

# SHRINK-FIT HOLDER **SLIMLINE**

Freely combine  
Master Holders  
and Collets

Modular system

## **2** PIECE TYPE

PAT.

The optimum design for small and high-speed machining centers

**2** PIECE TYPE **mini** **NEW**

Easy Storage

Lightweight

Affordable



40,000 min<sup>-1</sup>

3µ  
(.00012")

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



40,000 min<sup>-1</sup>

3µ  
(.00012")

mini **8** type  
Small, lightweight



30,000 min<sup>-1</sup>

5µ  
(.00020")

**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**



E32

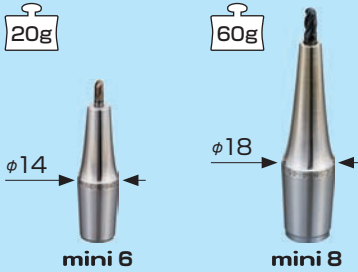
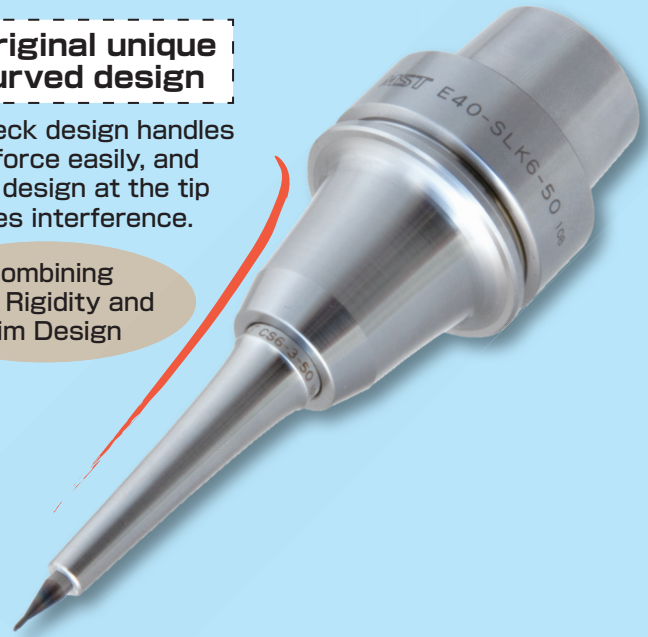
E40

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



20g

60g

φ14

φ18

mini 6

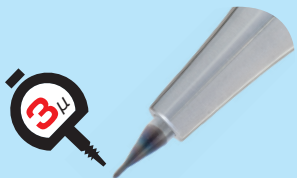
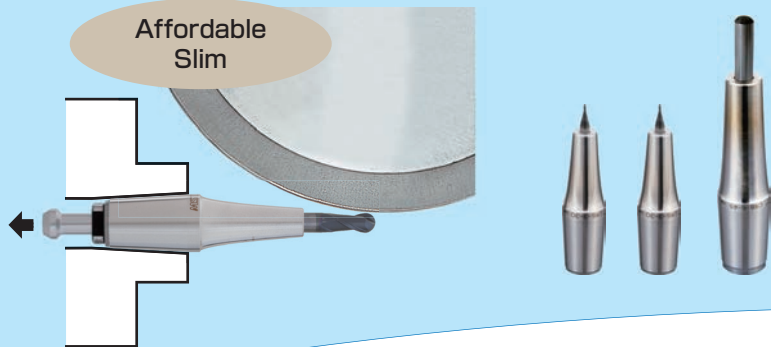
mini 8

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



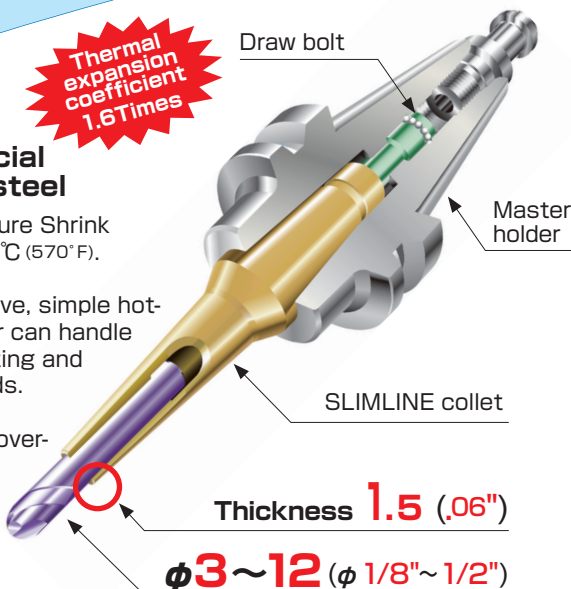
High Accuracy

## Using special stainless steel

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

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

No worries of overheating with SLIMLINE.



Thickness **1.5** (.06")

**φ3~12** (φ 1/8"~1/2")

## 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.



$\phi d = \phi 3 \sim 6$

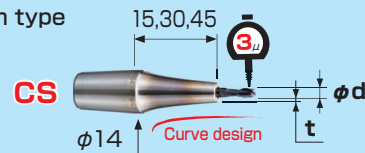
## mini 6 type

Ultra small, lightweight



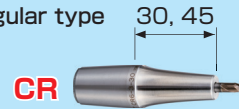
E32	E40	E50	F63
	A40	A50	A63
		BT30	BT40
			BT50

Slim type



$\phi d = 3, 4, 6$   
 $t = 1.5$

Regular type

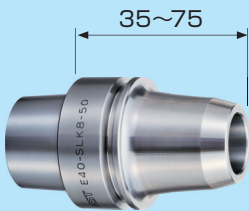


$\phi d = 3, 4, 6$   
 $t = 2.25, 3$

## mini 8 type

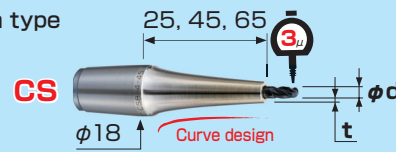
Small, lightweight

$\phi d = \phi 3 \sim 8$



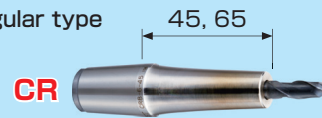
E32	E40	E50	F63
	A40	A50	A63
		BT30	BT40
			BT50

Slim type



$\phi d = 3, 4, 6, 8$   
 $t = 1.5$

Regular type



$\phi d = 3, 4, 6, 8$   
 $t = 2.25, 3$

Flush type



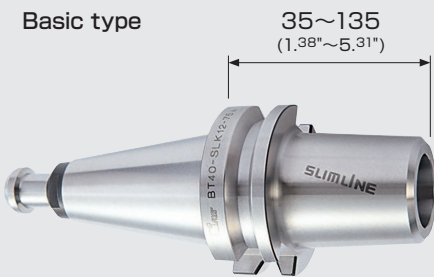
$\phi d = 3, 4, 6, 8$   
 $t = 3.25, 4$

## 12 type

Standard

$\phi d = \phi 3 \sim 12$   
( $\phi 1/8'' \sim 1/2''$ )

Basic type

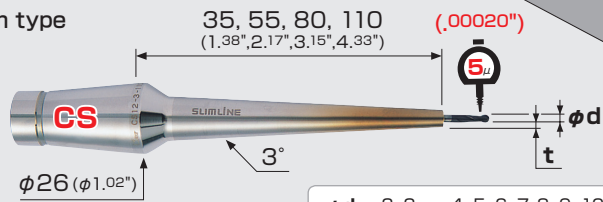


Coolant-through type with nozzle



E32	E40	E50	F63
	A40	A50	A63
		BT30	BT40
			DN40
			DN50
			CT40
			CT50

Slim type



$\phi d = 3, 3.175, 4, 5, 6, 7, 8, 9, 10, 11, 12$   
( $1/8'', 3/16'', 1/4'', 5/16'', 3/8'', 1/2''$ )  
 $t = 1.5 (.06'')$

Regular type



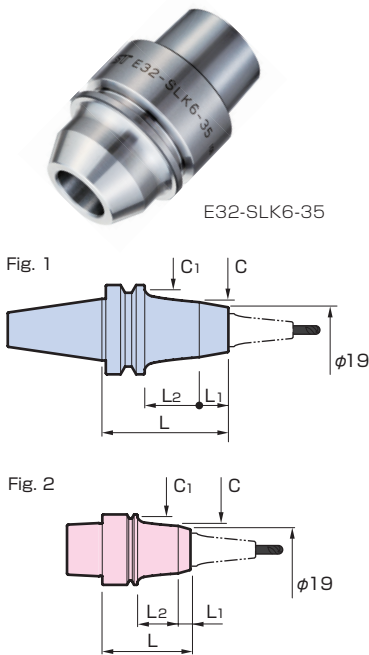
$\phi d = 3, 4, 6, 8, 10, 12$   
( $1/8'', 3/16'', 1/4'', 5/16'', 3/8'', 1/2''$ )  
 $t = 2.25, 3, 4 (.09'', .12'', .16'')$

Flush type



$\phi d = 3, 4, 6, 8, 10, 12$   
( $1/8'', 3/16'', 1/4'', 5/16'', 3/8'', 1/2''$ )  
 $t = 3.25, 4 (.13'', .16'')$

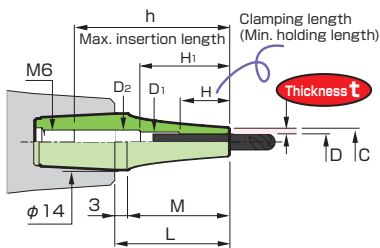
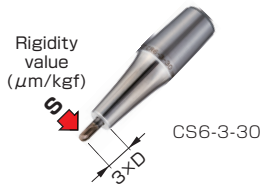
## Master Holder mini 6 type



CODE	Fig.	L	L <sub>1</sub>	L <sub>2</sub>	φ C	φ C <sub>1</sub>	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									
A 50-SLK 6-42		42	16	-	-	42	0.4	5.3	
-55									
E 32-SLK 6-37		37	-	10	26	-	0.2	1.3	
-50									
E 40-SLK 6-37		37	17	-	-	34	0.3	1.7	
-50									
E 50-SLK 6-42		42	16	-	-	42	0.5	3.4	
-55									
			50	7	23	23.5			2.6
			55	7	22	24.6			4.4

- Option
  - Standard accessories
  - Note
  - SLIMLINE collet mini 6 type
  - Coolant duct (HSK-A)
  - Wrench
  - Retention knob (BT30)
  - 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 Slim type

CODE	φD	φC	t	L	M	H	S	In Balance Value (g·mm)	g	h	φD <sub>1</sub>	φD <sub>2</sub>	H <sub>1</sub>
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

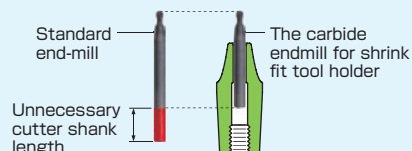
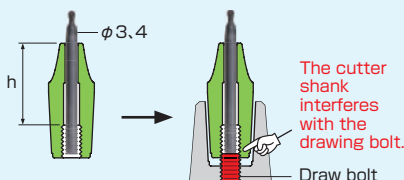
CODE	φD	φC	t	L	M	H	S	In Balance Value (g·mm)	g	h	φD <sub>1</sub>	φD <sub>2</sub>	H <sub>1</sub>
CR 6 -3 -30	3	7.5	2.25	30	27	9	1.3	0.1	30	39	4	5.1	25
-45				45	42		6.2	0.3	40	54	30		
CR 6 -4 -30	4	10	3	30	27	12	1.0	0.1	30	39	5.1	-	-
-45				45	42		4.4	0.5	50	54			
CR 6 -6 -30	6	12	3	30	27	15	0.8	0.2	20	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.



## Master Holder mini 8 type



E40-SLK8-50

Fig. 1

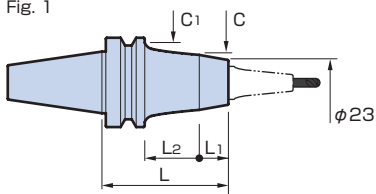
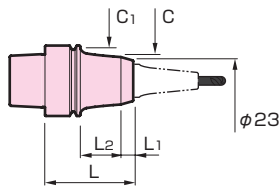


Fig. 2



CODE	Fig.	L	L <sub>1</sub>	L <sub>2</sub>	φC	φC <sub>1</sub>	Kg	In Balance Value (g·mm)
BT30-SLK 8-35-MAS1	1	35	13	—	—	34	0.4	1.5
—MAS2		65	15	28	27.5	34	0.6	2.3
-65-MAS1								
—MAS2								
BT40-SLK 8-40	2	40	13	—	—	53	1	1.8
-70		70	15	28	31.2	53	1.2	2.5
A 40-SLK 8-50	2	50	7	23	27	34	0.3	2.5
-70		70	15	35	27.3	34	0.4	3.3
A 50-SLK 8-55		55	7	22	28.1	42	0.5	4
-75		75	15	34	28.7	42	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	53	0.9	5.9
E 40-SLK 8-50		50	7	23	27	34	0.3	2.1
-70		70	15	35	27.3	34	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	42	0.7	3.5
F63M-SLK 8-55		55	7	22	29.5	53	0.8	4.4
-75		75	15	34	30.5	53	1	5.2

- Option
- Standard accessories
- Note
- SLIMLINE collet mini 8 type
- Wrench
- Nozzle
- Retention knob(BT40)
- Coolant duct(HSK-A)
- Retention knob(BT30)
- 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.

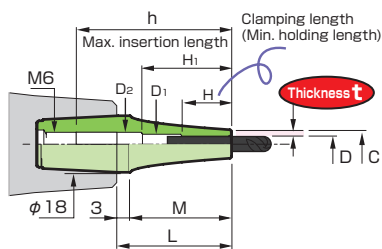
## SLIMLINE collet mini 8 type

### CS8 Slim type



CS8-4-45

Rigidity value (μm/kgf)



CODE	φD	φC	t	L	M	H	S	In Balance Value (g·mm)	g	h	φD <sub>1</sub>	φD <sub>2</sub>	H <sub>1</sub>
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			
-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			

### CR8 Regular type

CODE	φD	φC	t	L	M	H	S	In Balance Value (g·mm)	g	h	φD <sub>1</sub>	φD <sub>2</sub>	H <sub>1</sub>
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

### 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

### CF8 Flush type

CODE	φD	φC	t	L	M	H	S	In Balance Value (g·mm)	g	h	φD <sub>1</sub>	φD <sub>2</sub>	H <sub>1</sub>
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.



# 12 type

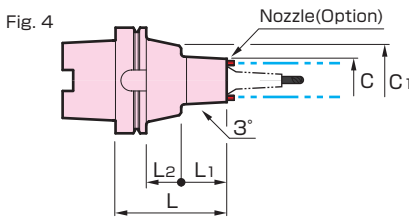
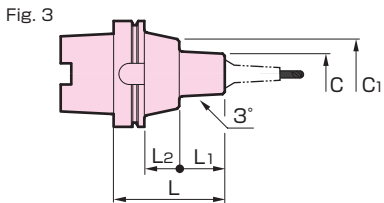
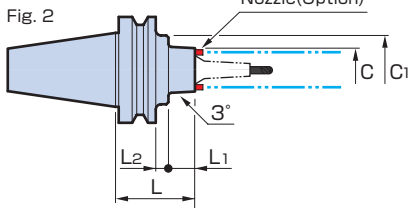
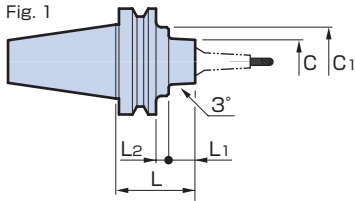
## Master Holder 12 type



BT40-SLK12-75



A63-SLK12-75F



CODE	Fig.	L	φC	L <sub>1</sub>	L <sub>2</sub>	φC <sub>1</sub>	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	175			6.4	14.8
-315		315		225	52	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			5.4	36.3
-315		315		253			6.4	46.5
E 50 -SLK12- 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
- Standard accessories
- Note
- Caution

- SLIMLINE collet 12 type
- Wrench
- Nozzle
- Retention knob (BT40,50/DIN/CT)
- Coolant duct (HSK-A)
- Retention knob (BT30)
- 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.
- To fasten the BT30, use a commercially available 14 mm single-ended wrench.

### Retention knob with hole

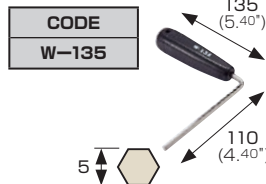
There is no need to remove a retention knob with .236" diameter coolant-thru hole when tightening or loosening SLIMLINE taper adapters.

Retention knob with hole



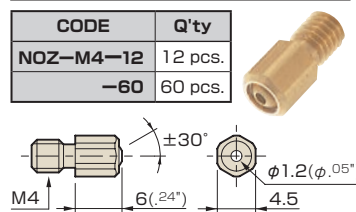
### Wrench

Required for clamping the main body and SLIMLINE collet.



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

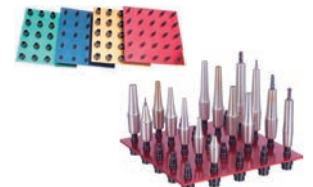
### Nozzle

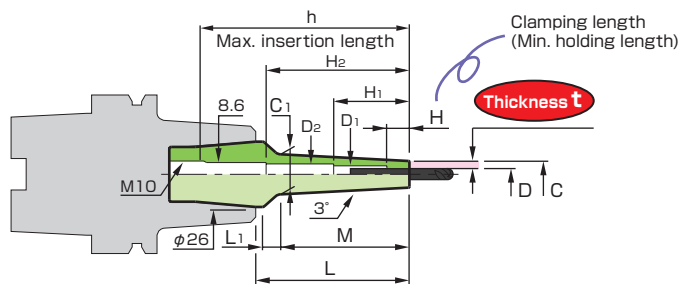
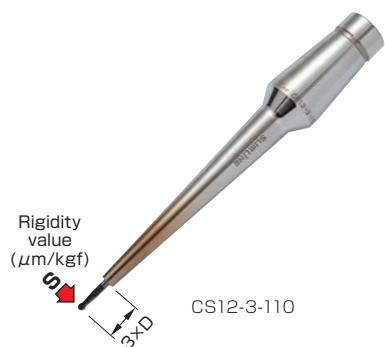


- Note
- Four nozzles are required for each main body.

### Holder stand

CODE	Colors
SDKT-RE	Red
-BL	Blue
-GR	Green
-GD	Gold

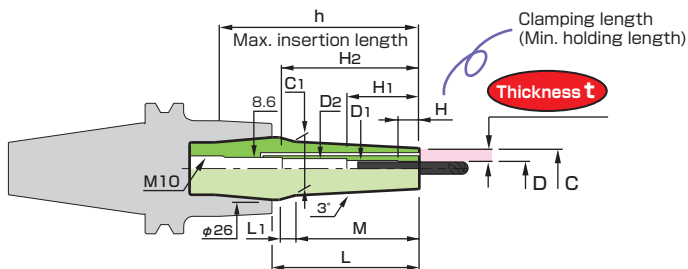
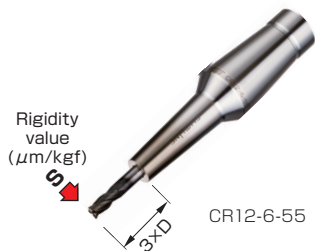




CS12 Slim type

CODE	$\phi D$	$\phi C$	$t$	L	M	$L_1$	$\phi C_1$	H	S	In Balance Value ( $\text{g}\cdot\text{mm}$ )	Kg	h	$\phi D_1$	$\phi D_2$	$H_1$	$H_2$			
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	39.4	74.2
-110				110	97		16.2	20.6	0.8			140					104.2		
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	39.4	74.2
-110				110	97		16.4	19.7	0.8			140					104.2		
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	39.4	74.5
-110				110	97		17.2	16.6	0.9			140					104.5		
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					49.3		
- 80				80	67		15.1	9.7	0.8			110					69.3		
-110				110	97		18.2	13.6	1.0			140							
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					49.6		
- 80				80	67		16.1	8.0	0.8			110					69.6		
-110				110	97		19.2	11.4	1.0			140							
CS12- 7- 35	7	10	1.5	35	22	9.5	12.4	20	2.0	0.6	0.2	65	-	-	-	-			
- 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	-	-	-	-			
- 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			85							
- 80				80	67		19.1	4.8	1.1			110							
-110				110	97		22.2	7.1	1.3			0.3					140		
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			85							
- 80				80	67		20.1	4.3	1.1			110							
-110				110	97		23.2	6.2	1.4			0.3					140		
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			85							
- 80				80	67		21.1	3.8	1.3			110							
-110				110	97		24.2	5.6	1.5			0.3					140		
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			85							
- 80				80	67		22.1	3.5	1.4			110							
-110				110	-		-	5.0	1.3			0.3					140		

■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 <sub>1</sub>	φC <sub>1</sub>	H	S	In Balance Value (g·mm)	Kg	h	φD <sub>1</sub>	φD <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>
CR12- 3-35	3	7.5	2.25	35	22	9.5	9.9	10	2.9	0.5	0.2	65	4	-	38.6	-
-55				55	42		12		5.5			85			58.6	
-80				80	67		14.6		8.9			110			6	
CR12- 4-35	4	10	3	35	22	9.5	12.4	12	1.7	0.5	0.2	65	5	-	38.9	-
-55				55	42		14.5		3.1			85			58.9	
-80				80	67		17.1		5.1			110			7	
CR12- 6-35	6	12	3	35	22	9.5	14.4	18	1.3	0.6	0.2	65	7	-	39.5	-
-55				55	42		16.5		2.4			85			49.5	
-80				80	67		19.1		3.9			110				
CR12- 8-35	8	14	3	35	22	9.5	16.4	25	1.1	0.6	0.2	65	-	-	-	-
-55				55	42		18.5		1.9			85				
-80				80	67		21.1		3.1			110			0.3	
CR12- 10-35	10	16	3	35	22	9.5	18.4	30	0.9	0.7	0.2	60	10.6	-	61	-
-55				55	42		20.5		1.6							
-80				80	67		23.1		2.6						0.3	
CR12- 12-35	12	20	4	35	22	9.5	22.4	30	0.7	0.9	0.2	60	12.6	-	61	-
-55				55	42		24.5		1.1							
-80				80	-		25.5		1.9						0.3	

## CF12 Flush type

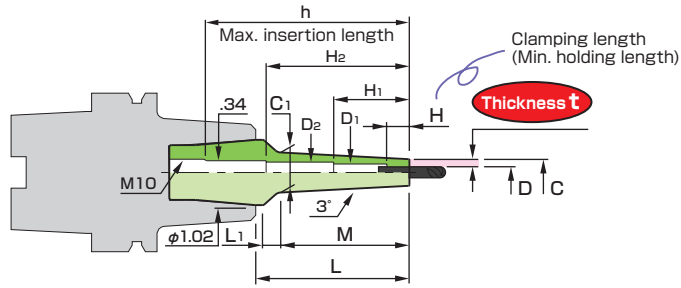
CODE	φD	φC	t	L	M	L <sub>1</sub>	φC <sub>1</sub>	H	S	In Balance Value (g·mm)	Kg	h	φD <sub>1</sub>	φD <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>
CF12- 3-35	3	9.5	3.25	35	22	9.5	11.9	10	1.9	0.5	0.2	65	4	-	45.6	-
-55				55	42		14		3.3			85			65.6	
-80				80	67		16.6		5.3			110			6	
CF12- 4-35	4	12	4	35	22	9.5	14.4	12	1.3	0.6	0.2	65	5	-	38.9	-
-55				55	42		16.5		2.2			85			48.9	
-80				80	67		19.1		3.4			110			7	
CF12- 6-35	6	14	4	35	22	9.5	16.4	18	1.0	0.7	0.2	65	7	-	39.5	-
-55				55	42		18.5		1.7			85			49.5	
-80				80	67		21.1		2.7			110			0.3	
CF12- 8-35	8	16	4	35	22	9.5	18.4	25	0.9	0.8	0.2	65	-	-	-	-
-55				55	42		20.5		1.4			85				
-80				80	67		23.1		2.3			110			0.3	
CF12- 10-35	10	18	4	35	22	9.5	20.4	30	0.7	0.9	0.2	60	10.6	-	61	-
-55				55	42		22.5		1.1							
-80				80	-		-		1.9						0.3	
CF12- 12-35	12	20	4	35	22	9.5	22.4	30	0.7	1	0.2	60	12.6	-	61	-
-55				55	42		24.5		1.1							
-80				80	-		-		1.9						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 <sub>1</sub>	φC <sub>1</sub>	H	S	In Balance Value (g·mm)	lbs	h	φD <sub>1</sub>	φD <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>	
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 <sub>1</sub>	φC <sub>1</sub>	H	S	In Balance Value (g·mm)	lbs	h	φD <sub>1</sub>	φD <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>
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					.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					.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 <sub>1</sub>	φC <sub>1</sub>	H	S	In Balance Value (g·mm)	lbs	h	φD <sub>1</sub>	φD <sub>2</sub>	H <sub>1</sub>	H <sub>2</sub>
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					.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							1.1	1.0	0.54		.52			

■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.

## 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°C (570°F)

Water cooling - significantly reduced cooling time

## Induction heater

### HEAT ROBO 電磁 5000S

φ3~25  
(φ1/8"~1")



200v~240v  
5kW

18 sec.  
6(.24")

Air cooling time  
1 min.

30kg  
(67lbs)



CODE	Size(W×D×H)
HRD-02S	340×470×750 (13.40"×18.50"×29.50")

- Option
  - Heating Coil • Adapter • Base • Cutter Stopper(HSB·HSC)
- Standard Accessories
  - 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	*	35sec.

- 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 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)



CODE	Size(W×D×H)
HRD-01S	230×410×550 (9.10"×16.20"×21.70")
HRD-01S-120NA*	230×550×550 (9.10"×21.70"×21.70")
HRD-01S-230AS*	

- Option
  - Adapter • Base • Cutter Stopper(HSB·HSC)
- Standard Accessories
  - Heating Coil • Heat-resistant gloves • Tweezers • Protection sheet for heating coil
- Note
  - A transformer is required in Europe. Please consult MST about the details of the transformer.
  - 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 Baby 3000S

200v·230v  
3kW

φ3~25  
(φ1/8"~1")

70 sec.  
6(.24")



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*	
-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 Baby 1200S

100v·120v  
1.2kW

φ3~12  
(φ1/8"~1/2")

120 sec.  
6(.24")

8kg  
(18lbs)



CODE	Size(W×D×H)
HRB-02S	370×260×590 (14.60"×10.30"×23.20")
HRB-02S-120NA*	

- Option
  - Adapter • Base • Cutter stopper
- Standard accessories
  - Heat-resistant gloves • Tweezers • Timer
- Note
  - NA=For North America.

### HEAT ROBO Baby 1000

100v  
1kW

φ3~12  
(φ1/8"~1/2")

180 sec.  
6(.24")

3.5kg  
(8lbs)

CODE	Size(W×D×H)
HRB-01	320×160×410 (12.60"×6.30"×16.20")

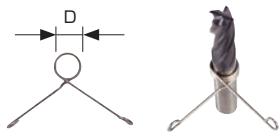
- Option
  - Transformer (→p.12)
- Standard accessories
  - Heat-resistant gloves • Tweezers • Timer • Collet setting stand • Nozzle(2 pcs.)

**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")

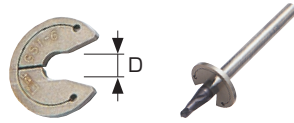
Ex. HSA-3 ※ For HEAT ROBO Baby



**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")

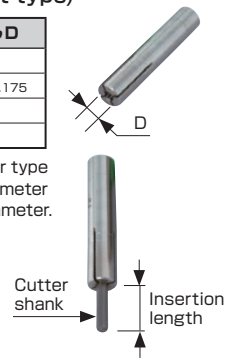
Ex. HSB-6



**HSC (Slit collet type)**

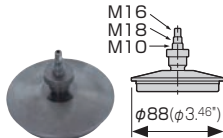
CODE	φD
HSC-3	3
-3.175	3.175
-4	4
-6	6

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



**Adapter**

CODE
ADH-SLK



**Base**

CODE
BAA-01

Size: φ88 × 165  
(φ3.50" × 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.

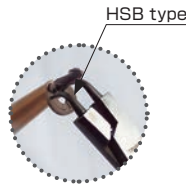
CODE
HPY-01



**Stopper pliers**

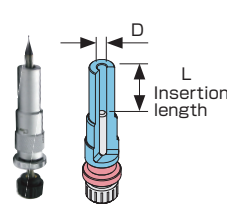
Stopper plier can easily attach the HSB type removable stopper.

CODE
SPY-01



**Cutter adjuster**

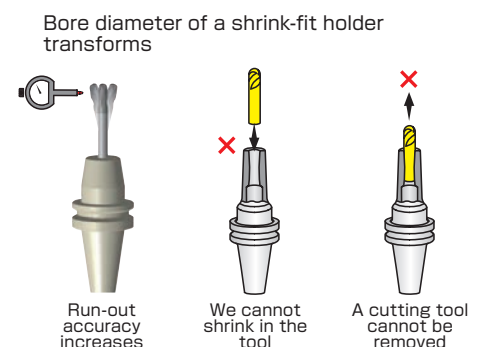
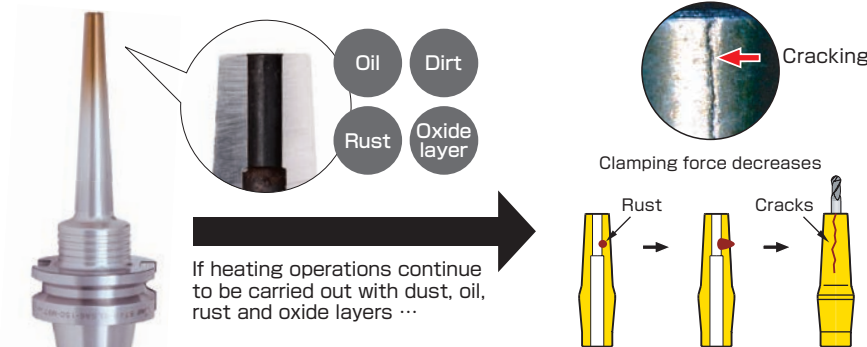
Allows you to set the overhang of a cutting tool or align the lengths of several cutting tools (used in combination with an HSB- or HSC-type stopper)



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.



**Rubber grindstone type**

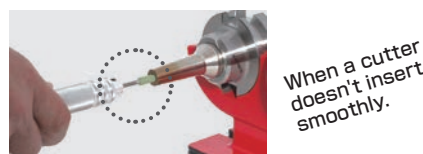
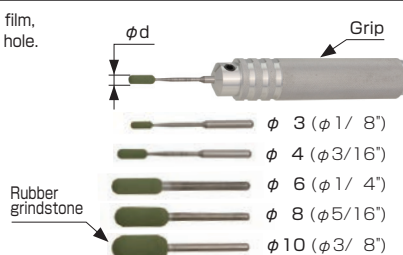
Rubber grindstone-type cleaning tool removes tough oxidized film, as well as any dust and oil, that is generated in the chucking hole.

**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 grindstone	CLT-GTA-3-5	For φ 3 (φ 1/8")	5 pcs.
	4-5	For φ 4 (φ 3/16")	
	6-5	For φ 6 (φ 1/4")	
	8-5	For φ 8 (φ 5/16")	
	10-5	For φ 10 (φ 3/8")	

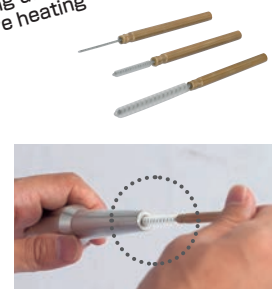


**Brush type**

Nylon brush for cleaning the 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 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)	Shrinking Heater
BT30-SLK6-SET	BT30-SLK6-35 3 pc. -65 1 pc.	CS6-3-15 1 pc. -30 1 pc.	HF-BT30 1 pc.	 <p>Shrinking Heater Heat Robo baby 1000 <b>HRB-01</b> 1 pc.</p>  <p>Cutter Stopper <b>HSB-3</b> -4 -6 1 ea.</p>  <p>Base <b>BAA-01</b> 1 pc.</p>  <p>Wrench 1 pc.</p>
A40-SLK6-SET	A40-SLK6-37 3 pc. -50 1 pc.	-4-15 3 pc. -30 1 pc.	HF-A40 1 pc.	
A50-SLK6-SET	A50-SLK6-42 3 pc. -55 1 pc.	-6-15 3 pc. -30 1 pc.	HF-A50 1 pc.	
E32-SLK6-SET	E32-SLK6-37 3 pc. -50 1 pc.		HF-E32 1 pc.	
E40-SLK6-SET	E40-SLK6-37 3 pc. -50 1 pc.		HF-E40 1 pc.	
E50-SLK6-SET	E50-SLK6-42 3 pc. -55 1 pc.		HF-E50 1 pc.	

## mini 8 type

CODE	Master Holder mini 8 type	SLIMLINE collet mini 8 type	Tool Set Up Stand (tool attachment holder)	Shrinking Heater
BT30-SLK8-SET	BT30-SLK8-35 3 pc. -65 1 pc.	CS8-3-25 1 pc. -4-25 1 pc.	HF-BT30 1 pc.	 <p>Shrinking Heater Heat Robo baby 1000 <b>HRB-01</b> 1 pc.</p>  <p>Cutter Stopper <b>HSB-3</b> -4 -6 -8 1 ea.</p>  <p>Base <b>BAA-01</b> 1 pc.</p>  <p>Wrench 1 pc.</p>
BT40-SLK8-SET	BT40-SLK8-40 3 pc. -70 1 pc.	-45 3 pc. -6-25 1 pc.	HF-BT40 1 pc.	
A40-SLK8-SET	A40-SLK8-50 3 pc. -70 1 pc.	-45 3 pc. -8-25 1 pc.	HF-A40 1 pc.	
A50-SLK8-SET	A50-SLK8-55 3 pc. -75 1 pc.		HF-A50 1 pc.	
A63-SLK8-SET	A63-SLK8-55 3 pc. -75 1 pc.		HF-A63 1 pc.	
E40-SLK8-SET	E40-SLK8-50 3 pc. -70 1 pc.		HF-E40 1 pc.	
E50-SLK8-SET	E50-SLK8-55 3 pc. -75 1 pc.		HF-E50 1 pc.	
F63-SLK8-SET	F63M-SLK8-55 3 pc. -75 1 pc.		HF-F63 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

