

ELECTROMAGNETIC INDUCTION HEATER

100V
1.2kW

18sec.
($\phi 12$ collet)

Air Cooling
1 min.



Desk Top Type

MAX $\phi 12$
(Cutter shank dia.)

Heating Coil

Cooling Nozzle

Adapter (Option)

Base (Option)

Touch Panel

- Timer
- Coil selection
- Heating
- Cooling



HEAT ROBO

DENJI
電磁 1200

CODE	HRD-01
VOLTAGE	AC100V
POWER SUPPLY	1200W
SIZE	W270 x D410 x H550
HEATING TIME	18 SEC. ($\phi 12$ collet)

Standard Accessories

- Tweezers •Heat-resistant gloves •Coil (2pcs.)

■Note •Factory compressed air (5kgf/cm^2) is required.
(Consumption air volume : 245l/min)

- Please prepare an air tube (outer diameter of 8 mm) and connection coupling.

Transformer for HEAT ROBO DENJI 1200

HEAT ROBO DENJI 1200 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



Heating Coil (Standard Accessories)

	CODE	Heating time	Cutter shank
Coil 1	HRD-CL1-01	18sec.	$\phi 3 \sim 6\text{mm}$
Coil 2	-CL2-01	33sec.	$\phi 7 \sim 12\text{mm}$




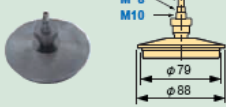

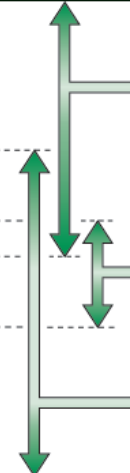
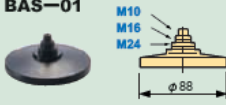
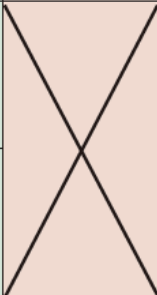
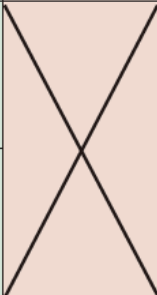










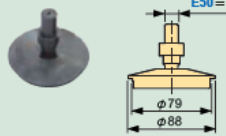

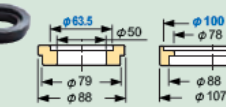
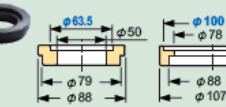
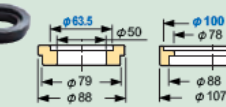
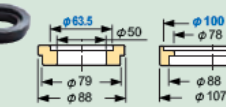
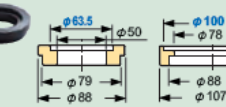
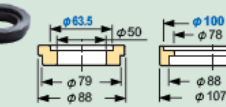
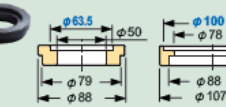
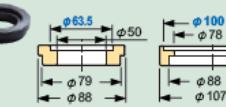








NOTE: Adapter ADH-SLK and Base BAA-01 are standard with the Heat Robo 1200s system. Remaining adapters and bases are available for purchase.

Option

Required !

Setup Jigs for Shrink-Fit Holders (Adapter · Base)

The table below shows the jigs for attaching and positioning a Slimline shrink-fit holder to a shrink-fit heater. Adapters are used stand-alone or in combination with a base.

Holder		Adapter		Base	Shrink-Fit Heater Types Available for Use								
Type	Form				HRD-01	HRB-02S	HRB-03S	HRB-01					
2 PIECE MODULAR	CS(Slim type) CR(Regular type) CF(Flush type)		M10	ADH-SLK		BAA-01		○	○	○	×		
	ST10	M 6		BAS-01				○	○	○	○		
ST12	M 8	BAS-02			○			○	○	○			
ST16/20/25	M10												
ST32	M16												
ST42	M24												
Carbide shank ST○○C	—												
MONO SERIES	E25		ADH-HSK25		BAA-01		○	○	○	○			
	E32		-HSK32										
	A40 / A40S / E40		-HSK40										
	A50 / E50 / F63		-HSK50										
	BT40 / A63 / F63		-40										
	BT50 / A100		-50										
	15TR3		-15TR										
	RS20 / S20TR		-S20TR										
	BT30		-BT30										

HSB type (Plate Spring Type)

CODE	D
HSB-D	3, 3.175, 4, 6, 8, 10, 12, 16, 20, 25

• Can be firmly affixed and stabilized.



Cutting Tool Height Stop

SHANK DIA	SST Number	MST Number
3MM	MST 9676	HSB-3
4MM	MST 9678	HSB-4
6MM	MST 9680	HSB-6
8MM	MST 9682	HSB-8
10MM	MST 9670	HSB-10
12MM	MST 9672	HSB-12
1/8IN	MST 9677	HSB-3.175
3/16IN	HSB-3/16	HSB-3/16
1/4IN	HSB-1/4	HSB-1/4
3/8IN	HSB-3/8	HSB-3/8
1/2IN	HSB-1/2	HSB-1/2

Stopper Pliers

Pliers for Cutter Stopper (HSB type)

CODE
SPY-01



Brush Set

Cleaning Brush for Slim-line Chucking Hole

CODE
AQC-BR-SET

• Including diameter for 3, 4φ in each 1 set



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)

To Set The Overhang of a Cutting Tool Using The HSB-Type Stopper

- 1 Scale
- 2 Lock Nut
- 3 Stopper (HSB type)
- 4 Push down the stopper to the bottom

To Set The Insertion Length of a Cutting Tool Using The HSC Type Stopper

- 1
- 2 Adjustment
- 3 Expose the tool tip by 2mm or more
- 4 Cover the tool tip with the 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
- 16	16	33~90
- 20	20	41~100
- 25	25	46~100

Cutter Height Setting Gage

SHANK DIA	SST Number	MST Number
3MM	MST 9631	HAJ-3
4MM	MST 9632	HAJ-4
6MM	MST 9633	HAJ-6
8MM	MST 9634	HAJ-8
10MM	MST 9626	HAJ-10
12MM	MST 9627	HAJ-12
1/8IN	HAJ-3.175	HAJ-3.175
3/16IN	HAJ-3/16	HAJ-3/16
1/4IN	HAJ-1/4	HAJ-1/4
3/8IN	HAJ-10	HAJ-10
1/2IN	HAJ-1/2	HAJ-1/2

Cutter Tray

Cooling Tray for Heated Cutting Tools Immediately After Removal From Holder

CODE

SDH-01

Size:170×170

- Used for cooling cutting tools on the tray.
- Made from aluminum.



NOTE: The red master holder (SDKT-RE) is included with the Heat Robo 1200S system. Other colors are available for purchase.

Master Holder/Collet Stand

CODE

SDKT-(2-digit color code)



CODE

Red

SDKT-RE

Blue

SDKT-BL

Green

SDKT-GR

Gold

SDKT-GD

n.



Master Holder

Master Holder

BT Shank



HSK Shank



Fig.1

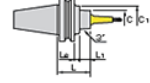


Fig.2

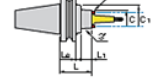


Fig.3

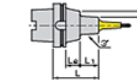
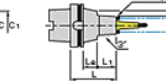


Fig.4



C CODE	Fig.	L	φC	L1	L2	φC1	N	N
BT30-SLK12-35	1	35	30	13	-	-	0.4	1.0
BT40-SLK12-45	1	45	40	18	-	-	1.1	1.4
-45F	2	45	41	-	-	-	1.4	1.6
-75	1	75	30	49	-	-	1.4	1.9
-75F	2	75	41	-	-	-	2.2	3.2
-135F	1	135	108	-	-	-	4.0	4.7
BT50-SLK12-75	1	75	30	25	12	65	4.4	5.3
-75F	2	75	41	-	-	-	4.7	5.7
-105F	1	105	55	-	-	-	6.4	14.3
-135F	1	135	95	-	-	-	11.0	31.3
-225	1	225	30	150	37	90	11.0	31.3
-315	1	315	127	90	-	-	0.9	3.6
A 50-SLK12-75	3	75	30	49	-	-	1.0	5.0
A 63-SLK12-75	4	75	41	-	-	-	1.1	5.5
-75F	4	75	30	109	-	-	1.7	8.5
-135	3	135	30	41	-	-	1.9	9.6
-135F	4	135	41	-	-	-	3.4	20.7
A100-SLK12-105	3	105	30	43	33	65	3.5	20.9
-105F	4	105	41	-	-	-	3.9	21.1
-135F	1	135	73	-	-	-	5.4	36.3
-225	3	225	30	162	92	92	6.4	46.5
-315	1	315	150	136	-	-	0.9	2.9
E 50-SLK12-75	1	75	49	-	-	-	1.0	3.4
F63M-SLK12-75	1	75	30	12.1	45	1.0	1.0	4.6
DN40AD-SLK12-45	1	45	30	13.9	12.1	4.3	1.3	5.9
-45F	2	45	41	7.9	19	5.5	3.4	12.6
-75	1	75	30	43.9	12.1	2.5	4.3	19.0
-75F	2	75	41	55.9	-	1.1	2.6	8.0
DN50AD-SLK12-75	1	75	30	40	15.9	70	3.4	12.6
-75F	2	75	41	100	-	-	4.3	19.0
-135F	1	135	41	100	-	-	4.3	19.0
CT40-SLK12-45	1	45	41	26	-	44.5	1.1	2.6
CT50-SLK12-75	1	75	30	40	15.9	70	3.4	12.6

Optional accessories: → 26mm collet → 16mm → 10mm → 8mm → 6mm → 5mm → 4mm → 3mm → 2mm → 1mm → 0.5mm → 0.2mm → 0.1mm

Standard accessories: → Collet (not included)

Note: → A dedicated retention knob is supplied with the 0750 as a standard accessory. When ordering, specify whether a M5-1 or M5-2 retention knob is required.

Caution: → To obtain the 0750, use a commercially available 14 mm single-ended wrench.

NOTE: The collet specification charts below shows the complete listing for available collets. However, please note that the Heat Robo 1200S system only comes standard with your choice of one of the following collets:

CF12-3-55	CF12-4-55	CF12-6-55	CF12-8-55	CF12-10-55	CF12-12-55
CF12-1/8-55	CF12-3/16-55	CF12-1/4-5	CF12-3/8-55	CF12-1/2-55	

Collets other than the standard items above may be purchased at an additional charge.

SLIMLINE collet

Metric

CS12 (Slim type)

Thickness = 1.5

Rigidity Value (mm/kg)
(reference P.152)

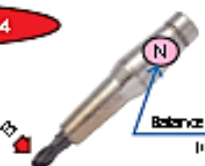
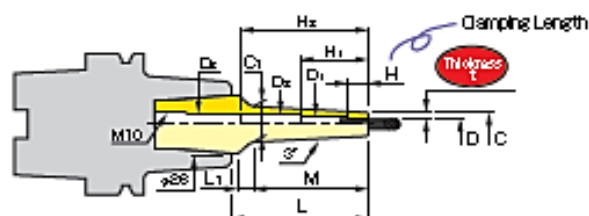
Balance Value (g·mm)
(reference P.152)

※ The values below are given for the S.F40-SLK1243.
 (The values below are comparable for any other combination.)

CODE	φD	φC	Thickness t	L	M	L1	φC1	H	S	N	kg	Max. bore hole length	φD1	φD2	φD3	H1	H2	
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				90	67		13.1			15.0	0.7		110	4	8	8.8	38.4	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	9.5	10	4.6	0.5	0.2	65	-	-	4	-	-	
- 55				55	42		10.6			9.0			85					
- 80				90	67		13.2			14.3	0.7		110	4	8	8.8	38.4	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				90	67		14.1			11.9	0.7		110	5	7	8.8	38.4	74.8
-110				110	97		17.2			16.6	0.9		140					104.8
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		8.8	49.3	
- 80				90	67		15.1			9.7	0.8		110					88.3
-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	7		8.8	49.8	
- 80				90	67		16.1			8.0	0.8		110					88.8
-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	-	-	8.8	-	-	
- 55				55	42		14.5			4.1	0.7		85					
- 80				90	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	-	-	8.8	-	-	
- 55				55	42		15.5			3.4	0.7		85					
- 80				90	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	-	-	8.8	-	-	
- 55				55	42		16.5			2.9	0.9							
- 80				90	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	-	-	10.8	-	-	
- 55				55	42		17.5			2.5	0.9							
- 80				90	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	-	-	11.8	-	-	
- 55				55	42		18.5			2.3	1.0							
- 80				90	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	-	-	12.8	-	-	
- 55				55	42		19.5			2.1	1.1							
- 80				90	67		22.1			3.5	1.4							
-110				110	-	-	-			5.0	1.3	0.3						

CR12 (Regular type)

Thickness = 2.25 ~ 4

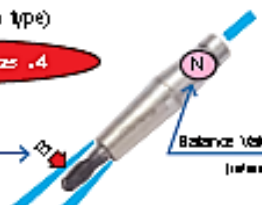
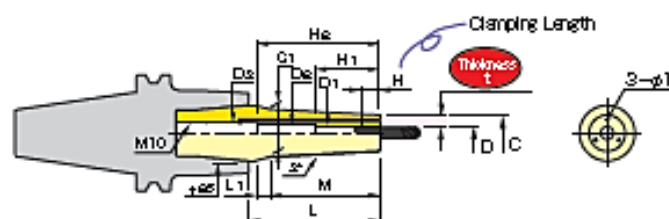
Rightly Value (μm/kg) 3
(reference) P/52Balance Value (g·mm)
(reference) P/52**Metric**

※ The values below are given for the S740-SLK1245.
 (The values below are comparable for any shank combination.)

CODE	φD	φC	Thickness t	L	M	L1	φC1	H	S	N	ICg	Max. Insertion Length	φD1	φD2	φD3	H1	H2
CR12- 3-35	3	7.5	2.25	35	22	9.5	9.9	10	2.9	0.5	0.2	65	-	-	4	-	-
-55				55	42		12		5.5			95					
-80				90	67		14.6		9.9	0.7		110	4	6	8.8	39.4	74.3
CR12- 4-35	4	10	3	35	22	9.5	12.4	12	1.7	0.5	0.2	65	-	-	5	-	-
-55				55	42		14.5		3.1	0.6		95					
-80				90	67		17.1		5.1	0.9		110	5	7	8.8	39.4	74.6
CR12- 6-35	6	12	3	35	22	9.5	14.4	18	1.3	0.6	0.2	65	-	-	7	-	-
-55				55	42		16.5		2.4	0.7		95	7		8.8	49.6	
-80				90	67		19.1		3.9	0.9		110					
CR12- 8-35	8	14	3	35	22	9.5	16.4	25	1.1	0.6	0.2	65	-	-	8.8	-	-
-55				55	42		18.5		1.9	0.9		95					
-80				90	67		21.1		3.1	1	0.3	110					
CR12-10-35	10	16	3	35	22	9.5	18.4	30	0.9	0.7	0.2	60	-	-	10.8	-	-
-55				55	42		20.5		1.6	0.9							
-80				90	67		23.1		2.6	1.1	0.3						
CR12-12-35	12	20	4	35	22	9.5	22.4	30	0.7	0.9	0.2	60	-	-	12.8	-	-
-55				55	42		24.5		1.1	1.1							
-80				90	-	-	25.5		1.9	1	0.3						

CF12 (Fast type)

Thickness = 3.25 ~ 4

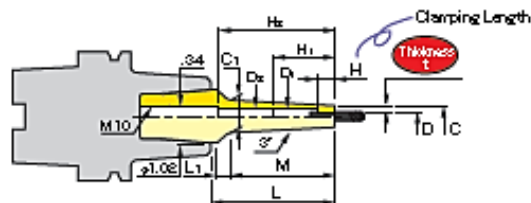
Rightly Value (μm/kg) 3
(reference) P/52Balance Value (g·mm)
(reference) P/52**Metric**

※ The values below are given for the S740-SLK1245.
 (The values below are comparable for any shank combination.)

CODE	φD	φC	Thickness t	L	M	L1	φC1	H	S	N	ICg	Max. Insertion Length	φD1	φD2	φD3	H1	H2
CF12- 3-35	3	9.5	3.25	35	22	9.5	11.9	10	1.9	0.5	0.2	65	-	-	4	-	-
-55				55	42		14		3.3	0.6		95					
-80				90	67		16.6		5.3	0.9		110	4	6	8.8	44.4	74.3
CF12- 4-35	4	12	4	35	22	9.5	14.4	12	1.3	0.6	0.2	65	-	-	5	-	-
-55				55	42		16.5		2.2	0.9		95					
-80				90	67		19.1		3.4	0.9		110	5	7	8.8	39.4	74.6
CF12- 6-35	6	14	4	35	22	9.5	16.4	18	1.0	0.7	0.2	65	-	-	7	-	-
-55				55	42		18.5		1.7	0.9		95	7		8.8	49.6	
-80				90	67		21.1		2.7		0.3	110					
CF12- 8-35	8	16	4	35	22	9.5	18.4	25	0.9	0.9	0.2	65	-	-	8.8	-	-
-55				55	42		20.5		1.4	1		95					
-80				90	67		23.1		2.3	1.2	0.3	110					
CF12-10-35	10	18	4	35	22	9.5	20.4	30	0.7	0.9	0.2	60	-	-	10.8	-	-
-55				55	42		22.5		1.1	1.1							
-80				90	-	-	-		1.9	1	0.3						
CF12-12-35	12	20	4	35	22	9.5	22.4	30	0.7	1	0.2	60	-	-	12.8	-	-
-55				55	42		24.5		1.1	1.2							
-80				90	-	-	-		1.9	1.1	0.3						

SLIMLINE collet
2 PIECE modular
Inch

 Rigidity Value (mm/kg)³
 (reference) P.152

 Balance Value (g-mm)
 (reference) P.152

 The values below are given for the C140-SLK12-45.
 (The values below are comparable for any shank combination.)

CODE	ϕD	ϕC	Thickness t	L	M	L1	$\phi C1$	H	S	N	ba	Max. insertion length	$\phi D1$	$\phi D2$	H1	H2
CS12-1/ 8- 80	.1250	.24	.059	3.15	2.64	.37	.52	.39	14.0	0.7	0.40	4.33	.16	.24	1.57	2.86
-110				4.33	3.92		.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	-	1.87	-
-110				4.33	3.92		.71		14.2	1.0	0.51	5.51			2.76	
-1/ 4- 80	.2500	.37	.059	3.15	2.64		.64	.70	7.4	0.9	0.44	4.33	.28		1.87	
-110				4.33	3.92		.77		10.5	1.1	0.56	5.51			2.76	
-5/16- 80	.3125	.43		3.15	2.64		.71	.99	5.6	1.0	0.47	4.33	-		-	
-110				4.33	3.92		.93		8.1	1.2	0.61	5.51				
-3/ 8- 80	.3750	.49	.059	3.15	2.64		.77	1.18	4.4	1.0	0.50	2.35	.41		2.4	
-110				4.33	3.92		.99		6.4	1.3	0.66					
-1/ 2- 80	.5000	.62		3.15	2.64	-			3.1		0.55		.64			
-110				4.33	3.92	-	-		4.8	1.7	0.77					
CR12-1/ 8- 55	.1250	.36	.089	2.17	1.65	.27	.53	.39	3.5	0.6	0.41	3.35	.16	-	2.36	-
-3/16- 55	.1875	.42	.119				.60	.45	2.7	0.7	0.42		.24		1.87	
-1/ 4- 55	.2500	.49					.66	.70	2.2	0.8	0.44		.28			
-5/16- 55	.3125	.55					.72	.99	1.9		0.45		-		-	
-3/ 8- 55	.3750	.61			1.65		.79	1.18	1.6	0.9	0.47	2.35	.41		2.4	
-1/ 2- 35	.5000	.81	.157	1.38	.87		.91		0.6	1.0	0.40		.64			
- 55				2.17	1.99		-		1.1	0.9	0.54					
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		1.87	
-3/ 8- 55	.3750	.69					.86	1.18	1.3	1.1	0.51		.64		2.4	
-1/ 2- 55	.5000	.81			1.99	-	-		1.1	1.0	0.54		.62			