591	200347	200347HP	200347UP
19/32	0.594	200348	200348HP	200348UP
39/64	0.609	200349	200349HP	200349UP
15.5mm	0.610	200350	200350HP	200350UP
5/8	0.625	200351	200351HP	200351UP
16mm	0.630	200352	200352HP	200352UP
41/64	0.641	200353	200353HP	200353UP
16.5mm	0.650	200354	200354HP	200354UP
21/32	0.656	200355	200355HP	200355UP
17mm	0.669	200356	200356HP	200356UP
43/64	0.672	200357	200357HP	200357UP
11/16	0.688	200358	200358HP	200358UP
17.5mm	0.689	200359	200359HP	200359UP
45/64	0.703	200360	200360HP	200360UP
18mm	0.709	200361	200361HP	200361UP
23/32	0.719	200362	200362HP	200362UP
18.5mm	0.728	200363	200363HP	200363UP
47/64	0.734	200364	200364HP	200364UP
19mm	0.748	200365	200365HP	200365UP
3/4	0.750	200366	200366HP	200366UP
49/64	0.766	200367	200367HP	200367UP

ER COLLETS

ER40

COLLET SIZE	DECIMAL SIZE (INCH)	ER40		
		STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.
19.5mm	0.768	200368	200368HP	200368UP
25/32	0.781	200369	200369HP	200369UP
20mm	0.787	200370	200370HP	200370UP
51/64	0.797	200371	200371HP	200371UP
20.5mm	0.807	200372	200372HP	200372UP
13/16	0.813	200373	200373HP	200373UP
21mm	0.827	200374	200374HP	200374UP
53/64	0.828	200375	200375HP	200375UP
27/32	0.844	200376	200376HP	200376UP
21.5mm	0.846	200377	200377HP	200377UP
55/64	0.859	200378	200378HP	200378UP
22mm	0.866	200379	200379HP	200379UP
7/8	0.875	200380	200380HP	200380UP
22.5mm	0.886	200381	200381HP	200381UP
57/64	0.891	200382	200382HP	200382UP
23mm	0.906	200383	200383HP	200383UP
29/32	0.906	200384	200384HP	200384UP
59/64	0.922	200385	200385HP	200385UP
23.5mm	0.925	200386	200386HP	200386UP
15/16	0.938	200387	200387HP	200387UP
24mm	0.945	200388	200388HP	200388UP
61/64	0.953	200389	200389HP	200389UP
24.5mm	0.965	200390	200390HP	200390UP
31/32	0.969	200391	200391HP	200391UP
25mm	0.984	200392	200392HP	200392UP
63/64	0.984	200393	200393HP	200393UP
1	1.000	200394	200394HP	200394UP
25.5mm	1.004	200395	200395HP	200395UP
1/64	1.016	200396	200396HP	200396UP
26mm	1.024	200397	200397HP	200397UP

ER COLLETS

ER50

COLLET SIZE	DECIMAL SIZE (INCH)	ER50		
		STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.
12mm	0.472	200398	200398HP	200398UP
31/64	0.484	200399	200399HP	200399UP
12.5mm	0.492	200400	200400HP	200400UP
1/2	0.500	200401	200401HP	200401UP
13mm	0.512	200402	200402HP	200402UP
33/64	0.516	200403	200403HP	200403UP
17/32	0.531	200404	200404HP	200404UP
13.5mm	0.531	200405	200405HP	200405UP
35/64	0.547	200406	200406HP	200406UP
14mm	0.551	200407	200407HP	200407UP
9/16	0.563	200408	200408HP	200408UP
14.5mm	0.571	200409	200409HP	200409UP
37/64	0.578	200410	200410HP	200410UP
15mm	0.591	200411	200411HP	200411UP
19/32	0.594	200412	200412HP	200412UP
39/64	0.609	200413	200413HP	200413UP
15.5mm	0.610	200414	200414HP	200414UP
5/8	0.625	200415	200415HP	200415UP
16mm	0.630	200416	200416HP	200416UP
41/64	0.641	200417	200417HP	200417UP
16.5mm	0.650	200418	200418HP	200418UP
21/32	0.656	200419	200419HP	200419UP
17mm	0.669	200420	200420HP	200420UP
43/64	0.672	200421	200421HP	200421UP
11/16	0.688	200422	200422HP	200422UP
17.5mm	0.689	200423	200423HP	200423UP
45/64	0.703	200424	200424HP	200424UP
18mm	0.709	200425	200425HP	200425UP
23/32	0.719	200426	200426HP	200426UP
18.5mm	0.728	200427	200427HP	200427UP
47/64	0.734	200428	200428HP	200428UP
19mm	0.748	200429	200429HP	200429UP
3/4	0.750	200430	200430HP	200430UP
49/64	0.766	200431	200431HP	200431UP
19.5mm	0.768	200432	200432HP	200432UP
25/32	0.781	200433	200433HP	200433UP
20mm	0.787	200434	200434HP	200434UP
51/64	0.797	200435	200435HP	200435UP

COLLET SIZE	DECIMAL SIZE (INCH)	ER50		
		STD. PRECISION PART NO.	HIGH PRECISION PART NO.	ULTRA PRECISION PART NO.
Continue...				
20.5mm	0.807	200436	200436HP	200436UP
13/16	0.813	200437	200437HP	200437UP
21mm	0.827	200438	200438HP	200438UP
53/64	0.828	200439	200439HP	200439UP
27/32	0.844	200440	200440HP	200440UP
21.5mm	0.846	200441	200441HP	200441UP
55/64	0.859	200442	200442HP	200442UP
22mm	0.866	200443	200443HP	200443UP
7/8	0.875	200444	200444HP	200444UP
22.5mm	0.886	200445	200445HP	200445UP
57/64	0.891	200446	200446HP	200446UP
23mm	0.906	200447	200447HP	200447UP
29/32	0.906	200448	200448HP	200448UP
59/64	0.922	200449	200449HP	200449UP
23.5mm	0.925	200450	200450HP	200450UP
15/16	0.938	200451	200451HP	200451UP
24mm	0.945	200452	200452HP	200452UP
61/64	0.953	200453	200453HP	200453UP
24.5mm	0.965	200454	200454HP	200454UP
31/32	0.969	200455	200455HP	200455UP
25mm	0.984	200456	200456HP	200456UP
63/64	0.984	200457	200457HP	200457UP
1	1.000	200458	200458HP	200458UP
25.5mm	1.004	200459	200459HP	200459UP
26mm	1.024	200460	200460HP	200460UP
27mm	1.063	200461	200461HP	200461UP
28mm	1.102	200462	200462HP	200462UP
29mm	1.142	200463	200463HP	200463UP
30mm	1.181	200464	200464HP	200464UP
31mm	1.220	200465	200465HP	200465UP
32mm	1.260	200466	200466HP	200466UP
33mm	1.299	200467	200467HP	200467UP
34mm	1.339	200468	200468HP	200468UP

ER COLLET SETS



Each holder comes with Inspection Certificate.
PAC Certified For Quality.

PAC CERTIFIED QUALITY



**E-COMMERCE
WEB PAGE**



TYPE	SIZE	DESCRIPTION	NO. OF COLLETS IN SET	PART NUMBER
ER8	Metric	ER8 9 pcs metric Set - 1mm to 5mm x 0.5mm	9	290041
	Inch	ER8 9 pcs Inch Set - 1/16" to 3/16" x 1/64"	9	290042
ER11	Metric	ER11 13 pcs metric Set - 1mm to 7mm x 0.5mm	13	290017
	Inch	ER11 13 pcs Inch set - 1/16" to 1/4" x 1/64"	13	290018
	Inch	ER11 7 pcs Inch set - 1/16" to 1/4" x 1/32"	7	290019
ER16	Metric	ER16 10 pcs metric Set - 1mm to 10mm x 1mm	10	290020
	Inch	ER16 10 pcs Inch Set - 3/32" to 3/8" x 1/32"	10	290021
	Inch	ER16 11 pcs Inch Set - 1/16" to 3/8" x 1/32"	11	290022
ER20	Metric	ER20 12 pcs metric Set - 2mm to 13mm x 1mm	12	290023
	Inch	ER20 12 pcs Inch Set - 5/32" to 1/2" x 1/32"	12	290024
	Inch	ER20 15 pcs Inch Set - 1/16" to 1/2" x 1/32"	15	290025
ER25	Metric	ER25 15 pcs metric Set - 2mm to 16mm x 1mm	15	290026
	Inch	ER25 16 pcs Inch Set - 5/32" to 5/8" x 1/32"	16	290027
	Inch	ER25 17 pcs Inch Set - 1/8" to 5/8" x 1/32"	17	290028
	Inch	ER25 18 pcs Inch Set - 3/32" to 5/8" x 1/32"	18	290029
ER32	Metric	ER32 18 pcs metric Set - 3mm to 20mm x 1mm	18	290030
	Inch	ER32 18 pcs Inch Set - 7/32" to 3/4" x 1/32"	18	290031
	Inch	ER32 21 pcs Inch Set - 1/8" to 3/4" x 1/32"	21	290032
	Inch	ER32 22 pcs Inch Set - 1/8" to 25/32" x 1/32"	22	290033
	Metric	ER32 35 pcs metric Set - 3mm to 20mm x 0.5mm	35	290034
ER40	Inch	ER40 15 pcs Inch set - 1/8" to 1" x 1/16"	15	290035
	Metric	ER40 23 pcs metric set - 4mm to 26mm x 1mm	23	290036
	Inch	ER40 29 pcs Inch Set - 1/8" to 1" x 1/32"	29	290037
	Inch	ER40 7 pcs Inch set - 1/4" to 1" x 1/8"	7	290038
ER50	Metric	ER50 17 pcs metric SET - 6mm to 34mm x 2mm	17	290039
	Inch	ER50 6 pcs set - (1/2, 5/8, 3/4, 7/8, 1, 1-1/4)	6	290040

ER STEEL SEALED COLLETS

ACCURACY:



PAC CERTIFIED QUALITY



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STANDARD PRECISION

-0.00059"



HIGH PRECISION

-0.00039"



ULTRA PRECISION

-0.00019"

DIMENSIONS:



ER SERIES	A	B
ER11 STEEL Sealed	0.444"	0.709"
ER16 STEEL Sealed	0.659"	1.063"
ER20 STEEL Sealed	0.817"	1.220"
ER25 STEEL Sealed	1.013"	1.378"
ER32 STEEL Sealed	1.289"	1.575"
ER40 STEEL Sealed	1.604"	1.811"
ER50 STEEL Sealed	2.027"	2.362"

FEATURES :

- ER 11 through ER 50
- ER STEEL Sealed collets are designed for use with shank tools with no flats.
- Use of coolant collets with tools that are not cylindrical will result in coolant leakage.
- Sealed to 138 BAR / 2000 PSI
- Only nominal size can be clamped
- High precision & Ultra precision Seled collets are also available

ER STEEL SEALED COLLETS

Note #add "HP" or "UP" at the end of part number for HIGH Precision or Ultra Precision Collets

Inch Size	MM Size	Decimal Size (Inch)	ER8	ER11	ER16	ER20	ER25	ER32	ER40	ER50
1/8	3.0	0.118	210001SS	210011SS	210030SS	210063SS	210110SS	210171SS	210253SS	
		0.125	210002SS	210012SS	210031SS	210064SS	210111SS	210172SS	210254SS	
9/64	3.5	0.138	210003SS	210013SS	210032SS	210065SS	210112SS	210173SS	210255SS	
		0.141	210004SS	210014SS	210033SS	210066SS	210113SS	210174SS	210256SS	
5/32	4.0	0.156	210005SS	210015SS	210034SS	210067SS	210114SS	210175SS	210257SS	
		0.157	210006SS	210016SS	210035SS	210068SS	210115SS	210176SS	210258SS	
11/64	4.5	0.172	210007SS	210017SS	210036SS	210069SS	210116SS	210177SS	210259SS	
		0.177	210008SS	210018SS	210037SS	210070SS	210117SS	210178SS	210260SS	
3/16	5.0	0.188	210009SS	210019SS	210038SS	210071SS	210118SS	210179SS	210261SS	
		0.197	210010SS	210020SS	210039SS	210072SS	210119SS	210180SS	210262SS	
13/64	5.5	0.203		210021SS	210040SS	210073SS	210120SS	210181SS	210263SS	
		0.217		210022SS	210041SS	210074SS	210121SS	210182SS	210264SS	
7/32	6.0	0.219		210023SS	210042SS	210075SS	210122SS	210183SS	210265SS	
		0.234		210024SS	210043SS	210076SS	210123SS	210184SS	210266SS	
1/4	6.5	0.236		210025SS	210044SS	210077SS	210124SS	210185SS	210267SS	
		0.250		210026SS	210045SS	210078SS	210125SS	210186SS	210268SS	
17/64	7.0	0.256		210027SS	210046SS	210079SS	210126SS	210187SS	210269SS	
		0.266		210028SS	210047SS	210080SS	210127SS	210188SS	210270SS	
9/32	7.5	0.276		210029SS	210048SS	210081SS	210128SS	210189SS	210271SS	
		0.281			210049SS	210082SS	210129SS	210190SS	210272SS	
19/64	8.0	0.295			210050SS	210083SS	210130SS	210191SS	210273SS	
		0.297			210051SS	210084SS	210131SS	210192SS	210274SS	
5/16	8.5	0.313			210052SS	210085SS	210132SS	210193SS	210275SS	
		0.315			210053SS	210086SS	210133SS	210194SS	210276SS	
21/64	9.0	0.328			210054SS	210087SS	210134SS	210195SS	210277SS	
		0.335			210055SS	210088SS	210135SS	210196SS	210278SS	
11/32	9.5	0.344			210056SS	210089SS	210136SS	210197SS	210279SS	
		0.354			210057SS	210090SS	210137SS	210198SS	210280SS	
23/64	10.0	0.359			210058SS	210091SS	210138SS	210199SS	210281SS	
		0.374			210059SS	210092SS	210139SS	210200SS	210282SS	
3/8	10.5	0.375			210060SS	210093SS	210140SS	210201SS	210283SS	
		0.391			210061SS	210094SS	210141SS	210202SS	210284SS	
25/64	11.0	0.394			210062SS	210095SS	210142SS	210203SS	210285SS	
		0.406				210096SS	210143SS	210204SS	210286SS	
13/32	11.5	0.413				210097SS	210144SS	210205SS	210287SS	
		0.422				210098SS	210145SS	210206SS	210288SS	
27/64	12.0	0.433				210099SS	210146SS	210207SS	210289SS	
		0.438				210100SS	210147SS	210208SS	210290SS	
7/16	12.5	0.453				210101SS	210148SS	210209SS	210291SS	
		0.453				210102SS	210149SS	210210SS	210292SS	
29/64	13.0	0.469				210104SS	210151SS	210212SS	210294SS	
		0.472				210105SS	210152SS	210213SS	210295SS	210358SS
31/64		0.484				210106SS	210153SS	210214SS	210296SS	210359SS

ER STEEL SEALED COLLETS

Note #add "HP" or "UP" at the end of part number for HIGH Precision or Ultra Precision Collets

Inch Size	MM Size	Decimal Size (Inch)	ER8	ER11	ER16	ER20	ER25	ER32	ER40	ER50
1/2	12.5	0.492				210107SS	210154SS	210215SS	210297SS	210360SS
		0.500				210108SS	210155SS	210216SS	210298SS	210361SS
	13.0	0.512				210109SS	210156SS	210217SS	210299SS	210362SS
33/64	13.5	0.516					210157SS	210218SS	210300SS	210363SS
17/32		0.531					210158SS	210219SS	210301SS	210364SS
35/64	14.0	0.531					210159SS	210220SS	210302SS	210365SS
		0.547					210160SS	210221SS	210303SS	210366SS
9/16	14.5	0.551					210161SS	210222SS	210304SS	210367SS
		0.563					210162SS	210223SS	210305SS	210368SS
	37/64	0.571					210163SS	210224SS	210306SS	210369SS
19/32	15.0	0.578					210164SS	210225SS	210307SS	210370SS
		0.591					210165SS	210226SS	210308SS	210371SS
	39/64	0.594					210166SS	210227SS	210309SS	210372SS
5/8	15.5	0.609					210167SS	210228SS	210310SS	210373SS
		0.610					210168SS	210229SS	210311SS	210374SS
	41/64	0.625					210169SS	210230SS	210312SS	210375SS
21/32	16.0	0.630					210170SS	210231SS	210313SS	210376SS
		0.641						210232SS	210314SS	210377SS
	43/64	0.650						210233SS	210315SS	210378SS
11/16	16.5	0.656						210234SS	210316SS	210379SS
		0.669						210235SS	210317SS	210380SS
	45/64	0.672						210236SS	210318SS	210381SS
23/32	17.0	0.688						210237SS	210319SS	210382SS
		0.689						210238SS	210320SS	210383SS
	47/64	0.703						210239SS	210321SS	210384SS
3/4	17.5	0.709						210240SS	210322SS	210385SS
		0.719						210241SS	210323SS	210386SS
	49/64	0.728						210242SS	210324SS	210387SS
25/32	18.0	0.734						210243SS	210325SS	210388SS
		0.748						210244SS	210326SS	210389SS
	51/64	0.750						210245SS	210327SS	210390SS
13/16	18.5	0.766						210246SS	210328SS	210391SS
		0.768						210247SS	210329SS	210392SS
	53/64	0.781						210248SS	210330SS	210393SS
27/32	19.0	0.787						210249SS	210331SS	210394SS
		0.797						210250SS	210332SS	210395SS
	55/64	0.807						210251SS	210333SS	210396SS
53/64	19.5	0.813						210252SS	210334SS	210397SS
		0.827							210335SS	210398SS
	27/32	0.828						210336SS	210399SS	
55/64	20.0	0.844						210337SS	210400SS	
		0.846						210338SS	210401SS	
	55/64	0.859						210339SS	210402SS	

ER STEEL SEALED COLLETS

Note #add "HP" or "UP" at the end of part number for HIGH Precision or Ultra Precision Collets

Inch Size	MM Size	Decimal Size (Inch)	ER8	ER11	ER16	ER20	ER25	ER32	ER40	ER50
7/8	22.0	0.866							210340SS	210403SS
		0.875							210341SS	210404SS
57/64	22.5	0.886							210342SS	210405SS
		0.891							210343SS	210406SS
29/32	23.0	0.906							210344SS	210407SS
59/64		0.906							210345SS	210408SS
		0.922							210346SS	210409SS
15/16	23.5	0.925							210347SS	210410SS
		0.938							210348SS	210411SS
61/64	24.0	0.945							210349SS	210412SS
		0.953							210350SS	210413SS
31/32	24.5	0.965							210351SS	210414SS
		0.969							210352SS	210415SS
63/64	25.0	0.984							210353SS	210416SS
		0.984							210354SS	210417SS
1		1.000							210355SS	210418SS
									210356SS	210419SS
	25.5									210420SS
	26.0									210421SS
	27.0									210422SS
	28.0									210423SS
	29.0									210424SS
	30.0									210425SS
	31.0									210426SS
	32.0									210427SS
	33.0									210428SS
	34.0									

ER STEEL SEALED COLLET SETS



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Note #add "HP" or "UP" at the end of part number for HIGH Precision or Ultra Precision Collets

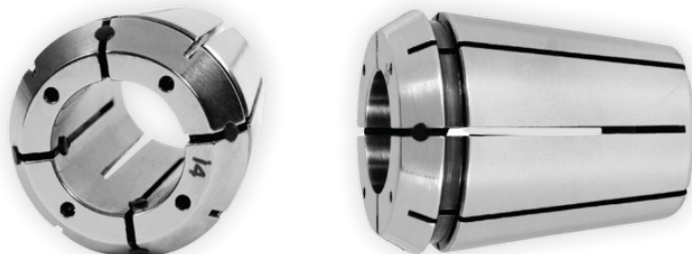
TYPE	SIZE	DESCRIPTION	NO. OF COLLETS IN SET	PART NUMBER
ER16	Inch	ER16 Steel Sealed Collet 9 pcs Set - Inch 1/8" to 3/8" x 1/32"	9	290043
ER16	Metric	ER16 Steel Sealed Collet 8 pcs Set - metric 3mm to 10mm x 1mm	8	290044
ER20	Metric	ER20 Steel Sealed Collet 11 pcs Set - metric 3mm to 13mm x 1mm	11	290045
ER20	Inch	ER20 Steel Sealed Collet 12 pcs Set - Inch 5/32" to 1/2" x 1/32"	12	290046
ER25	Metric	ER25 Steel Sealed Collet 14 pcs Set - 3mm to 16mm x 1mm	14	290047
ER25	Inch	ER25 Steel Sealed Collet Set - Inch 14 pcs - 7/32" to 5/8" x 1/32"	14	290048
ER32	Metric	ER32 Steel Sealed Collet 18 pcs Set - 3mm to 20mm x 1mm	18	290049
ER32	Inch	ER32 Steel Sealed Collet 18 pcs Set - 7/32" to 3/4" x 1/32"	18	290050
ER40	Inch	ER40 Steel Sealed Collet 15 pcs Set - 3/8" to 1" x 1/32"	15	290051
ER40	Metric	ER40 Steel Sealed Collet 16 pcs Set - 6mm to 25mm x 1mm	16	290052
ER50	Metric	ER50 Steel Sealed Collet 10 pcs Set - 12mm to 30mm x 2mm	10	290053

ER COOL-BLAST SEALED COLLETS (JET SPRAY)

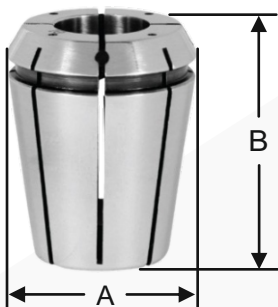
ACCURACY:



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DIMENSIONS:



ER SERIES	A	B
ER11 COOL-BLAST SEALED	0.444"	0.709"
ER16 COOL-BLAST SEALED	0.659"	1.063"
ER20 COOL-BLAST SEALED	0.817"	1.220"
ER25 COOL-BLAST SEALED	1.013"	1.378"
ER32 COOL-BLAST SEALED	1.289"	1.575"
ER40 COOL-BLAST SEALED	1.604"	1.811"
ER50 COOL-BLAST SEALED	2.027"	2.362"

FEATURES :

- ER 11 through ER 50
- ER COOL-BLAST Sealed collets are designed for use with shank tools with no flats.
- Use of coolant collets with tools that are not cylindrical will result in coolant leakage.
- Sealed to 100 BAR / 1500 PSI
- Only nominal size can be clamped
- High precision & Ultra precision Seled collets are also available

ER COOL-BLAST SEALED COLLETS(JET-SPRAY)

Inch Size	MM Size	Decimal Size (Inch)	ERT1	ER16	ER20	ER25	ER32	ER40	ER50
	3.0	0.118	230001EC	230015EC	230036EC	230065EC	230101EC	230147EC	
1/8		0.125	230002EC	230016EC	230037EC	230066EC	230102EC	230148EC	
	3.5	0.138	230003EC	230017EC	230038EC	230067EC	230103EC	230149EC	
5/32		0.156	230004EC	230018EC	230039EC	230068EC	230104EC	230150EC	
	4.0	0.157	230005EC	230019EC	230040EC	230069EC	230105EC	230151EC	
	4.5	0.177	230006EC	230020EC	230041EC	230070EC	230106EC	230152EC	
3/16		0.188	230007EC	230021EC	230042EC	230071EC	230107EC	230153EC	
	5.0	0.197	230008EC	230022EC	230043EC	230072EC	230108EC	230154EC	
	5.5	0.217	230009EC	230023EC	230044EC	230073EC	230109EC	230155EC	
7/32		0.219	230010EC	230024EC	230045EC	230074EC	230110EC	230156EC	
	6.0	0.236	230011EC	230025EC	230046EC	230075EC	230111EC	230157EC	
1/4		0.250	230012EC	230026EC	230047EC	230076EC	230112EC	230158EC	
	6.5	0.256	230013EC	230027EC	230048EC	230077EC	230113EC	230159EC	
	7.0	0.276	230014EC	230028EC	230049EC	230078EC	230114EC	230160EC	
9/32		0.281		230029EC	230050EC	230079EC	230115EC	230161EC	
5/16		0.313		230030EC	230051EC	230080EC	230116EC	230162EC	
	8.0	0.315		230031EC	230052EC	230081EC	230117EC	230163EC	
11/32		0.344		230032EC	230053EC	230082EC	230118EC	230164EC	
	9.0	0.354		230033EC	230054EC	230083EC	230119EC	230165EC	
3/8		0.375		230034EC	230055EC	230084EC	230120EC	230166EC	
	10.0	0.394		230035EC	230056EC	230085EC	230121EC	230167EC	
13/32		0.406			230057EC	230086EC	230122EC	230168EC	
	11.0	0.433			230058EC	230087EC	230123EC	230169EC	
7/16		0.438			230059EC	230088EC	230124EC	230170EC	
15/32		0.469			230061EC	230090EC	230126EC	230172EC	
	12.0	0.472			230062EC	230091EC	230127EC	230173EC	
1/2		0.500			230063EC	230092EC	230128EC	230174EC	
	13.0	0.512			230064EC	230093EC	230129EC	230175EC	
17/32		0.531				230094EC	230130EC	230176EC	
	14.0	0.551				230095EC	230131EC	230177EC	
9/16		0.563				230096EC	230132EC	230178EC	
	15.0	0.591				230097EC	230133EC	230179EC	
19/32		0.594				230098EC	230134EC	230180EC	
5/8		0.625				230099EC	230135EC	230181EC	
	16.0	0.630				230100EC	230136EC	230182EC	
21/32		0.656					230137EC	230183EC	
	17.0	0.669					230138EC	230184EC	
11/16		0.688					230139EC	230185EC	
	18.0	0.709					230140EC	230186EC	
23/32		0.719					230141EC	230187EC	
	19.0	0.748					230142EC	230188EC	
3/4		0.750					230143EC	230189EC	
25/32		0.781					230144EC	230190EC	

ER COOL-BLAST SEALED COLLETS(JET-SPRAY)

Inch Size	MM Size	Decimal Size (Inch)	ER11	ER16	ER20	ER25	ER32	ER40	ER50
13/16	20.0	0.787						230145EC	230191EC
		0.813						230146EC	230192EC
27/32	21.0	0.827							230193EC
		0.844							230194EC
7/8	22.0	0.866							230195EC
		0.875							230196EC
29/32	23.0	0.906							230197EC
		0.906							230198EC
15/16	24.0	0.938							230199EC
		0.945							230200EC
31/32	24.0	0.969							230201EC
		0.984							230202EC
1	25.0	1.000							230203EC
									230204EC
	26.0								

ER COOL-BLAST SEALED COLLET SETS



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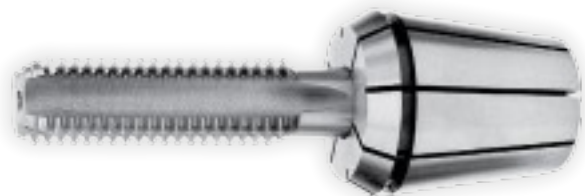


COLLETS

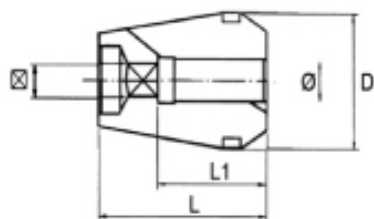
TYPE	SIZE	DESCRIPTION	NO. OF COLLETS IN SET	PART NUMBER
ER16	Inch	ER16 Cool Blast Sealed Collet 9 pcs Set - Inch 1/8" to 3/8" x 1/32"	9	290043EC
ER16	Metric	ER16 Cool Blast Sealed Collet 8 pcs Set - metric 3mm to 10mm x 1mm	8	290044EC
ER20	Metric	ER20 Cool Blast Sealed Collet 11 pcs Set - metric 3mm to 13mm x 1mm	11	290045EC
ER20	Inch	ER20 Cool Blast Sealed Collet 12 pcs Set - Inch 5/32" to 1/2" x 1/32"	12	290046EC
ER25	Metric	ER25 Cool Blast Sealed Collet 14 pcs Set - 3mm to 16mm x 1mm	14	290047EC
ER25	Inch	ER25 Cool Blast Sealed Collet Set - Inch 14 pcs - 7/32" to 5/8" x 1/32"	14	290048EC
ER32	Metric	ER32 Cool Blast Sealed Collet 18 pcs Set - 3mm to 20mm x 1mm	18	290049EC
ER32	Inch	ER32 Cool Blast Sealed Collet 18 pcs Set - 7/32" to 3/4" x 1/32"	18	290050EC
ER40	Inch	ER40 Cool Blast Sealed Collet 15 pcs Set - 3/8" to 1" x 1/32"	15	290051EC
ER40	Metric	ER40 Cool Blast Sealed Collet 16 pcs Set - 6mm to 25mm x 1mm	16	290052EC

ER TAP COLLETS

ACCURACY:



DIMENSIONS:



ER SERIES	D	L
ER11 TAP COLLET	0.444"	0.709"
ER16 TAP COLLET	0.659"	1.063"
ER20 TAP COLLET	0.817"	1.220"
ER25 TAP COLLET	1.013"	1.378"
ER32 TAP COLLET	1.289"	1.575"
ER40 TAP COLLET	1.604"	1.811"

FEATURES :

- For synchronous tapping operation using standard ER collet chuck.
- Collet bore is exactly to the Tap shank diameter with square drive for accuracy and rigidity
- Replace expensive tap holders

ANSI STANDARD TAPS

TAP SIZE	SHANK SIZE	SQUARE SIZE	ER11	ER16	ER20	ER25	ER32	ER40
#0-6	0.141	0.110	240001T	240006T	240015T	240027T	240043T	240064T
#8	0.168	0.131	240002T	240007T	240016T	240028T	240044T	240065T
#10	0.194	0.152	240003T	240008T	240017T	240029T	240045T	240066T
#12	0.220	0.165	240004T	240009T	240018T	240030T	240046T	240067T
1/4	0.255	0.191	240005T	240010T	240019T	240031T	240047T	240068T
5/16	0.318	0.238		240011T	240020T	240032T	240048T	240070T
7/16	0.323	0.242		240012T	240022T	240034T	240050T	240072T
1/2	0.367	0.275		240013T	240023T	240035T	240051T	240073T
3/8	0.381	0.286		240014T	240021T	240033T	240049T	240071T
9/16	0.429	0.322			240024T	240036T	240052T	240074T
5/8	0.480	0.360				240037T	240054T	240075T
11/16	0.542	0.406				240038T	240055T	240076T
3/4	0.590	0.442				240039T	240057T	240078T
13/16	0.652	0.489					240058T	240079T
7/8	0.697	0.523					240058AT	240080T
15/16	0.760	0.570					240058BT	240082T
1"	0.800	0.600						240083T
1/16-P	0.3125	0.234			240025T	240040T	240060T	240085T
1/8s-P	0.3125	0.234			240026T	240041T	240061T	240086T
1/8-P	0.4375	0.328				240042T	240062T	240087T
1/4-P	0.5625	0.421					240063T	240088T
1/2-P	0.6875	0.515						240090T
3/8-P	0.7000	0.531						240089T

DIN, ISO & JIS STANDARD TAPS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
2.8	2.1	240091AT	240107AT			
3.0	2.5	240091T	240107T	240130T	240157T	240189T
3.15	2.5	240092T	240108T	240131T	240158T	240190T
3.5	2.7	240093T	240109T	240132T	240159T	240191T
3.55	2.8	240094T	240110T	240133T	240160T	240192T
4.0	3.0	240095T	240111T	240134T	240161T	240193T
4.0	3.2	240096T	240112T	240135T	240162T	240194T
4.5	3.4	240097T	240113T	240136T	240163T	240195T
5.0	4.0	240098T	240114T	240137T	240164T	240196T
5.5	4.3	240099T	240115T	240138T	240165T	240197T
5.6	4.5	240100T	240116T	240139T	240166T	240198T
6.0	4.5	240101T	240117T	240140T	240167T	240199T

ER TAP COLLETS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
6.0	4.9	240102T	240118T	240141T	240168T	240200T
6.3	5.0	240103T	240119T	240142T	240169T	240201T
7.0	5.0	240104T	240120T	240143T	240170T	240202T
7.0	5.5	240105T	240121T	240144T	240171T	240203T
7.1	5.6	240106T	240122T	240145T	240172T	240204T
8.0	6.0		240123T	240146T	240173T	240205T
8.0	6.2		240124T	240147T	240174T	240206T
8.0	6.3		240125T	240148T	240175T	240207T
8.5	6.5		240126T	240149T	240176T	240208T
9.0	7.0		240127T	240150T	240177T	240209T
10.0	8.0		240128T	240151T	240178T	240210T
10.5	8.0		240129T	240152T	240179T	240211T
11.0	9.0			240153T	240180T	240212T
11.2	9.0			240154T	240181T	240213T
12.0	9.0			240155T	240182T	240214T
12.5	10.0			240156T	240183T	240215T
14.0	11.0				240184T	240216T
14.0	11.2				240185T	240217T
15.0	12.0				240186T	240218T
16.0	12.0				240187T	240219T
16.0	12.5				240188T	240220T
17.0	13.0					240221T
18.0	14.5					240222T
18.0	14.0					240223T
19.0	15.0					240224T
20.0	16.0					240225T
20.0	15.0					240226T
22.0	18.0					240227T
22.4	18.0					240228T
25.0	20.0					240229T
28.0	22.0					240230T
28.0	22.4					240231T
31.5	25.0					240232T
32.0	24.0					240233T
36.0	29.0					240234T

ER TAP COLLET SETS



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COLLETS

TYPE	SIZE	DESCRIPTION	NO. OF COLLETS IN SET	PART NUMBER
ER16	Metric	ER16 Tap Collet 5 pcs Set - 2.8x2.1, 3.5x2.7, 4.5x3.4, 6x4.9, 8x6.2	5	290054
ER16	Inch	ER16 Tap Collet 5 pcs Set - 0.141, 0.168, 0.194, 0.220 & 0.255	5	290055
ER16	Metric	ER16 Tap Collet 9 pcs Set - 2.8x2.1, 3.5x2.7, 4.5x3.4, 6x4.9, 8x6.2, 8.5x6.5, 9x7, 10x8, 6x4.5	9	290056
ER16	Inch	ER16 Tap Collet 9 pcs Set - 0.141, 0.168, 0.194, 0.220, 0.255, 0.318, 0.323, 0.367 & 0.381	9	290057
ER20	Metric	ER20 Tap Collet 9 pcs Set - 2.8x2.1, 3.5x2.7, 4.5x3.4, 6x4.9, 8x6.2, 8.5x6.5, 9x7, 10x8, 6x4.5	9	290058
ER20	Inch	ER20 Tap Collet 9 pcs Set - 0.141, 0.168, 0.194, 0.220, 0.255, 0.318, 0.323, 0.367 & 0.381	5	290059
ER25	Metric	ER25 Tap Collet 11 pcs Set - 2.8x2.1, 3.5x2.7, 4.5x3.4, 6x4.9, 8x6.2, 8.5x6.5, 9x7, 10x8, 11x9, 12x9, 12.5x10	11	290060
ER25	Inch	ER25 Tap Collet 11 pcs Set - 0.141, 0.168, 0.194, 0.220, 0.255, 0.318, 0.323, 0.367, 0.381, 0.429, 0.480	11	290061
ER32	Metric	ER32 Tap Collet 11 pcs Set - 3.5x2.7, 4.5x3.4, 6x4.9, 8x6.2, 8.5x6.5, 9x7, 10x8, 11x9, 12x9, 12.5x10, 14x11	11	290062
ER32	Inch	ER32 Tap Collet 16 pcs Set - 0.141, 0.168, 0.194, 0.220, 0.255, 0.318, 0.323, 0.367, 0.381, 0.429, 0.480, 0.542, 0.590, 0.652, 0.697 & 0.760	16	290063
ER40	Metric	ER40 Tap Collet 21 pcs Set - 2.8x2.1, 3.5x2.7, 4.5x3.4, 6x4.9, 6.3x5, 7x5.5, 8x6.2, 8.5x6.5, 9x7, 10x8, 11x9, 12x9, 12.5x10, 13x10, 14x11, 15x12, 16x12, 17x13, 18x14, 19x14, 20x20	21	290064
ER40	Inch	ER40 Tap Collet 21 pcs Set - 0.141, 0.168, 0.194, 0.220, 0.255, 0.318, 0.323, 0.367, 0.381, 0.429, 0.480, 0.542, 0.590, 0.652, 0.697, 0.760, 0.800, 0.4375, 0.5625, 0.6875 & 0.7000	21	290065

ER TAP STEEL SEALED COLLETS

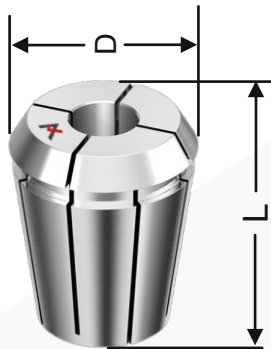
ACCURACY:



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DIMENSIONS:



ER SERIES	D	L
ER11 TAP COLLET	0.444"	0.709"
ER16 TAP COLLET	0.659"	1.063"
ER20 TAP COLLET	0.817"	1.220"
ER25 TAP COLLET	1.013"	1.378"
ER32 TAP COLLET	1.289"	1.575"
ER40 TAP COLLET	1.604"	1.811"

FEATURES :

- For synchronous tapping operation using standard ER collet chuck.
- Collet bore is exactly to the Tap shank diameter with square drive for accuracy and rigidity
- Replace expensive tap holders

ER TAP STEEL SEALED COLLETS

ANSI STANDARD TAPS

TAP SIZE	SHANK SIZE	SQUARE SIZE	ER11	ER16	ER20	ER25	ER32	ER40
#0-6	0.141	0.110	250001TS	250006TS	250012TS	250023TS	250037TS	250054TS
#8	0.168	0.131	250002TS	250007TS	250013TS	250024TS	250038TS	250055TS
#10	0.194	0.152	250003TS	250008TS	250014TS	250025TS	250039TS	250056TS
#12	0.220	0.165	250004TS	250009TS	250015TS	250026TS	250040TS	250057TS
1/4	0.255	0.191	250005TS	250010TS	250016TS	250027TS	250041TS	250058TS
5/16	0.318	0.238		250011TS	250017TS	250028TS	250042TS	250059TS
7/16	0.323	0.242			250019TS	250030TS	250044TS	250061TS
1/2	0.367	0.275			250020TS	250031TS	250045TS	250062TS
3/8	0.381	0.286			250018TS	250029TS	250043TS	250060TS
9/16	0.429	0.322				250032TS	250046TS	250063TS
5/8	0.480	0.360				250033TS	250047TS	250064TS
11/16	0.542	0.406					250048TS	250065TS
3/4	0.590	0.442					250049TS	250066TS
13/16	0.652	0.489						250067TS
7/8	0.697	0.523						250068TS
15/16	0.760	0.570						250069TS
1"	0.800	0.600						250070TS
1/16-P	0.3125	0.234			250021TS	250034TS	250050TS	250071TS
1/8s-P	0.3125	0.234			250022TS	250035TS	250051TS	250072TS
1/8-P	0.4375	0.328				250036TS	250052TS	250073TS
1/4-P	0.5625	0.421					250053TS	250074TS
1/2-P	0.6875	0.515						250076TS
3/8-P	0.7000	0.531						250075TS

DIN, ISO & JIS STANDARD TAPS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
2.8	2.1	240091ATS	240107ATS			
3.0	2.5	240091TS	240107TS	240130TS	240157TS	240189TS
3.15	2.5	240092TS	240108TS	240131TS	240158TS	240190TS
3.5	2.7	240093TS	240109TS	240132TS	240159TS	240191TS
3.55	2.8	240094TS	240110TS	240133TS	240160TS	240192TS
4.0	3.0	240095TS	240111TS	240134TS	240161TS	240193TS
4.0	3.2	240096TS	240112TS	240135TS	240162TS	240194TS
4.5	3.4	240097TS	240113TS	240136TS	240163TS	240195TS
5.0	4.0	240098TS	240114TS	240137TS	240164TS	240196TS
5.5	4.3	240099TS	240115TS	240138TS	240165TS	240197TS
5.6	4.5	240100TS	240116TS	240139TS	240166TS	240198TS
6.0	4.5	240101TS	240117TS	240140TS	240167TS	240199TS

ER TAP STEEL SEALED COLLETS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
6.0	4.9	240102TS	240118TS	240141TS	240168TS	240200TS
6.3	5.0	240103TS	240119TS	240142TS	240169TS	240201TS
7.0	5.0	240104TS	240120TS	240143TS	240170TS	240202TS
7.0	5.5	240105TS	240121TS	240144TS	240171TS	240203TS
7.1	5.6	240106TS	240122TS	240145TS	240172TS	240204TS
8.0	6.0		240123TS	240146TS	240173TS	240205TS
8.0	6.2		240124TS	240147TS	240174TS	240206TS
8.0	6.3		240125TS	240148TS	240175TS	240207TS
8.5	6.5		240126TS	240149TS	240176TS	240208TS
9.0	7.0		240127TS	240150TS	240177TS	240209TS
10.0	8.0		240128TS	240151TS	240178TS	240210TS
10.5	8.0		240129TS	240152TS	240179TS	240211TS
11.0	9.0			240153TS	240180TS	240212TS
11.2	9.0			240154TS	240181TS	240213TS
12.0	9.0			240155TS	240182TS	240214TS
12.5	10.0			240156TS	240183TS	240215TS
14.0	11.0				240184TS	240216TS
14.0	11.2				240185TS	240217TS
15.0	12.0				240186TS	240218TS
16.0	12.0				240187TS	240219TS
16.0	12.5				240188TS	240220TS
17.0	13.0					240221TS
18.0	14.5					240222TS
18.0	14.0					240223TS
19.0	15.0					240224TS
20.0	16.0					240225TS
20.0	15.0					240226TS
22.0	18.0					240227TS
22.4	18.0					240228TS
25.0	20.0					240229TS
28.0	22.0					240230TS
28.0	22.4					240231TS
31.5	25.0					240232TS
32.0	24.0					240233TS
36.0	29.0					240234TS

ER TAP STEEL SEALED COLLET SETS



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COLLETS

TYPE	SIZE	DESCRIPTION	NO. OF COLLETS IN SET	PART NUMBER
ER16	Metric	ER16 Tap STEEL Sealed Collet 5 pcs Set - 2.8x2.1, 3.5x2.7, 4.5x3.4, 6x4.9, 8x6.2	5	290054TS
ER16	Inch	ER16 Tap STEEL Sealed Collet 5 pcs Set - 0.141, 0.168, 0.194, 0.220 & 0.255	5	290055TS
ER16	Metric	ER16 Tap STEEL Sealed Collet 9 pcs Set - 2.8x2.1, 3.5x2.7, 4.5x3.4, 6x4.9, 8x6.2, 8.5x6.5, 9x7, 10x8, 6x4.5	9	290056TS
ER16	Inch	ER16 Tap STEEL Sealed Collet 9 pcs Set - 0.141, 0.168, 0.194, 0.220, 0.255, 0.318, 0.323, 0.367 & 0.381	9	290057TS
ER20	Metric	ER20 Tap STEEL Sealed Collet 9 pcs Set - 2.8x2.1, 3.5x2.7, 4.5x3.4, 6x4.9, 8x6.2, 8.5x6.5, 9x7, 10x8, 6x4.5	9	290058TS
ER20	Inch	ER20 Tap STEEL Sealed Collet 9 pcs Set - 0.141, 0.168, 0.194, 0.220, 0.255, 0.318, 0.323, 0.367 & 0.381	5	290059TS
ER25	Metric	ER25 Tap STEEL Sealed Collet 11 pcs Set - 2.8x2.1, 3.5x2.7, 4.5x3.4, 6x4.9, 8x6.2, 8.5x6.5, 9x7, 10x8, 11x9, 12x9, 12.5x10	11	290060TS
ER25	Inch	ER25 Tap STEEL Sealed Collet 11 pcs Set - 0.141, 0.168, 0.194, 0.220, 0.255, 0.318, 0.323, 0.367, 0.381, 0.429, 0.480	11	290061TS
ER32	Metric	ER32 Tap STEEL Sealed Collet 11 pcs Set - 3.5x2.7, 4.5x3.4, 6x4.9, 8x6.2, 8.5x6.5, 9x7, 10x8, 11x9, 12x9, 12.5x10, 14X11	11	290062TS
ER32	Inch	ER32 Tap STEEL Sealed Collet 16 pcs Set - 0.141, 0.168, 0.194, 0.220, 0.255, 0.318, 0.323, 0.367, 0.381, 0.429, 0.480, 0.542, 0.590, 0.652, 0.697 & 0.760	16	290063TS
ER40	Metric	ER40 Tap STEEL Sealed Collet 21 pcs Set - 2.8x2.1, 3.5x2.7, 4.5x3.4, 6x4.9, 6.3x5, 7x5.5, 8x6.2, 8.5x6.5, 9x7, 10x8, 11x9, 12x9, 12.5x10, 13x10, 14x11, 15x12, 16x12, 17x13, 18x14, 19x14, 20x20	21	290064TS
ER40	Inch	ER40 Tap STEEL Sealed Collet 21 pcs Set - 0.141, 0.168, 0.194, 0.220, 0.255, 0.318, 0.323, 0.367, 0.381, 0.429, 0.480, 0.542, 0.590, 0.652, 0.697, 0.760, 0.800, 0.4375, 0.5625, 0.6875 & 0.7000	21	290065TS

ER FLOATING TAP COLLETS - WITH AXIAL COMPENSATION



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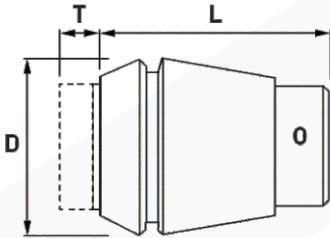
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DIMENSION :



	ER16	ER20	ER25	ER32	ER40
D	17.0mm	21.0mm	26.0mm	33.0mm	41.0mm
L	27.0mm	31.0mm	34.0mm	43.0mm	54.0mm
T	5.0mm	7.0mm	8.0mm	10.0mm	12.0mm

FEATURES :

- With square locking drive and tension length adjustment
- Axial compensation prevents breaking taps
- Locking feature prevents spinning the tap
- Reduced clearance requirements
- Inch and Metric collets available.

ER FLOATING TAP COLLETS - WITH AXIAL COMPENSATION

PART NUMBER	DESCRIPTION	COLLET SERIES	SHANK SIZE	SQUARE SIZE	TYPE
90001A	ERTB16-2.5X2.1	ER16	2.5	2.1	Metric
90002A	ERTB16-2.8X2.1	ER16	2.8	2.1	Metric
90003A	ERTB16-3.5X2.7	ER16	3.5	2.7	Metric
90004A	ERTB16-4.0X3.0	ER16	4.0	3.0	Metric
90005A	ERTB16-4.5X3.4	ER16	4.5	3.4	Metric
90006A	ERTB16-5.5X4.3	ER16	5.5	4.3	Metric
90007A	ERTB16-6.0X4.9	ER16	6.0	4.9	Metric
90008A	ERTB16-141	ER16	0.141"	0.110"	Inch
90009A	ERTB16-168	ER16	0.168"	0.131"	Inch
90010A	ERTB16-194	ER16	0.194"	0.152"	Inch
90011A	ERTB16-220	ER16	0.220"	0.165"	Inch
90012A	ERTB20-2.5X2.1	ER20	2.5	2.1	Metric
90013A	ERTB20-2.8X2.1	ER20	2.8	2.1	Metric
90014A	ERTB20-3.5X2.7	ER20	3.5	2.7	Metric
90015A	ERTB20-4.0X3.0	ER20	4.0	3.0	Metric
90016A	ERTB20-4.5X3.4	ER20	4.5	3.4	Metric
90017A	ERTB20-5.5X4.3	ER20	5.5	4.3	Metric
90018A	ERTB20-6.0X4.9	ER20	6.0	4.9	Metric
90019A	ERTB20-7.0X5.5	ER20	7.0	5.5	Metric
90020A	ERTB20-141	ER20	0.141"	0.110"	Inch
90021A	ERTB20-168	ER20	0.168"	0.131"	Inch
90022A	ERTB20-194	ER20	0.194"	0.152"	Inch
90023A	ERTB20-220	ER20	0.220"	0.165"	Inch
90024A	ERTB20-255	ER20	0.255"	0.191"	Inch
90025A	ERTB25-2.5X2.1	ER25	2.5	2.1	Metric
90026A	ERTB25-2.8X2.1	ER25	2.8	2.1	Metric
90027A	ERTB25-3.5X2.7	ER25	3.5	2.7	Metric
90028A	ERTB25-4.0X3.0	ER25	4.0	3.0	Metric
90029A	ERTB25-4.5X3.4	ER25	4.5	3.4	Metric
90030A	ERTB25-5.5X4.3	ER25	5.5	4.3	Metric
90031A	ERTB25-6.0X4.9	ER25	6.0	4.9	Metric
90032A	ERTB25-7.0X5.5	ER25	7.0	5.5	Metric
90033A	ERTB25-8.0X6.2	ER25	8.0	6.2	Metric
90034A	ERTB25-9.0X7.0	ER25	9.0	7.0	Metric
90035A	ERTB25-141	ER25	0.141"	0.110"	Inch
90036A	ERTB25-168	ER25	0.168"	0.131"	Inch
90037A	ERTB25-194	ER25	0.194"	0.152"	Inch
90038A	ERTB25-220	ER25	0.220"	0.165"	Inch
90039A	ERTB25-255	ER25	0.255"	0.191"	Inch
90040A	ERTB25-318	ER25	0.318"	0.238"	Inch
90041A	ERTB25-323	ER25	0.323"	0.242"	Inch
90042A	ERTB25-367	ER25	0.367"	0.275"	Inch
90043A	ERTB25-381	ER25	0.381"	0.286"	Inch

ER FLOATING TAP COLLETS - WITH AXIAL COMPENSATION

PART NUMBER	DESCRIPTION	COLLET SERIES	SHANK SIZE	SQUARE SIZE	TYPE
90044A	ERTB32-4.5X3.4	ER32	4.5	3.4	Metric
90045A	ERTB32-5.5X4.3	ER32	5.5	4.3	Metric
90046A	ERTB32-6.0X4.9	ER32	6.0	4.9	Metric
90047A	ERTB32-7.0X5.5	ER32	7.0	5.5	Metric
90048A	ERTB32-8.0X6.2	ER32	8.0	6.2	Metric
90049A	ERTB32-9.0X7.0	ER32	9.0	7.0	Metric
90050A	ERTB32-10.0X8.0	ER32	10.0	8.0	Metric
90051A	ERTB32-11.0X9.0	ER32	11.0	9.0	Metric
90052A	ERTB32-12.0X9.0	ER32	12.0	9.0	Metric
90053A	ERTB32-168	ER32	0.168"	0.131"	Inch
90054A	ERTB32-194	ER32	0.194"	0.152"	Inch
90055A	ERTB32-220	ER32	0.220"	0.165"	Inch
90056A	ERTB32-255	ER32	0.255"	0.191"	Inch
90057A	ERTB32-318	ER32	0.318"	0.238"	Inch
90058A	ERTB32-323	ER32	0.323"	0.242"	Inch
90059A	ERTB32-367	ER32	0.367"	0.275"	Inch
90060A	ERTB32-381	ER32	0.381"	0.286"	Inch
90061A	ERTB32-429	ER32	0.429"	0.322"	Inch
90062A	ERTB32-437	ER32	0.437"	0.328"	Inch
90063A	ERTB32-480	ER32	0.480"	0.360"	Inch
90064A	ERTB40-6.0X4.9	ER40	6.0	4.9	Metric
90065A	ERTB40-7.0X5.5	ER40	7.0	5.5	Metric
90066A	ERTB40-8.0X6.2	ER40	8.0	6.2	Metric
90067A	ERTB40-9.0X7.0	ER40	9.0	7.0	Metric
90068A	ERTB40-10.0X8.0	ER40	10.0	8.0	Metric
90069A	ERTB40-11.0X9.0	ER40	11.0	9.0	Metric
90070A	ERTB40-12.0X9.0	ER40	12.0	9.0	Metric
90071A	ERTB40-14.0X11.0	ER40	14.0	11.0	Metric
90072A	ERTB40-16.0X12.0	ER40	16.0	12.0	Metric

ER QUICK CHANGE TAP COLLETS

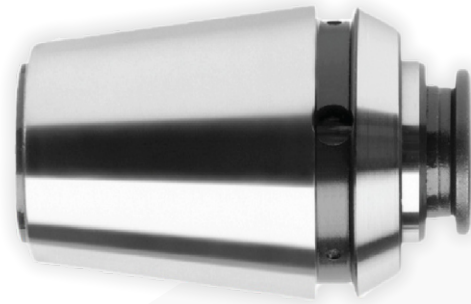


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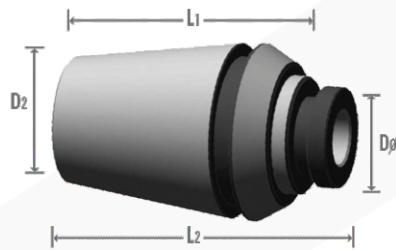


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COLLETS

DIMENSION :



	ER16	ER20	ER25	ER32	ER40
DØ MIN	2.5mm	2.5mm	2.5mm	3.5mm	3.5mm
DØ MAX	4.5mm	6.0mm	9.0mm	12.0mm	14.0mm
D2	17.0mm	21.0mm	26.0mm	33.0mm	41.0mm
L1	30.0mm	23.0mm	37.0mm	42.0mm	50.0mm
L2	34.0mm	27.0mm	43.0mm	48.0mm	56.0mm

FEATURES :

- Quick-Change Taps
- Locking feature prevent spinning the tap
- Reduced clearance requirements
- Replaces expensive tap holders

ER QUICK CHANGE TAP COLLETS

ANSI STANDARD TAPS

TAP SIZE	SHANK SIZE	SQUARE SIZE	ER11	ER16	ER20	ER25	ER32	ER40
#0-6	0.141	0.110	250001QC	250006QC	250012QC	250023QC	250037QC	250054QC
#8	0.168	0.131	250002QC	250007QC	250013QC	250024QC	250038QC	250055QC
#10	0.194	0.152	250003QC	250008QC	250014QC	250025QC	250039QC	250056QC
#12	0.220	0.165	250004QC	250009QC	250015QC	250026QC	250040QC	250057QC
1/4	0.255	0.191	250005QC	250010QC	250016QC	250027QC	250041QC	250058QC
5/16	0.318	0.238		250011QC	250017QC	250028QC	250042QC	250059QC
7/16	0.323	0.242			250019QC	250030QC	250044QC	250061QC
1/2	0.367	0.275			250020QC	250031QC	250045QC	250062QC
3/8	0.381	0.286			250018QC	250029QC	250043QC	250060QC
9/16	0.429	0.322				250032QC	250046QC	250063QC
5/8	0.480	0.360				250033QC	250047QC	250064QC
11/16	0.542	0.406					250048QC	250065QC
3/4	0.590	0.442					250049QC	250066QC
13/16	0.652	0.489						250067QC
7/8	0.697	0.523						250068QC
15/16	0.760	0.570						250069QC
1"	0.800	0.600						250070QC
1/16-P	0.3125	0.234			250021QC	250034QC	250050QC	250071QC
1/8s-P	0.3125	0.234			250022QC	250035QC	250051QC	250072QC
1/8-P	0.4375	0.328				250036QC	250052QC	250073QC
1/4-P	0.5625	0.421					250053QC	250074QC
1/2-P	0.6875	0.515						250076QC
3/8-P	0.7000	0.531						250075QC

DIN, ISO & JIS STANDARD TAPS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
2.8	2.1	240091AQC	240107AQC			
3.0	2.5	240091QC	240107QC	240130QC	240157QC	240189QC
3.15	2.5	240092QC	240108QC	240131QC	240158QC	240190QC
3.5	2.7	240093QC	240109QC	240132QC	240159QC	240191QC
3.55	2.8	240094QC	240110QC	240133QC	240160QC	240192QC
4.0	3.0	240095QC	240111QC	240134QC	240161QC	240193QC
4.0	3.2	240096QC	240112QC	240135QC	240162QC	240194QC
4.5	3.4	240097QC	240113QC	240136QC	240163QC	240195QC
5.0	4.0	240098QC	240114QC	240137QC	240164QC	240196QC
5.5	4.3	240099QC	240115QC	240138QC	240165QC	240197QC
5.6	4.5	240100QC	240116QC	240139QC	240166QC	240198QC
6.0	4.5	240101QC	240117QC	240140QC	240167QC	240199QC

ER QUICK CHANGE TAP COLLETS

SHANK SIZE	SQUARE SIZE	ER16	ER20	ER25	ER32	ER40
6.0	4.9	240102QC	240118QC	240141QC	240168QC	240200QC
6.3	5.0	240103QC	240119QC	240142QC	240169QC	240201QC
7.0	5.0	240104QC	240120QC	240143QC	240170QC	240202QC
7.0	5.5	240105QC	240121QC	240144QC	240171QC	240203QC
7.1	5.6	240106QC	240122QC	240145QC	240172QC	240204QC
8.0	6.0		240123QC	240146QC	240173QC	240205QC
8.0	6.2		240124QC	240147QC	240174QC	240206QC
8.0	6.3		240125QC	240148QC	240175QC	240207QC
8.5	6.5		240126QC	240149QC	240176QC	240208QC
9.0	7.0		240127QC	240150QC	240177QC	240209QC
10.0	8.0		240128QC	240151QC	240178QC	240210QC
10.5	8.0		240129QC	240152QC	240179QC	240211QC
11.0	9.0			240153QC	240180QC	240212QC
11.2	9.0			240154QC	240181QC	240213QC
12.0	9.0			240155QC	240182QC	240214QC
12.5	10.0			240156QC	240183QC	240215QC
14.0	11.0				240184QC	240216QC
14.0	11.2				240185QC	240217QC
15.0	12.0				240186QC	240218QC
16.0	12.0				240187QC	240219QC
16.0	12.5				240188QC	240220QC
17.0	13.0					240221QC
18.0	14.5					240222QC
18.0	14.0					240223QC
19.0	15.0					240224QC
20.0	16.0					240225QC
20.0	15.0					240226QC
22.0	18.0					240227QC
22.4	18.0					240228QC
25.0	20.0					240229QC
28.0	22.0					240230QC
28.0	22.4					240231QC
31.5	25.0					240232QC
32.0	24.0					240233QC
36.0	29.0					240234QC

DNA (DEAD NUTS ACCURATE) OR RTX COLLETS

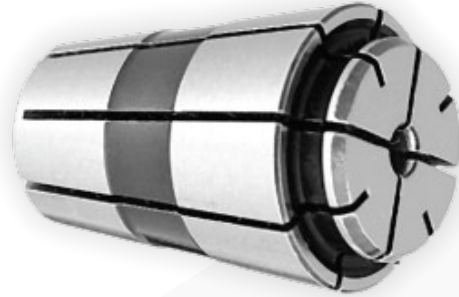


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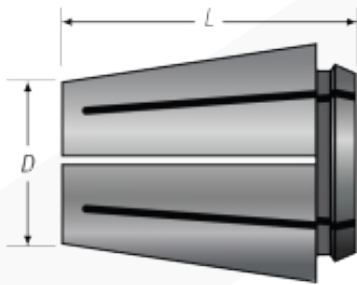
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DIMENSION :



COLLET	D	L
DNA 11	.673	.460
DNA 16	.945	.654
DNA 20	1.201	.815
DNA 25	1.339	1.010
DNA 32	1.571	1.301
DNA 40	1.776	1.617

FEATURES :

- DNA/RTx collets have a much shorter projection outside of the collet pocket
- More rigid hold for small diameter tools and repeatable accuracy
- Longer tool-life and superior tool performance!
- DNA/RTx collets work in standard ER collet chucks – only a collet and nut required
- METRIC & INCH sizes
- Only nominal size can be clamped

DNA (DEAD NUTS ACCURATE) OR RTX COLLETS

Inch Size	MM Size	Decimal Size (Inch)	ER8	ER11	ER16	ER20	ER25	ER32	ER40
	3.0	0.118	210001DNA	210011DNA	210030DNA	210063DNA	210110DNA	210171DNA	210253DNA
1/8		0.125	210002DNA	210012DNA	210031DNA	210064DNA	210111DNA	210172DNA	210254DNA
5/32		0.156	210005DNA	210015DNA	210034DNA	210067DNA	210114DNA	210175DNA	210257DNA
	4.0	0.157	210006DNA	210016DNA	210035DNA	210068DNA	210115DNA	210176DNA	210258DNA
3/16		0.188	210009DNA	210019DNA	210038DNA	210071DNA	210118DNA	210179DNA	210261DNA
	5.0	0.197	210010DNA	210020DNA	210039DNA	210072DNA	210119DNA	210180DNA	210262DNA
7/32		0.219		210023DNA	210042DNA	210075DNA	210122DNA	210183DNA	210265DNA
	6.0	0.236		210025DNA	210044DNA	210077DNA	210124DNA	210185DNA	210267DNA
1/4		0.250		210026DNA	210045DNA	210078DNA	210125DNA	210186DNA	210268DNA
	7.0	0.276		210029DNA	210048DNA	210081DNA	210128DNA	210189DNA	210271DNA
9/32		0.281			210049DNA	210082DNA	210129DNA	210190DNA	210272DNA
5/16		0.313			210052DNA	210085DNA	210132DNA	210193DNA	210275DNA
	8.0	0.315			210053DNA	210086DNA	210133DNA	210194DNA	210276DNA
11/32		0.344			210056DNA	210089DNA	210136DNA	210197DNA	210279DNA
	9.0	0.354			210057DNA	210090DNA	210137DNA	210198DNA	210280DNA
3/8		0.375			210060DNA	210093DNA	210140DNA	210201DNA	210283DNA
	10.0	0.394			210062DNA	210095DNA	210142DNA	210203DNA	210285DNA
13/32		0.406				210096DNA	210143DNA	210204DNA	210286DNA
	11.0	0.433				210099DNA	210146DNA	210207DNA	210289DNA
7/16		0.438				210100DNA	210147DNA	210208DNA	210290DNA
15/32		0.469				210104DNA	210151DNA	210212DNA	210294DNA
	12.0	0.472				210105DNA	210152DNA	210213DNA	210295DNA
1/2		0.500				210108DNA	210155DNA	210216DNA	210298DNA
	13.0	0.512				210109DNA	210156DNA	210217DNA	210299DNA
17/32		0.531					210158DNA	210219DNA	210301DNA
	14.0	0.551					210161DNA	210222DNA	210304DNA
9/16		0.563					210162DNA	210223DNA	210305DNA
	15.0	0.591					210165DNA	210226DNA	210308DNA
19/32		0.594					210166DNA	210227DNA	210309DNA
5/8		0.625					210169DNA	210230DNA	210312DNA
	16.0	0.630					210170DNA	210231DNA	210313DNA
21/32		0.656						210234DNA	210316DNA
	17.0	0.669						210235DNA	210317DNA
11/16		0.688						210237DNA	210319DNA
	18.0	0.709						210240DNA	210322DNA
23/32		0.719						210241DNA	210323DNA
	19.0	0.748						210244DNA	210326DNA
3/4		0.750						210245DNA	210327DNA
25/32		0.781						210248DNA	210330DNA
	20.0	0.787						210249DNA	210331DNA
13/16		0.813						210252DNA	210334DNA
	21.0	0.827							210335DNA
27/32		0.844							210337DNA

DNA (DEAD NUTS ACCURATE) OR RTX COLLETS

Inch Size	MM Size	Decimal Size (Inch)	ER8	ER11	ER16	ER20	ER25	ER32	ER40
7/8	22.0	0.866							210340DNA
		0.875							210341DNA
29/32	23.0	0.906							210344DNA
		0.906							210345DNA
15/16	24.0	0.938							210348DNA
31/32		0.945							210349DNA
1	25.0	0.969							210352DNA
		0.984							210353DNA
1	26.0	1.000							210355DNA
									210357DNA

SK COLLETS (SUPER COLLETS)



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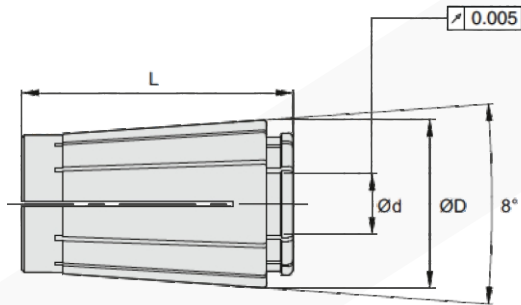
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DIMENSIONS :



SK COLLET SERIES	D	L
SK6	11mm	25mm
SK10	16mm	30mm
SK13	20mm	39mm
SK16	25mm	45mm
SK20	30mm	50mm
SK25	36mm	57mm

FEATURES :

- Higher accuracy and rigidity compare to other collets
- Applicable for all milling, drilling, reaming and rigid tapping applications
- Covers sizes from .027" to 1"
- Covers sizes from 1mm to 25mm
- Inch & Metric sizes available
- Accuracy - 5 micron or 0.00019"

SK COLLETS (SUPER COLLETS)

Inch Size	MM Size	Decimal Size (Inch)	SK6	SK10	SK13	SK16	SK20	SK25
3/32	2.0	0.079	280001	280015				
		0.094	280002	280016				
1/8	2.5	0.098	280003	280017				
		0.118	280004	280018	280042	280077	280122	280182
		0.125	280005	280019	280043	280078	280123	280183
5/32	3.0	0.138	280006	280020	280044	280079	280124	280184
		0.156	280007	280021	280045	280080	280125	280185
3/16	4.0	0.157	280008	280022	280046	280081	280126	280186
		0.177	280009	280023	280047	280082	280127	280187
		0.188	280010	280024	280048	280083	280128	280188
7/32	5.0	0.197	280011	280025	280049	280084	280129	280189
		0.217	280012	280026	280050	280085	280130	280190
		0.219	280013	280027	280051	280086	280131	280191
1/4	6.0	0.236	280014	280028	280052	280087	280132	280192
		0.250		280029	280053	280088	280133	280193
9/32	6.5	0.256		280030	280054	280089	280134	280194
		0.276		280031	280055	280090	280135	280195
		0.281		280032	280056	280091	280136	280196
5/16	7.0	0.295		280033	280057	280092	280137	280197
		0.313		280034	280058	280093	280138	280198
11/32	8.0	0.315		280035	280059	280094	280139	280199
		0.335		280036	280060	280095	280140	280200
		0.344		280037	280061	280096	280141	280201
3/8	8.5	0.354		280038	280062	280097	280142	280202
		0.374		280039	280063	280098	280143	280203
		0.375		280040	280064	280099	280144	280204
13/32	10.0	0.394		280041	280065	280100	280145	280205
		0.406			280066	280101	280146	280206
7/16	10.5	0.413			280067	280102	280147	280207
		0.433			280068	280103	280148	280208
		0.438			280069	280104	280149	280209
15/32	11.0	0.453			280070	280105	280150	280210
		0.469			280071	280107	280152	280212
1/2	11.5	0.472			280072	280108	280153	280213
		0.492			280073	280109	280154	280214
		0.500			280074	280110	280155	280215
17/32	12.0	0.512			280075	280111	280156	280216
		0.531			280076	280112	280157	280217
9/16	12.5	0.531				280113	280158	280218
		0.551				280114	280159	280219
		0.563				280115	280160	280220
	14.0	0.571				280116	280161	280221
		0.591				280117	280162	280222

SK COLLETS (SUPER COLLETS)

Inch Size	MM Size	Decimal Size (Inch)	SK6	SK10	SK13	SK16	SK20	SK25
19/32		0.594				280118	280163	280223
	15.5	0.610				280119	280164	280224
5/8		0.625				280120	280165	280225
	16.0	0.630				280121	280166	280226
	16.5	0.650					280167	280227
21/32		0.656					280168	280228
	17.0	0.669					280169	280229
11/16		0.688					280170	280230
	17.5	0.689					280171	280231
	18.0	0.709					280172	280232
23/32		0.719					280173	280233
	18.5	0.728					280174	280234
	19.0	0.748					280175	280235
3/4		0.750					280176	280236
	19.5	0.768					280177	280237
25/32		0.781					280178	280238
	20.0	0.787					280179	280239
	20.5	0.807					280180	280240
13/16		0.813					280181	280241
	21.0	0.827						280242
27/32		0.844						280243
	21.5	0.846						280244
	22.0	0.866						280245
7/8		0.875						280246
	22.5	0.886						280247
	23.0	0.906						280248
29/32		0.906						280249
	23.5	0.925						280250
15/16		0.938						280251
	24.0	0.945						280252
	24.5	0.965						280253
31/32		0.969						280254
	25.0	0.984						280255

SK COLLET SETS



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TYPE	SIZE	DESCRIPTION	NO. OF COLLETS IN SET	PART NUMBER
SK6	Metric	SK6 9 pcs metric Set - 2mm to 6mm x 0.5mm	9	28000SK6M
	Inch	SK6 5 pcs Inch Set - 3/32" to 7/32" x 1/32"	5	28000SK6I
SK10	Metric	SK10 9 pcs metric Set - 2mm to 10mm x 1mm	9	28000SK10M
	Inch	SK10 10 pcs Inch set - 3/32" to 3/8" x 1/32"	10	28000SK10I
SK13	Metric	SK13 11 pcs metric Set - 3mm to 13mm x 1mm	11	28000SK13M
	Inch	SK13 13 pcs Inch Set - 1/8" to 1/2" x 1/32"	13	28000SK13I
SK16	Metric	SK16 14 pcs metric Set - 3mm to 16mm x 1mm	14	28000SK16M
	Inch	SK16 17 pcs Inch Set - 1/8" to 5/8" x 1/32"	17	28000SK16I
SK20	Metric	SK20 18 pcs metric Set - 3mm to 20mm x 1mm	18	28000SK20M
	Inch	SK20 23 pcs Inch Set - 1/8" to 13/16" x 1/32"	23	28000SK20I
SK25	Metric	SK25 23 pcs metric Set - 3mm to 25mm x 1mm	23	28000SK25M
	Inch	SK25 28 pcs Inch Set - 1/8" to 31/32" x 1/32"	28	28000SK25I

DA COLLETS



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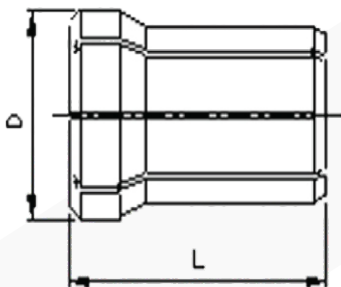
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DIMENSIONS :



DA COLLET DIMENSION	DA 100	DA 180	DA 200	DA 300
D	0.769"	1.035"	0.532"	0.375"
L	1.44"	1.64"	1.19"	1.004"
BORE RANGE	3/64-9/16	1.64"	1/16-3/8	1/32-1/4
ACCURACY		0.0005" T.I.R. (at nose)		

FEATURES :

- Double-Angled Collets
- DA300, DA200, DA100, DA180 & DA400 SERIES
- Suitable for Drilling & Reaming application

DA COLLETS

Inch Size	MM Size	Decimal Size (Inch)	DA-100 418E	DA-180 419E	DA-200 417E	DA-300 416E	DA-400 465E
	1.0	0.039			255145	255187	
3/64		0.047	255001	255061	255146	255188	
	1.5	0.059	255002	255062	255147	255189	
1/16		0.063	255048	255108	255148	255190	
5/64		0.078	255003	255063	255149	255191	
	2.0	0.079	255004	255064	255150	255192	
3/32		0.094	255005	255065	255151	255193	
	2.5	0.098	255006	255066	255152	255194	
7/64		0.109	255007	255067	255153	255195	
	3.0	0.118	255008	255068	255154	255196	
1/8		0.125	255009	255069	255155	255197	
	3.5	0.138	255010	255070	255156	255198	
9/64		0.141	255011	255071	255157	255199	
5/32		0.156	255012	255072	255158	255200	
	4.0	0.157	255013	255073	255159	255201	
11/64		0.172	255014	255074	255160	255202	
	4.5	0.177	255015	255075	255161	255203	
3/16		0.188	255016	255076	255162	255204	
	5.0	0.197	255017	255077	255163	255205	
13/64		0.203	255018	255078	255164	255206	
	5.5	0.217	255019	255079	255165	255207	
7/32		0.219	255020	255080	255166	255208	
15/64		0.234	255021	255081	255167	255209	
	6.0	0.236	255022	255082	255168	255210	255213
1/4		0.250	255023	255083	255169	255211	255214
	6.5	0.256	255024	255084	255170	255212	255215
17/64		0.266	255025	255085	255171		255216
	7.0	0.276	255026	255086	255172		255217
9/32		0.281	255027	255087	255173		255218
	7.5	0.295	255028	255088	255174		255219
19/64		0.297	255029	255089	255175		255220
5/16		0.313	255030	255090	255176		255221
	8.0	0.315	255031	255091	255177		255222
21/64		0.328	255032	255092	255178		255223
	8.5	0.335	255033	255093	255179		255224
11/32		0.344	255034	255094	255180		255225
	9.0	0.354	255035	255095	255181		255226
23/64		0.359	255036	255096	255182		255227
	9.5	0.374	255037	255097	255183		255228
3/8		0.375	255038	255098	255184		255229
25/64		0.391	255039	255099	255185		255230
	10.0	0.394	255040	255100	255186		255231
13/32		0.406	255041	255101			255232

DA COLLETS

Inch Size	MM Size	Decimal Size (Inch)	DA-100 418E	DA-180 419E	DA-200 417E	DA-300 416E	DA-400 465E
	10.5	0.413	255042	255102			255233
27/64		0.422	255043	255103			255234
	11.0	0.433	255044	255104			255235
7/16		0.438	255045	255105			255236
	11.5	0.453	255046	255106			255237
29/64		0.453	255047	255107			255238
15/32		0.469	255049	255109			255240
	12.0	0.472	255050	255110			255241
31/64		0.484	255051	255111			255242
	12.5	0.492	255052	255112			255243
1/2		0.500	255053	255113			255244
	13.0	0.512	255054	255114			255245
33/64		0.516	255055	255115			255246
17/32		0.531	255056	255116			255247
	13.5	0.531	255057	255117			255248
35/64		0.547	255058	255118			255249
	14.0	0.551	255059	255119			255250
9/16		0.563	255060	255120			255251
	14.5	0.571		255121			255252
37/64		0.578		255122			255253
	15.0	0.591		255123			255254
19/32		0.594		255124			255255
39/64		0.609		255125			255256
	15.5	0.610		255126			255257
5/8		0.625		255127			255258
	16.0	0.630		255128			255259
41/64		0.641		255129			255260
	16.5	0.650		255130			255261
21/32		0.656		255131			255262
	17.0	0.669		255132			255263
43/64		0.672		255133			255264
11/16		0.688		255134			255265
	17.5	0.689		255135			255266
45/64		0.703		255136			255267
	18.0	0.709		255137			255268
23/32		0.719		255138			255269
	18.5	0.728		255139			255270
47/64		0.734		255140			255271
	19.0	0.748		255141			255272
3/4		0.750		255143			255273
49/64		0.766		255143A			
	19.5	0.768		255142			
25/32		0.781		255142A			
	20.0	0.787		255144			

DA SEALED COLLETS



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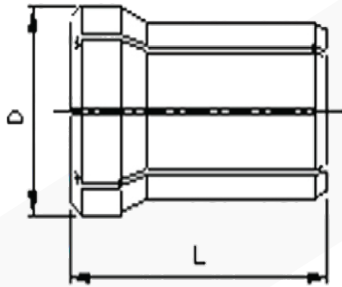
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DIMENSIONS :



DA COLLET DIMENSION	DA 100	DA 180	DA 200	DA 300
D	0.769"	1.035"	0.532"	0.375"
L	1.44"	1.64"	1.19"	1.004"
BORE RANGE	3/64-9/16	1.64"	1/16-3/8	1/32-1/4
ACCURACY		0.0005" T.I.R. (at nose)		

FEATURES :

- Double-Angled Collets
- DA300, DA200, DA100, DA180 & DA400 SERIES
- Suitable for Drilling & Reaming application

DA SEALED COLLETS

Inch Size	MM Size	Decimal Size (Inch)	DA-100 418E	DA-180 419E	DA-200 417E	DA-300 416E	DA-400 465E
3/64		0.047	260001	260069	260143	260183	
	1.5	0.059	260002	260070	260144	260184	
1/16		0.063	260003	260071	260144A	260184A	
5/64		0.078	260004	260072	260145	260185	
	2.0	0.079	260005	260073	260146	260186	
3/32		0.094	260006	260074	260147	260187	
	2.5	0.098	260007	260075	260148	260188	
7/64		0.109	260008	260076	260149	260189	
	3.0	0.118	260009	260077	260150	260190	
1/8		0.125	260010	260078	260151	260191	
	3.5	0.138	260011	260079	260152	260192	
9/64		0.141	260012	260080	260153	260193	
5/32		0.156	260013	260081	260154	260194	
	4.0	0.157	260014	260082	260155	260195	
11/64		0.172	260015	260083	260156	260196	
	4.5	0.177	260016	260084	260157	260197	
3/16		0.188	260017	260085	260158	260198	
	5.0	0.197	260018	260086	260159	260199	
13/64		0.203	260019	260087	260160	260200	
	5.5	0.217	260020	260088	260161	260201	
7/32		0.219	260021	260089	260162	260202	
15/64		0.234	260022	260090	260163	260203	
	6.0	0.236	260023	260091	260164	260204	255213C
1/4		0.250	260024	260092	260165	260205	255214C
	6.5	0.256	260025	260093	260166		255215C
17/64		0.266	260026	260094	260167		255216C
	7.0	0.276	260027	260095	260168		255217C
9/32		0.281	260028	260096	260169		255218C
	7.5	0.295	260029	260097	260170		255219C
19/64		0.297	260030	260098	260171		255220C
5/16		0.313	260031	260099	260172		255221C
	8.0	0.315	260032	260100	260173		255222C
21/64		0.328	260033	260101	260174		255223C
	8.5	0.335	260034	260102	260175		255224C
11/32		0.344	260035		260176		255225C
	9.0	0.354	260036		260177		255226C
23/64		0.359	260037		260178		255227C
	9.5	0.374	260038		260179		255228C
3/8		0.375	260039		260180		255229C
25/64		0.391	260040		260181		255230C
	10.0	0.394	260041		260182		255231C
13/32		0.406	260042				255232C
	10.5	0.413	260043				255233C

DA SEALED COLLETS

Inch Size	MM Size	Decimal Size (Inch)	DA-100 418E	DA-180 419E	DA-200 417E	DA-300 416E	DA-400 465E
27/64		0.422	260044	260103			255234C
	11.0	0.433	260045	260104			255235C
7/16		0.438	260046	260105			255236C
	11.5	0.453	260047	260106			255237C
29/64		0.453	260048	260107			255238C
15/32		0.469	260049	260109			255240C
	12.0	0.472	260050	260110			255241C
31/64		0.484	260051	260111			255242C
	12.5	0.492	260052	260112			255243C
1/2		0.500	260053	260113			255244C
	13.0	0.512	260054	260114			255245C
33/64		0.516	260055	260115			255246C
17/32		0.531	260056	260116			255247C
	13.5	0.531	260057	260117			255248C
35/64		0.547	260058	260118			255249C
	14.0	0.551	260059	260119			255250C
9/16		0.563	260060	260120			255251C
	14.5	0.571		260121			255252C
37/64		0.578		260122			255253C
	15.0	0.591		260123			255254C
19/32		0.594		260124			255255C
39/64		0.609		260125			255256C
	15.5	0.610		260126			255257C
5/8		0.625		260127			255258C
	16.0	0.630		260128			255259C
41/64		0.641		260129			255260C
	16.5	0.650		260130			255261C
21/32		0.656		260131			255262C
	17.0	0.669		260132			255263C
43/64		0.672		260133			255264C
11/16		0.688		260134			255265C
	17.5	0.689		260135			255266C
45/64		0.703		260136			255267C
	18.0	0.709		260137			255268C
23/32		0.719		260138			255269C
	18.5	0.728		260139			255270C
47/64		0.734		260140			255271C
	19.0	0.748		260141			255272C
3/4		0.750		260142			255273C

DA COLLET SETS



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E-COMMERCE
WEB PAGE



COLLETS

TYPE	DESCRIPTION	NO. OF COLLETS IN SET	PART NUMBER
DA100	DA100-SET15-INCH DA100 15 pcs Inch Set - 1/8" to 9/16" x 1/32"	15	290001
	DA100-SET21-INCH DA100 21 pcs Inch Set - 1/4" to 9/16" x 1/64"	21	290002
	DA100-SET29-INCH DA100 29 pcs Inch Set - 1/8" to 9/16" x 1/64"	29	290003
	DA100-SET33-INCH DA100 33 pcs Inch Set - 1/16" to 9/16" x 1/64"	33	290004
	DA100-SET8-INCH DA100 15 pcs Inch Set - 1/8" to 9/16" x 1/16"	15	290005
DA180	DA180-SET17-INCH DA180 17 pcs Inch Set - 1/4" to 3/4" x 1/32"	17	290006
	DA180-SET21-INCH DA180 21 pcs Inch Set - 1/8" to 3/4" x 1/32"	21	290007
	DA180-SET33-INCH DA180 33 pcs Inch Set - 1/4" to 3/4" x 1/64"	33	290008
	DA180-SET41-INCH DA180 41 pcs Inch Set - 1/8" to 3/4" x 1/64"	41	290009
	DA180-SET9-INCH DA180 9 pcs Inch Set - 1/4" to 3/4" x 1/16"	9	290010
DA200	DA200-SET17-INCH DA200 17 pcs Inch Set - 1/8" to 3/8" x 1/64"	17	290011
	DA200-SET21-INCH DA200 21 pcs Inch Set - 1/16" to 3/8" x 1/64"	21	290012
	DA200-SET9-INCH DA200 9 pcs Inch Set - 1/8" to 3/8" x 1/32"	9	290013
DA300	DA300-SET14-INCH DA300 14 pcs Inch Set - 3/64" to 1/4" x 1/64"	14	290014
	DA300-SET7-INCH DA300 7 pcs Inch Set - 1/16" to 1/4" x 1/32"	7	290015
	DA300-SET9-INCH DA300 9 pcs Inch Set - 1/8" to 1/4" x 1/64"	9	290016
DA100 Sealed	DAC100-SET15-INCH DAC100 15 pcs Inch Set - 1/8" to 9/16" x 1/32"	15	290001C
	DAC100-SET21-INCH DAC100 21 pcs Inch Set - 1/4" to 9/16" x 1/64"	21	290002C
	DAC100-SET29-INCH DAC100 29 pcs Inch Set - 1/8" to 9/16" x 1/64"	29	290003C
	DAC100-SET33-INCH DAC100 33 pcs Inch Set - 1/16" to 9/16" x 1/64"	33	290004C
	DAC100-SET8-INCH DAC100 15 pcs Inch Set - 1/8" to 9/16" x 1/16"	15	290005C
DA180 Sealed	DAC180-SET17-INCH DAC180 17 pcs Inch Set - 1/4" to 3/4" x 1/32"	17	290006C
	DAC180-SET21-INCH DAC180 21 pcs Inch Set - 1/8" to 3/4" x 1/32"	21	290007C
	DAC180-SET33-INCH DAC180 33 pcs Inch Set - 1/4" to 3/4" x 1/64"	33	290008C
	DAC180-SET41-INCH DAC180 41 pcs Inch Set - 1/8" to 3/4" x 1/64"	41	290009C
	DAC180-SET9-INCH DAC180 9 pcs Inch Set - 1/4" to 3/4" x 1/16"	9	290010C
DA200 Sealed	DAC200-SET17-INCH DAC200 17 pcs Inch Set - 1/8" to 3/8" x 1/64"	17	290011C
	DAC200-SET21-INCH DAC200 21 pcs Inch Set - 1/16" to 3/8" x 1/64"	21	290012C
	DAC200-SET9-INCH DAC200 9 pcs Inch Set - 1/8" to 3/8" x 1/32"	9	290013C
DA300 Sealed	DAC300-SET14-INCH DAC300 14 pcs Inch Set - 3/64" to 1/4" x 1/64"	14	290014C
	DAC300-SET7-INCH DAC300 7 pcs Inch Set - 1/16" to 1/4" x 1/32"	7	290015C
	DAC300-SET9-INCH DAC300 9 pcs Inch Set - 1/8" to 1/4" x 1/64"	9	290016C

TG COLLETS



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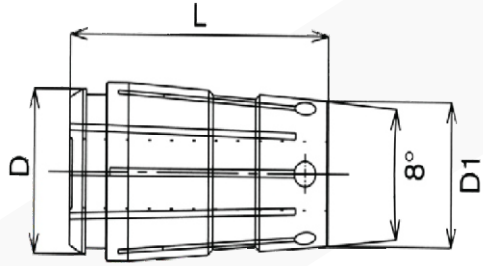
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DIMENSIONS :



DIMENSIONS	TG 75	TG 100	TG 150
L =	1.844"	2.386"	3.000"
D1=	0.871"	1.121"	1.678"
Bore Range	3/64 - 3/4	3/64 - 1"	1/2 - 1-1/2"

FEATURES :

- TG Collets collapse approx. 1/64"
- Ideal choice for high speed and high precision milling and drilling operations
- TG Coolant Collets are designed for use with tooling requiring thru spindle coolant
- Tolerance: 0.0003" at collet nose

TG COLLETS

Inch Size	MM Size	Decimal Size (Inch)	TG75 420E	TG100 464E	TG150 466E
1/8		0.125	270001	270059	270139
9/64		0.141	270002	270060	270140
5/32		0.156	270003	270061	270141
	4.0	0.157	270004	270062	270142
11/64		0.172	270005	270063	270143
3/16		0.188	270006	270064	270144
	5.0	0.197	270007	270065	270145
13/64		0.203	270008	270066	270146
7/32		0.219	270009	270067	270147
15/64		0.234	270010	270068	270148
	6.0	0.236	270011	270069	270149
1/4		0.250	270012	270070	270150
17/64		0.266	270013	270071	270151
	7.0	0.276	270014	270072	270152
9/32		0.281	270015	270073	270153
19/64		0.297	270016	270074	270154
5/16		0.313	270017	270075	270155
	8.0	0.315	270018	270076	270156
21/64		0.328	270019	270077	270157
11/32		0.344	270020	270078	270158
	9.0	0.354	270021	270079	270159
23/64		0.359	270022	270080	270160
3/8		0.375	270023	270081	270161
25/64		0.391	270024	270082	270162
	10.0	0.394	270025	270083	270163
13/32		0.406	270026	270084	270164
27/64		0.422	270027	270085	270165
	11.0	0.433	270028	270086	270166
7/16		0.438	270029	270087	270167
29/64		0.453	270030	270088	270168
15/32		0.469	270032	270090	270170
	12.0	0.472	270033	270091	270171
31/64		0.484	270034	270092	270172
1/2		0.500	270035	270093	270173
	13.0	0.512	270036	270094	270174
33/64		0.516	270037	270095	270175
17/32		0.531	270038	270096	270176
35/64		0.547	270039	270097	270177
	14.0	0.551	270040	270098	270178
9/16		0.563	270041	270099	270179
37/64		0.578	270042	270100	270180
	15.0	0.591	270043	270101	270181
19/32		0.594	270044	270102	270182

TG COLLETS

Inch Size	MM Size	Decimal Size (Inch)	TG75 420E	TG100 464E	TG150 466E
39/64		0.609	270045	270103	270183
5/8		0.625	270046	270104	270184
	16.0	0.630	270047	270105	270185
41/64		0.641	270048	270106	270186
21/32		0.656	270049	270107	270187
	17.0	0.669	270050	270108	270188
43/64		0.672	270051	270109	270189
11/16		0.688	270052	270110	270190
45/64		0.703	270053	270111	270191
	18.0	0.709	270054	270112	270192
23/32		0.719	270055	270113	270193
47/64		0.734	270056	270114	270194
	19.0	0.748	270057	270115	270195
3/4		0.750	270058	270116	270196
49/64		0.766		270117	270197
25/32		0.781		270118	270198
	20.0	0.787		270119	270199
51/64		0.797		270120	270200
13/16		0.813		270121	270201
	21.0	0.827		270122	270202
53/64		0.828		270123	270203
27/32		0.844		270124	270204
55/64		0.859		270125	270205
	22.0	0.866		270126	270206
7/8		0.875		270127	270207
57/64		0.891		270128	270208
	23.0	0.906		270129	270209
29/32		0.906		270130	270210
59/64		0.922		270131	270211
15/16		0.938		270132	270212
	24.0	0.945		270133	270213
61/64		0.953		270134	270214
31/32		0.969		270135	270215
	25.0	0.984		270136	270216
63/64		0.984		270137	270217
1		1.000		270138	270218
	26.0	1.024			270219
3/8		1.047			270253
1/16		1.063			270220
	27.0	1.063			270221
5/8		1.078			270255
	28.0	1.102			270222
1/8		1.125			270223

TG COLLETS

Inch Size	MM Size	Decimal Size (Inch)	TG75 420E	TG100 464E	TG150 466E
	29.0	1.142			270224
1 5/32		1.156			270254
1 11/64		1.172			270241
	30.0	1.181			270225
1 3/16		1.188			270226
1 13/64		1.203			270243
1 7/32		1.219			270256
	31.0	1.220			270227
1 1/4		1.250			270228
	32.0	1.260			270229
1 17/64		1.266			270245
1 9/32		1.281			270257
1 19/64		1.297			270246
	33.0	1.299			270230
1 5/16		1.313			270231
1 21/64		1.328			270247
	34.0	1.339			270232
1 11/32		1.344			270240
1 23/64		1.359			270248
1 3/8		1.375			270233
	35.0	1.378			270234
1 25/64		1.391			270249
1 13/32		1.406			270242
	36.0	1.417			270235
1 27/64		1.422			270250
1 7/16		1.438			270236
1 29/64		1.453			270251
	37.0	1.457			270237
1 15/32		1.469			270244
	38.0	1.496			270238
1 1/2		1.500			270239

TG SEALED COLLETS



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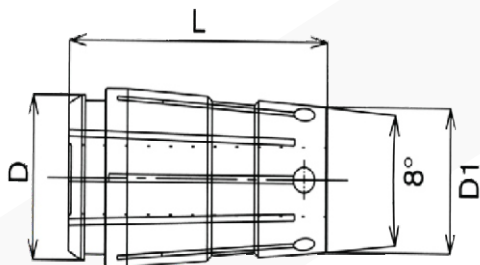
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DIMENSIONS :



DIMENSIONS	TG 75	TG 100	TG 150
L =	1.844"	2.386"	3.000"
D1=	0.871"	1.121"	1.678"
Bore Range	3/64 - 3/4	3/64 - 1"	1/2 - 1-1/2"

FEATURES :

- TG Collets collapse approx. 1/64"
- Ideal choice for high speed and high precision milling and drilling operations
- TG Coolant Collets are designed for use with tooling requiring thru spindle coolant
- Tolerance: 0.0003" at collet nose

TG SEALED COLLETS

Inch Size	MM Size	Decimal Size (Inch)	TG75 420E	TG100 464E	TG150 466E
1/8		0.125	270258	270316	270396
9/64		0.141	270259	270317	270397
5/32		0.156	270260	270318	270398
	4.0	0.157	270261	270319	270399
11/64		0.172	270262	270320	270400
3/16		0.188	270263	270321	270401
	5.0	0.197	270264	270322	270402
13/64		0.203	270265	270323	270403
7/32		0.219	270266	270324	270404
15/64		0.234	270267	270325	270405
	6.0	0.236	270268	270326	270406
1/4		0.250	270269	270327	270407
17/64		0.266	270270	270328	270408
	7.0	0.276	270271	270329	270409
9/32		0.281	270272	270330	270410
19/64		0.297	270273	270331	270411
5/16		0.313	270274	270332	270412
	8.0	0.315	270275	270333	270413
21/64		0.328	270276	270334	270414
11/32		0.344	270277	270335	270415
	9.0	0.354	270278	270336	270416
23/64		0.359	270279	270337	270417
3/8		0.375	270280	270338	270418
25/64		0.391	270281	270339	270419
	10.0	0.394	270282	270340	270420
13/32		0.406	270283	270341	270421
27/64		0.422	270284	270342	270422
	11.0	0.433	270285	270343	270423
7/16		0.438	270286	270344	270424
29/64		0.453	270287	270345	270425
15/32		0.469	270289	270347	270427
	12.0	0.472	270290	270348	270428
31/64		0.484	270291	270349	270429
1/2		0.500	270292	270350	270430
	13.0	0.512	270293	270351	270431
33/64		0.516	270294	270352	270432
17/32		0.531	270295	270353	270433
35/64		0.547	270296	270354	270434
	14.0	0.551	270297	270355	270435
9/16		0.563	270298	270356	270436
37/64		0.578	270299	270357	270437
	15.0	0.591	270300	270358	270438
19/32		0.594	270301	270359	270439

TG SEALED COLLETS

Inch Size	MM Size	Decimal Size (Inch)	TG75 420E	TG100 464E	TG150 466E
39/64		0.609	270302	270360	270440
5/8		0.625	270303	270361	270441
	16.0	0.630	270304	270362	270442
41/64		0.641	270305	270363	270443
21/32		0.656	270306	270364	270444
	17.0	0.669	270307	270365	270445
43/64		0.672	270308	270366	270446
11/16		0.688	270309	270367	270447
45/64		0.703	270310	270368	270448
	18.0	0.709	270311	270369	270449
23/32		0.719	270312	270370	270450
47/64		0.734	270313	270371	270451
	19.0	0.748	270314	270372	270452
3/4		0.750	270315	270373	270453
49/64		0.766		270374	270454
25/32		0.781		270375	270455
	20.0	0.787		270376	270456
51/64		0.797		270377	270457
13/16		0.813		270378	270458
	21.0	0.827		270379	270459
53/64		0.828		270380	270460
27/32		0.844		270381	270461
55/64		0.859		270382	270462
	22.0	0.866		270383	270463
7/8		0.875		270384	270464
57/64		0.891		270385	270465
	23.0	0.906		270386	270466
29/32		0.906		270387	270467
59/64		0.922		270388	270468
15/16		0.938		270389	270469
	24.0	0.945		270390	270470
61/64		0.953		270391	270471
31/32		0.969		270392	270472
	25.0	0.984		270393	270473
63/64		0.984		270394	270474
1		1.000		270395	270475
	26.0	1.024			270476
1 3/64		1.047			270476A
1 1/16		1.063			270476B
	27.0	1.063			270478
1 5/64		1.078			270478A
	28.0	1.102			270479
1 1/8		1.125			270480

TG SEALED COLLETS

Inch Size	MM Size	Decimal Size (Inch)	TG75 420E	TG100 464E	TG150 466E
	29.0	1.142			270481
1 5/32		1.156			270481A
1 11/64		1.172			270481B
	30.0	1.181			270482
1 3/16		1.188			270483
1 13/64		1.203			270483A
1 7/32		1.219			270483B
	31.0	1.220			270484
1 1/4		1.250			270485
	32.0	1.260			270486
1 17/64		1.266			270486A
1 9/32		1.281			270486B
1 19/64		1.297			270486C
	33.0	1.299			270487
1 5/16		1.313			270488
1 21/64		1.328			270488A
	34.0	1.339			270489
1 11/32		1.344			270489A
1 23/64		1.359			270489B
1 3/8		1.375			270490
	35.0	1.378			270491
1 25/64		1.391			270491A
1 13/32		1.406			270491B
	36.0	1.417			270492
1 27/64		1.422			270492A
1 7/16		1.438			270493
1 29/64		1.453			270493A
	37.0	1.457			270494
1 15/32		1.469			270494A
	38.0	1.496			270495
1 1/2		1.500			270496

TG TAP COLLETS

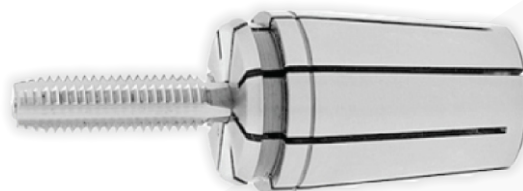


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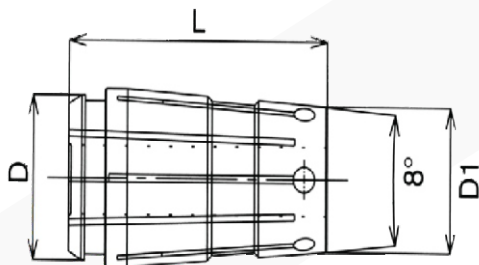
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DIMENSIONS :



DIMENSIONS	TG 75	TG 100	TG 150
L =	1.844"	2.386"	3.000"
D1=	0.871"	1.121"	1.678"
Bore Range	3/64 - 3/4	3/64 - 1"	1/2 - 1-1/2"

FEATURES :

- For synchronous tapping operation using Standard TG Collet Chuck
- Collet bore is exactly to the Tap shank diameter with square drive for accuracy and rigidity.

ANSI STANDARD TAPS

Tap Size	Shank Size	Square Size	TG75	TG100	TG150
#0-6	0.141	0.110	270497	270512	
#8	0.168	0.131	270497A	270513	
#10	0.194	0.152	270498	270514	
#12	0.220	0.165	270498A	270515	
1/4	0.255	0.191	270499	270516	270534
5/16	0.318	0.238	270500	270517	270535
3/8	0.381	0.286	270501	270518	270536
7/16	0.323	0.242	270502	270519	270537
1/2	0.367	0.275	270503	270520	270538
9/16	0.429	0.322	270504	270521	270539
5/8	0.480	0.360	270505	270522	270540
11/16	0.542	0.406	270506	270523	270541
3/4	0.590	0.442	270507	270524	270542
13/16	0.652	0.489	270508	270525	270543
1/2-P	0.687	0.515	270508A	270526	
7/8	0.697	0.523	270509	270527	270544
3/8-P	0.700	0.531	270509A	270528	
15/16	0.760	0.570	270510	270529	270545
1"	0.800	0.600	270511	270530	270546
1/8s-P	0.3125	0.234	270511A	270531	
1/8-P	0.4375	0.328	270511B	270532	
1/4-P	0.5625	0.421	270511C	270533	

TG COLLET SETS



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TYPE	DESCRIPTION	NO. OF COLLETS IN SET	PART NUMBER
TG100	TG100 15 pcs Inch Set - 1/8" to 1" x 1/16"	15	290068
	TG100 21 pcs Inch Set - 3/8" to 1" x 1/32"	21	290069
	TG100 23 pc. Metric Collet Set - 3-25mm	23	290070
	TG100 30 pcs Inch Set - 3/32" to 1" x 1/32"	30	290071
	TG100 41 pcs Inch Set - 3/8" to 1" x 1/64"	41	290072
	TG100 59 pcs Inch Set - 3/32" to 1" x 1/64"	59	290073
TG150	TG150 Collet Set 17 pcs - 1/2" to 1-1/2" x 1/16"	17	290074
	TG150 Collet Set 33 pcs - 1/2" to 1-1/2" x 1/32"	33	290075
TG75	TG75 Collet Set - 11 pcs 1/8" to 3/4" x 1/16"	11	290076
	TG75 Collet Set - 22 pcs 1/8" to 3/4" x 1/32"	22	290077
	TG75 Collet Set - 43 pcs 1/8" to 3/4" x 1/64"	43	290078
TG100 SEALED	TG100 Sealed Collet Set 25 pcs - 1/4" to 1" x 1/64"	25	290079
	TG100 Sealed Collet Set 25 pcs - 1/8" to 1" x 1/64"	57	290080

AF COLLETS

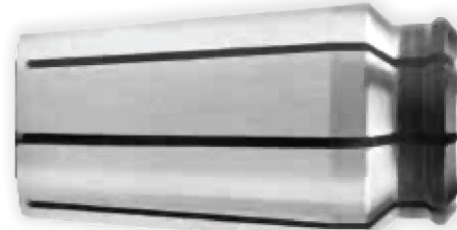


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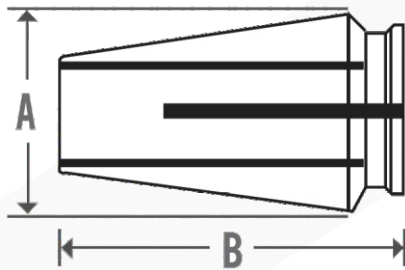


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COLLETS

DIMENSIONS :



TYPE	A	B
AF 25	0.457	1.000
AF 38	0.581	1.030
AF 50	0.741	1.160
AF 75	1.141	2.020
AF 100	1.462	2.500

FEATURES :

- 50% more gripping power than any other single taper collet available
- 1/64" collapse Extended clamping range- .02" - .04"
- Collet sizes .172 thru 2.000 are guaranteed to .0005 T.I.R. at 2 times the tool diameter, or a maximum one inch from the face of the collet
- Collet sizes .062 thru .172 are guaranteed .0010 T.I.R. at the nose

AF COLLETS

Inch Size	MM Size	Decimal Size (Inch)	AF-25	AF-38	AF-50	AF-75	AF-100
3/64	1.0	0.039	AF1101				
		0.047	AF1102				
5/64	1.5	0.059	AF1103	AF1126			
		0.078	AF1104	AF1127			
3/32	2.0	0.079	AF1105	AF1128			
		0.094	AF1106	AF1129			
7/64	2.5	0.098	AF1107	AF1130			
		0.109	AF1108	AF1131	AF1163	AF1210	
1/8	3.0	0.118	AF1109	AF1132	AF1164	AF1211	
		0.125	AF1110	AF1133	AF1165	AF1212	
9/64	3.5	0.138	AF1111	AF1134	AF1166	AF1213	
		0.141	AF1112	AF1135	AF1167	AF1214	
5/32	4.0	0.156	AF1113	AF1136	AF1168	AF1215	
		0.157	AF1114	AF1137	AF1169	AF1216	
11/64	4.5	0.172	AF1115	AF1138	AF1170	AF1217	
		0.177	AF1116	AF1139	AF1171	AF1218	
3/16	5.0	0.188	AF1117	AF1140	AF1172	AF1219	
		0.197	AF1118	AF1141	AF1173	AF1220	AF1290
13/64	5.5	0.203	AF1119	AF1142	AF1174	AF1221	AF1291
		0.217	AF1120	AF1143	AF1175	AF1222	AF1292
7/32	6.0	0.219	AF1121	AF1144	AF1176	AF1223	AF1293
		0.234	AF1122	AF1145	AF1177	AF1224	AF1294
15/64	6.5	0.236	AF1123	AF1146	AF1178	AF1225	AF1295
		0.250	AF1124	AF1147	AF1179	AF1226	AF1296
1/4	7.0	0.256	AF1125	AF1148	AF1180	AF1227	AF1297
		0.266		AF1149	AF1181	AF1228	AF1298
17/64	7.5	0.276		AF1150	AF1182	AF1229	AF1299
		0.281		AF1151	AF1183	AF1230	AF1300
9/32	8.0	0.295		AF1152	AF1184	AF1231	AF1301
		0.297		AF1153	AF1185	AF1232	AF1302
19/64	8.5	0.313		AF1154	AF1186	AF1233	AF1303
		0.315		AF1155	AF1187	AF1234	AF1304
5/16	9.0	0.328		AF1156	AF1188	AF1235	AF1305
		0.335		AF1157	AF1189	AF1236	AF1306
21/64	9.5	0.344		AF1158	AF1190	AF1237	AF1307
		0.354		AF1159	AF1191	AF1238	AF1308
11/32	10.0	0.359		AF1160	AF1192	AF1239	AF1309
		0.374		AF1161	AF1193	AF1240	AF1310
3/8	10.5	0.375		AF1162	AF1194	AF1241	AF1311
		0.391			AF1195	AF1242	AF1312
25/64	11.0	0.394			AF1196	AF1243	AF1313
		0.406			AF1197	AF1244	AF1314
13/32	11.5	0.413			AF1198	AF1245	AF1315

AF COLLETS

Inch Size	MM Size	Decimal Size (Inch)	AF-25	AF-38	AF-50	AF-75	AF-100
27/64		0.422			AF1199	AF1246	AF1316
	11.0	0.433			AF1200	AF1247	AF1317
7/16		0.438			AF1201	AF1248	AF1318
	11.5	0.453			AF1202	AF1249	AF1319
29/64		0.453			AF1203	AF1250	AF1320
1/16		0.063			AF1204	AF1251	AF1321
15/32		0.469			AF1205	AF1252	AF1322
	12.0	0.472			AF1206	AF1253	AF1323
31/64		0.484			AF1207	AF1254	AF1324
	12.5	0.492			AF1208	AF1255	AF1325
1/2		0.500			AF1209	AF1256	AF1326
	13.0	0.512				AF1257	AF1327
33/64		0.516				AF1258	AF1328
17/32		0.531				AF1259	AF1329
	13.5	0.531				AF1260	AF1330
35/64		0.547				AF1261	AF1331
	14.0	0.551				AF1262	AF1332
9/16		0.563				AF1263	AF1333
	14.5	0.571				AF1264	AF1334
37/64		0.578				AF1265	AF1335
	15.0	0.591				AF1266	AF1336
19/32		0.594				AF1267	AF1337
39/64		0.609				AF1268	AF1338
	15.5	0.610				AF1269	AF1339
5/8		0.625				AF1270	AF1340
	16.0	0.630				AF1271	AF1341
41/64		0.641				AF1272	AF1342
	16.5	0.650				AF1273	AF1343
21/32		0.656				AF1274	AF1344
	17.0	0.669				AF1275	AF1345
43/64		0.672				AF1276	AF1346
11/16		0.688				AF1277	AF1347
	17.5	0.689				AF1278	AF1348
45/64		0.703				AF1279	AF1349
	18.0	0.709				AF1280	AF1350
23/32		0.719				AF1281	AF1351
	18.5	0.728				AF1282	AF1352
47/64		0.734				AF1283	AF1353
	19.0	0.748				AF1284	AF1354
3/4		0.750				AF1285	AF1355
49/64		0.766				AF1286	AF1356
	19.5	0.768				AF1287	AF1357
25/32		0.781				AF1288	AF1358

AF COLLETS

Inch Size	MM Size	Decimal Size (Inch)	AF-25	AF-38	AF-50	AF-75	AF-100
51/64	20.0	0.787				AF1289	AF1359
		0.797					AF1360
13/16	20.5	0.807					AF1361
		0.813					AF1362
53/64	21.0	0.827					AF1363
		0.828					AF1364
27/32	21.5	0.844					AF1365
		0.846					AF1366
55/64	22.0	0.859					AF1367
		0.866					AF1368
7/8	22.5	0.875					AF1369
		0.886					AF1370
57/64	23.0	0.891					AF1371
		0.906					AF1372
29/32	23.5	0.906					AF1373
		0.922					AF1374
59/64	24.0	0.925					AF1375
		0.938					AF1376
15/16	24.5	0.945					AF1377
		0.953					AF1378
61/64	25.0	0.965					AF1379
		0.969					AF1380
31/32	25.5	0.984					AF1381
		0.984					AF1382
63/64	26.0	1.000					AF1383
		1.004					
1		1.024					

OZ COLLETS

COLLETS

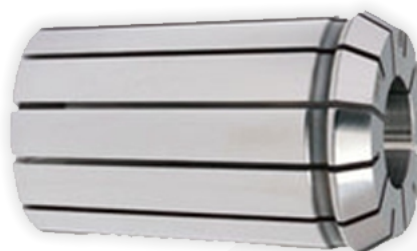


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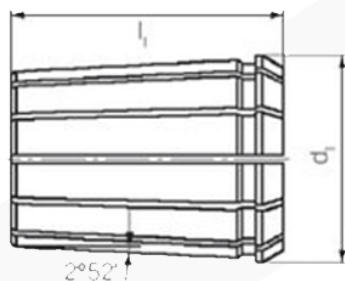
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DIMENSIONS :



OZ SERIES	REFERENCE #	d1	l1
OZ6	400E	11.5mm	21mm
OZ8	401E	14.5mm	26mm
OZ10	404E	17.2mm	30mm
OZ12	407E	19.8mm	34mm
OZ16	415E	25.5mm	40mm
OZ20	4541E	29.8mm	45mm
OZ25	462E	35.05mm	52mm
OZ32	467E	43.7mm	60mm
OZ40	468E	52.2mm	68mm

FEATURES :

- INCH & METRIC sizes
- More clamping force
- Crafted from high quality European spring steel
- Fractional Collets manufactured specifically for USA market requirements
- All edges are not only deburred, but additionally rounded for guaranteed repeatability

OZ COLLETS

Collet Size	Decimal Size (Inch)	OZ-20 EOC-20	OZ-25 EOC-25	OZ-32 EOC-32	OZ-40 EOC-40
2mm	0.079	OZ1001			
3/32	0.094	OZ1002			
3mm	0.118	OZ1003	OZ1043	OZ1095	
1/8	0.125	OZ1004	OZ1044	OZ1096	
5/32	0.156	OZ1005	OZ1045	OZ1097	OZ1154
4mm	0.157	OZ1006	OZ1046	OZ1098	OZ1155
3/16	0.188	OZ1007	OZ1047	OZ1099	OZ1156
5mm	0.197	OZ1008	OZ1048	OZ1100	OZ1157
7/32	0.219	OZ1009	OZ1049	OZ1101	OZ1158
6mm	0.236	OZ1010	OZ1050	OZ1102	OZ1159
1/4	0.250	OZ1011	OZ1051	OZ1103	OZ1160
7mm	0.276	OZ1012	OZ1052	OZ1104	OZ1161
9/32	0.281	OZ1013	OZ1053	OZ1105	OZ1162
5/16	0.313	OZ1014	OZ1054	OZ1106	OZ1163
8mm	0.315	OZ1015	OZ1055	OZ1107	OZ1164
11/32	0.344	OZ1016	OZ1056	OZ1108	OZ1165
9mm	0.354	OZ1017	OZ1057	OZ1109	OZ1166
3/8	0.375	OZ1018	OZ1058	OZ1110	OZ1167
10mm	0.394	OZ1019	OZ1059	OZ1111	OZ1168
13/32	0.406	OZ1020	OZ1060	OZ1112	OZ1169
11mm	0.433	OZ1021	OZ1061	OZ1113	OZ1170
7/16	0.438	OZ1022	OZ1062	OZ1114	OZ1171
15/32	0.469	OZ1023	OZ1063	OZ1115	OZ1172
12mm	0.472	OZ1024	OZ1064	OZ1116	OZ1173
1/2	0.500	OZ1025	OZ1065	OZ1117	OZ1174
13mm	0.512	OZ1026	OZ1066	OZ1118	OZ1175
17/32	0.531	OZ1027	OZ1067	OZ1119	OZ1176
14mm	0.551	OZ1028	OZ1068	OZ1120	OZ1177
9/16	0.563	OZ1029	OZ1069	OZ1121	OZ1178
15mm	0.591	OZ1030	OZ1070	OZ1122	OZ1179
19/32	0.594	OZ1031	OZ1071	OZ1123	OZ1180
5/8	0.625	OZ1032	OZ1072	OZ1124	OZ1181
16mm	0.630	OZ1033	OZ1073	OZ1125	OZ1182
21/32	0.656	OZ1034	OZ1074	OZ1126	OZ1183
17mm	0.669	OZ1035	OZ1075	OZ1127	OZ1184
11/16	0.688	OZ1036	OZ1076	OZ1128	OZ1185
18mm	0.709	OZ1037	OZ1077	OZ1129	OZ1186
23/32	0.719	OZ1038	OZ1078	OZ1130	OZ1187
19mm	0.748	OZ1039	OZ1079	OZ1131	OZ1188
3/4	0.750	OZ1040	OZ1080	OZ1132	OZ1189
25/32	0.781	OZ1041	OZ1081	OZ1133	OZ1190
20mm	0.787	OZ1042	OZ1082	OZ1134	OZ1191
13/16	0.813		OZ1083	OZ1135	OZ1192

OZ COLLETS

Collet Size	Decimal Size (Inch)	OZ-20 EOC-20	OZ-25 EOC-25	OZ-32 EOC-32	OZ-40 EOC-40
21mm	0.827		OZ1084	OZ1136	OZ1193
27/32	0.844		OZ1085	OZ1137	OZ1194
22mm	0.866		OZ1086	OZ1138	OZ1195
7/8	0.875		OZ1087	OZ1139	OZ1196
23mm	0.906		OZ1088	OZ1140	OZ1197
29/32	0.906		OZ1089	OZ1141	OZ1198
15/16	0.938		OZ1090	OZ1142	OZ1199
24mm	0.945		OZ1091	OZ1143	OZ1200
31/32	0.969		OZ1092	OZ1144	OZ1201
25mm	0.984		OZ1093	OZ1145	OZ1202
1"	1.000		OZ1094	OZ1146	OZ1203
26mm	1.024			OZ1147	OZ1204
27mm	1.063			OZ1148	OZ1205
28mm	1.102			OZ1149	OZ1206
29mm	1.142			OZ1150	OZ1207
30mm	1.181			OZ1151	OZ1208
31mm	1.220			OZ1152	OZ1209
32mm	1.260			OZ1153	OZ1210

OZ SEALED COLLETS



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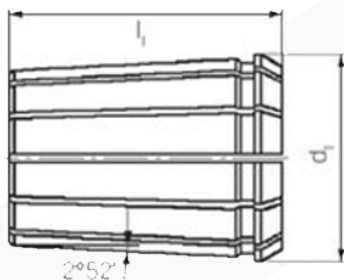
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DIMENSIONS :



OZ SERIES	REFERENCE #	d1	l1
OZ6	400E	11.5mm	21mm
OZ8	401E	14.5mm	26mm
OZ10	404E	17.2mm	30mm
OZ12	407E	19.8mm	34mm
OZ16	415E	25.5mm	40mm
OZ20	4541E	29.8mm	45mm
OZ25	462E	35.05mm	52mm
OZ32	467E	43.7mm	60mm
OZ40	468E	52.2mm	68mm

FEATURES :

- INCH & METRIC sizes
- More clamping force
- Crafted from high quality European spring steel
- Fractional Collets manufactured specifically for USA market requirements
- All edges are not only deburred, but additionally rounded for guaranteed repeatability

OZ SEALED COLLETS

Collet Size	Decimal Size (Inch)	OZ-20 EOC-20	OZ-25 EOC-25	OZ-32 EOC-32	OZ-40 EOC-40
3mm	0.118	OZC1003	OZC1043	OZC1095	
1/8	0.125	OZC1004	OZC1044	OZC1096	
5/32	0.156	OZC1005	OZC1045	OZC1097	OZC1154
4mm	0.157	OZC1006	OZC1046	OZC1098	OZC1155
3/16	0.188	OZC1007	OZC1047	OZC1099	OZC1156
5mm	0.197	OZC1008	OZC1048	OZC1100	OZC1157
7/32	0.219	OZC1009	OZC1049	OZC1101	OZC1158
6mm	0.236	OZC1010	OZC1050	OZC1102	OZC1159
1/4	0.250	OZC1011	OZC1051	OZC1103	OZC1160
7mm	0.276	OZC1012	OZC1052	OZC1104	OZC1161
9/32	0.281	OZC1013	OZC1053	OZC1105	OZC1162
5/16	0.313	OZC1014	OZC1054	OZC1106	OZC1163
8mm	0.315	OZC1015	OZC1055	OZC1107	OZC1164
11/32	0.344	OZC1016	OZC1056	OZC1108	OZC1165
9mm	0.354	OZC1017	OZC1057	OZC1109	OZC1166
3/8	0.375	OZC1018	OZC1058	OZC1110	OZC1167
10mm	0.394	OZC1019	OZC1059	OZC1111	OZC1168
13/32	0.406	OZC1020	OZC1060	OZC1112	OZC1169
11mm	0.433	OZC1021	OZC1061	OZC1113	OZC1170
7/16	0.438	OZC1022	OZC1062	OZC1114	OZC1171
15/32	0.469	OZC1023	OZC1063	OZC1115	OZC1172
12mm	0.472	OZC1024	OZC1064	OZC1116	OZC1173
1/2	0.500	OZC1025	OZC1065	OZC1117	OZC1174
13mm	0.512	OZC1026	OZC1066	OZC1118	OZC1175
17/32	0.531	OZC1027	OZC1067	OZC1119	OZC1176
14mm	0.551	OZC1028	OZC1068	OZC1120	OZC1177
9/16	0.563	OZC1029	OZC1069	OZC1121	OZC1178
15mm	0.591	OZC1030	OZC1070	OZC1122	OZC1179
19/32	0.594	OZC1031	OZC1071	OZC1123	OZC1180
5/8	0.625	OZC1032	OZC1072	OZC1124	OZC1181
16mm	0.630	OZC1033	OZC1073	OZC1125	OZC1182
21/32	0.656	OZC1034	OZC1074	OZC1126	OZC1183
17mm	0.669	OZC1035	OZC1075	OZC1127	OZC1184
11/16	0.688	OZC1036	OZC1076	OZC1128	OZC1185
18mm	0.709	OZC1037	OZC1077	OZC1129	OZC1186
23/32	0.719	OZC1038	OZC1078	OZC1130	OZC1187
19mm	0.748	OZC1039	OZC1079	OZC1131	OZC1188
3/4	0.750	OZC1040	OZC1080	OZC1132	OZC1189
25/32	0.781	OZC1041	OZC1081	OZC1133	OZC1190
20mm	0.787	OZC1042	OZC1082	OZC1134	OZC1191
13/16	0.813		OZC1083	OZC1135	OZC1192
21mm	0.827		OZC1084	OZC1136	OZC1193
27/32	0.844		OZC1085	OZC1137	OZC1194

OZ SEALED COLLETS

Collet Size	Decimal Size (Inch)	OZ-20 EOC-20	OZ-25 EOC-25	OZ-32 EOC-32	OZ-40 EOC-40
22mm	0.866		OZC1086	OZC1138	OZC1195
7/8	0.875		OZC1087	OZC1139	OZC1196
23mm	0.906		OZC1088	OZC1140	OZC1197
29/32	0.906		OZC1089	OZC1141	OZC1198
15/16	0.938		OZC1090	OZC1142	OZC1199
24mm	0.945		OZC1091	OZC1143	OZC1200
31/32	0.969		OZC1092	OZC1144	OZC1201
25mm	0.984		OZC1093	OZC1145	OZC1202
1"	1.000		OZC1094	OZC1146	OZC1203
26mm	1.024			OZC1147	OZC1204
27mm	1.063			OZC1148	OZC1205
28mm	1.102			OZC1149	OZC1206
29mm	1.142			OZC1150	OZC1207
30mm	1.181			OZC1151	OZC1208
31mm	1.220			OZC1152	OZC1209
32mm	1.260			OZC1153	OZC1210

STRAIGHT COLLETS FOR MILLING CHUCKS



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FEATURES :

- INCH & METRIC sizes
- Available in Inch and metric sizes
- Straight collet design eliminates taper tolerance variation between mating surfaces

METRIC SIZES

ID Size	Part Number	OD Size
3mm	283001	20mm
4mm	283002	20mm
5mm	283003	20mm
6mm	283004	20mm
8mm	283005	20mm
10mm	283006	20mm
12mm	283007	20mm
14mm	283008	20mm
16mm	283009	20mm
3mm	283010	32mm
4mm	283011	32mm
5mm	283012	32mm
6mm	283013	32mm
8mm	283014	32mm
10mm	283015	32mm
12mm	283016	32mm
14mm	283017	32mm
16mm	283018	32mm
18mm	283019	32mm
20mm	283020	32mm
25mm	283021	32mm

INCH SIZES

ID Size	Part Number	OD Size
3/16	283022	3/4"
1/4	283023	3/4"
5/16	283024	3/4"
3/8	283025	3/4"
7/16	283026	3/4"
1/2	283027	3/4"
9/16	283028	3/4"
5/8	283029	3/4"
3/16	283030	1-1/4"
1/4	283031	1-1/4"
5/16	283032	1-1/4"
3/8	283033	1-1/4"
7/16	283034	1-1/4"
1/2	283035	1-1/4"
9/16	283036	1-1/4"
5/8	283037	1-1/4"
11/16	283038	1-1/4"
3/4	283039	1-1/4"
13/16	283040	1-1/4"
7/8	283041	1-1/4"
15/16	283042	1-1/4"
1	283043	1-1/4"

REDUCTION SLEEVES FOR HYDRAULIC CHUCKS - ULTRA PRECISION



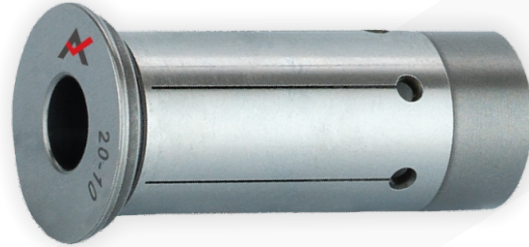
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REDUCTION SLEEVE FOR HYDRAULIC
CHUCKS- CLOSED END



FEATURES :

- Accuracy - 0.0002" (below 5 micron)
- Available in Inch and metric sizes
- Designed for high precision clamping

REDUCTION SLEEVES FOR HYDRAULIC CHUCKS - ULTRA PRECISION

METRIC SIZES

ID Size	Part Number	OD Size
3mm	284001	12mm
4mm	284002	12mm
5mm	284003	12mm
6mm	284004	12mm
8mm	284005	12mm
3mm	284006	20mm
4mm	284007	20mm
5mm	284008	20mm
6mm	284009	20mm
8mm	284010	20mm
10mm	284011	20mm
12mm	284012	20mm
14mm	284013	20mm
16mm	284014	20mm
3mm	284015	32mm
4mm	284016	32mm
5mm	284017	32mm
6mm	284018	32mm
8mm	284019	32mm
10mm	284020	32mm
12mm	284021	32mm
14mm	284022	32mm
16mm	284023	32mm
18mm	284024	32mm
20mm	284025	32mm
25mm	284026	32mm

INCH SIZES

ID Size	Part Number	OD Size
1/8	284027	3/4"
3/16	284028	3/4"
1/4	284029	3/4"
5/16	284030	3/4"
3/8	284031	3/4"
7/16	284032	3/4"
1/2	284033	3/4"
9/16	284034	3/4"
5/8	284035	3/4"
1/8	284036	1-1/4"
3/16	284037	1-1/4"
1/4	284038	1-1/4"
5/16	284039	1-1/4"
3/8	284040	1-1/4"
7/16	284041	1-1/4"
1/2	284042	1-1/4"
9/16	284043	1-1/4"
5/8	284044	1-1/4"
11/16	284045	1-1/4"
3/4	284046	1-1/4"
13/16	284047	1-1/4"
7/8	284048	1-1/4"
15/16	284049	1-1/4"
1	284050	1-1/4"

REDUCTION SLEEVES SET & MILLING COLLET SETS



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TYPE	DESCRIPTION	NO. OF COLLETS IN SET	PART NUMBER
Milling Collet OD-1-1/4"	OD-1-1/4" Milling Collets Set 14 pcs - 3/16" to 1" x 1/16"	14	290066
Milling Collet OD-3/4"	OD-3/4" Milling Collets Set 8 pcs - 3/16" to 1"	8	290067
Hydraulic Reduction Sleeves OD-1-1/4"	OD-1-1/4" Reduction Sleeves Set 15 pcs - 1/8" to 1" x 1/16"	15	290066HYDC
Hydraulic Reduction Sleeves OD-3/4"	OD-3/4" Reduction Sleeves Set 9 pcs - 1/8" to 5/8"	9	290067HYDC

QUICK CHANGE TAP ADAPTERS RIGID & CLUTCH DRIVE



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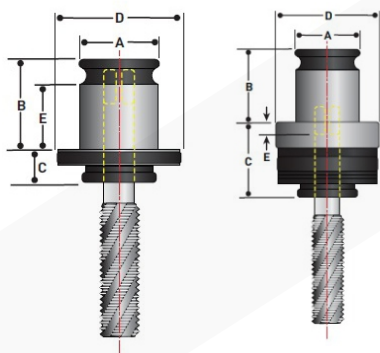
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DIMENSIONS :



Rigid Quick change tap adapters:

DIMENSIONS	A	B	C	D	E
Size 1	.75"	.85"	.28"	1.18"	.39"
Size 2	1.22"	1.38"	.43"	1.81"	.75"
Size 3	1.89"	2.19"	.55"	2.68"	1.18"
Size 4	2.36"	2.48"	1.65"	3.27"	1.14"

Quick change tap adapters with safety clutch:

DIMENSIONS	A	B	C	D	E
Size 0	.51"	.77"	.83"	.91"	.24"
Size 1	.75"	.85"	.98"	1.26"	.31"
Size 2	1.22"	1.38"	1.34"	1.97"	.16"
Size 3	1.89"	2.19"	1.77"	2.83"	.04"

FEATURES :

- Quick Change. Change Taps in seconds
- Prevent Broken Taps
- Automatically stops spinning when bottom is reached
- Metric & Inch collets / Adapters

QUICK CHANGE TAP ADAPTERS

RIGID

ANSI STANDARD TAPS

TAP SIZE	SHANK SIZE	SQUARE SIZE	PART NUMBER SIZE-0	PART NUMBER SIZE-1	PART NUMBER SIZE-2	PART NUMBER SIZE-3
#0-6	0.141	0.110	250139-0	250139		
#8	0.168	0.131	250140-0	250140		
#10	0.194	0.152	250141-0	250141		
#12	0.220	0.165	250142-0	250142		
1/4	0.255	0.191	250143-0	250143		
5/16	0.318	0.238		250144	250152	
3/8	0.381	0.286		250145	250153	
7/16	0.323	0.242		250146	250154	
1/2	0.367	0.275		250147	250155	250166
9/16	0.429	0.322		250148	250156	250167
5/8	0.480	0.360			250157	250168
11/16	0.542	0.406			250158	250169
3/4	0.590	0.442			250159	250170
13/16	0.652	0.489			250160	250171
7/8	0.697	0.523			250161	250172
1/16-P	0.3125	0.234	250149-0	250149	250162	
1/8s-P	0.3125	0.234	250150-0	250150	250163	
1/8-P	0.4375	0.328		250151	250164	
1/4-P	0.5625	0.421			250165	250173
3/8-P	0.7000	0.531				250174
1/2-P	0.6875	0.515				250175

DIN, ISO & JIS STANDARD TAPS

TAP SIZE	SHANK SIZE	PART NUMBER SIZE-0	PART NUMBER SIZE-1	PART NUMBER SIZE-2	PART NUMBER SIZE-3
2.8	2.1	250001-0	250001		
3.0	2.5	250002-0	250002		
3.15	2.5	250003-0	250003		
3.5	2.7	250004-0	250004		
3.55	2.8	250005-0	250005		
4.0	3.0	250006-0	250006		
4.0	3.2	250007-0	250007		
4.5	3.4	250008-0	250008		
5.0	4.0	250009-0	250009		
5.5	4.3	250010-0	250010		

QUICK CHANGE TAP ADAPTERS

RIGID

TAP SIZE	SHANK SIZE	PART NUMBER SIZE-0	PART NUMBER SIZE-1	PART NUMBER SIZE-2	PART NUMBER SIZE-3
5.6	4.5	250011-0	250011		
6.0	4.5	250012-0	250012		
6.0	4.9	250013-0	250013	250026	
6.3	5.0	250014-0	250014	250027	
7.0	5.0	250015-0	250015	250028	
7.0	5.5	250016-0	250016	250029	
7.1	5.6	250017-0	250017	250030	
8.0	6.0	250018-0	250018	250031	
8.0	6.2	250019-0	250019	250032	
8.0	6.3		250020	250033	
8.5	6.5		250021	250034	
9.0	7.0		250022	250035	
10.0	8.0		250023	250036	
10.5	8.0		250024	250037	
11.0	9.0		250025	250038	250050
11.2	9.0			250039	250051
12.0	9.0			250040	250052
12.5	10.0			250041	250053
14.0	11.0			250042	250054
14.0	11.2			250043	250055
15.0	12.0			250044	250056
16.0	12.0			250045	250057
16.0	12.5			250046	250058
17.0	13.0			250047	250059
18.0	14.0			250048	250060
18.0	14.5			250049	250061
19.0	15.0				250062
20.0	16.0				250063
20.0	15.0				250064
22.0	18.0				250065
22.4	18.0				250066
25.0	20.0				250067
28.0	22.0				250068
28.0	22.4				250069

QUICK CHANGE TAP ADAPTERS CLUTCH DRIVE

ANSI STANDARD TAPS

TAP SIZE	SHANK SIZE	SQUARE SIZE	PART NUMBER SIZE-0	PART NUMBER SIZE-1	PART NUMBER SIZE-2	PART NUMBER SIZE-3
#0-6	0.141	0.110	250176-0	250176		
#8	0.168	0.131	250177-0	250177		
#10	0.194	0.152	250178-0	250178		
#12	0.220	0.165	250179-0	250179		
1/4	0.255	0.191	250180-0	250180		
5/16	0.318	0.238		250181	250189	
3/8	0.381	0.286		250182	250190	
7/16	0.323	0.242		250183	250191	
1/2	0.367	0.275		250184	250192	250203
9/16	0.429	0.322		250185	250193	250204
5/8	0.480	0.360			250194	250205
11/16	0.542	0.406			250195	250206
3/4	0.590	0.442			250196	250207
13/16	0.652	0.489			250197	250208
7/8	0.697	0.523			250198	250209
1/16-P	0.3125	0.234	250186-0	250186	250199	
1/8s-P	0.3125	0.234	250187-0	250187	250200	
1/8-P	0.4375	0.328		250188	250201	
1/4-P	0.5625	0.421			250202	250210
3/8-P	0.7000	0.531				250211
1/2-P	0.6875	0.515				250212

DIN, ISO & JIS STANDARD TAPS

TAP SIZE	SHANK SIZE	PART NUMBER SIZE-0	PART NUMBER SIZE-1	PART NUMBER SIZE-2	PART NUMBER SIZE-3
3.5	2.7	250073-0	250073		
3.55	2.8	250074-0	250074		
4.0	3.0	250075-0	250075		
4.0	3.2	250076-0	250076		
4.5	3.4	250077-0	250077		
5.0	4.0	250078-0	250078		
5.5	4.3	250079-0	250079		
5.6	4.5	250080-0	250080		
6.0	4.5	250081-0	250081		
6.0	4.9	250082-0	250082	250095	

QUICK CHANGE TAP ADAPTERS

CLUTCH DRIVE

TAP SIZE	SHANK SIZE	PART NUMBER SIZE-0	PART NUMBER SIZE-1	PART NUMBER SIZE-2	PART NUMBER SIZE-3
6.3	5.0	250083-0	250083	250096	
7.0	5.0	250084-0	250084	250097	
7.0	5.5	250085-0	250085	250098	
7.1	5.6	250086-0	250086	250099	
8.0	6.0	250087-0	250087	250100	
8.0	6.2	250088-0	250088	250101	
8.0	6.3		250089	250102	
8.5	6.5		250090	250103	
9.0	7.0		250091	250104	
10.0	8.0		250092	250105	
10.5	8.0		250093	250106	
11.0	9.0		250094	250107	250119
11.2	9.0			250108	250120
12.0	9.0			250109	250121
12.5	10.0			250110	250122
14.0	11.0			250111	250123
14.0	11.2			250112	250124
15.0	12.0			250113	250125
16.0	12.0			250114	250126
16.0	12.5			250115	250127
17.0	13.0			250116	250128
18.0	14.0			250117	250129
18.0	14.5			250118	250130
19.0	15.0				250131
20.0	16.0				250132
20.0	15.0				250133
22.0	18.0				250134
22.4	18.0				250135
25.0	20.0				250136
28.0	22.0				250137
28.0	22.4				250138

TAP ADAPTER SET



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TYPE	DESCRIPTION	NO. OF COLLETS IN SET	PART NUMBER
RIGID Size-1 Adapters	Quick Change Tap Collet 11 pcs Set - WE size-1 (0-6" thru 9/16" & 1/8"NPT)	11	290081
RIGID Size-2 Adapters	Quick Change Tap Collet 13 pcs Set - WE size-2 (5/16" thru 1/2" NPT)	13	290082
RIGID Size-3 Adapters	Quick Change Tap Collet 16 pcs Set - WE size-3 (1/2" thru 1" NPT)	16	290083
Adapters With Safety Clutch Size-1	Quick Change Tap Collet 11 pcs Set - WES with Safety Clutch size-1 (0-6" thru 9/16" & 1/8"NPT)	11	290084
Adapters With Safety Clutch Size-2	Quick Change Tap Collet 13 pcs Set - WES with Safety Clutch size-2 (5/16" thru 1/2" NPT)	13	290085
Adapters With Safety Clutch Size-3	Quick Change Tap Collet 16 pcs Set - WES with Safety Clutch size-3 (1/2" thru 1" NPT)	16	290086

R8 COLLETS

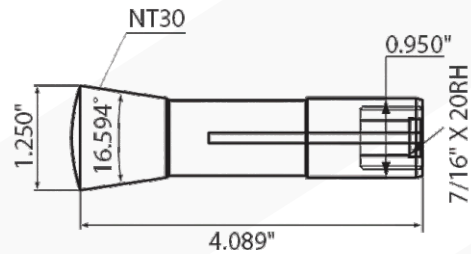
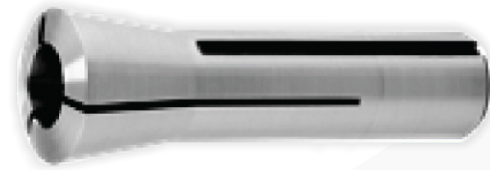


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FEATURES :

- R8 collts do not collapse. Nominal size
- Collet sets available
- Inch & Metric sizes
- Reduces tool change time
- Hardened and ground
- High grade steel for long wear life

R8 COLLETS

Inch Size	MM Size	R8 Collets PART NUMBER
	2.0	285001
3/32		285002
	3.0	285003
1/8		285004
5/32		285005
	4.0	285006
3/16		285007
	5.0	285008
7/32		285009
	6.0	285010
1/4		285011
	7.0	285012
9/32		285013
5/16		285014
	8.0	285015
11/32		285016
	9.0	285017
3/8		285018
	10.0	285019
13/32		285020
	11.0	285021
7/16		285022
1/16		285023
15/32		285024
	12.0	285025
1/2		285026
	13.0	285027
17/32		285028

Inch Size	MM Size	R8 Collets PART NUMBER
	Continue...	
	14.0	285029
9/16		285030
	15.0	285031
19/32		285032
5/8		285033
	16.0	285034
21/32		285035
	17.0	285036
11/16		285037
	18.0	285038
23/32		285039
	19.0	285040
3/4		285041
25/32		285042
	20.0	285043
13/16		285044
	21.0	285045
27/32		285046
	22.0	285047
7/8		285048
	23.0	285049
29/32		285050
15/16		285051
	24.0	285052
31/32		285053
	25.0	285054
1"		285055

5C COLLETS

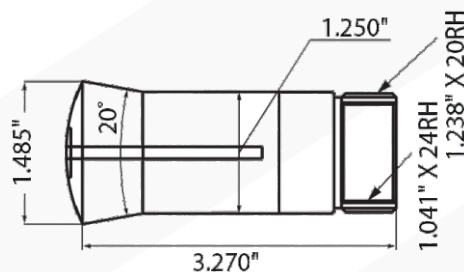


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FEATURES :

- 5C - Round, Hex & Square Collets
- Reduces tool change time
- 5C collets do not collapse. Nominal size
- Hardened and ground
- Collet sets available in Inch & Metric sizes
- High grade steel for long wear life

5C COLLETS

Inch Size	MM Size	5C ROUND Collets Item #	5C HEX Collets Item #	5C SQUARE Collets Item #
	2.0	286001	286001H	286001S
3/32		286002	286002H	286002S
	3.0	286003	286003H	286003S
1/8		286004	286004H	286004S
5/32		286005	286005H	286005S
	4.0	286006	286006H	286006S
3/16		286007	286007H	286007S
	5.0	286008	286008H	286008S
7/32		286009	286009H	286009S
	6.0	286010	286010H	286010S
1/4		286011	286011H	286011S
	7.0	286012	286012H	286012S
9/32		286013	286013H	286013S
5/16		286014	286014H	286014S
	8.0	286015	286015H	286015S
11/32		286016	286016H	286016S
	9.0	286017	286017H	286017S
3/8		286018	286018H	286018S
	10.0	286019	286019H	286019S
13/32		286020	286020H	286020S
	11.0	286021	286021H	286021S
7/16		286022	286022H	286022S
1/16		286023	286023H	286023S
15/32		286024	286024H	286024S
	12.0	286025	286025H	286025S
1/2		286026	286026H	286026S
	13.0	286027	286027H	286027S
17/32		286028	286028H	286028S
	14.0	286029	286029H	286029S

Inch Size	MM Size	5C ROUND Collets Item #	5C HEX Collets Item #	5C SQUARE Collets Item #
Continue...				
9/16		286030	286030H	286030S
	15.0	286031	286031H	286031S
19/32		286032	286032H	286032S
5/8		286033	286033H	286033S
	16.0	286034	286034H	286034S
21/32		286035	286035H	286035S
	17.0	286036	286036H	286036S
11/16		286037	286037H	286037S
	18.0	286038	286038H	286038S
23/32		286039	286039H	286039S
	19.0	286040	286040H	286040S
3/4		286041	286041H	286041S
25/32		286042	286042H	286042S
	20.0	286043	286043H	286043S
13/16		286044	286044H	286044S
	21.0	286045	286045H	286045S
27/32		286046	286046H	286046S
	22.0	286047	286047H	286047S
7/8		286048	286048H	286048S
	23.0	286049	286049H	286049S
29/32		286050	286050H	286050S
15/16		286051	286051H	286051S
	24.0	286052	286052H	286052S
31/32		286053	286053H	286053S
	25.0	286054	286054H	286054S
1"		286055	286055H	286055S
	26.0	286056	286056H	286056S
	27.0	286057	286057H	286057S
	28.0	286058	286058H	286058S

5C COLLET SET



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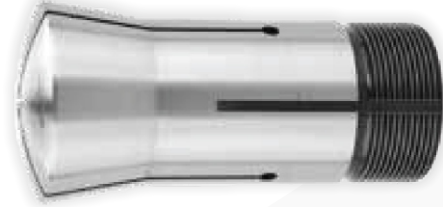
TYPE	RANGE	NO. OF COLLETS IN SET	PART NO.
5C Collet - Round	1/8" to 1" x 1/8"	8	286070
5C Collet - Round	1/8" to 1-1/8" x 1/8"	9	286071
5C Collet - Round	1/16" + 1/8" to 1" x 1/8"	9	286072
5C Collet - Round	1/8" to 1" x 1/16"	15	286073
5C Collet - Round	1/8" to 1-1/16" x 1/16"	16	286074
5C Collet - Round	1/16" to 1" x 1/16"	16	286075
5C Collet - Round	1/16" to 1-1/16" x 1/16"	17	286076
5C Collet - Round	1/16" to 1-1/8" x 1/16"	18	286077
5C Collet - Round	1/8" to 1" x 1/32"	29	286078
5C Collet - Round	1/8" to 1-1/16" x 1/32"	31	286079
5C Collet - Round	1/16" to 1" x 1/32"	31	286080
5C Collet - Round	1/16" to 1-1/16" x 1/32"	33	286081
5C Collet - Round	1/16" to 1-1/8" x 1/32"	35	286082
5C Collet - Round	1/8" to 1-1/16" x 1/64"	61	286083
5C Collet - Round	1/16" to 1" x 1/64"	61	286084

16C COLLETS

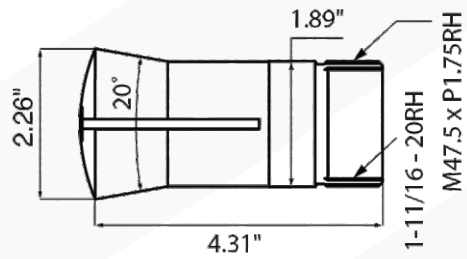


PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.



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FEATURES :

- 16C - Round, Hex & Square Collets
- Hardened and ground
- Hold parts up to 1.625 inches or 40mm in diameter.
- High grade steel for long wear life
- Collet sets available in Inch & Metric sizes

16C COLLETS

Inch Size	MM Size	16C ROUND Collets Item #	16C HEX Collets Item #	16C SQUARE Collets Item #
Emergency		288001		
	2.0	288002	288002H	288002S
3/32		288003	288003H	288003S
	3.0	288004	288004H	288004S
1/8		288005	288005H	288005S
5/32		288006	288006H	288006S
	4.0	288007	288007H	288007S
3/16		288008	288008H	288008S
	5.0	288009	288009H	288009S
7/32		288010	288010H	288010S
	6.0	288011	288011H	288011S
1/4		288012	288012H	288012S
	7.0	288013	288013H	288013S
9/32		288014	288014H	288014S
5/16		288015	288015H	288015S
	8.0	288016	288016H	288016S
11/32		288017	288017H	288017S
	9.0	288018	288018H	288018S
3/8		288019	288019H	288019S
	10.0	288020	288020H	288020S
13/32		288021	288021H	288021S
	11.0	288022	288022H	288022S
7/16		288023	288023H	288023S
1/16		288024	288024H	288024S
15/32		288025	288025H	288025S
	12.0	288026	288026H	288026S
1/2		288027	288027H	288027S
	13.0	288028	288028H	288028S
17/32		288029	288029H	288029S
	14.0	288030	288030H	288030S
9/16		288031	288031H	288031S
	15.0	288032	288032H	288032S
19/32		288033	288033H	288033S
5/8		288034	288034H	288034S
	16.0	288035	288035H	288035S
21/32		288036	288036H	288036S
	17.0	288037	288037H	288037S
11/16		288038	288038H	288038S
	18.0	288039	288039H	288039S
23/32		288040	288040H	288040S
	19.0	288041	288041H	288041S

Inch Size	MM Size	16C ROUND Collets Item #	16C HEX Collets Item #	16C SQUARE Collets Item #
Continue...				
3/4		288042	288042H	288042S
25/32		288043	288043H	288043S
	20.0	288044	288044H	288044S
13/16		288045	288045H	288045S
	21.0	288046	288046H	288046S
27/32		288047	288047H	288047S
	22.0	288048	288048H	288048S
7/8		288049	288049H	288049S
	23.0	288050	288050H	288050S
29/32		288051	288051H	288051S
15/16		288052	288052H	288052S
	24.0	288053	288053H	288053S
31/32		288054	288054H	288054S
	25.0	288055	288055H	288055S
1"		288056	288056H	288056S
	26.0	288057	288057H	288057S
1 1/32		288058	288058H	288058S
1 1/16		288059	288059H	288059S
	27.0	288060	288060H	288060S
1 3/32		288061	288061H	288061S
	28.0	288062	288062H	288062S
1 1/8		288063	288063H	288063S
	29.0	288064	288064H	288064S
1 5/32		288065	288065H	288065S
	30.0	288066	288066H	288066S
1 3/16		288067	288067H	288067S
1 7/32		288068	288068H	288068S
	31.0	288069	288069H	288069S
1 1/4		288070	288070H	288070S
	32.0	288071	288071H	288071S
1 9/32		288072	288072H	288072S
	33.0	288073	288073H	288073S
1 5/16		288074	288074H	288074S
	34.0	288075	288075H	288075S
1 11/32		288076	288076H	288076S
1 3/8		288077	288077H	288077S
	35.0	288078	288078H	288078S
1 13/32		288079	288079H	288079S
	36.0	288080	288080H	288080S
		288081	288081H	288081S

16C COLLETS

Inch Size	MM Size	16C ROUND Collets Item #	16C HEX Collets Item #	16C SQUARE Collets Item #
Continue...				
1 15/32	37.0	288082	288082H	288082S
		288083	288083H	288083S
	38.0	288084	288084H	288084S
1 1/2		288085	288085H	288085S
1 17/32		288086	288086H	288086S
	39.0	288087	288087H	288087S
1 9/16		288088	288088H	288088S
	40.0	288089	288089H	288089S
1 19/32		288090	288090H	288090S
1 5/8		288091	288091H	288091S

3J COLLETS

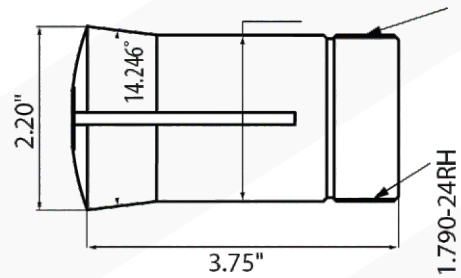
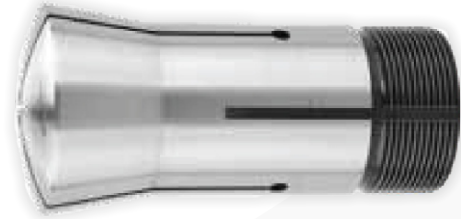


PAC CERTIFIED QUALITY

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FEATURES :

- 3J - Round, Hex & Square Collets
- Hardened and ground
- Hold parts up to 1.750 inches or 40mm in diameter.
- High grade steel for long wear life
- Collet sets available in Inch & Metric sizes

3J COLLETS

Inch Size	MM Size	3J ROUND Collets Item #	3J HEX Collets Item #	3J SQUARE Collets Item #
	2.0	287001	287001H	287001S
3/32		287002	287002H	287002S
	3.0	287003	287003H	287003S
1/8		287004	287004H	287004S
5/32		287005	287005H	287005S
	4.0	287006	287006H	287006S
3/16		287007	287007H	287007S
	5.0	287008	287008H	287008S
7/32		287009	287009H	287009S
	6.0	287010	287010H	287010S
1/4		287011	287011H	287011S
	7.0	287012	287012H	287012S
9/32		287013	287013H	287013S
5/16		287014	287014H	287014S
	8.0	287015	287015H	287015S
11/32		287016	287016H	287016S
	9.0	287017	287017H	287017S
3/8		287018	287018H	287018S
	10.0	287019	287019H	287019S
13/32		287020	287020H	287020S
	11.0	287021	287021H	287021S
7/16		287022	287022H	287022S
1/16		287023	287023H	287023S
15/32		287024	287024H	287024S
	12.0	287025	287025H	287025S
1/2		287026	287026H	287026S
	13.0	287027	287027H	287027S
17/32		287028	287028H	287028S
	14.0	287029	287029H	287029S
9/16		287030	287030H	287030S
	15.0	287031	287031H	287031S
19/32		287032	287032H	287032S
5/8		287033	287033H	287033S
	16.0	287034	287034H	287034S
21/32		287035	287035H	287035S
	17.0	287036	287036H	287036S
11/16		287037	287037H	287037S
	18.0	287038	287038H	287038S
23/32		287039	287039H	287039S
	19.0	287040	287040H	287040S

Inch Size	MM Size	3J ROUND Collets Item #	3J HEX Collets Item #	3J SQUARE Collets Item #
		Continue...		
3/4	20.0	287041	287041H	287041S
25/32		287042	287042H	287042S
	21.0	287043	287043H	287043S
13/16		287044	287044H	287044S
	22.0	287045	287045H	287045S
27/32		287046	287046H	287046S
		287047	287047H	287047S
7/8		287048	287048H	287048S
	23.0	287049	287049H	287049S
29/32		287050	287050H	287050S
15/16		287051	287051H	287051S
	24.0	287052	287052H	287052S
31/32		287053	287053H	287053S
	25.0	287054	287054H	287054S
1"		287055	287055H	287055S
	26.0	287056	287056H	287056S
1 1/32		287057	287057H	287057S
1 1/16		287058	287058H	287058S
	27.0	287059	287059H	287059S
1 3/32		287060	287060H	287060S
	28.0	287061	287061H	287061S
1 1/8		287062	287062H	287062S
	29.0	287063	287063H	287063S
1 5/32		287064	287064H	287064S
	30.0	287065	287065H	287065S
1 3/16		287066	287066H	287066S
1 7/32		287067	287067H	287067S
	31.0	287068	287068H	287068S
1 1/4		287069	287069H	287069S
	32.0	287070	287070H	287070S
1 9/32		287071	287071H	287071S
	33.0	287072	287072H	287072S
1 5/16		287073	287073H	287073S
	34.0	287074	287074H	287074S
1 11/32		287075	287075H	287075S
1 3/8		287076	287076H	287076S
	35.0	287077	287077H	287077S
1 13/32		287078	287078H	287078S
	36.0	287079	287079H	287079S
1 7/16		287080	287080H	287080S

3J COLLETS

Inch Size	MM Size	16C ROUND Collets Item #	16C HEX Collets Item #	16C SQUARE Collets Item #
Continue...				
1 15/32	38.0	287082	287082H	287082S
		287083	287083H	287083S
1 1/2	39.0	287084	287084H	287084S
1 17/32		287085	287085H	287085S
	40.0	287086	287086H	287086S
1 9/16		287087	287087H	287087S
	40.0	287088	287088H	287088S
1 19/32		287089	287089H	287089S
1 5/8		287090	287090H	287090S
1 21/32		287091	287091H	287091S
1 11/16		287092	287092H	287092S
1 23/32		287093	287093H	287093S
1 3/4		287094	287094H	287094S

TOOL HOLDER BUSHINGS



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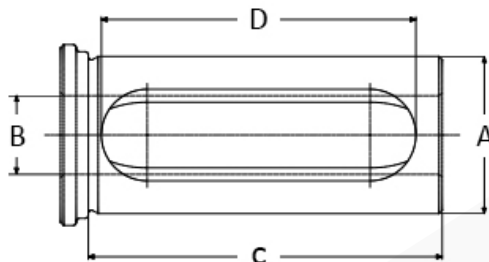


FEATURES :

- Black Oxide
- Inch & Metric both sizes available
- Wrench flats for easy removal
- Type and size clearly marked on surface of head

TOOL HOLDER BUSHINGS

TYPE C

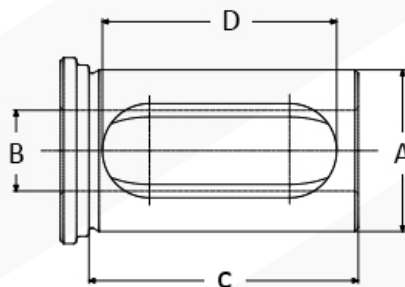


PART NUMBER	OD A	SLOT LENGTH D	LENGTH UNDER HEAD C	ID B
112001	3/4"	1-7/8"	2-1/4"	1/4"
112002				5/16"
112003				3/8"
112004				1/2"
112005	1"	2-3/8"	2-3/4"	1/4"
112006				5/16"
112007				3/8"
112008				1/2"
112009				5/8"
112010				3/4"
112011	1-1/4"	2-7/8"	3-1/4"	3/8"
112012				1/2"
112013				5/8"
112014				3/4"
112015				7/8"
112016				1"
112017	1-1/2"	3"	3-3/8"	3/8"
112018				1/2"
112019				5/8"
112020				3/4"
112021				7/8"
112022				1"
112023	1-3/4"	3-1/8"	3-1/2"	1-1/4"
112024				1/2"
112025				5/8"
112026				3/4"
112027				7/8"
112028				1"
112029	1-1/4"	1-1/2"	1-1/2"	1-1/4"
112030				1-1/2"

TOOL HOLDER BUSHINGS

PART NUMBER	OD A	SLOT LENGTH D	LENGTH UNDER HEAD C	ID B
112031	2"	3-5/8"	4"	1/2"
112032				5/8"
112033				3/4"
112034				7/8"
112035				1"
112036				1-1/4"
112037				1-1/2"
112038				1-3/4"

TYPE CS

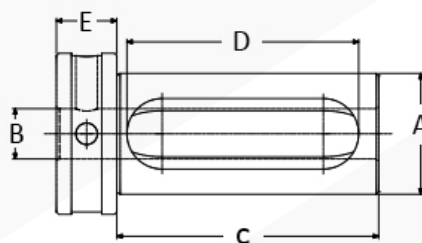


PART NUMBER	OD A	SLOT LENGTH D	LENGTH UNDER HEAD C	ID B
112039	3/4"	1-1/8"	1-1/2"	1/4"
112040				5/16"
112041				3/8"
112042				1/2"
112043	1"	1-3/8"	1-3/4"	1/4"
112044				5/16"
112045				3/8"
112046				1/2"
112047				5/8"
112048				3/4"
112049	1-1/4"	1-3/4"	2-1/8"	3/8"
112050				1/2"
112051				5/8"
112052				3/4"
112053				7/8"
112054				1"

TOOL HOLDER BUSHINGS

PART NUMBER	OD A	SLOT LENGTH D	LENGTH UNDER HEAD C	ID B
112055	1-1/2"	2-1/8"	2-1/2"	3/8"
112056				1/2"
112057				5/8"
112058				3/4"
112059				7/8"
112060				1"
112061				1-1/4"

TYPE Z

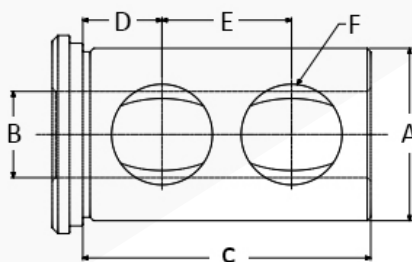


PART NUMBER	OD A	SLOT LENGTH D	LENGTH UNDER HEAD C	HEAD THICK E	ID B
112097	3/4"	1-7/8"	2-1/4"	1/2"	1/4"
112098					5/16"
112099					3/8"
112100					1/2"
112101	1"	2-5/8"	2-3/4"	1/2"	1/4"
112102					5/16"
112103					3/8"
112104					1/2"
112105					5/8"
112106					3/4"
112107	1-1/4"	2-7/8"	3-1/4"	5/8"	3/8"
112108					1/2"
112109					5/8"
112110					3/4"
112111					7/8"
112112					1"

TOOL HOLDER BUSHINGS

PART NUMBER	OD A	SLOT LENGTH D	LENGTH UNDER HEAD C	HEAD THICK E	ID B
112113	1-1/2"	3"	3-3/8"	3/4"	3/8"
112114					1/2"
112115					5/8"
112116					3/4"
112117					7/8"
112118					1"
112119					1-1/4"
112120	1-3/4"	3-1/8"	3-1/2"	3/4"	1/2"
112121					5/8"
112122					3/4"
112123					7/8"
112124					1"
112125					1-1/4"
112126					1-1/2"
112127	2"	3-5/8"	4"	3/4"	1/2"
112128					5/8"
112129					3/4"
112130					7/8"
112131					1"
112132					1-1/4"
112133					1-1/2"
112134					1-3/4"

TYPE J



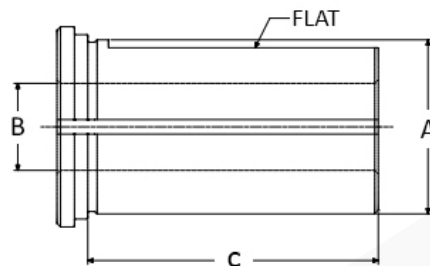
PART NUMBER	OD A	C	E	D	F	ID B
112062	3/4"	1-1/2"	13/16"	3/8"	3/8"	1/4"
112063						5/16"
112064						3/8"
112065						1/2"

TOOL HOLDER BUSHINGS

PART NUMBER	OD A	C	E	D	FH	ID B
112066	1	1-3/4"	7/8"	7/16"	5/8"	3/8"
112067						1/2"
112068						5/8"
112069						3/4"
112070	1-1/4"	2-1/8"	1"	5/8"	5/8"	3/8"
112071						1/2"
112072						5/8"
112073						3/4"
112074						7/8"
112075						1"
112076	1-1/2"	2-1/2"	1-1/8"	11/16"	7/8"	3/8"
112077						1/2"
112078						5/8"
112079						3/4"
112080						7/8"
112081						1"
112082						1-1/4"
112083						1/2"
112084	1-3/4"	3"	1-1/4"	3/4"	7/8"	5/8"
112085						3/4"
112086						7/8"
112087						1"
112088						1-1/4"
112089						1-1/2"
112090						2"
112091	3/4"					
112092	7/8"					
112093	1"					
112094	1-1/4"					
112095	1-1/2"					
112096	1-3/4"					

TOOL HOLDER BUSHINGS

TYPE B



PART NUMBER	OD A	SLOT LENGTH C	ID B
112135	3/4"	1-1/2"	1/4"
112136			5/16"
112137			3/8"
112138			1/2"
112139	1"	1-3/4"	3/8"
112140			1/2"
112141			5/8"
112142			3/4"
112143	1-1/4"	2-1/8"	3/8"
112144			1/2"
112145			5/8"
112146			3/4"
112147			7/8"
112148			1"
112149	1-1/2"	2-1/2"	3/8"
112150			1/2"
112151			5/8"
112152			3/4"
112153			7/8"
112154			1"
112155			1-1/4"
112156	1-3/4"	3"	1/2"
112157			5/8"
112158			3/4"
112159			7/8"
112160			1"
112161			1-1/4"
112162			1-1/2"

TOOL HOLDER BUSHINGS

■ BORING BAR SLEEVES



PART NUMBER	OD A	B	SCREW SIZE	E	F	D	C	
112165	3/4"	5"	10-32	5/16"	5/8"	1-1/2"	1/4"	
112166						1-1/2"	5/16"	
112167						1-1/2"	3/8"	
112168						3"	1/2"	
112169	1"	6"	1/4"-28	7/16"	5/8"	1-3/4"	3/16"	
112170						1-3/4"	1/4"	
112171						1-3/4"	5/16"	
112172						1-3/4"	3/8"	
112173						2"	1/2"	
112174	1-1/4"	6-1/2"	1/4"-28	7/16"	5/8"	5/8"	1-1/2"	
112175						5/8"	2-1/4"	1/2"
112176						3/4"	2-1/4"	5/8"
112177						3/4"	3"	3/4"
112178						3/4"	4"	7/8"
112179						3/4"	4"	1"
112180	1-1/2"	7"	1/4"-28	5/16"	5/8"	2"	3/8"	
112181			5/16"-24	7/16"	11/16"	2-1/4"	1/2"	
112182					3/4"	2-1/4"	5/8"	
112183		3/4"			2-1/2"	3/4"		
112184		8"	1/4"-28	7/16"	3/4"	3"	7/8"	
112185					7/8"	4"	1"	
112186	1-3/4"	8"	5/16"-24	5/16"	5/8"	2-1/2"	1/2"	
112187			5/16"-24	7/16"	5/8"	2-1/2"	5/8"	
112188			3/8"-24	7/16"	7/16"	1"	2-1/2"	3/4"
112189					7/16"	1"	2-1/2"	7/8"
112190					7/16"	1"	2-1/2"	1"
112191					7/16"-20	7/16"	1"	2"
112192	2"	9"	1/2"-20	7/16"	1"	2-3/4"	3/4"	
112193				7/16"		2"	7/8"	
112194				1/2"-20		7/16"	3-1/2"	1"
112195				1/2"-20		5/8"	3"	1-1/4"

TOOL HOLDER BUSHINGS

PART NUMBER	OD A	B	SCREW SIZE	E	F	D	C
112196	2-1/2"	10"	1/2"-20	7/16"	1"	3-1/2"	5/8"
112197				7/16"		3-1/2"	3/4"
112198				7/16"		4"	1"
112199				5/8"		4"	1-1/4"
112200				1/2"		3-1/2"	1-1/2"
112201	3"	11-1/2"	1/2"-20	1/2"	1"	4"	1"
112202				1/2"		3-1/2"	1-1/4"
112203				1/2"		4-1/2"	1-1/2"
112204				5/8"	1-1/4"	3-3/4"	1-3/4"
112205				1/2"	1"	4-1/2"	2"
112206	4"	14"	5/8"-18	19/32"	1-7/8"	3-3/4"	1-1/2"
112207				5/8"	1-7/8"	3-3/4"	1-3/4"
112208				19/32"	1-3/4"	3-3/4"	2"
112209				5/8"	2"	4"	2-1/2"
112210				3/4"	1-1/4"	4"	3"

RETENTION KNOBS (PULL STUDS) **SUPERFORCE**



PAC CERTIFIED QUALITY

PAC RETENTION KNOBS **QUALITY & PERFORMANCE GUARANTEED**



*Super***FORCE**

**SUPERFORCE HIGH-TORQUE
RETENTION KNOBS**

SUPERIOR PERFORMANCE & SAFETY !



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.



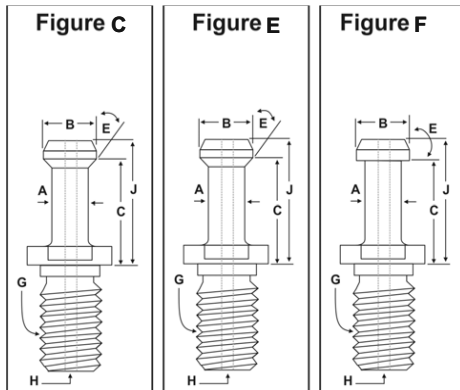
**E-COMMERCE
WEB PAGE**

FEATURES :

- All SuperFORCE Knobs are Magnetic Particle Tested - Free of Cracks
- Precision Ground Knobs
- Rolled Threads
- Pilots on majority of Knobs for better seating & improved concentricity
- Proof tested at 2.5 times the clamping force
- Manufactured to the highest standard & 100% inspected for quality

RETENTION KNOBS (PULL STUDS) SUPERFORCE

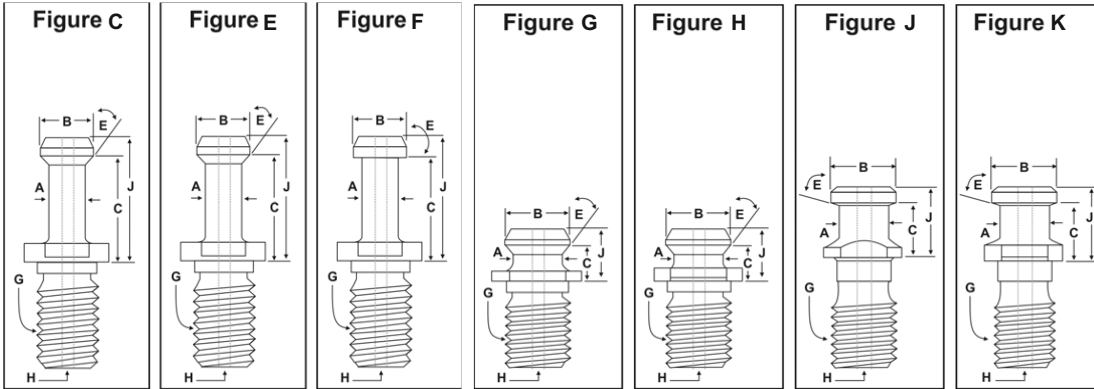
BT30 RETENTION KNOBS



PART NUMBER	DESCRIPTION	TYPE	FIGURE NUMBER	B	A	ANGLE E ^o	C	J	FLANGE THICK	THREADS G
100001	RK-BT30-MAS45	MAS-Solid	E	0.433 (11mm)	0.276 (7mm)	45°	0.709 (18mm)	0.905 (23mm)	0.197 (5mm)	M12
100002	RK-BT30-MAS45C	MAS - Coolant-Through	E	0.433 (11mm)	0.276 (7mm)	45°	0.709 (18mm)	0.905 (23mm)	0.197 (5mm)	M12
100003	RK-BT30-MAS60	MAS-Solid	E	0.433 (11mm)	0.276 (7mm)	60°	0.709 (18mm)	0.905 (23mm)	0.197 (5mm)	M12
100004	RK-BT30-MAS90	MAS-Solid	F	0.433 (11mm)	0.276 (7mm)	90°	0.709 (18mm)	0.905 (23mm)	0.200 (5.1mm)	M12
100005	RK-BT30-MAS75C	MAS - Coolant-Through	E	0.472 (12mm)	0.315 (8mm)	75°	0.724 (18.4mm)	0.921 (23.4mm)	0.200 (5.1mm)	M12
100006	RK-BT30-MAS45-TRK	MAS-Solid	C	0.393 (10mm)	0.236 (6mm)	45°	0.630 (16mm)	0.787 (20mm)	-	M12

RETENTION KNOBS (PULL STUDS) SUPERFORCE

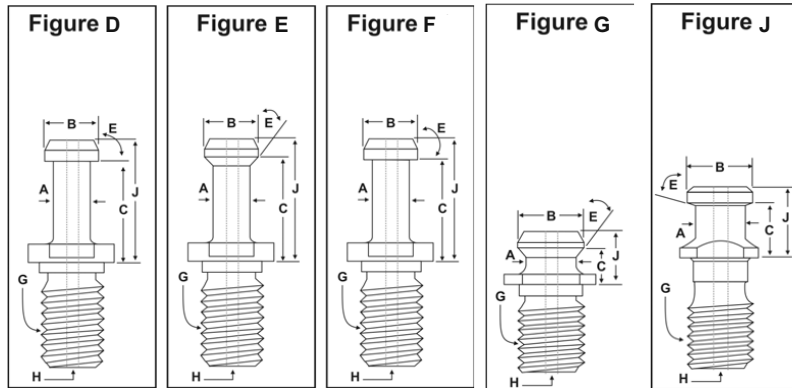
BT40 RETENTION KNOBS



PART NUMBER	DESCRIPTION	TYPE	FIGURE NUMBER	B	A	ANGLE E _g	C	J	FLANGE THICK	THREADS G
100007	RK-BT40-MAS45-1	MAS-Solid	C	0.59 (15mm)	0.394 (10mm)	45°	0.989 (25.1mm)	1.265 (32.1mm)	0.242 (6.1mm)	M16
100008	RK-BT40-MAS45C	MAS - Coolant-Through	E	0.59 (15mm)	0.394 (10mm)	45°	1.102 (28mm)	1.377 (35mm)	0.236 (6mm)	M16
100009	RK-BT40-MAS45	MAS-Solid	E	0.59 (15mm)	0.394 (10mm)	45°	1.102 (28mm)	1.377 (35mm)	0.236 (6mm)	M16
100010	RK-BT40-MAS60C	MAS - Coolant-Through	E	0.59 (15mm)	0.394 (10mm)	60°	1.102 (28mm)	1.377 (35mm)	0.236 (6mm)	M16
100011	RK-BT40-MAS60	MAS-Solid	E	0.59 (15mm)	0.394 (10mm)	60°	1.102 (28mm)	1.377 (35mm)	0.236 (6mm)	M16
100012	RK-BT40-MAS90C	MAS - Coolant-Through	F	0.59 (15mm)	0.394 (10mm)	90°	1.102 (28mm)	1.377 (35mm)	0.236 (6mm)	M16
100013	RK-BT40-MAS90	MAS-Solid	F	0.59 (15mm)	0.394 (10mm)	90°	1.102 (28mm)	1.377 (35mm)	0.236 (6mm)	M16
100014	RK-BT40-ANSI45C-1	ANSI - Coolant-Through	G	0.740 (18.8mm)	0.490 (12.5mm)	45°	0.440 (11.2mm)	0.640 (16.3mm)	0.120 (3mm)	M16
100015	RK-BT40-ANSI45-1	ANSI-Solid	G	0.740 (18.8mm)	0.490 (12.5mm)	45°	0.440 (11.2mm)	0.640 (16.3mm)	0.120 (3mm)	M16
100016	RK-BT40-ANSI45C	ANSI - Coolant-Through	H	0.740 (18.8mm)	0.490 (12.5mm)	45°	0.550 (14mm)	0.755 (19.2mm)	0.240 (6.1mm)	M16
100017	RK-BT40-ANSI45	ANSI-Solid	H	0.740 (18.8mm)	0.490 (12.5mm)	45°	0.550 (14mm)	0.755 (19.2mm)	0.240 (6.1mm)	M16
100018	RK-BT40-ISO75C	ISO - Coolant-Through	K	0.748 (19mm)	0.551 (14mm)	75°	0.905 (23mm)	1.141 (29mm)	0.275 (7mm)	M16
100019	RK-BT40-ISO75	ISO-Solid	K	0.748 (19mm)	0.551 (14mm)	75°	0.905 (23mm)	1.141 (29mm)	0.275 (7mm)	M16
100020	RK-BT40-DIN75C	DIN - Coolant-Through	J	0.748 (19mm)	0.551 (14mm)	75°	0.787 (20mm)	1.023 (26mm)	0.157 (4mm)	M16

RETENTION KNOBS (PULL STUDS) SUPERFORCE

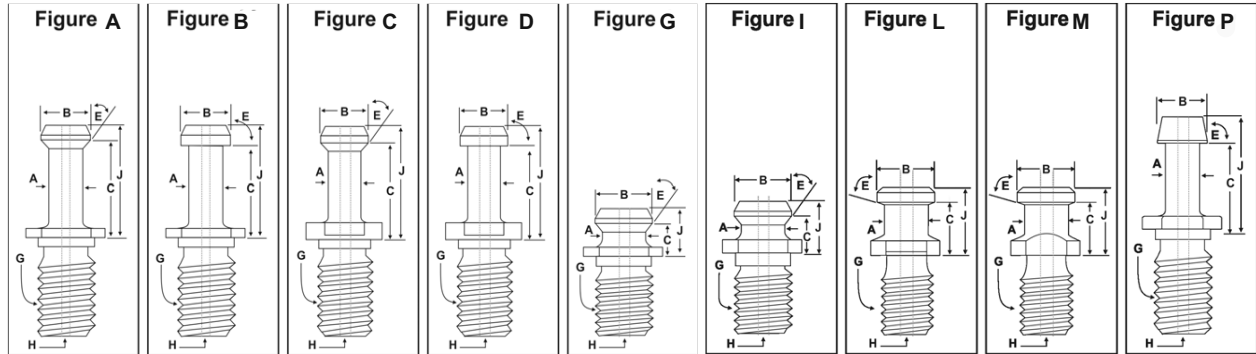
BT50 RETENTION KNOBS



PART NUMBER	DESCRIPTION	TYPE	FIGURE NUMBER	B	A	ANGLE E ^o	C	J	FLANGE THICK	THREADS G
100021	RK-BT50-MAS45C	MAS - Coolant-Through	E	0.905 (23mm)	0.669 (17mm)	45°	1.377 (35mm)	1.771 (45mm)	0.394 (10mm)	M24
100022	RK-BT50-MAS45	MAS-Solid	E	0.905 (23mm)	0.669 (17mm)	45°	1.377 (35mm)	1.771 (45mm)	0.394 (10mm)	M24
100023	RK-BT50-MAS60C	MAS - Coolant-Through	E	0.905 (23mm)	0.669 (17mm)	60°	1.377 (35mm)	1.771 (45mm)	0.394 (10mm)	M24
100024	RK-BT50-MAS60	MAS-Solid	E	0.905 (23mm)	0.669 (17mm)	60°	1.377 (35mm)	1.771 (45mm)	0.394 (10mm)	M24
100025	RK-BT50-MAS90C	MAS - Coolant-Through	F	0.905 (23mm)	0.669 (17mm)	90°	1.377 (35mm)	1.771 (45mm)	0.394 (10mm)	M24
100026	RK-BT50-MAS90	MAS-Solid	F	0.905 (23mm)	0.669 (17mm)	90°	1.377 (35mm)	1.771 (45mm)	0.394 (10mm)	M24
100027	RK-BT50-ANSI45C	ANSI - Coolant-Through	G	1.140 (29mm)	0.820 (20.8mm)	45°	0.700 (17.8mm)	1.000 (25.4mm)	0.200 (5.1mm)	M24
100028	RK-BT50-ANSI45	ANSI-Solid	G	1.140 (29mm)	0.820 (20.8mm)	45°	0.700 (17.8mm)	1.000 (25.4mm)	0.209 (5.3mm)	M24
100029	RK-BT50-DIN75	DIN-Solid	J	1.101 (28mm)	0.826 (21mm)	75°	0.984 (25mm)	1.338 (34mm)	-	M24
100030	RK-BT50-DIN75C	DIN - Coolant-Through	J	1.101 (28mm)	0.826 (21mm)	75°	0.984 (25mm)	1.338 (34mm)	-	M24
100031	RK-BT50-DIN90-MITSUBISHI	DIN-Solid	D	0.950 (24.1mm)	-	90°	0.905 (23mm)	1.220 (31mm)	0.200 (5.1mm)	M24

RETENTION KNOBS (PULL STUDS) SUPERFORCE

CAT40 RETENTION KNOBS



PART NUMBER	DESCRIPTION	TYPE	FIGURE NUMBER	B	A	ANGLE E ₂	C	J	FLANGE THICK	THREADS G
100032	RK-CAT40-MAS75TRK	MAS-Solid	C	0.748 (19mm)	0.551 (14mm)	75°	0.905 (23mm)	1.141 (29mm)	-	5/8"-11
100033	RK-CAT40-MAS45C-1	MAS - Coolant-Through	A	0.589 (15mm)	0.392 (10mm)	45°	0.989 (25.1mm)	1.265 (32.1mm)	0.125 (3.2mm)	5/8"-11
100034	RK-CAT40-MAS45-1	MAS-Solid	A	0.589 (15mm)	0.392 (10mm)	45°	0.989 (25.1mm)	1.265 (32.1mm)	0.125 (3.2mm)	5/8"-11
100035	RK-CAT40-MAS45C	MAS - Coolant-Through	C	0.589 (15mm)	0.392 (10mm)	45°	0.989 (25.1mm)	1.265 (32.1mm)	0.236 (6mm)	5/8"-11
100036	RK-CAT40-MAS45	MAS-Solid	C	0.589 (15mm)	0.392 (10mm)	45°	0.989 (25.1mm)	1.265 (32.1mm)	0.236 (6mm)	5/8"-11
100037	RK-CAT40-MAS60-1	MAS-Solid	A	0.589 (15mm)	0.392 (10mm)	60°	0.992 (25.2mm)	1.259 (32mm)	0.120 (3mm)	5/8"-11
100038	RK-CAT40-MAS60C-1	MAS - Coolant-Through	A	0.589 (15mm)	0.392 (10mm)	60°	0.992 (25.2mm)	1.259 (32mm)	0.120 (3mm)	5/8"-11
100039	RK-CAT40-MAS60C	MAS - Coolant-Through	C	0.589 (15mm)	0.392 (10mm)	60°	0.989 (25.1mm)	1.265 (32.1mm)	0.236 (6mm)	5/8"-11
100040	RK-CAT40-MAS60	MAS-Solid	C	0.589 (15mm)	0.392 (10mm)	60°	0.989 (25.1mm)	1.265 (32.1mm)	0.236 (6mm)	5/8"-11
100041	RK-CAT40-MAS90-2	MAS-Solid	B	0.589 (15mm)	0.392 (10mm)	90°	0.992 (25.2mm)	1.259 (32mm)	0.120 (3mm)	5/8"-11
100042	RK-CAT40-MAS90C-2	MAS - Coolant-Through	B	0.589 (15mm)	0.392 (10mm)	90°	0.992 (25.2mm)	1.259 (32mm)	0.120 (3mm)	5/8"-11
100043	RK-CAT40-MAS90-MITSUI	MAS-Solid	D	0.589 (15mm)	0.392 (10mm)	90°	0.708 (18mm)	0.98 (24.9mm)	0.200 (5.1mm)	5/8"-11
100044	RK-CAT40-MAS90-1	MAS-Solid	P	0.589 (15mm)	0.392 (10mm)	90°	0.775 (19.7mm)	1.051 (26.7mm)	0.200 (5.1mm)	5/8"-11
100045	RK-CAT40-MAS90C	MAS - Coolant-Through	D	0.589 (15mm)	0.392 (10mm)	90°	0.989 (25.1mm)	1.265 (32.1mm)	0.236 (6mm)	5/8"-11

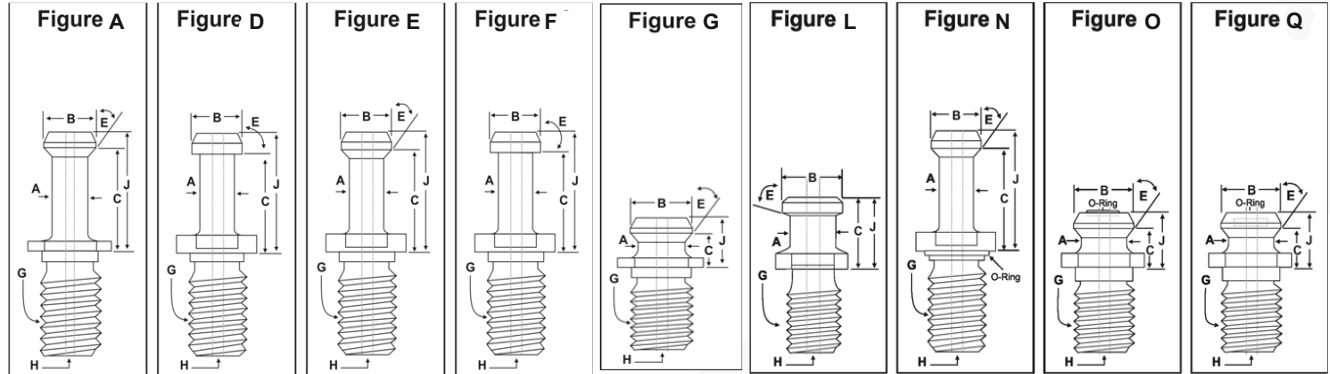
RETENTION KNOBS (PULL STUDS)

SUPERFORCE

PART NUMBER	DESCRIPTION	TYPE	FIGURE NUMBER	B	A	ANGLE E °	C	J	FLANGE THICK	THREADS G
100046	RK-CAT40-MAS90	MAS-Solid	D	0.589 (15mm)	0.392 (10mm)	90°	0.989 (25.1mm)	1.265 (32.1mm)	0.236 (6mm)	5/8"-11
100047	RK-CAT40-MAS45C-2	MAS - Coolant-Through	A	0.594 (15.1mm)	0.405 (10.3mm)	45°	1.139 (28.9mm)	1.436 (36.5mm)	0.187 (4.8mm)	5/8"-11
100048	RK-CAT40-MAS45-2	MAS-Solid	A	0.594 (15.1mm)	0.405 (10.3mm)	45°	1.139 (28.9mm)	1.436 (36.5mm)	0.187 (4.8mm)	5/8"-11
100049	RK-CAT40-ANSI45C	ANSI - Coolant-Through	G	0.740 (18.8mm)	0.490 (12.5mm)	45°	0.440 (11.2mm)	0.640 (16.3mm)	0.120 (3mm)	5/8"-11
100050	RK-CAT40-ANSI45	ANSI-Solid	G	0.740 (18.8mm)	0.490 (12.5mm)	45°	0.440 (11.2mm)	0.640 (16.3mm)	0.120 (3mm)	5/8"-11
100051	RK-CAT40-ANSI45C-1	ANSI - Coolant-Through	I	0.740 (18.8mm)	0.490 (12.5mm)	45°	0.440 (11.2mm)	0.640 (16.3mm)	0.120 (3mm)	5/8"-11
100052	RK-CAT40-ANSI45-1	ANSI-Solid	I	0.740 (18.8mm)	0.490 (12.5mm)	45°	0.440 (11.2mm)	0.640 (16.3mm)	0.120 (3mm)	5/8"-11
100053	RK-CAT40-ISO75C	ISO - Coolant-Through	L	0.747 (19mm)	0.551 (14mm)	75°	0.791 (20.1mm)	1.030 (26.2mm)	0.280 (7.1mm)	5/8"-11
100054	RK-CAT40-ISO75	ISO-Solid	L	0.747 (19mm)	0.551 (14mm)	75°	0.791 (20.1mm)	1.030 (26.2mm)	0.280 (7.1mm)	5/8"-11
100055	RK-CAT40-DIN75C	DIN - Coolant-Through	M	0.748 (19mm)	0.551 (14mm)	75°	0.787 (20mm)	1.023 (26mm)	0.157 (4mm)	5/8"-11

RETENTION KNOBS (PULL STUDS) SUPERFORCE

CAT50 RETENTION KNOBS



PART NUMBER	DESCRIPTION	TYPE	FIGURE NUMBER	B	A	ANGLE E _g	C	J	FLANGE THICK	THREADS G
100056	RK-CAT50-MAS45C	MAS - Coolant-Through	E	0.905 (23mm)	0.669 (17mm)	45°	1.385 (35.2mm)	1.779 (45.2mm)	0.390 (9.9mm)	1"- 8
100057	RK-CAT50-MAS45R	MAS-Solidwith O-Ring	N	0.905 (23mm)	0.669 (17mm)	45°	1.385 (35.2mm)	1.779 (45.2mm)	0.390 (9.9mm)	1"- 8
100058	RK-CAT50-MAS45	MAS-Solid	E	0.905 (23mm)	0.669 (17mm)	45°	1.385 (35.2mm)	1.779 (45.2mm)	0.390 (9.9mm)	1"- 8
100059	RK-CAT50-MAS60C	MAS - Coolant-Through	E	0.905 (23mm)	0.669 (17mm)	60°	1.385 (35.2mm)	1.771 (45mm)	0.390 (9.9mm)	1"- 8
100060	RK-CAT50-MAS60	MAS-Solid	E	0.905 (23mm)	0.669 (17mm)	60°	1.385 (35.2mm)	1.771 (45mm)	0.390 (9.9mm)	1"- 8
100061	RK-CAT50-MAS90-MAZAK	MAS-Solid	D	0.910 (23.1mm)	0.667 (16.9mm)	90°	1.385 (35.2mm)	1.779 (45.2mm)	0.690 (17.5mm)	1"- 8
100062	RK-CAT50-MAS90C	MAS - Coolant-Through	F	0.905 (23mm)	0.669 (17mm)	90°	1.385 (35.2mm)	1.771 (45mm)	0.390 (9.9mm)	1"- 8
100063	RK-CAT50-MAS90	MAS-Solid	F	0.905 (23mm)	0.669 (17mm)	90°	1.385 (35.2mm)	1.771 (45mm)	0.392 (9.96mm)	1"- 8
100064	RK-CAT50-ANSI45R	ANSI-Solidwith O-Rng	Q	1.14 0 (29mm)	0.820 (20.8mm)	45°	0.700 (17.8mm)	1.000 (25.4mm)	0.200 (5.08mm)	1"- 8
100065	RK-CAT50-ANSI45R-1	ANSI-Solidwith O-Rng	O	1.14 0 (29mm)	0.820 (20.8mm)	45°	0.700 (17.8mm)	1.000 (25.4mm)	0.200 (5.08mm)	1"- 8
100066	RK-CAT50-ANSI45C	ANSI - Coolant-Through	O	1.14 0 (29mm)	0.820 (20.8mm)	45°	0.700 (17.8mm)	1.000 (25.4mm)	0.200 (5.08mm)	1"- 8
100067	RK-CAT50-ANSI45C-1	ANSI - Coolant-Through	G	1.14 0 (29mm)	0.820 (20.8mm)	45°	0.706 (17.9mm)	1.000 (25.4mm)	0.200 (5.1mm)	1"- 8
100068	RK-CAT50-ANSI45R-2	ANSI-Solidwith O-Rng	O	1.14 0 (29mm)	0.820 (20.8mm)	45°	0.706 (17.9mm)	1.000 (25.4mm)	0.200 (5.1mm)	1"- 8
100069	RK-CAT50-ANSI45	ANSI-Solid	G	1.14 0 (29mm)	0.820 (20.8mm)	45°	0.706 (17.9mm)	1.000 (25.4mm)	0.204 (5.2mm)	1"- 8

RETENTION KNOBS (PULL STUDS)

SUPERFORCE

PART NUMBER	DESCRIPTION	TYPE	FIGURE NUMBER	B	A	ANGLE E °	C	J	FLANGE THICK	THREADS G
100070	RK-CAT50-ANSI45-LY	ANSI-Solid	G	1.14 0 (29mm)	0.820 (20.8mm)	45°	0.700 (17.8mm)	1.000 (25.4mm)	0.200 (5.1mm)	1" - 8
100071	RK-CAT50-ISO75C	ISO - Coolant-Through	L	1.100 (28mm)	0.826 (21mm)	75	0.992 (25.2mm)	1.350 (34.3mm)	0.280 (7.1mm)	1" - 8
100072	RK-CAT50-DIN75C	DIN - Coolant-Through	A	1.100 (28mm)	0.826 (21mm)	75	0.977 (24.8mm)	1.338 (34mm)	-	1" - 8
100073	RK-CAT50-90-MITSUI	MITSUI-Solid	A	0.940 (23.9mm)	0.706 (17.9mm)	90	0.903 (22.9mm)	1.218 (30.9mm)	#N/A	1" - 8
100074	RK-CAT50-90-MITSUI-1	MITSUI-Solid	D	0.940 (23.9mm)	0.708 (18mm)	90	0.905 (23mm)	1.220 (31mm)	0.200 (5.1mm)	1" - 8

LIVE (REVOLVING) CENTER - ULTRA PRECISION

CNC HEAVY DUTY LIVE CENTERS:



STUB POINT



EXTENDED POINT



PROFILED POINT



STUB POINT WITH
CARBIDE TIP



EXTENDED POINT
WITH CARBIDE TIP



WITH DRAW-OFF
NUT STUB POINT



WITH DRAW-OFF NUT
EXTENDED POINT

INTERCHANEABLE CNC HEAVY DUTY LIVE CENTERS:



STUB POINT



EXTENDED POINT



PROFILED POINT

SMALL CASING MEDIUM DUTY CNC LIVE CENTERS:



STUB POINT



EXTENDED POINT



PROFILED POINT

SLIMLINE MEDIUM DUTY CNC LIVE CENTERS:



STUB POINT



EXTENDED POINT



PROFILED POINT

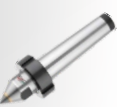
CNC DEAD CENTERS:



PLAIN STUB - WITH
DRAW OFF NUT



PLAIN EXTENDED -
WITH DRAW OFF NUT



CARBIDE TIPPED STUB
- WITH DRAW OFF NUT



CARBIDE TIPPED
EXTENDED - WITH
DRAW OFF NUT

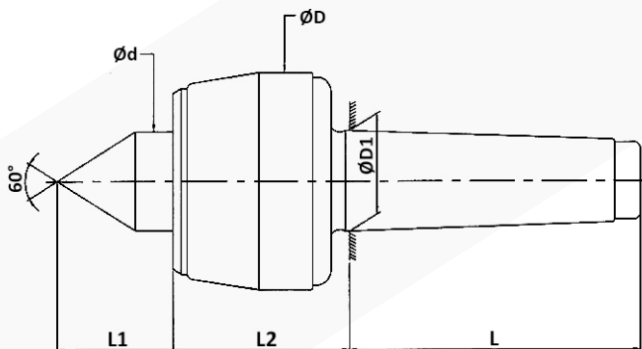
LIVE (REVOLVING) CENTER - ULTRA PRECISION

CNC HEAVY DUTY LIVE CENTERS

FEATURES :

- Proven 3-fold bearing for high axial and radial load
- Withstand high rpm
- Suitable for CNC and other high speed turning centers.
- Bearing used are of GERMAN / JAPANESE make.
- Bearing lubricated for life using KLUBER GERMANY make ISOFLEX NBU-15 Grease.
- Accuracy: within 0.0002" (0.005mm)
- Harden & Ground body

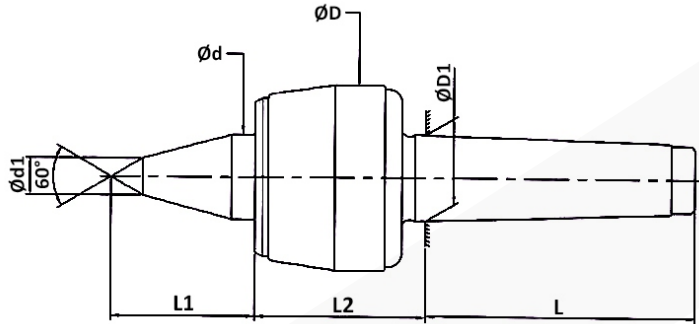
STUB POINT



PART NUMBER	TAPER	STYLE	d	D	D1	L1	L2	L	MAX. JOB WT, LBS	MAX. RPM
19000001	MT-2	Stub Point	0.787"	1.81"	0.70"	0.98"	2"	2.52"	440.00	7,000
19000002	MT-3	Stub Point	1.10"	2.44"	0.94"	1.34"	2.54"	3.19"	1,100.00	5,000
19000003	MT-4	Stub Point	1.26"	2.68"	1.23"	1.61"	2.56"	4.04"	1,760.00	3,800
19000004	MT-5	Stub Point	1.5"	3.43"	1.75"	2"	3.27"	5.1"	4,400.00	3,000
19000005	MT-6	Stub Point	1.97"	4"	2.5"	2.26"	4"	7.17"	7,700.00	2,600

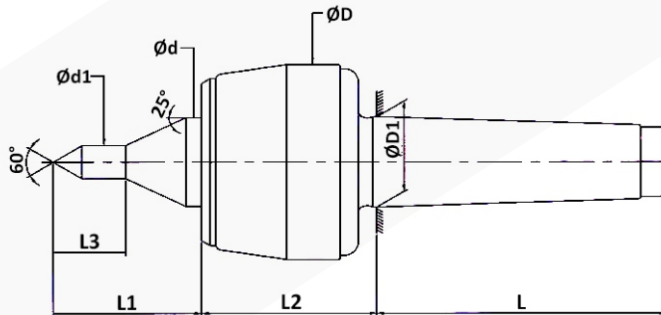
LIVE (REVOLVING) CENTER - ULTRA PRECISION

EXTENDED POINT



PART NUMBER	TAPER	STYLE	d1	d	D	D1	L1	L2	L	MAX. JOB WT. KG.	MAX. RPM
19000006	MT-2	Extended Point	0.39"	0.787"	1.81"	0.70"	1.38"	2"	2.52"	308.00	7,000
19000007	MT-3	Extended Point	0.47"	1.10"	2.44"	0.94"	2"	2.54"	3.19"	880.00	5,000
19000008	MT-4	Extended Point	0.55"	1.26"	2.68"	1.23"	2.15"	2.56"	4.04"	1,100.00	3,800
19000009	MT-5	Extended Point	0.63"	1.5"	3.43"	1.75"	2.56"	3.27"	5.1"	2,640.00	3,000
19000010	MT-6	Extended Point	0.71"	1.97"	4"	2.5"	3.74"	4"	7.17"	5,500.00	2,600

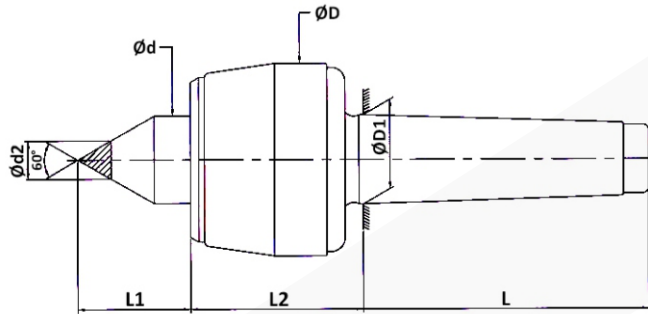
PROFILED POINT



PART NUMBER	TAPER	STYLE	d1	d	D	D1	L1	L2	L3	L	MAX. JOB WT. LBS	MAX. RPM
19000011	MT-2	Profiled Point	0.32"	0.787"	1.81"	0.70"	1.38"	2"	0.63"	2.52"	220.00	7,000
19000012	MT-3	Profiled Point	0.39"	1.10"	2.44"	0.94"	1.85"	2.54"	0.79"	3.19"	330.00	5,000
19000013	MT-4	Profiled Point	0.47"	1.26"	2.68"	1.23"	2.08"	2.56"	1.02"	4.04"	396.00	3,800
19000014	MT-5	Profiled Point	0.55"	1.5"	3.43"	1.75"	2.56"	3.27"	1.18"	5.1"	616.00	3,000

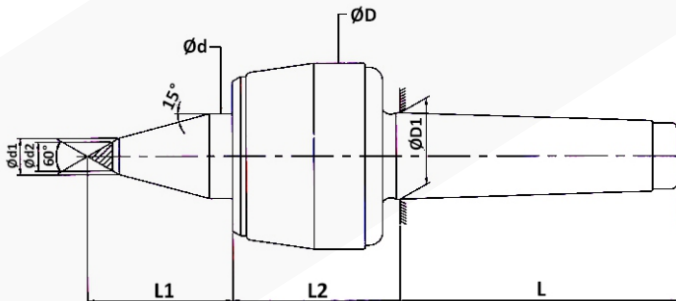
LIVE (REVOLVING) CENTER - ULTRA PRECISION

STUB WITH CARBIDE TIP



PART NUMBER	TAPER	STYLE	D2 CARBIDE TIP	d	D	D1	L1	L2	L	MAX. JOB WT, LBS	MAX. RPM
19000015	MT-3	Stub Carbide Point	0.55"	1.10"	2.44"	0.94"	1.34"	2.54"	3.19"	825.00	4,500
19000016	MT-4	Stub Carbide Point	0.55"	1.26"	2.68"	1.23"	1.61"	2.56"	4.04"	1,320.00	3,450
19000017	MT-5	Stub Carbide Point	0.71"	1.5"	3.42"	1.75"	2"	3.27"	5.1"	3,300.00	2,700
19000018	MT-6	Stub Carbide Point	0.71"	1.97"	4.02"	2.5"	2.26"	4"	7.17"	5,720.00	2,300

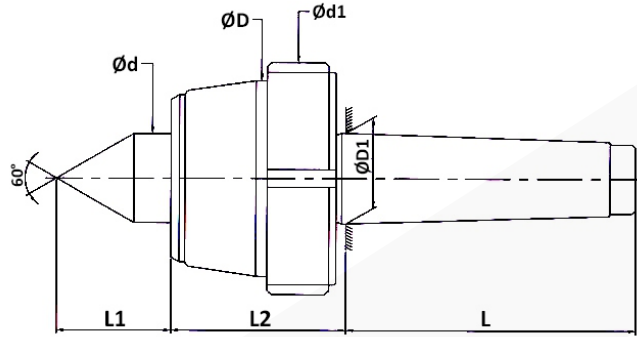
EXTENDED POINT WITH CARBIDE TIP



PART NUMBER	TAPER	STYLE	d1	d2 CARBIDE TIP	d	D	D1	L1	L2	L	MAX. JOB WT, LBS	MAX. RPM
19000019	MT-3	Extended Carbide Point	0.55"	0.43"	1.10"	2.44"	0.94"	2"	2.54"	3.19"	440.00	4,500
19000020	MT-4	Extended Carbide Point	0.55"	0.43"	1.26"	2.68"	1.23"	2.15"	2.56"	4.04"	495.00	3,450
19000021	MT-5	Extended Carbide Point	0.71"	0.55"	1.5"	3.42"	1.75"	2.56"	3.27"	5.1"	935.00	2,700
19000022	MT-6	Extended Carbide Point	0.87"	0.55"	1.97"	4.02"	2.5"	3.19"	4"	7.17"	1,980.00	2,300

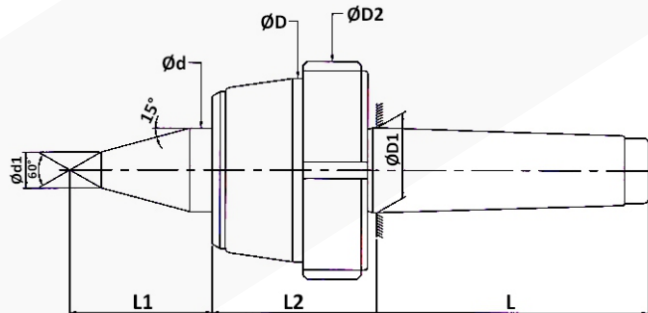
LIVE (REVOLVING) CENTER - ULTRA PRECISION

WITH DRAW-OFF NUT STUB POINT



PART NUMBER	TAPER	STYLE	d	D	D1	D2	L1	L2	L	MAX. JOB WT, LBS	MAX. RPM
19000023	MT-3	Stub Point	1.10"	2.44"	0.94"	2.95"	1.34"	2.54"	3.19"	1,100.00	5,000
19000024	MT-4	Stub Point	1.26"	2.68"	1.23"	3.27"	1.61"	2.56"	4.04"	1,760.00	3,800
19000025	MT-5	Stub Point	1.5"	3.43"	1.75"	4.09"	2"	3.27"	5.1"	4,400.00	3,000
19000026	MT-6	Stub Point	1.97"	4"	2.5"	4.80"	2.26"	4"	7.17"	7,700.00	2,600

WITH DRAW OFF NUT EXTENDED POINT



PART NUMBER	TAPER	STYLE	d1	d	D	D1	D2	L1	L2	L	MAX. JOB WT, LBS	MAX. RPM
19000027	MT-3	Extended Point	0.47"	1.10"	2.44"	0.94"	2.95"	2"	2.54"	3.19"	880.00	5,000
19000028	MT-4	Extended Point	0.55"	1.26"	2.68"	1.23"	3.27"	2.15"	2.56"	4.04"	1,100.00	3,800
19000029	MT-5	Extended Point	0.63"	1.5"	3.43"	1.75"	4.09"	2.56"	3.27"	5.1"	2,640.00	3,000
19000030	MT-6	Extended Point	0.71"	1.97"	4"	2.5"	4.80"	3.74"	4"	7.17"	5,500.00	2,600

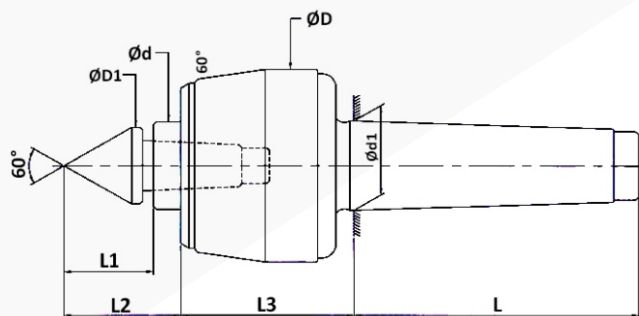
LIVE (REVOLVING) CENTER - ULTRA PRECISION

INTERCHANEABLE CNC HEAVY DUTY LIVE CENTERS

FEATURES :

- Proven 3-fold bearing for high axial and radial load
- Wide range of applications because of interchangeable inserts
- Quick change of interchangeable inserts
- Withstand high rpm
- Suitable for CNC and other high speed turning centers.
- Bearing used are of GERMAN / JAPANESE make.
- Bearing lubricated for life using KLUBER GERMANY make ISOFLEX NBU-15 Grease.
- Accuracy: within 0.0003" (0.008mm)
- Harden & Ground body
- Inserts are through-hardened & ground

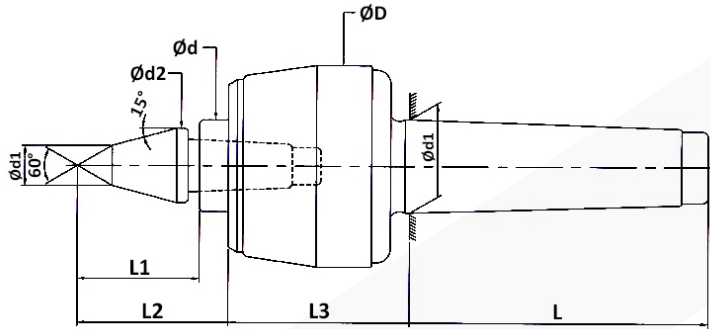
STUB POINT



PART NUMBER	TAPER	STYLE	INTERNAL FEMALE STYLE	d	d1	D	D1	L1	L2	D2	L3	MAX. JOB WT, LBS	MAX. RPM
19000031	MT-3	Stub Point	01:10	0.95"	1.10"	2.48"	0.94"	1.10"	1.50"	2.46"	3.19"	330.00	5,000
19000032	MT-4	Stub Point	01:10	1.10"	1.26"	2.68"	1.23"	1.28"	1.67"	2.56"	4.04"	550.00	3,800
19000033	MT-5	Stub Point	01:10	1.34"	1.50"	3.43"	1.75"	1.61"	2.00"	3.17"	5.1"	1,430.00	3,000

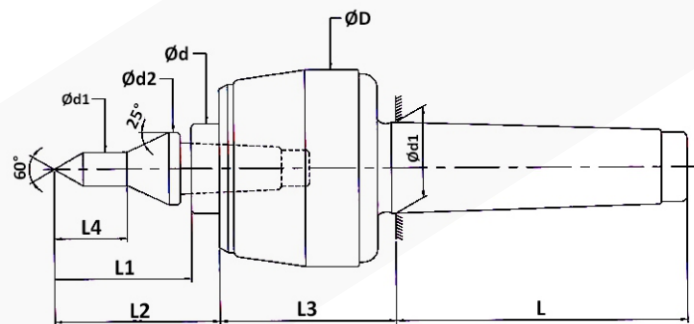
LIVE (REVOLVING) CENTER - ULTRA PRECISION

EXTENDED POINT



PART NUMBER	TAPER	STYLE	INTERNAL FEMALE STYLE	d1	d	d2	D	D1	L1	L2	L3	L	MAX. JOB WT, LBS	MAX. RPM
19000034	MT-3	Extended Point	01:10	0.47"	1.10"	0.87"	2.48"	0.94"	1.44"	1.83"	2.46"	3.19"	220.00	5,000
19000035	MT-4	Extended Point	01:10	0.55"	1.26"	1.02"	2.68"	1.23"	1.67"	2.07"	2.56"	4.04"	440.00	3,800
19000036	MT-5	Extended Point	01:10	0.63"	1.50"	1.26"	3.43"	1.75"	4.05"	2.44"	3.17"	5.1"	880.00	3,000

PROFILED POINT



PART NUMBER	TAPER	STYLE	INTERNAL FEMALE STYLE	d1	d	D2	D	D1	L1	L2	L3	L4	L	MAX. JOB WT, LBS	MAX. RPM
19000037	MT-3	Profiled Point	01:10	0.39"	1.10"	0.87"	2.48"	0.94"	1.57"	1.97"	2.46"	0.79"	3.19"	110.00	5,000
19000038	MT-4	Profiled Point	01:10	0.47"	1.26"	1.02"	2.68"	1.23"	1.93"	2.32"	2.56"	1.02"	4.04"	275.00	3,800
19000039	MT-5	Profiled Point	01:10	0.55"	1.50"	1.26"	3.43"	1.75"	2.24"	2.64"	3.17"	1.18"	5.1"	440.00	3,000

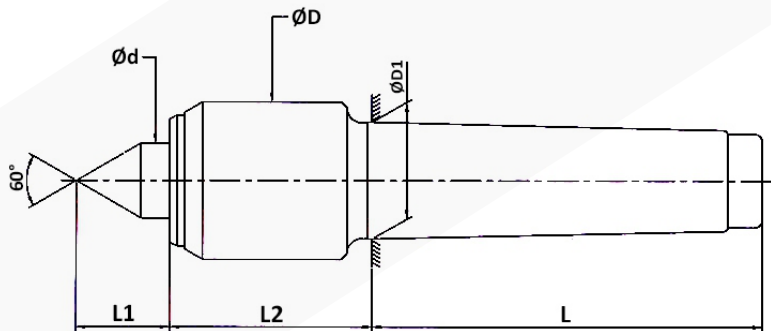
LIVE (REVOLVING) CENTER - ULTRA PRECISION

SMALL CASING MEDIUM DUTY CNC LIVE CENTERS

FEATURES :

- Proven 3-fold bearing for high axial and radial load
- Withstand higher rpm than CNC Heavy Duty model
- withstand higher rpm than CNC Heavy Duty model
- Bearing used are of GERMAN / JAPANESE make.
- Bearing lubricated for life using KLUBER GERMANY make ISOFLEX NBU-15 Grease.
- Accuracy: within 0.0002" (0.005mm)
- Harden & Ground body
- For medium & light duty load

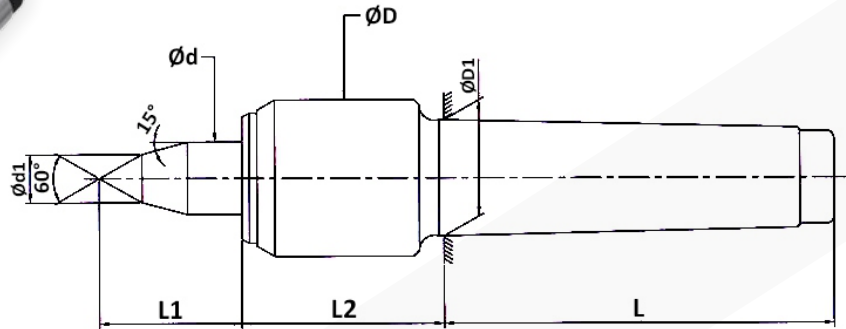
STUB POINT



PART NUMBER	TAPER	STYLE	d	D	D1	L1	L2	L	MAX. JOB WT, LBS	MAX. RPM
19000040	MT-2	Stub Point	0.59"	1.34"	0.70"	0.75"	1.79"	2.52"	440.00	7,000
19000041	MT-3	Stub Point	0.59"	1.34"	0.94"	0.75"	1.79"	3.19"	880.00	7,000
19000042	MT-4	Stub Point	0.79"	1.65"	1.23"	0.98"	2.11"	4.04"	1,760.00	6,300
19000043	MT-5	Stub Point	1.26"	2.68"	1.75"	1.61"	3.01"	5.10"	3,520.00	4,300
19000044	MT-6	Stub Point	1.97"	4.02"	2.49"	2.28"	4.09"	7.17"	7,700.00	3,000

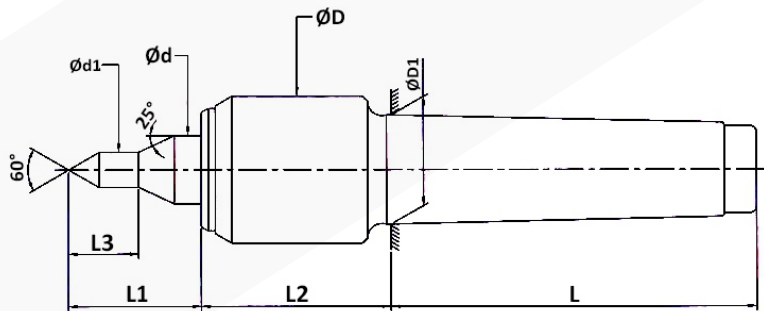
LIVE (REVOLVING) CENTER - ULTRA PRECISION

EXTENDED POINT



PART NUMBER	TAPER	STYLE	d1	d	D	D1	L1	L2	L	MAX. JOB WT, LBS	MAX. RPM
19000045	MT-2	Extended Point	0.39"	0.59"	1.34"	0.70"	0.75"	1.14"	2.52"	275.00	6,300
19000046	MT-3	Extended Point	0.43"	0.59"	1.34"	0.94"	0.75"	1.18"	3.19"	550.00	6,300
19000047	MT-4	Extended Point	0.51"	0.79"	1.65"	1.23"	0.98"	1.49"	4.04"	825.00	5,600
19000048	MT-5	Extended Point	0.55"	1.26"	2.68"	1.75"	1.61"	2.09"	5.10"	1,980.00	3,300

PROFILED POINT



PART NUMBER	TAPER	STYLE	d1	d	D	D1	L1	L2	L3	L	MAX. JOB WT, LBS	MAX. RPM
19000049	MT-2	Profiled Point	0.39"	0.59"	0.24"	0.70"	0.75"	1.14"	0.47"	2.52"	275.00	6,300
19000050	MT-3	Profiled Point	0.43"	0.59"	0.31"	0.94"	0.75"	1.18"	0.63"	3.19"	550.00	6,300
19000051	MT-4	Profiled Point	0.51"	0.79"	0.39"	1.23"	0.98"	1.49"	0.79"	4.04"	825.00	5,600
19000052	MT-5	Profiled Point	0.55"	1.26"	0.55"	1.75"	1.61"	2.09"	1.10"	5.10"	1,980.00	3,300

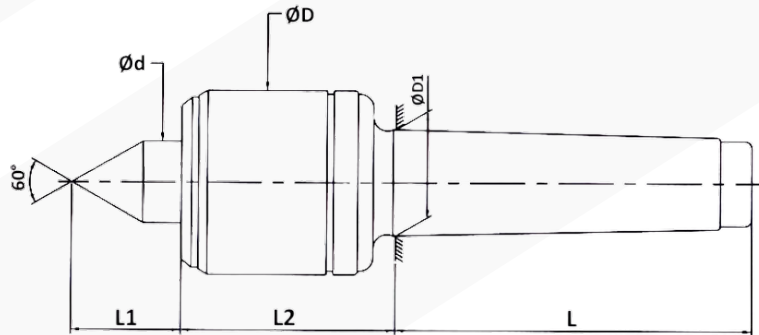
LIVE (REVOLVING) CENTER - ULTRA PRECISION

SLIMLINE MEDIUM DUTY CNC LIVE CENTERS

FEATURES :

- Proven 3-fold bearing for high axial and radial load
- Maximum rigidity at high speeds
- Suitable for CNC and other high speed turning centers.
- Bearing used are of GERMAN / JAPANESE make.
- Bearing lubricated for life using KLUBER GERMANY make ISOFLEX NBU-15 Grease.
- Accuracy: within 0.0002" (0.005mm)
- Harden & Ground body
- For medium duty load - better load carrying capacity than Small Casing Model

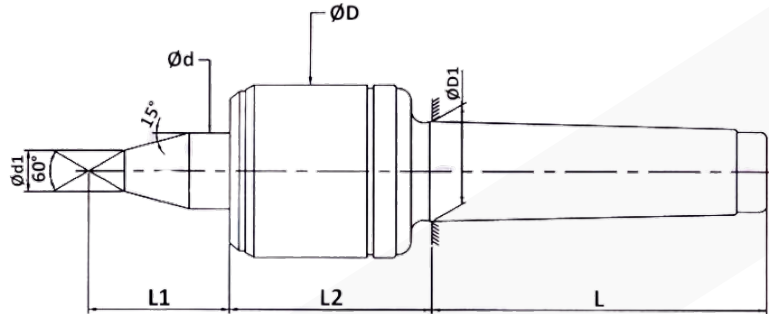
STUB POINT



PART NUMBER	TAPER	STYLE	d	D	D1	L1	L2	L	MAX. JOB WT, LBS	MAX. RPM
19000053	MT-3	Stub Point	0.79"	1.65"	0.94"	1.02"	2.05"	3.19"	990.00	6,300
19000054	MT-4	Stub Point	0.94"	2.13"	1.23"	1.26"	2.48"	4.04"	1,760.00	4,500
19000055	MT-5	Stub Point	1.50"	2.64"	1.75"	2.01"	3.60"	5.10"	4,400.00	2,800
19000056	MT-6	Stub Point	2.34"	4.92"	2.49"	2.68"	4.23"	7.17"	11,000.00	1,900

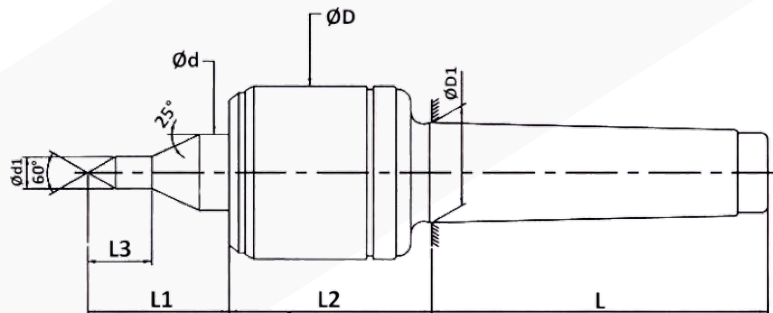
LIVE (REVOLVING) CENTER - ULTRA PRECISION

EXTENDED POINT



PART NUMBER	TAPER	STYLE	d	d1	D	D1	L1	L2	L	MAX. JOB WT, LBS	MAX. RPM
19000057	MT-3	Extended Point	0.43"	0.59"	1.34"	0.70"	1.50"	1.14"	2.52"	550.00	5,750
19000058	MT-4	Extended Point	0.51"	0.59"	1.34"	0.94"	1.73"	1.18"	3.19"	825.00	4,500
19000059	MT-5	Extended Point	0.63"	0.79"	1.65"	1.23"	2.56"	1.49"	4.04"	1,980.00	2,700
19000060	MT-6	Extended Point	0.87"	1.26"	2.68"	1.75"	3.94"	2.09"	5.10"	4,400.00	1,750

PROFILED POINT



PART NUMBER	TAPER	STYLE	d	d1	D	D1	L1	L2	L	MAX. JOB WT, LBS	MAX. RPM
19000061	MT-3	Profile Point	0.43"	0.59"	1.34"	0.70"	1.50"	1.14"	2.52"	550.00	5,750
19000062	MT-4	Profile Point	0.51"	0.59"	1.34"	0.94"	1.73"	1.18"	2.52"	825.00	4,500
19000063	MT-5	Profile Point	0.63"	0.79"	1.65"	1.23"	2.56"	1.49"	2.52"	1,980.00	2,700
19000064	MT-6	Profile Point	0.87"	1.26"	2.68"	1.75"	3.94"	2.09"	2.52"	4,400.00	1,750

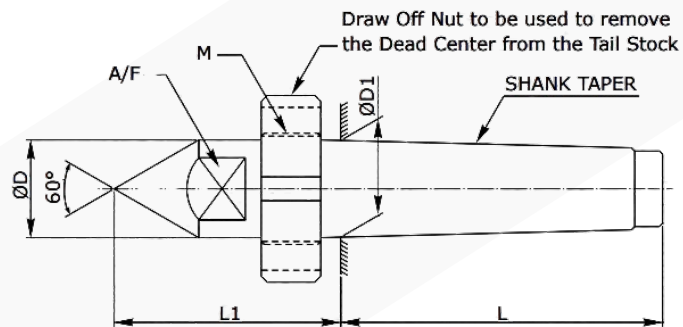
CNC DEAD CENTER - ULTRA PRECISION

CNC DEAD CENTERS

FEATURES :

- Dead Centers are hardened & ground
- Accuracy: below 0.0002" (0.005mm)
- Draw Off nut to be used to remove the Dead Center from the Tail Stock
- High wear resistance thanks to tool steel / carbide tip

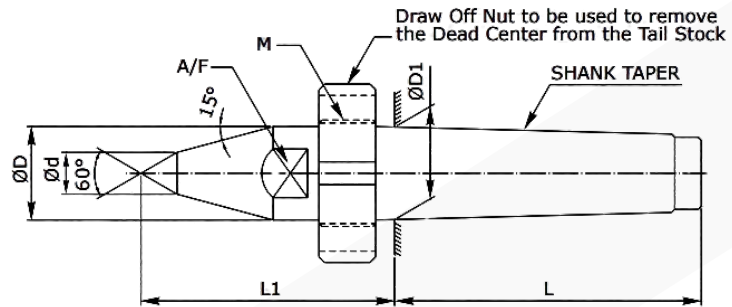
PLAIN STUB - WITH DRAW OFF NUT



PART NUMBER	TAPER	STYLE	D	D1	L	L1	THREADS M	A/F
19000101	MT-2	Stub Point	0.71"	0.70"	2.52"	1.89"	M22 X 1.5	0.55"
19000102	MT-3	Stub Point	0.95"	0.94"	3.19"	2.24"	M27 X 1.5	0.75"
19000103	MT-4	Stub Point	1.24"	1.23"	4.04"	2.85"	M36 X 1.5	1.06"
19000104	MT-5	Stub Point	1.76"	1.75"	5.1"	3.44"	M48 X 1.5	1.42"
19000105	MT-6	Stub Point	2.51"	2.49"	7.17"	4.25"	M68 X 1.5	2.17"

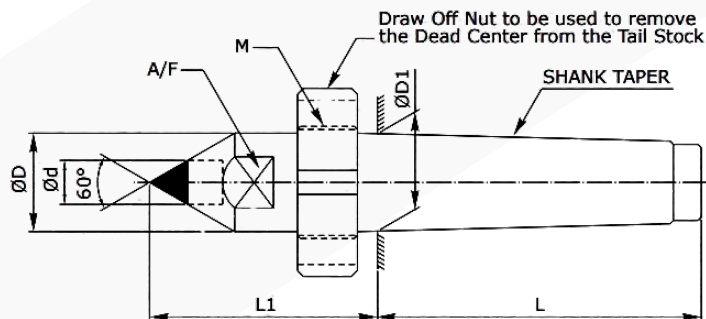
CNC DEAD CENTER - ULTRA PRECISION

PLAIN EXTENDED - WITH DRAW OFF NUT



PART NUMBER	TAPER	STYLE	d	D	D1	L	L1	THREADS M	A/F
19000106	MT-2	Extended Point	0.31"	0.71"	0.70"	2.52"	2.05"	M22 X 1.5	0.59"
19000107	MT-3	Extended Point	0.43"	0.95"	0.94"	3.19"	2.64"	M27 X 1.5	0.83"
19000108	MT-4	Extended Point	0.55"	1.24"	1.24"	4.04"	3.29"	M36 X 1.5	1.10"
19000109	MT-5	Extended Point	0.71"	1.76"	1.75"	5.1"	4.21"	M48 X 1.5	1.57"
19000110	MT-6	Extended Point	0.79"	2.51"	2.49"	7.17"	5.71"	M68 X 1.5	2.17"

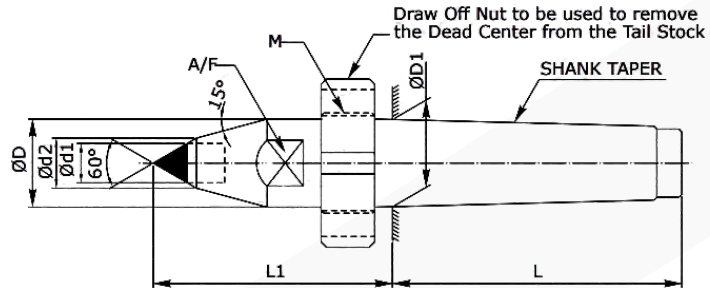
CARBIDE TIPPED STUB - WITH DRAW OFF NUT



PART NUMBER	TAPER	STYLE	Carbide Tip d	D	D1	L	L1	THREADS M	A/F
19000115	MT-2	Stub Carbide Point	0.31"	0.71"	0.70"	2.52"	1.89"	M22 X 1.5	0.55"
19000116	MT-3	Stub Carbide Point	0.43"	0.95"	0.94"	3.19"	2.24"	M27 X 1.5	0.75"
19000117	MT-4	Stub Carbide Point	0.55"	1.24"	1.23"	4.04"	2.85"	M36 X 1.5	1.06"
19000118	MT-5	Stub Carbide Point	0.71"	1.76"	1.75"	5.1"	3.44"	M48 X 1.5	1.42"
19000119	MT-6	Stub Carbide Point	0.71"	2.51"	2.49"	7.17"	4.25"	M68 X 1.5	2.17"

CNC DEAD CENTER - ULTRA PRECISION

■ CARBIDE TIPPED EXTENDED - WITH DRAW OFF NUT

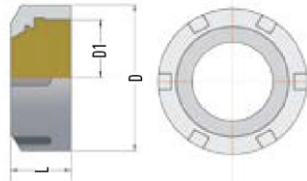


PART NUMBER	TAPER	STYLE	Carbide Tip d1	d2	D	D1	L	L1	THREADS M	A/F
19000120	MT-2	Extended Point	0.31"	0.43"	0.71"	0.70"	2.52"	2.05"	M22 X 1.5	0.59"
19000121	MT-3	Extended Point	0.43"	0.55"	0.95"	0.94"	3.19"	2.64"	M27 X 1.5	0.83"
19000122	MT-4	Extended Point	0.43"	0.55"	1.24"	1.23"	4.04"	3.29"	M36 X 1.5	1.10"
19000123	MT-5	Extended Point	0.55"	0.71"	1.76"	1.75"	5.1"	4.21"	M48 X 1.5	1.57"
19000124	MT-6	Extended Point	0.71"	0.87"	2.51"	2.49"	7.17"	5.71"	M68 X 1.5	2.17"

ER NUT

- BALANCED TO 25,000 RPM

ER SLOTTED UM TYPE NUTS

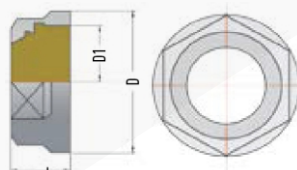


E-COMMERCE
WEB PAGE

ER NUT

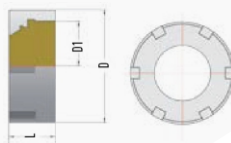
PART NUMBER	DESCRIPTION	D(MM)	D1(MM)	L(MM)	T	WT(KG)
111008-16	ER16 Slotted (UM) Balanced Nut	32	26	17	M22X1.5	0.05
111008-20	ER20 Slotted (UM) Balanced Nut	35	29	17	M25X1.5	0.1
111008	ER25 Slotted (UM) Balanced Nut	42	36	17	M32X1.5	0.14
111009	ER32 Slotted (UM) Balanced Nut	50	44	22.5	M40X1.5	0.2
111010	ER40 Slotted (UM) Balanced Nut	63	57	22.5	M50X1.5	0.3
111011	ER50 Slotted (UM) Balanced Nut	78	71	35.5	M64X2	0.5

ER HEX NUTS



PART NUMBER	DESCRIPTION	D(MM)	D1(MM)	L(MM)	T	WT(KG)
111001	ER11 Hex Balanced Nut	19	17	11.3	M14X0.75	0.005
111003	ER16 Hex Balanced Nut	28	25	17.5	M22X1.5	0.01
111005	ER20 Hex Balanced Nut	34	30	19	M25X1.5	0.05

ER MINI NUTS



PART NUMBER	DESCRIPTION	D(MM)	D1(MM)	L(MM)	T	WT(KG)
111012	ER8 Mini Balanced Nut	12	10	10	M10X0.75	0.005
111002	ER11 Mini Balanced Nut	16	12	12	M13X0.75	0.01
111004	ER16 Mini Balanced Nut	22	17.2	18	M19X1	0.05
111006	ER20 Mini Balanced Nut	28	22.5	19	M24X1	0.05
111007	ER25 Mini Balanced Nut	35	28.6	20	M30X1	0.08

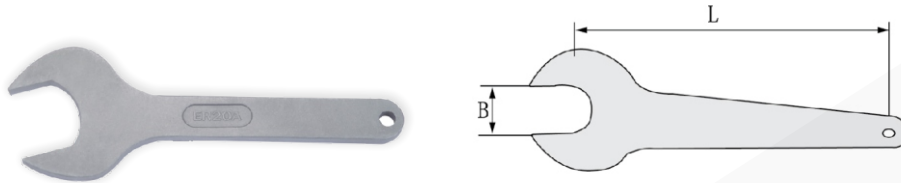
ER WRENCHES



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HEX SPANNER / WRENCH



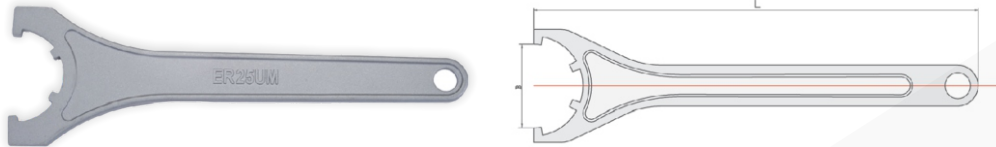
PART NUMBER	DESCRIPTION	B	L
111501	ER11-HEX Wrench	17	110
111503	ER16-HEX Wrench	25	120
111505	ER20-HEX Wrench	30	130

MINI SPANNER / WRENCH



PART NUMBER	DESCRIPTION	B	L
111515	ER8-MINI Wrench	7.5	70
111502	ER11-MINI Wrench	11	90
111504	ER16-MINI Wrench	15	110
111506	ER20-MINI Wrench	19.5	120
111507	ER25-MINI Wrench	25	130

UM-SPANNER / WRENCH



PART NUMBER	DESCRIPTION	B	L
111503-UM	ER16-UM Wrench	26	180
111505-UM	ER20-UM Wrench	30	190
111508	ER25-UM Wrench	37	210
111510	ER32-UM Wrench	46.5	250
111512	ER40-UM Wrench	58	290
111514	ER50-UM Wrench	74	350

C-HOOK SPANNER / WRENCH



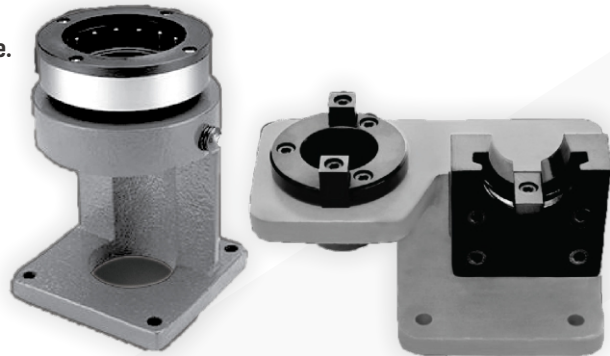
PART NUMBER	DESCRIPTION	B	L
111508-C	ER25-C Wrench	168	38-42
111509	ER32-C Wrench	190	45-52
111511	ER40-C Wrench	210	55-63
111513	ER50-C Wrench	240	78-85

TOOL LOCKING DEVICES



PAC CERTIFIED QUALITY

Each holder comes with Inspection Certificate.
PAC Certified For Quality.



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PART NUMBER	TYPE
BT30-TLD	BT30
BT40-TLD	BT40
BT50-TLD	BT50
SK40-TLD	SK40
SK50-TLD	SK50
CAT40-TLD	CAT40
CAT50-TLD	CAT50
HSK63A-TLD	HSK63A
HSK100A-TLD	HSK100A

SPINDLE WIPER

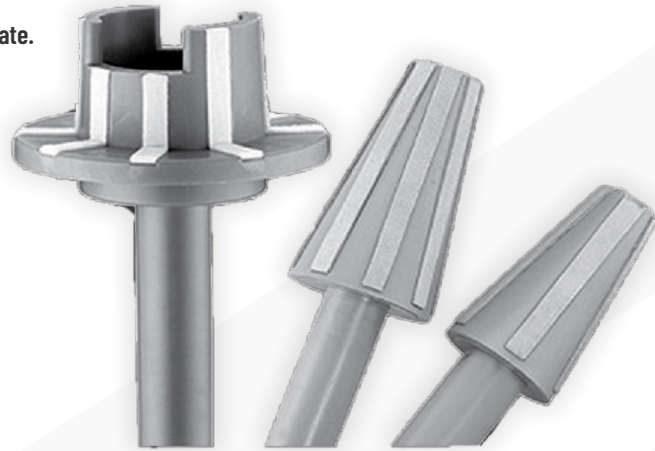


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PAC CERTIFIED QUALITY



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FEATURES :

- Two materials: non-woven fabric and wool. The latter can prevent static electricity when cleaning the spindle taper and has better use life and cleaning effect.

PART NUMBER	TYPE
111602	CAT/BT 30 Taper Wiper
111603	CAT/BT 40 Taper Wiper
111601	CAT/BT 50 Taper Wiper
111605-H50	HSK50 Taper Wiper
111604-H63	HSK63 Taper Wiper
111605-H100	HSK100 Taper Wiper





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