Technical data

Shrink-fit Heater HEAT ROBO

■Specifications

Shrink-fit Heater Spec.	電磁5000S	^{匪则} 電 <i>磁1200S</i>	Baby 3000S	Baby 1200S	Baby 1000	
CODE	HRD-02S	HRD-01S	HRB-03ST	HRB-02S	HRB-01	
Heating method	ethod Induction type		Hot air type			
Output power	5000 w	1200 w	3000 w	1200 w	1000 w	
Cutter dia.	~ø32 [1"]	~ø12 [1/2"]	~ø32 [1"]	~ø12	[1/2"]	
Heating time	18 sec.		70 sec.	120 sec.	180 sec.	

■Compatibility table by holder type

Shrink-fit Heater Holder type		^{newl} 電磁 12005	Baby 3000S	Baby 1200S	Baby 1000
MONO series	0	Δ	0	Δ	×
2 PIECE type	0	0	0	0	0
UNO	0	0	0	0	×
HYPER VERSION	0	×	0	×	×
Z	0	×	0	×	×
STRAIGHT arbor	0	A	0	Δ	×

[○]: Available [X]: Not available [△]: Refer to size chart. [▲]: Requires recombinations of adaptors and bases. *Please verify compatibility for specific holders.

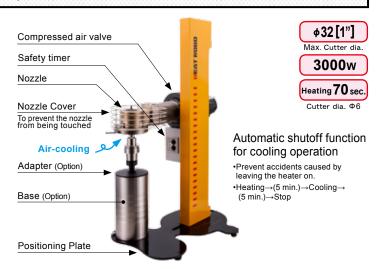
HOT AIR HEATER

No over-heating. Compact Affordable.

Baby 3000S

CODE	Area	Size (W×D×H)	Power (Single phase)	Kg
HRB-03ST	Japan	430×	200V	9.5
-03ST-230NA	North America	330× 660mm	230V	(21)
-03ST-230EU	Europe			
-03ST-230AS	Asia			

- ■Std. Access.
 - Heat-resistant gloves Safety timer Tweezers
- **■**Option
- •Please choose parts on P.12-15
- - Factory compressed air (5kgf/cm²) is required.(consumption air volume: 245 l/min)
 - Prepare an air tube (O.D:8mm) and a connection coupling.
 - A type without safety timer is also available. Ex. HRB-03S





	-	•		
CODE	Area	Size (W×D×H)	Power (Single phase)	Kg lbs
HRB-02S	Japan	370×260×590mm	100V	8.0
-02S-120NA	North America	370 \ 200 \ 59011111	120V	(18)

- ■Std. Access.
 - Timer Heat-resistant gloves
- •Please choose parts on P.12-15
- Some holders cannot be used.



CODE	Area	Size (W×D×H)	Power (Single phase)	Kg lbs
HRB-01	Japan	340×160×410mm	100V	3.5

- ■Std. Access.
- Adapter (ADH-SLK) Timer Nozzles, 2 pieces (HNZ-17, HNZ-22) • Heat-resistant gloves •Tweezers
- ■Option
 - Please choose parts on P.12-15
- A transformer is required in other volfage Please consult MST about the details of the transformer.

φ12 [1/2"]

Max. Cutter dia

1200w

Heating 18 sec. Cutter dia. Φ6

INDUCTION HEATER

Compact desktop type. Easy operation with touch panel.

電磁5000\$

CODE	Size	Power	Kg
	(W×D×H)	(3 phases)	lbs
HRD-02SH	340×470×750mm	200-240V	30 (67)

■Std. Access.

Heat-resistant gloves •Tweezers

■Option

Heating coil(HRD2-CL)
 Please choose parts on P.12-15

■Note

- Use type HSB/HSC for cutter stopper.
- Compressed air required: 5Kgf/cm² (air-consumption volume: 245l/min)
- The customer should prepare the following items : auxiliary parts including the air tube (O.D: 8mm.) an air filter and a coupler.



φ32[1"] Max. Cutter dia 5000w Heating 18 sec. Cutter dia. Φ6

Heating coil (Option)

CODE	Holder I.D	Heating time	φC	Н
HRD2-CL1	φ3~ 6 [1/8" ~ 1/4]	18 sec.	25	33
-CL2	φ7~12*1 [5/16" ~ 1/2]	28 sec.	35	42
-CL3	φ16, 20 ^{*2*3} [5/8", 3/4]		45	47
-CL4	φ25 [1"]	40 sec.	55	57
-CL5	MONO series (•MONO 3°[SLRB•SLFB8/10/12/16-M22])	35 sec.	fig	;. 1
-CL6	HYPER VERSION (•Short type(All sizes) •Heavy-duty type [ϕ 12, 16])	40 sec.	60	47
-CL7	φ32, HYPER VERSION (•Heavy-duty type [φ20, 25])	60 sec.	70	67

fig. 1 φ38 σ58 Cross-section view

■Std. Access.

Protection sheet for heating coil →P.15

■Note

• The coil protection sheet is a consumable part. Replace the coil protection sheet(option) when you see that it is colored or distorted by the heat.

■Caution

- To protect the heating coil,don't heat a holder without using a coil protection sheet.

 When ordering, please note that holders for coil CL5, CL6, or CL7 cannot be heated by CL2, CL3, or CL4.
- *1 Use the coil, No.5 for SLRB·SLFB8/10/12-M22.
- *2 Use the coil, No.5 for SLRB-SLFB16-M22.*3 Use the coil, No.4 for A50M-SLRB20, F63-SLFB20

磁**1200S**

CODE	Area	Size (W×D×H)	Power (Single phase)	Kg lbs
HRD-01S	Japan	230×410×550mm	100V	14 (31)
HRD-01S-120NA	North America	230×410×550mm	120V	19
-230AS	Asia	230 \ 4 0 \ 3 \ 3 \ 1	230V	(42)

■Std. Access

Heating coil(HRD-CL1, CL2) •Heat-resistant gloves •Tweezers

■ Option

•Please choose parts on P.12-15

- Use type HSB/HSC for cutter stopper.
- Compressed air required: 5Kgf/cm2 (air-consumption volume: 245ℓ/min)
- The customer should prepare the following items : auxiliary parts including the air tube (O.D: 8mm.) an air filter and a coupler.

A transformer is required in Europe.
 Please consult MST about the details of the transformer.

Heating coil (Standard Accessories)

CODE	Holder I.D	Heating time	φС
HRD-CL1	φ3~ 6 [φ1/8" ~ 1/4]	18 sec.	18
-CL2	$_{\phi}7^{\sim}12 [\phi 5/16" \sim 1/2]$	33 sec.	28

■Std. Access.

ullet Protection sheet for heating coil ightarrow P.15

■Caution

• To protect the heating coil,don't heat a holder without using a coil protection sheet.





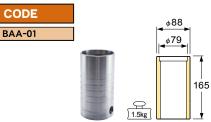
The coil protection sheet is a consumable part. Replace the coil protection sheet(option) when you see that it is colored or distorted by the heat.



Technical data

Option

Base



Examples of typical uses



Adapter

Adapter			Holder		5	hrink-Fit l	leater mo	del for Us	6 e
CODE	Dimensions		Туре	Screw size	HRD-02S	HRD-01S	HRB-03S	HRB-02S	HRB-01
	, M6	2 PIECE type	6 type	М6	0	0	0	0	0
	M8 M10	SLIMLINE	8 type	M8					Adaptor (ADH-SLK)
ADH-SLK		collet	12 type	M10					is included. No need to
	φ 88 φ 88	STRAIGHT	ST10 ST12	M6 M8					purchase base (BAA- 01) for 2-piece
		arbor	ST16/20/25	M10					collet type 12.
ADH-HSK25	E25= φ 14 E32= φ 17	MONO 3°	E25		0	A	0	Δ	×
-HSK32	E40=φ21 E50=φ26	MONO CURVE	E32			Some holders cannot be used. Please refer to the dimensional		*Some holders cannot be used	
-HSK40E		UNO	E40			sheet.		C (max.) → ◆	
-HSK40A	0.8kg	HYPER VERSION	A40					м	
-HSK50		Z	A50 / E50 /	F63				Available	
-40	φ63.5 0.6kg		BT40 / A63 F63 / F80PE DN40 / CT4					dimension C=Max. \$\phi32 %M=22 has a max. diameter of 24 at C.	
-50	0.5kg 0107		BT50 / A100 DN50 / CT5						
-15TR	15TR=∮19.3 → < S20T=∮22.5		15TR3						
-S20TR	BT30=ø32		RS20 / S201	r R					
-BT30	0.9kg \$\phi 88\$		ВТ30						
	M10 \	STRAIGHT arbor	ST16/20/25	M10	0	A ** Some holders	0	▲ **Some holders cannot be used	×
BAS-01	M16 M24		ST32	M16		cannot be used. Please refer to the dimensional		C (max.)	•
	0.7kg \$\displaystyle{\psi}\$		ST42	M24		sheet.		M M	
-02	\$10~42 \$\frac{10}{2.4kg}\$\$\\ \phi \tag{102}\$\$		Carbide Sha	ınk				Available dimension C=Max. \$32 %M=22 has a max. diameter of 24 at C.	

ϕ 70 Nozzle (Baby3000S)



Holder

•MONO 3° SLRB32 ø32

[O] : Available

•HYPER VERSION Heavy type (All sizes)

[X]: Not available

 $[\triangle]$: Restricted use

Option

■Cutter Stopper

Used as a stopper in the holder when shrink fitting or removing a cutting tool.

HSA type (Coil Spring type)



CODE	φ D	Set Contents(Q'ty)
HSA-D [Ex.: HSA-6]	3 , 3.175[1/8] , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 ,12 , 16 , 20 , 25 , [3/16 , 1/4 , 5/16 , 3/8 , 1/2]	Each size 10 ea. /SET
HSA-E	3,4,6,8,10,12	1 ea., 6 pieces in total
-F	3,4,5,6,7,8,9,10,11,12	1 ea. , 10 pieces in total
-EF	3,4,5,6,8,10,12,16,20,25	1 ea., 10 pieces in total

■Note • It cannot be used with HEAT ROBO DENJI.

HSB type (Plate Spring type)

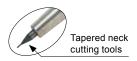


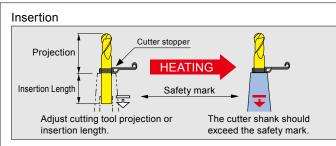
CODE	φ D	Set Contents(Q'ty)
HSB-D [Ex.: HSB-3]	3 , 3.175[1/8] , 4 , 5 , 6 , 7 , 8 , 9 , 10 , 11 , 12 , 16 , 20 , 25 , 32 [3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 1"]	1 piece
-E	3,4,6,8,10,12	1 ea., 6 pieces in total
-F	3,4,5,6,7,8,9,10,11,12	1 ea., 10 pieces in total
-EF	3 . 4 . 5 . 6 . 8 . 10 . 12 . 16 . 20 . 25	1 ea 10 pieces in total

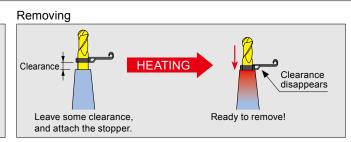
HSC type (Slit Collet type)



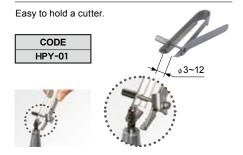
CODE	φ D
HSC-D [Ex.: HSC-3]	3 , 3.175[1/8] , 4 , 6







Cutter Pliers



Stopper Pliers

CODE SPY-01

Easy to attach and detach for HSB type.

		A	400
		2	
-3	C)		



For additional order

-
Right Hand
Left Hand

Heat-Resistant Gloves



Cooling Tray for heated cutting tools after removal from a holder.

CODE		
SDH-01		

Cutter Tray

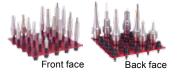
Size:170×170(mm)



The stand for the SLIMLINE collet, straight arbor and small shank holders (HSK-E25 and E32) is available in four colors, enabling simple color-coding.

CODE	Color	Front face	Back face	max. Q'ty
SDKT-RE	Red			
-BL	Blue	SLIMLINE collet Straight arbor	Small shank holders	25 pieces
-GR	Green	Straight arbor	(HSK-E25 / E32)	each
-GD	Gold		ľ	

Size:190×190(mm)





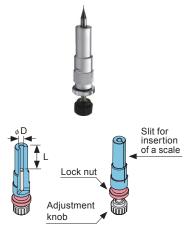


STRAIGHT arbor

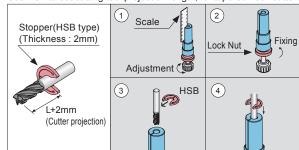
Cutter Adjuster

Simply adjustment for cutting tool projection and insertion length.

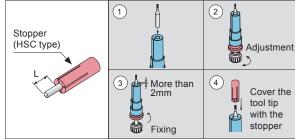
CODE	φD	L
HAJ-3	3	10~ 30
-3 .175	3.175 [1/8]	
-4	4	13~ 30
-3/16	[3/16]	
-6	6	19~ 45
-1/4	[1/4]	
-8	8 [5/16]	21~ 55
-10	10 [3/8]	22~ 70
-12	12	23~ 85
-1/2	[1/2]	
-16	16 [5/8]	26~ 90
-20	20 [3/4]	37~100
-25	25	40~100
-1"	[1"]	



Use HSB to set cutting tool projection length, for tapered neck cutters.



Use HSC to set cutting tool insertion length, for tapered neck cutters.



■Cleaning tools

Brush type

Nylon brushes for internal bores cleaning.

CODE	I.D		
AQC-BR-SET	3 [1/8], 4 [3/16], 6 [1/4], 8 [5/16], 10 [3/8], 12 [1/2], 1 ea. 6 pieces in total		
BR 3-5	3 [1/8], 5 pcs.		
BR 4-5	4 [3/16], 5 pcs.		
BR 6-5	6 [1/4], 5 pcs.		
BR 8-5	8 [5/16], 5 pcs.		
BR10-5	10 [3/8], 5 pcs.		
BR12-5	12 [1/2], 5 pcs.		

■ Caution

Do not use when holder is hot.



Rubber grinding stone type

To eliminate strong oxidized film, burned-in dust and oil that have been generated in the internal bores.

Standard set

CODE	Note
CLT-GTA-01	1 ea. of below model

arts

i ai ts			
CODE	NAME	φd	Q'ty
CLT-GTA-GP	Grip	-	1 pc.
CLT-GTA 3-5	Rubber grind stone	3	5 pcs.
-GTA 4-5		4	5 pcs.
-GTA 6-5		6	5 pcs.
-GTA 8-5		8	5 pcs.
-GTA10-5		10	5 pcs.



When it is getting had to insert cutters!

■Aqua Cool

Aqua cool kit

Cooling kit for cooling SLIMLINE holders after shrink fitting or removing

•	
CODE	Note
AQC-KIT-01	1 ea. for below model

Parts

CODE	Name	Note
AQC-EK-01-2	Special Liquid	2ℓ of undiluted Solution, Use at a dilution ratio of 3%.
-AT-01	Aqua Tray	Drainer plate
-AH-01	Adapter Hanger	Hanger for lowering holders into liquid.
CN -245	Container Box	-
-FT	Lid for Container Box	





() Inside dimension

OTHERS

Protection sheet for heating coil (For Induction Heater)

Don't heat holders without using a coil protection sheet.

CODE	Heater model
HRD -DN _ Coil No.	HEAT ROBO DENJI 1200S
HRD2-DN	HEAT ROBO DENJI 5000S

