SHRINK-FIT HOLDER SLIMLINE

Freely combine Master Holders and Collets

Modular system

# 2 PIECE TYPE

## The optimum design for small and high-speed machining centers

### 2 PIECE TYPE mini NEW

Easy Storage | Lightweight | Affordable


**mini 6 type**
Ultra-small, lightweight


**mini 8 type**
Small, lightweight


**12 type**
Standard

MST

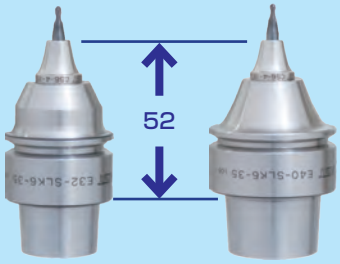
MST corporation

1208E

# mini 6 type mini 8 type

Lightweight・Compact・Affordable
modular type 2-piece system

## Ideal for small, high-speed machining centers

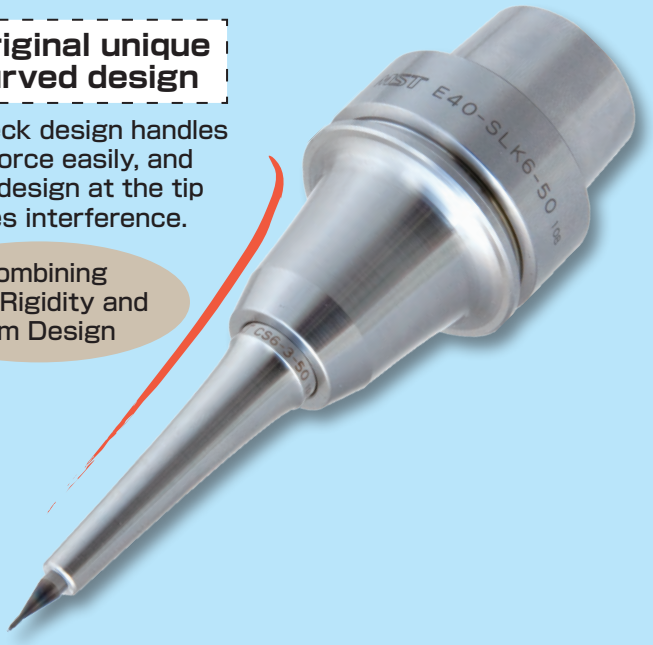


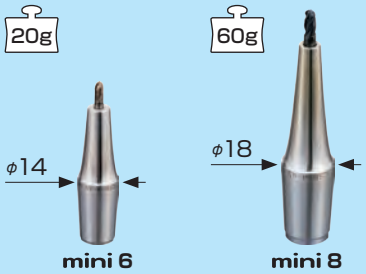

Shortest, 52

## Original unique curved design

Large neck design handles cutting force easily, and the slim design at the tip eliminates interference.

Combining High Rigidity and Slim Design



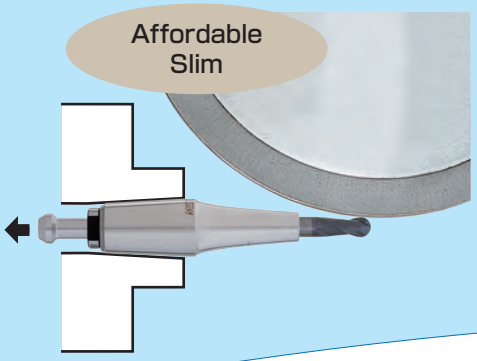



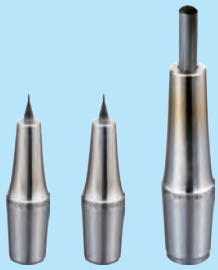

Compact Lightweight

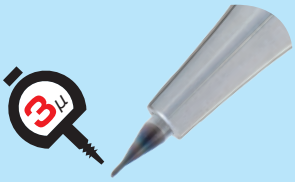
## The optimum design for small and high-speed machining centers

Achieves superior accuracy for tool grinding applications thanks to proximity to the grinding wheel.

Affordable Slim





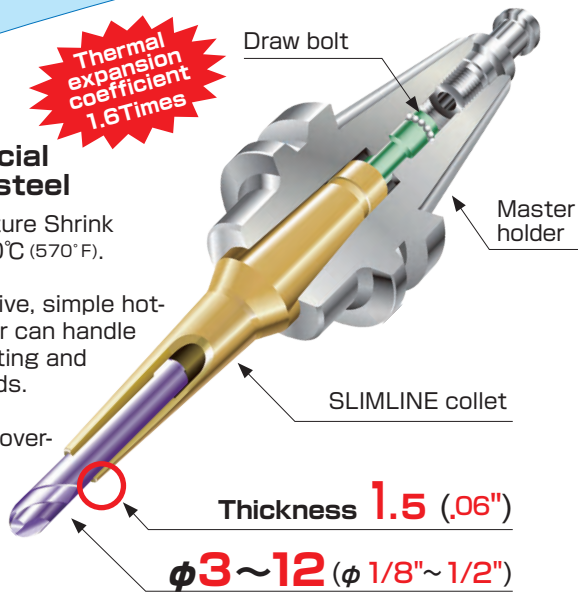



High Accuracy

## SHRINK-FIT HOLDER SLIMLINE 2 PIECE TYPE

SLIMLINE is a shrink-fit system that holds a cutting tool firmly and accurately by making use of the difference in thermal expansion coefficients between the holder (special steel) and the cutting tool (carbide). There are no nuts, collets or collet chucks in the cutting tool mounting portion. SLIMLINE's simple, ultra-slim shape allows the shortest possible cutter overhang, providing strong, stable clamping strength while maintaining high precision. The SLIMLINE collet can be set using the draw screw on the main body, and then combined with shanks of various shapes. Compared to the built-in type of holder, it is compact, slim, and lightweight, and it is easy to store and maintain.

Thermal expansion coefficient 1.6Times




### Using special stainless steel

Low-Temperature Shrink Fitting at 300℃ (570°F).

This inexpensive, simple hot-air type heater can handle your shrink-fitting and releasing needs.

No worries of over-heating with SLIMLINE.



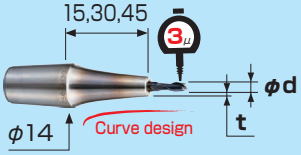
MST

## mini 6 type
Ultra small, lightweight

φd = φ3~6


Slim type 15,30,45

CS




φd = 3, 4, 6
t = 1.5

Regular type 30, 45

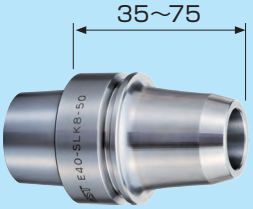
CR

φd = 3, 4, 6
t = 2.25, 3

| E32 | E40 | E50 | F63 | |
|---|---|---|---|---|
| | A40 | A50 | A63 | A100 |
| | | BT30 | BT40 | BT50 |

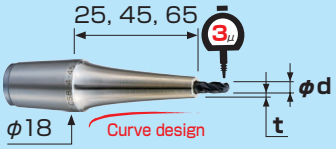
## mini 8 type
Small, lightweight

φd = φ3~8




Slim type 25, 45, 65

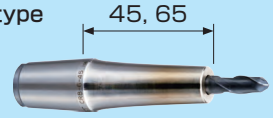
CS




φd = 3, 4, 6, 8
t = 1.5

Regular type 45, 65

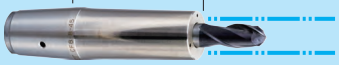
CR



φd = 3, 4, 6, 8
t = 2.25, 3

Flush type 45, 65

CF



φd = 3, 4, 6, 8
t = 3.25, 4

| E32 | E40 | E50 | F63 | |
|---|---|---|---|---|
| | A40 | A50 | A63 | A100 |
| | | BT30 | BT40 | BT50 |

## 12 type
Standard

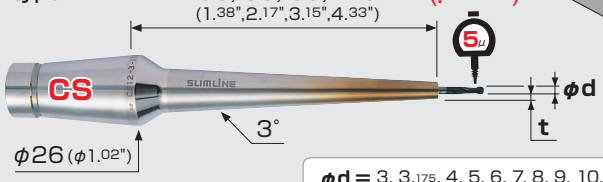
φd = φ3~12
(φ1/8"~1/2")

Basic type 35~135
(1.38"~5.31")


Coolant-through type with nozzle 45~135
(1.77"~5.31")


Slim type 35, 55, 80, 110
(1.38",2.17",3.15",4.33")

CS




φd = 3, 3.175, 4, 5, 6, 7, 8, 9, 10, 11, 12
(1/8", 3/16", 1/4", 5/16", 3/8", 1/2")
t = 1.5 (.06")

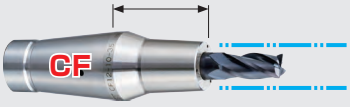
Regular type 35, 55, 80
(1.38",2.17",3.15")

CR

φd = 3, 4, 6, 8, 10, 12
(1/8",3/16",1/4",5/16", 3/8",1/2")
t = 2.25, 3, 4 (.09", .12", .16")

Flush type 35, 55, 80
(1.38",2.17",3.15")

CF



φd = 3, 4, 6, 8, 10, 12
(1/8",3/16",1/4",5/16", 3/8",1/2")
t = 3.25, 4 (.13", .16")

| E32 | E40 | E50 | F63 | |
|---|---|---|---|---|
| | A40 | A50 | A63 | A100 |
| | | BT30 | BT40 | BT50 |
| | | | DN40 | DN50 |
| | | | CT40 | CT50 |

# Master Holder mini 6 type


E32-SLK6-35

Fig. 1

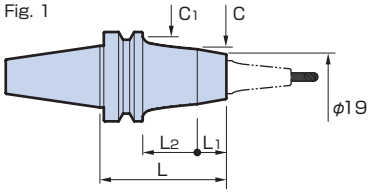
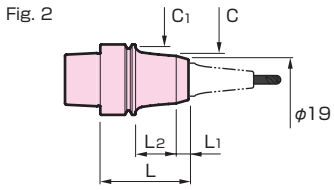


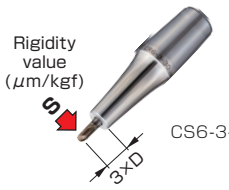

Fig. 2



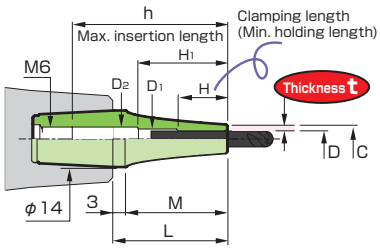

| CODE | Fig. | L | $L_1$ | $L_2$ | φ C | φ $C_1$ | Kg | In Balance Value (g•mm) |
|---|---|---|---|---|---|---|---|---|
| BT30-SLK 6-35-MAS1 | 1 | 35 | 13 | — | — | 34 | 0.5 | 1.4 |
| -MAS2 | | | | | | | | |
| -65-MAS1 | | 65 | 15 | 28 | 25.1 | | 0.6 | 2.2 |
| -MAS2 | | | | | | | | |
| A 40-SLK 6-37 | 2 | 37 | 17 | — | — | 34 | 0.2 | 3 |
| -50 | | 50 | 7 | 23 | 23.5 | | 0.3 | 3.9 |
| A 50-SLK 6-42 | | 42 | 16 | — | — | 42 | 0.4 | 5.3 |
| -55 | | 55 | 7 | 22 | 24.6 | | 0.5 | 6.4 |
| E 32-SLK 6-37 | | 37 | | 10 | 26 | — | 0.2 | 1.3 |
| -50 | | 50 | | 23 | | | | 2.2 |
| E 40-SLK 6-37 | | 37 | 17 | — | — | 34 | 0.3 | 1.7 |
| -50 | | 50 | 7 | 23 | 23.5 | | | 2.6 |
| E 50-SLK 6-42 | | 42 | 16 | — | — | 42 | 0.5 | 3.4 |
| -55 | | 55 | 7 | 22 | 24.6 | | 0.6 | 4.4 |

■ Option • SLIMLINE collet mini 6 type • Wrench
■ Standard accessories • Coolant duct(HSK-A) • Retention knob(BT30)
■ Note • A dedicated retention knob is supplied with the BT30 as a standard accessory.
When ordering, specify machine maker name and model number.
To replace the extension knob, please contact us.

# SLIMLINE collet mini 6 type




CS6-3-30




## CS6 Slim type

| CODE | φD | φC | t | L | M | H | S | In Balance Value (g•mm) | g | h | φ$D_1$ | φ$D_2$ | $H_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CS 6 -3 -15 | 3 | 6 | 1.5 | 15 | 12 | 9 | 1.5 | 0.1 | 20 | 24 | 5.1 | — | — |
| -30 | | | | 30 | 27 | | 3.2 | 0.2 | 30 | 39 | 4 | 5.1 | 25 |
| -45 | | | | 45 | 42 | | 9 | 0.3 | 40 | 54 | | | 30 |
| CS 6 -4 -15 | 4 | 7 | 1.5 | 15 | 12 | 12 | 1.2 | 0.1 | 30 | 24 | 5.1 | — | — |
| -30 | | | | 30 | 27 | | 2.8 | 0.2 | | 39 | | | |
| -45 | | | | 45 | 42 | | 7.9 | 0.4 | 40 | 54 | | | |
| CS 6 -6 -15 | 6 | 9 | 1.5 | 15 | 12 | 15 | 1 | 0.1 | 20 | 24 | 6.6 | — | 25 |
| -30 | | | | 30 | 27 | | 2.4 | 0.3 | 30 | 35 | | | 36 |
| -45 | | | | 45 | 42 | | 6.5 | 0.5 | 40 | | | | |

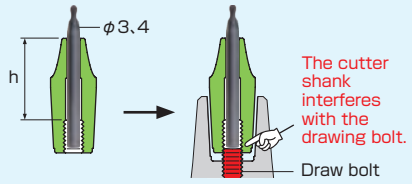
## CR6 Regular type

| CODE | φD | φC | t | L | M | H | S | In Balance Value (g•mm) | g | h | φ$D_1$ | φ$D_2$ | $H_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CR 6 -3 -30 | 3 | 7.5 | 2.25 | 30 | 27 | 9 | 1.3 | 0.1 | 30 | 39 | 4 | 5.1 | 25 |
| -45 | | | | 45 | 42 | | 6.2 | 0.3 | 40 | 54 | | | 30 |
| CR 6 -4 -30 | 4 | 10 | 3 | 30 | 27 | 12 | 1.0 | 0.1 | 30 | 39 | 5.1 | — | — |
| -45 | | | | 45 | 42 | | 4.4 | 0.5 | 50 | 54 | | | |
| CR 6 -6 -30 | 6 | 12 | 3 | 30 | 27 | 15 | 0.8 | 0.2 | 20 | 35 | 6.6 | — | 36 |
| -45 | | | | 45 | 42 | | 4.0 | 0.6 | | | | | |

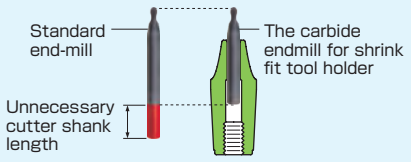
■Note • S(μm/kgf) refers to the deflection value of an E32-SLK6-37 / SLIMLINE collet mini combination.
The values below are comparable for any shank combination.

**⚠Caution** Be sure to insert the cutter shank within max. insertion length(h).

It may cause insufficient accuracy due to touching the cutting tool shank face to the bottom of the holder, and the collet installation defect. Be sure to pay attention for using CS6 and CS8 with L=15 and 25, because their "h" dimension is very short.




We recommend you to use the short overall length tool for SLIMLINE mini,because its insertion length is short. When you use the regular length tool, please chop off the shank. And, please remove the bur at the cut section.




## Collet stand

Easy collet storage.

| CODE |
|---|
| PA-R |

# Master Holder mini 8 type

E40-SLK8-50

Fig. 1

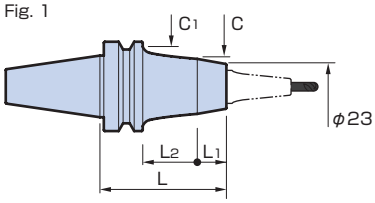
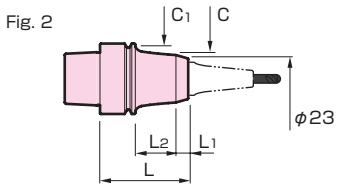


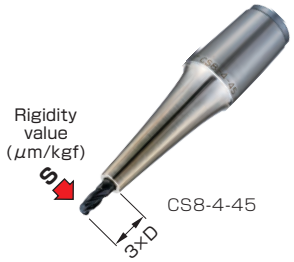

Fig. 2



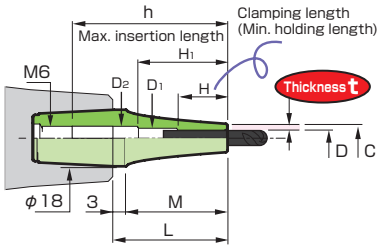

| CODE | Fig. | L | $L_1$ | $L_2$ | φC | $φC_1$ | Kg | In Balance Value (g•mm) |
|---|---|---|---|---|---|---|---|---|
| BT30-SLK 8-35-MAS1 | 1 | 35 | 13 | — | — | 34 | 0.4 | 1.5 |
| -MAS2 | | | | | | | | |
| -65-MAS1 | | 65 | 15 | 28 | 27.5 | | 0.6 | 2.3 |
| -MAS2 | | | | | | | | |
| BT40-SLK 8-40 | | 40 | 13 | — | — | 53 | 1 | 1.8 |
| -70 | | 70 | 15 | 28 | 31.2 | | 1.2 | 2.5 |
| A 40-SLK 8-50 | 2 | 50 | 7 | 23 | 27.0 | 34 | 0.3 | 2.5 |
| -70 | | 70 | 15 | 35 | 27.3 | | 0.4 | 3.3 |
| A 50-SLK 8-55 | | 55 | 7 | 22 | 28.1 | 42 | 0.5 | 4 |
| -75 | | 75 | 15 | 34 | 28.7 | | 0.6 | 4.8 |
| A 63-SLK 8-55 | | 55 | 7 | 22 | 29.5 | 53 | 0.8 | 5.7 |
| -75 | | 75 | 15 | 34 | 30.5 | | 0.9 | 5.9 |
| E 40-SLK 8-50 | | 50 | 7 | 23 | 27.0 | 34 | 0.3 | 2.1 |
| -70 | | 70 | 15 | 35 | 27.3 | | 0.4 | 2.9 |
| E 50-SLK 8-55 | | 55 | 7 | 22 | 28.1 | 42 | 0.6 | 2.7 |
| -75 | | 75 | 15 | 34 | 28.7 | | 0.7 | 3.5 |
| F63M-SLK 8-55 | | 55 | 7 | 22 | 29.5 | 53 | 0.8 | 4.4 |
| -75 | | 75 | 15 | 34 | 30.5 | | 1 | 5.2 |

■ Option • SLIMLINE collet mini 8 type • Wrench • Nozzle • Retention knob(BT40)
■ Standard accessories • Coolant duct(HSK-A) • Retention knob(BT30)
■ Note • A dedicated retention knob is supplied with the BT30 as a standard accessory. When ordering, specify machine maker name and model number.
• To replace the extension knob, please contact us.

# SLIMLINE collet mini 8 type



CS8-4-45




## CS8 Slim type

| CODE | φD | φC | t | L | M | H | S | In Balance Value (g•mm) | g | h | $φD_1$ | $φD_2$ | $H_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CS 8 -3 -25 | 3 | 6 | 1.5 | 25 | 22 | 9 | 2.1 | 0.2 | 60 | 37.5 | 4 | 5.1 | 28 |
| -45 | | | | 45 | 42 | | 4.8 | 0.4 | 70 | 57.5 | | | 33 |
| -65 | | | | 65 | 62 | | 10.3 | 0.6 | 80 | 77.5 | | | |
| CS 8 -4 -25 | 4 | 7 | 1.5 | 25 | 22 | 12 | 1.8 | 0.3 | 60 | 37.5 | 5.1 | — | — |
| -45 | | | | 45 | 42 | | 4.4 | 0.5 | 70 | 57.5 | | | |
| -65 | | | | 65 | 62 | | 9.2 | 0.6 | 80 | 77.5 | | | |
| CS 8 -6 -25 | 6 | 9 | 1.5 | 25 | 22 | 15 | 1.5 | 0.3 | 60 | 35 | 6.6 | — | 36 |
| -45 | | | | 45 | 42 | | 3.7 | 0.6 | 80 | | | | |
| -65 | | | | 65 | 62 | | 7.6 | 0.8 | 90 | | | | |
| CS 8 -8 -25 | 8 | 11 | 1.5 | 25 | 22 | 20 | 1.4 | 0.4 | 60 | 37 | 8.6 | — | 38 |
| -45 | | | | 45 | 42 | | 3.3 | 0.7 | 70 | 49 | | | 50 |

## CR8 Regular type

| CODE | φD | φC | t | L | M | H | S | In Balance Value (g•mm) | g | h | $φD_1$ | $φD_2$ | $H_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CR 8 -3 -45 | 3 | 7.5 | 2.25 | 45 | 42 | 9 | 3.6 | 0.5 | 70 | 57.5 | 4 | 5.1 | 33 |
| -65 | | | | 65 | 62 | | 7.4 | 0.7 | 90 | 77.5 | | | |
| CR 8 -4 -45 | 4 | 10 | 3 | 45 | 42 | 12 | 2.7 | 0.6 | 80 | 57.5 | 5.1 | — | — |
| -65 | | | | 65 | 62 | | 5.3 | 0.8 | 100 | 77.5 | | | |
| CR 8 -6 -45 | 6 | 12 | 3 | 45 | 42 | 15 | 2.5 | 0.7 | 90 | 35 | 6.6 | — | 36 |
| -65 | | | | 65 | 62 | | 4.8 | 1 | 110 | | | | |
| CR 8 -8 -45 | 8 | 14 | 3 | 45 | 42 | 20 | 2.4 | 0.8 | 90 | 49 | 8.8 | — | 50 |

## CF8 Flush type

| CODE | φD | φC | t | L | M | H | S | In Balance Value (g•mm) | g | h | $φD_1$ | $φD_2$ | $H_1$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CF 8 -3 -45 | 3 | 9.5 | 3.25 | 45 | 42 | 9 | 2.8 | 0.5 | 80 | 57.5 | 4 | 5.1 | 33 |
| -65 | | | | 65 | 62 | | 5.3 | 0.8 | 100 | 77.5 | | | |
| CF 8 -4 -45 | 4 | 12 | 4 | 45 | 42 | 12 | 2.3 | 0.7 | 90 | 57.5 | 5.1 | — | — |
| -65 | | | | 65 | 62 | | 4.2 | 0.9 | 110 | 77.5 | | | |
| CF 8 -6 -45 | 6 | 14 | 4 | 45 | 42 | 15 | 2.1 | 0.8 | 100 | 35 | 6.6 | — | 36 |
| -65 | | | | 65 | 62 | | 3.9 | 1.1 | 120 | | | | |
| CF 8 -8 -45 | 8 | 16 | 4 | 45 | 42 | 20 | 2.1 | 1.1 | 110 | 49 | 8.8 | — | 50 |

■Note • S(μm/kgf) refers to the deflection value of an E40-SLK8-50 / SLIMLINE collet mini combination. The values below are comparable for any shank combination.

### Wrench(Both for 6 and 8 type)

Used for clamping of main body of mini and SLIMLINE collet mini.

| CODE | Shank type |
|---|---|
| TW- 4 | HSK-A/E/F BT40 |
| DW-14 | BT30 |


TW—4


DW—14

# Master Holder 12 type


BT40-SLK12-75


A63-SLK12-75F

Fig. 1

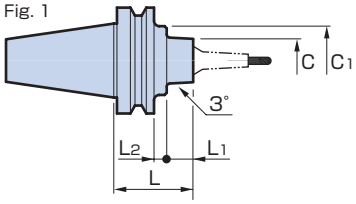



Fig. 2

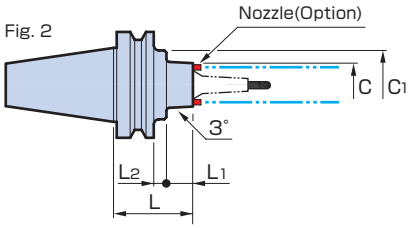



Fig. 3

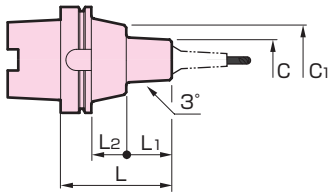
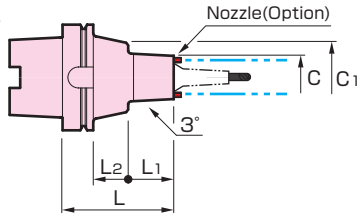



Fig. 4

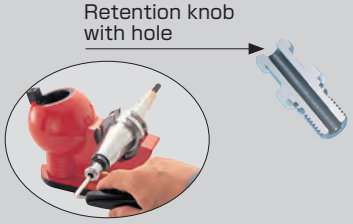



| CODE | Fig. | L | φC | $L_1$ | $L_2$ | φ$C_1$ | Kg (lbs) | In Balance Value (g•mm) |
|---|---|---|---|---|---|---|---|---|
| BT30 –SLK12– 35 –MAS1 | 1 | 35 | 38 | 13 | – | – | 0.4 | 1.0 |
| –MAS2 | | | | | | | | |
| BT40 –SLK12– 45 | | 45 | | 18 | | | 1.1 | 1.4 |
| – 45F | 2 | | 41 | | | | | 1.6 |
| – 75 | 1 | 75 | 38 | 48 | | | 1.4 | |
| – 75F | 2 | | 41 | | | | | 1.8 |
| –135F | | 135 | | 108 | | | 2.2 | 3.2 |
| BT50 –SLK12– 75 | 1 | 75 | 38 | 25 | 12 | 65 | 4.0 | 4.7 |
| – 75F | 2 | | 41 | | | | | 4.9 |
| –105F | | 105 | | 55 | | | 4.4 | 5.3 |
| –135F | | 135 | | 85 | | | 4.7 | 5.7 |
| –225 | 1 | 225 | 38 | 150 | 37 | | 6.4 | 14.8 |
| –315 | | 315 | | | 127 | 90 | 11.0 | 31.3 |
| A 50 –SLK12– 75 | 3 | 75 | 38 | 49 | – | – | 0.8 | 4.8 |
| A 63 –SLK12– 75 | | | | | | | 1.0 | 5.0 |
| – 75F | 4 | | 41 | | | | 1.1 | 5.5 |
| –135 | 3 | 135 | 38 | 109 | | | 1.7 | 8.5 |
| –135F | 4 | | 41 | | | | 1.9 | 8.6 |
| A100 –SLK12–105 | 3 | 105 | 38 | 43 | 33 | 65 | 3.4 | 20.7 |
| –105F | 4 | | 41 | | | | 3.5 | 20.8 |
| –135F | | 135 | | 73 | | | 3.8 | 21.1 |
| –225 | 3 | 225 | 38 | 163 | | 83 | 5.4 | 36.3 |
| –315 | | 315 | | 150 | 136 | | 6.4 | 46.5 |
| E 50 –SLK12– 75 | | 75 | | 49 | – | – | 0.8 | 2.9 |
| F63M –SLK12– 75 | | | | | | | 1.0 | 3.4 |
| DN40AD–SLK12– 45 | 1 | 45 | 38 | 13.8 | 12.1 | 45 | 1.0 | 4.6 |
| – 45F | 2 | | 41 | 7.9 | 18 | | | 4.3 |
| – 75 | 1 | 75 | 38 | 43.8 | 12.1 | | 1.3 | 5.8 |
| – 75F | 2 | | 41 | 55.9 | – | | | 5.5 |
| DN50AD–SLK12– 75 | 1 | 75 | 38 | 40 | 15.9 | 70 | 3.4 | 12.6 |
| – 75F | 2 | | | | | | 3.5 | 12.3 |
| –135F | | 135 | 41 | 100 | | | 4.3 | 19.0 |
| CT40 –SLK12– 45 | 1 | 45 (1.77") | 41 (1.61") | 26 (1.02") | – | 44.45 (1.75") | 1.1 (2.4) | 3.6 |
| CT50 –SLK12– 75 | | 75 (2.95") | 38 (1.50") | 40 (1.57") | 15.9 (.63") | 70 (2.75") | 3.3 (7.3) | 8.0 |

■ Option •SLIMLINE collet 12 type •Wrench •Nozzle •Retention knob(BT40,50/DIN/CT)
■ Standard accessories •Coolant duct(HSK-A) •Retention knob(BT30)
■ Note •A dedicated retention knob is supplied with the BT30 as a standard accessory. When ordering, specify machine maker name and model number.
■ Caution •To replace the extension knob, please contact us.
•To fasten the BT30, use a commercially available 14 mm single-ended wrench.

## Retention knob with hole

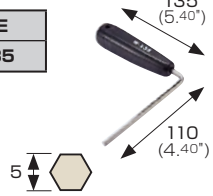
There is no need to remove a retention knob with .236" diameter coolant-thru hole when tightening or loosening SLIMLINE taper adapters.




## Wrench

Required for clamping the main body and SLIMLINE collet.

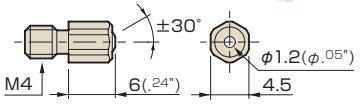
| CODE |
|---|
| W–135 |




■ Note
•To fasten the BT30, use a commercially available 14 single-ended wrench.

## Nozzle

| CODE | Q'ty |
|---|---|
| NOZ–M4–12 | 12 pcs. |
| –60 | 60 pcs. |

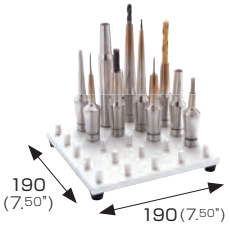


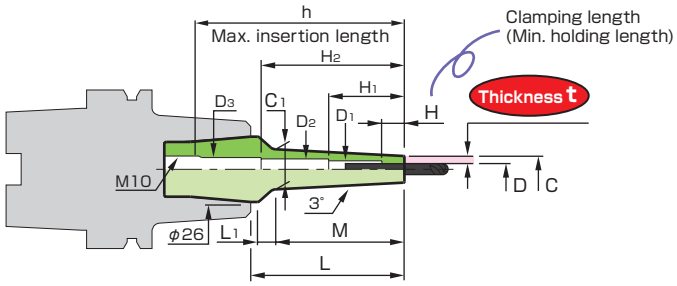

■ Note
•Four nozzles are required for each main body.

## Collet stand

For compact storage of SLIMLINE collets.

| CODE |
|---|
| SDK–01 |

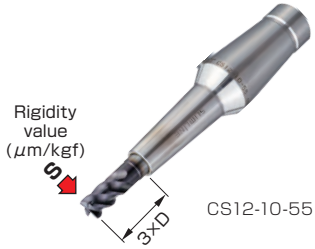


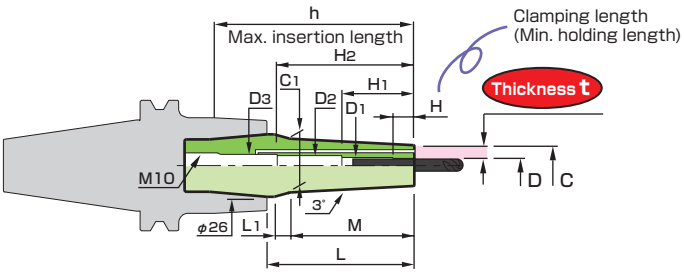




## CS12 Slim type

| CODE | φD | φC | t | L | M | $L_1$ | $φC_1$ | H | S | In Balance Value (g•mm) | Kg | h | $φD_1$ | $φD_2$ | $φD_3$ | $H_1$ | $H_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CS12– 3– 35 | 3 | 6 | 1.5 | 35 | 22 | 9.5 | 8.4 | 10 | 4.8 | 0.5 | 0.2 | 65 | 4 | – | – | – | – |
| – 55 | | | | 55 | 42 | | 10.5 | | 9.5 | | | 85 | | | | | |
| – 80 | | | | 80 | 67 | | 13.1 | | 15.0 | 0.7 | | 110 | | 6 | 8.6 | 39.4 | 74.3 |
| –110 | | | | 110 | 97 | | 16.2 | | 20.6 | 0.8 | | 140 | | | | | 104.3 |
| CS12–$3_{.175}$– 35 | $3_{.175}$ | $6_{.175}$ | 1.5 | 35 | 22 | 9.5 | 8.5 | 10 | 4.6 | 0.5 | 0.2 | 65 | 4 | – | – | – | – |
| – 55 | | | | 55 | 42 | | 10.6 | | 9.0 | | | 85 | | | | | |
| – 80 | | | | 80 | 67 | | 13.2 | | 14.3 | 0.7 | | 110 | | 6 | 8.6 | 39.4 | 74.3 |
| –110 | | | | 110 | 97 | | 16.4 | | 19.7 | 0.8 | | 140 | | | | | 104.3 |
| CS12– 4– 35 | 4 | 7 | 1.5 | 35 | 22 | 9.5 | 9.4 | 12 | 3.8 | 0.5 | 0.2 | 65 | 5 | – | – | – | – |
| – 55 | | | | 55 | 42 | | 11.5 | | 7.5 | | | 85 | | | | | |
| – 80 | | | | 80 | 67 | | 14.1 | | 11.9 | 0.7 | | 110 | | 7 | 8.6 | 39.4 | 74.6 |
| –110 | | | | 110 | 97 | | 17.2 | | 16.6 | 0.9 | | 140 | | | | | 104.6 |
| CS12– 5– 35 | 5 | 8 | 1.5 | 35 | 22 | 9.5 | 10.4 | 15 | 3.0 | 0.5 | 0.2 | 65 | – | – | 6 | – | – |
| – 55 | | | | 55 | 42 | | 12.5 | | 6.0 | 0.6 | | 85 | 6 | | 8.6 | 49.3 | |
| – 80 | | | | 80 | 67 | | 15.1 | | 9.7 | 0.8 | | 110 | | | | | |
| –110 | | | | 110 | 97 | | 18.2 | | 13.6 | 1.0 | | 140 | | | | 69.3 | |
| CS12– 6– 35 | 6 | 9 | 1.5 | 35 | 22 | 9.5 | 11.4 | 18 | 2.4 | 0.5 | 0.2 | 65 | – | – | 7 | – | – |
| – 55 | | | | 55 | 42 | | 13.5 | | 4.9 | 0.7 | | 85 | 7 | | 8.6 | 49.6 | |
| – 80 | | | | 80 | 67 | | 16.1 | | 8.0 | 0.8 | | 110 | | | | | |
| –110 | | | | 110 | 97 | | 19.2 | | 11.4 | 1.0 | | 140 | | | | 69.6 | |
| CS12– 7– 35 | 7 | 10 | 1.5 | 35 | 22 | 9.5 | 12.4 | 20 | 2.0 | 0.6 | 0.2 | 65 | – | – | 8.6 | – | – |
| – 55 | | | | 55 | 42 | | 14.5 | | 4.1 | 0.7 | | 85 | | | | | |
| – 80 | | | | 80 | 67 | | 17.1 | | 6.8 | 0.9 | | 110 | | | | | |
| –110 | | | | 110 | 97 | | 20.2 | | 9.7 | 1.2 | 0.3 | 140 | | | | | |
| CS12– 8– 35 | 8 | 11 | 1.5 | 35 | 22 | 9.5 | 13.4 | 25 | 1.6 | 0.6 | 0.2 | 65 | – | – | 8.6 | – | – |
| – 55 | | | | 55 | 42 | | 15.5 | | 3.4 | 0.7 | | 85 | | | | | |
| – 80 | | | | 80 | 67 | | 18.1 | | 5.6 | 0.9 | | 110 | | | | | |
| –110 | | | | 110 | 97 | | 21.2 | | 8.2 | 1.2 | 0.3 | 140 | | | | | |
| CS12– 9– 35 | 9 | 12 | 1.5 | 35 | 22 | 9.5 | 14.4 | 30 | 1.4 | 0.7 | 0.2 | 60 | – | – | 9.6 | – | – |
| – 55 | | | | 55 | 42 | | 16.5 | | 2.9 | 0.9 | | | | | | | |
| – 80 | | | | 80 | 67 | | 19.1 | | 4.8 | 1.1 | | | | | | | |
| –110 | | | | 110 | 97 | | 22.2 | | 7.1 | 1.3 | 0.3 | | | | | | |
| CS12–10– 35 | 10 | 13 | 1.5 | 35 | 22 | 9.5 | 15.4 | 30 | 1.3 | 0.8 | 0.2 | 60 | – | – | 10.6 | – | – |
| – 55 | | | | 55 | 42 | | 17.5 | | 2.5 | 0.9 | | | | | | | |
| – 80 | | | | 80 | 67 | | 20.1 | | 4.3 | 1.1 | | | | | | | |
| –110 | | | | 110 | 97 | | 23.2 | | 6.2 | 1.4 | 0.3 | | | | | | |
| CS12–11– 35 | 11 | 14 | 1.5 | 35 | 22 | 9.5 | 16.4 | 30 | 1.1 | 0.9 | 0.2 | 60 | – | – | 11.6 | – | – |
| – 55 | | | | 55 | 42 | | 18.5 | | 2.3 | 1.0 | | | | | | | |
| – 80 | | | | 80 | 67 | | 21.1 | | 3.8 | 1.3 | | | | | | | |
| –110 | | | | 110 | 97 | | 24.2 | | 5.6 | 1.5 | 0.3 | | | | | | |
| CS12–12– 35 | 12 | 15 | 1.5 | 35 | 22 | 9.5 | 17.4 | 30 | 1.0 | 1.0 | 0.2 | 60 | – | – | 12.6 | – | – |
| – 55 | | | | 55 | 42 | | 19.5 | | 2.1 | 1.1 | | | | | | | |
| – 80 | | | | 80 | 67 | | 22.1 | | 3.5 | 1.4 | | | | | | | |
| –110 | | | | 110 | – | – | – | | 5.0 | 1.3 | 0.3 | | | | | | |

■Note • S means total value in combination with BT40-SLK12-45. The value is basically the same, no matter which holder it is combined with.





## CR12 Regular type

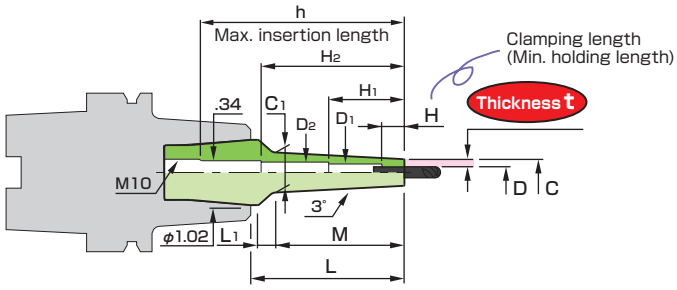
| CODE | φD | φC | t | L | M | $L_1$ | φ$C_1$ | H | S | In Balance Value (g•mm) | Kg | h | φ$D_1$ | φ$D_2$ | φ$D_3$ | $H_1$ | $H_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CR12− 3−35 | 3 | 7.5 | | 35 | 22 | 9.5 | 9.9 | 10 | 2.9 | 0.5 | 0.2 | 65 | — | — | 4 | — | — |
| −55 | | | 2.25 | 55 | 42 | | 12 | | 5.5 | | | 85 | | | | | |
| −80 | | | | 80 | 67 | | 14.6 | | 8.9 | 0.7 | | 110 | 4 | 6 | 8.6 | 39.4 | 74.3 |
| CR12− 4−35 | 4 | 10 | | 35 | 22 | 9.5 | 12.4 | 12 | 1.7 | 0.5 | 0.2 | 65 | — | — | 5 | — | — |
| −55 | | | 3 | 55 | 42 | | 14.5 | | 3.1 | 0.6 | | 85 | | | | | |
| −80 | | | | 80 | 67 | | 17.1 | | 5.1 | 0.8 | | 110 | 5 | 7 | 8.6 | 39.4 | 74.6 |
| CR12− 6−35 | 6 | 12 | | 35 | 22 | 9.5 | 14.4 | 18 | 1.3 | 0.6 | 0.2 | 65 | — | — | 7 | — | — |
| −55 | | | 3 | 55 | 42 | | 16.5 | | 2.4 | 0.7 | | 85 | 7 | | 8.6 | 49.6 | |
| −80 | | | | 80 | 67 | | 19.1 | | 3.9 | 0.9 | | 110 | | | | | |
| CR12− 8−35 | 8 | 14 | | 35 | 22 | 9.5 | 16.4 | 25 | 1.1 | 0.6 | 0.2 | 65 | — | — | 8.6 | — | — |
| −55 | | | 3 | 55 | 42 | | 18.5 | | 1.9 | 0.8 | | 85 | | | | | |
| −80 | | | | 80 | 67 | | 21.1 | | 3.1 | 1 | 0.3 | 110 | | | | | |
| CR12−10−35 | 10 | 16 | | 35 | 22 | 9.5 | 18.4 | 30 | 0.9 | 0.7 | 0.2 | 60 | — | — | 10.6 | — | — |
| −55 | | | 3 | 55 | 42 | | 20.5 | | 1.6 | 0.9 | | | | | | | |
| −80 | | | | 80 | 67 | | 23.1 | | 2.6 | 1.1 | 0.3 | | | | | | |
| CR12−12−35 | 12 | 20 | | 35 | 22 | 9.5 | 22.4 | 30 | 0.7 | 0.9 | 0.2 | 60 | — | — | 12.6 | — | — |
| −55 | | | 4 | 55 | 42 | | 24.5 | | 1.1 | 1.1 | | | | | | | |
| −80 | | | | 80 | — | — | 25.5 | | 1.9 | 1 | 0.3 | | | | | | |

## CF12 Flush type

| CODE | φD | φC | t | L | M | $L_1$ | φ$C_1$ | H | S | In Balance Value (g•mm) | Kg | h | φ$D_1$ | φ$D_2$ | φ$D_3$ | $H_1$ | $H_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CF12− 3−35 | 3 | 9.5 | | 35 | 22 | 9.5 | 11.9 | 10 | 1.9 | 0.5 | 0.2 | 65 | — | — | 4 | — | — |
| −55 | | | 3.25 | 55 | 42 | | 14 | | 3.3 | 0.6 | | 85 | | | | | |
| −80 | | | | 80 | 67 | | 16.6 | | 5.3 | 0.8 | | 110 | 4 | 6 | 8.6 | 44.4 | 74.3 |
| CF12− 4−35 | 4 | 12 | | 35 | 22 | 9.5 | 14.4 | 12 | 1.3 | 0.6 | 0.2 | 65 | — | — | 5 | — | — |
| −55 | | | 4 | 55 | 42 | | 16.5 | | 2.2 | 0.8 | | 85 | | | | | |
| −80 | | | | 80 | 67 | | 19.1 | | 3.4 | 0.9 | | 110 | 5 | 7 | 8.6 | 39.4 | 74.6 |
| CF12− 6−35 | 6 | 14 | | 35 | 22 | 9.5 | 16.4 | 18 | 1.0 | 0.7 | 0.2 | 65 | — | — | 7 | — | — |
| −55 | | | 4 | 55 | 42 | | 18.5 | | 1.7 | 0.9 | | 85 | 7 | | 8.6 | 49.6 | |
| −80 | | | | 80 | 67 | | 21.1 | | 2.7 | | 0.3 | 110 | | | | | |
| CF12− 8−35 | 8 | 16 | | 35 | 22 | 9.5 | 18.4 | 25 | 0.9 | 0.8 | 0.2 | 65 | — | — | 8.6 | — | — |
| −55 | | | 4 | 55 | 42 | | 20.5 | | 1.4 | 1 | | 85 | | | | | |
| −80 | | | | 80 | 67 | | 23.1 | | 2.3 | 1.2 | 0.3 | 110 | | | | | |
| CF12−10−35 | 10 | 18 | | 35 | 22 | 9.5 | 20.4 | 30 | 0.7 | 0.9 | 0.2 | 60 | — | — | 10.6 | — | — |
| −55 | | | 4 | 55 | 42 | | 22.5 | | 1.1 | 1.1 | | | | | | | |
| −80 | | | | 80 | — | — | — | | 1.9 | 1 | 0.3 | | | | | | |
| CF12−12−35 | 12 | 20 | | 35 | 22 | 9.5 | 22.4 | 30 | 0.7 | 1 | 0.2 | 60 | — | — | 12.6 | — | — |
| −55 | | | 4 | 55 | 42 | | 24.5 | | 1.1 | 1.2 | | | | | | | |
| −80 | | | | 80 | — | — | — | | 1.9 | 1.1 | 0.3 | | | | | | |

■Note • S means total value in combination with BT40-SLK12-45. The value is basically the same, no matter which holder it is combined with.

# SLIMLINE collet 12 type — Inch —



## CS12 Slim type

(Inch)

| CODE | φD | φC | t | L | M | $L_1$ | $φC_1$ | H | S | In Balance Value (g•mm) | lbs | h | $φD_1$ | $φD_2$ | $H_1$ | $H_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CS12−1/ 8− 80 | .1250 | .24 | .059 | 3.15 | 2.64 | .37 | .52 | .38 | 14.0 | 0.7 | 0.40 | 4.33 | .16 | .24 | 1.57 | 2.95 |
| −110 | | | | 4.33 | 3.82 | | .64 | | 19.3 | 0.9 | 0.48 | 5.51 | | | | 4.13 |
| −3/16− 80 | .1875 | .31 | | 3.15 | 2.64 | | .58 | .58 | 10.3 | 0.8 | 0.41 | 4.33 | .24 | − | 1.97 | − |
| −110 | | | | 4.33 | 3.82 | | .71 | | 14.2 | 1.0 | 0.51 | 5.51 | | | 2.76 | |
| −1/ 4− 80 | .2500 | .37 | | 3.15 | 2.64 | | .64 | .70 | 7.4 | 0.9 | 0.44 | 4.33 | .28 | | 1.97 | |
| −110 | | | | 4.33 | 3.82 | | .77 | | 10.5 | 1.1 | 0.56 | 5.51 | | | 2.76 | |
| −5/16− 80 | .3125 | .43 | | 3.15 | 2.64 | | .71 | .98 | 5.6 | 1.0 | 0.47 | 4.33 | − | | − | |
| −110 | | | | 4.33 | 3.82 | | .83 | | 8.1 | 1.2 | 0.61 | 5.51 | | | | |
| −3/ 8− 80 | .3750 | .49 | | 3.15 | 2.64 | | .77 | 1.18 | 4.4 | 1.0 | 0.50 | 2.36 | .41 | | 2.4 | |
| −110 | | | | 4.33 | 3.82 | | .89 | | 6.4 | 1.3 | 0.66 | | | | | |
| −1/ 2− 80 | .5000 | .62 | | 3.15 | 2.64 | − | | | 3.1 | | 0.55 | | .54 | | | |
| −110 | | | | 4.33 | 3.82 | | − | | 4.8 | 1.7 | 0.77 | | | | | |

## CR12 Regular type

(Inch)

| CODE | φD | φC | t | L | M | $L_1$ | $φC_1$ | H | S | In Balance Value (g•mm) | lbs | h | $φD_1$ | $φD_2$ | $H_1$ | $H_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CR12−1/ 8− 55 | .1250 | .36 | .089 | 2.17 | 1.65 | .37 | .53 | .38 | 3.5 | 0.6 | 0.41 | 3.35 | .16 | − | 2.36 | − |
| −3/16− 55 | .1875 | .42 | .119 | | | | .60 | .46 | 2.7 | 0.7 | 0.42 | | .24 | | 1.97 | |
| −1/ 4− 55 | .2500 | .49 | | | | | .66 | .70 | 2.2 | 0.8 | 0.44 | | .28 | | | |
| −5/16− 55 | .3125 | .55 | | | | | .72 | .98 | 1.9 | | 0.45 | | − | | − | |
| −3/ 8− 55 | .3750 | .61 | | | 1.65 | | .78 | 1.18 | 1.6 | 0.9 | 0.47 | 2.36 | .41 | | 2.4 | |
| −1/ 2− 35 | .5000 | .81 | .157 | 1.38 | .87 | | .91 | | 0.6 | 1.0 | 0.40 | | .54 | | | |
| − 55 | | | | 2.17 | 1.99 | | − | | 1.1 | 0.9 | 0.54 | | | | | |

## CF12 Flush type

(Inch)

| CODE | φD | φC | t | L | M | $L_1$ | $φC_1$ | H | S | In Balance Value (g•mm) | lbs | h | $φD_1$ | $φD_2$ | $H_1$ | $H_2$ |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CF12−1/ 8− 55 | .1250 | .38 | .128 | 2.17 | 1.65 | .14 | .55 | .39 | 3.1 | 0.7 | 0.42 | 3.35 | .16 | − | 2.64 | − |
| −3/16− 55 | .1875 | .50 | .157 | | | | .68 | .55 | 1.9 | 0.8 | 0.46 | | .24 | | | |
| −1/ 4− 55 | .2500 | .56 | | | | | .74 | .71 | 1.6 | 0.9 | 0.47 | | .28 | | 1.97 | |
| −3/ 8− 55 | .3750 | .69 | | | | | .86 | 1.18 | 1.3 | 1.1 | 0.51 | | .54 | | 2.4 | |
| −1/ 2− 55 | .5000 | .81 | | | 1.99 | − | − | | 1.1 | 1.0 | 0.54 | | .52 | | | |

■Note • S S means total value in combination with BT40-SLK12-45. The value is basically the same, no matter which holder it is combined with.

## Tool set up stand HF SERIES

Required for clamping the main body and SLIMLINE collet.

| CODE | Shank type |
|---|---|
| HF−BT30 | BT30 |
| −BT40 | BT40 |
| −BT50 | BT50 |
| −A40 | HSK −A40 |
| −A50 | −A50 |
| −A63 | −A63 |
| −A100 | −A100 |
| −E32 | −E32 |
| −E40 | −E40 |
| −E50 | −E50 |
| −F63 | −F63 |

# SHRINK-FIT HEATER

Easy operation

Low temperature shrinking at just 300℃(570°F)

Water cooling - significantly reduced cooling time

## Induction heater

### HEAT ROBO DENJI 電磁 5000S

φ3~25 (φ1/8"~1")

200v~240v 5kW

18 sec. 6(.24")

Air cooling time 1 min.

30kg (67lbs)

CE


| CODE | Size(W×D×H) |
|---|---|
| HRD-02S | 370×510×740 (14.60" × 20.10" × 29.20") |

■ Option
• Heating Coil • Adapter • Base • Cutter Stopper(HSB·HSC)

■ StandardAccessories
• Heat-resistant gloves • Tweezers • Protection sheet for heating coil

#### Heating coil (Option)

| | CODE | Cutter dia. | Heating time |
|---|---|---|---|
| Coil 1 | HRD2-CL1-01 | φ3~ 6 (φ1/ 8"~1/4") | 18sec. |
| Coil 2 | -CL2-01 | φ7~12 (φ5/16"~1/2") | 28sec. |
| Coil 3 | -CL3-01 | φ16 , 20 (φ5/ 8" , 3/4") | 28sec. |
| Coil 4 | -CL4-01 | φ25 (φ1") | 40sec. |
| Coil 5 | -CL5-01 | ※ | 28sec. |

■ Standard accessories
•Protection sheet for heating coil

■ Note
• Coil 5(※) is for dia. 8 ,10 ,12 ,16 ( 5/16",3/8",1/2",5/8") internal bore with M22 effective length holders,and for all of SLRB and SLFB type.

### HEAT ROBO DENJI 電磁 1200S

φ3~12 (φ1/8"~1/2")

100v•120v•230v 1.2kW

18 sec. 6(.24")

Air cooling time 1 min.

19kg (42lbs)

CE


| CODE | Size(W×D×H) |
|---|---|
| HRD-01S | 270×410×550 (10.70" × 16.20" × 21.70") |
| HRD-01S-120NA※ | 270×560×550 (10.70" × 22.10" × 21.70") |
| HRD-01S-230AS※ | |

■ Option
• Adapter • Base • Cutter Stopper(HSB·HSC)

■ StandardAccessories
• Heating Coil • Heat-resistant gloves • Tweezers
• Protection sheet for heating coil

■ Note
• NA = For North America , AS = For Asia.

#### Heating coil

| | CODE | Cutter dia. | Heating time |
|---|---|---|---|
| Coil 1 | HRD-CL1-01 | φ3~ 6 (φ1/ 8"~1/4") | 18 sec. |
| Coil 2 | -CL2-01 | φ7~12 (φ5/16"~1/2") | 33 sec. |

■ Standard accessories
•Protection sheet for heating coil

## Hot air heater

### HEAT ROBO Baby3000S

200v•230v 3kW

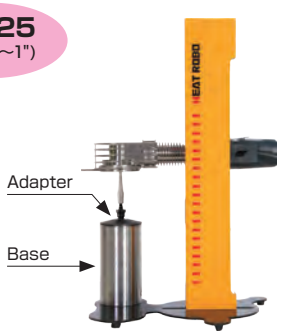
φ3~25 (φ1/8"~1")

70sec. 6(.24")

CE (230EU)

Compressed air cooling 10 min.

9.5kg (21lbs)




| CODE | Size(W×D×H) |
|---|---|
| HRB-03S | 430×330×600 (17.00" × 13.00" × 23.70") |
| HRB-03S-230NA※ | 450×215×570 (17.80" × 8.50" × 22.50") |
| -230EU※ | |
| -230AS※ | |

■ Option
•Adapter •Base •Cutter stopper

■ Standard accessories
•Heat-resistant gloves •Tweezers •Timer

■ Note
•NA=For North America , EU = For Europe , AS = For Asia.

### HEAT ROBO Baby1200S

φ3~12 (φ1/8"~1/2")

100v•120v 1.2kW

120sec. 6(.24")

8kg (18lbs)

| CODE | Size(W×D×H) |
|---|---|
| HRB-02S | 410×260×600 (16.20" × 10.30" × 23.70") |
| HRB-02S-120NA※ | 360×105×570 (14.20" × 4.20" × 22.50") |

■ Option
•Adapter •Base •Cutter stopper

■ Standard accessories
•Heat-resistant gloves •Tweezers •Timer

■ Note
•NA=For North America.

### HEAT ROBO Baby1000

φ3~12 (φ1/8"~1/2")

100v 1kW

180sec. 6(.24")

3.5kg (8lbs)

| CODE | Size(W×D×H) |
|---|---|
| HRB-01 | 340×160×410 (13.40" × 6.30" × 162") |

■ Option
•Transformer (→p.12)

■ Standard accessories
•Heat-resistant gloves •Tweezers •Timer
•Collet setting stand •Nozzle(2 pcs.)

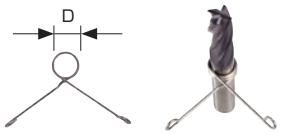
## Cutter Stopper
Used as a stopper in the holder hole when shrink fitting or removing a cutting tool.

### HSA (Coil spring type)

| CODE | φD |
|---|---|
| HSA—D | 3, 3.175, 4, 5, 6, 7, 8, 9, 10, 11, 12 (1/8", 3/16", 1/4", 5/16", 3/8", 1/2") |

Ex. HSA—3

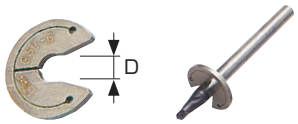
※ For HEAT ROBO Baby




### HSB (Plate spring type)

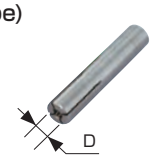
| CODE | φD |
|---|---|
| HSB—D | 3, 3.175, 4, 6, 8, 10, 12 (1/8", 3/16", 1/4", 5/16", 3/8", 1/2") |

Ex. HSB—6

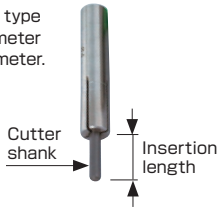



### HSC (Slit collet type)

| CODE | φD |
|---|---|
| HSC—3 | 3 |
| —3.175 | 3.175 |
| —4 | 4 |
| —6 | 6 |

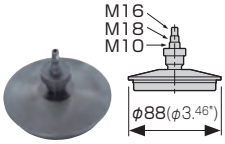



Convenient for roumer type tools (non-inverse diameter tools) with a small diameter.




## Adapter

| CODE |
|---|
| ADH—SLK |




## Base

| CODE |
|---|
| BAA—01 |

Size: φ 88 × 165 (φ 3.50" × 6.50")

## Cutter tray

| CODE |
|---|
| SDH—01 |

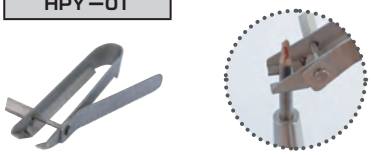
Made of aluminum, assuring superior cooling

Size:170 × 170 (6.70" × 6.70")

## Cutter pliers

Cutting tool plier eliminates the hassle of using a heat-resistant glove.

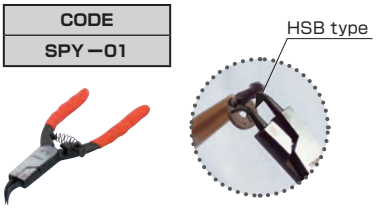
| CODE |
|---|
| HPY—01 |



## Stopper pliers

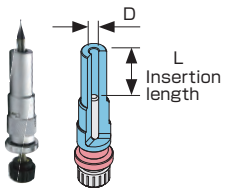
Stopper plier can easily attach the HSB type removable stopper.

| CODE |
|---|
| SPY—01 |




## Cutter adjuster

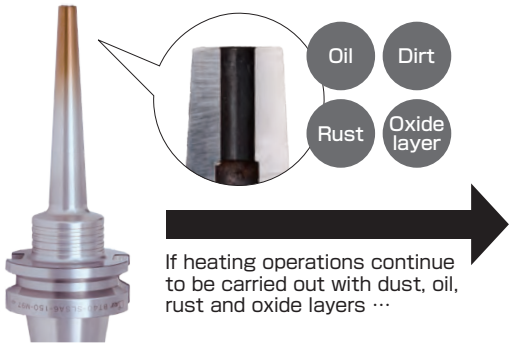
Allows you to set the overhang of a cutting tool or align the lengths of several cutting tools (used in combination with an HSB- or HSC-type stopper)

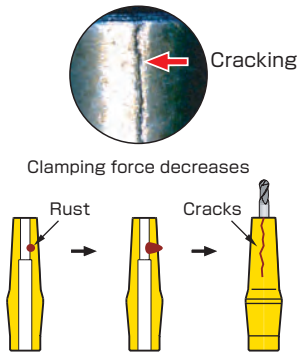



| CODE | φD | L |
|---|---|---|
| HAJ— 3 | 3 | 10～30 |
| — 3.175 | 3.175 | |
| — 4 | 4 | 13～30 |
| — 6 | 6 | 19～45 |
| — 8 | 8 | 25～55 |
| —10 | 10 | 31～70 |
| —12 | 12 | 31～85 |

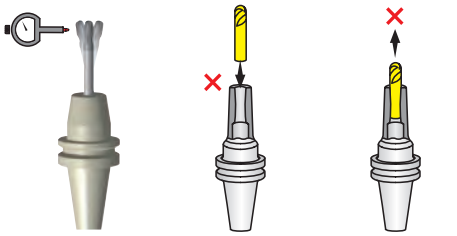
## Cleaning tool

To maintain accuracy and lengthen the service life of the SLIMLINE, maintenance is important.
For cleaning the inside of a holder, use a rubber grindstone-type or brush-type cleaning tool.
Furthermore, the use of aquacool is also recommended.




Bore diameter of a shrink-fit holder transforms




## Rubber grindstone type

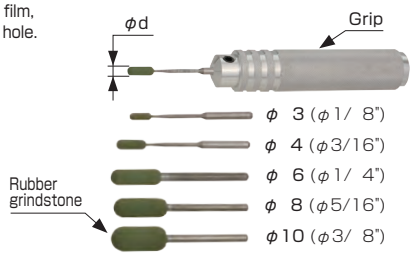
Rubber grindstone-type cleaning tool removes tough oxidized film, as well as any dust and oil, that is generated in the chucking hole.

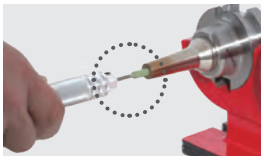
Standard set

| CODE | Note |
|---|---|
| CLT—GTA—01 | Dedicated grip and rubber grindstone for each size. |

Option

| Description | CODE | Note | Q'ty |
|---|---|---|---|
| Grip | CLT—GTA —GP | — | 1 pc. |
| Rubber grind-stone | CLT—GTA 3—5 | For φ 3(φ1/ 8") | 5 pcs. |
| | 4—5 | For φ 4(φ3/16") | |
| | 6—5 | For φ 6(φ1/ 4") | |
| | 8—5 | For φ 8(φ5/16") | |
| | 10—5 | For φ10(φ3/ 8") | |



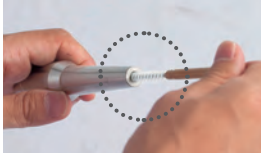
When a cutter doesn't insert smoothly.

## Brush type

Nylon brush for cleaningthe chucking hole.

| CODE | Note |
|---|---|
| AQC—BR—SET | Each 1pc for φ3, 4, 6 (φ1/8", 3/16", 1/4") |

For removing dust and chips before heating operation!



# Starter set

For customers who have never used shrink-fit tool holders before

You can feel the difference in our shrink-fit holders' performance immediately.
Just select a master holder and collet type (6 type or 8 type).

## mini 6 type

| CODE | Master Holder mini 6 type | SLIMLINE collet mini 6 type | Tool Set Up Stand (tool attachment holder) |
|---|---|---|---|
| BT30-SLK6-SET | BT30-SLK6-35 3 pc.<br>-65 1 pc. | CS6-3-15 1 pc.<br>-30 1 pc.<br>-4-15 3 pc.<br>-30 1 pc.<br>-6-15 3 pc.<br>-30 1 pc. | HF-BT30 1 pc. |
| A40-SLK6-SET | A40-SLK6-37 3 pc.<br>-50 1 pc. | | HF-A40 1 pc. |
| A50-SLK6-SET | A50-SLK6-42 3 pc.<br>-55 1 pc. | | HF-A50 1 pc. |
| E32-SLK6-SET | E32-SLK6-37 3 pc.<br>-50 1 pc. | | HF-E32 1 pc. |
| E40-SLK6-SET | E40-SLK6-37 3 pc.<br>-50 1 pc. | | HF-E40 1 pc. |
| E50-SLK6-SET | E50-SLK6-42 3 pc.<br>-55 1 pc. | | HF-E50 1 pc. |

**Shrinking Heater**

Shrinking Heater
Heat Robo baby 1000
HRB-01 1 pc.

Cutter Stopper
HSB-3
-4
-6
1 ea.

Base
BAA-01 1 pc.

Wrench 1 pc.

## mini 8 type

| CODE | Master Holder mini 8 type | SLIMLINE collet mini 8 type | Tool Set Up Stand (tool attachment holder) |
|---|---|---|---|
| BT30-SLK8-SET | BT30-SLK8-35 3 pc.<br>-65 1 pc. | CS8-3-25 1 pc.<br>-4-25 1 pc.<br>-45 3 pc.<br>-6-25 1 pc.<br>-45 3 pc.<br>-8-25 1 pc. | HF-BT30 1 pc. |
| BT40-SLK8-SET | BT40-SLK8-40 3 pc.<br>-70 1 pc. | | HF-BT40 1 pc. |
| A40-SLK8-SET | A40-SLK8-50 3 pc.<br>-70 1 pc. | | HF-A40 1 pc. |
| A50-SLK8-SET | A50-SLK8-55 3 pc.<br>-75 1 pc. | | HF-A50 1 pc. |
| A63-SLK8-SET | A63-SLK8-55 3 pc.<br>-75 1 pc. | | HF-A63 1 pc. |
| E40-SLK8-SET | E40-SLK8-50 3 pc.<br>-70 1 pc. | | HF-E40 1 pc. |
| E50-SLK8-SET | E50-SLK8-55 3 pc.<br>-75 1 pc. | | HF-E50 1 pc. |
| F63-SLK8-SET | F63M-SLK8-55 3 pc.<br>-75 1 pc. | | HF-F63 1 pc. |

**Shrinking Heater**

Shrinking Heater
Heat Robo baby 1000
HRB-01 1 pc.

Cutter Stopper
HSB-3
-4
-6
-8
1 ea.

Base
BAA-01 1 pc.

Wrench 1 pc.

### Transformer for HEAT ROBO Baby 1000

HEAT ROBO Baby 1000 is for 100V. The transformer is required for 120V and 230V. (MST can supply them.) Below is specification.

| | | |
|---|---|---|
| OUTPUT | 100V | |
| FREQUENCY | 50/60Hz | |
| CAPACITY | 1500 W | |
| INPUT | 120V | 230V |
| INPUT PLUG | A type | SE type |

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