HEAT ROBO
Baby 1200S

SHRINK-FIT HEATER

<table>
<thead>
<tr>
<th>CODE</th>
<th>HRB-02S</th>
<th>HRB-02S-120NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLTAGE</td>
<td>AC100V</td>
<td>AC120V</td>
</tr>
<tr>
<td>POWER</td>
<td>1200W</td>
<td></td>
</tr>
<tr>
<td>SUPPLY</td>
<td>W362 × D105 × H570</td>
<td></td>
</tr>
<tr>
<td>SIZE</td>
<td></td>
<td>C</td>
</tr>
<tr>
<td>EFFECTIVE</td>
<td></td>
<td>Max C = dia. 32 (Max dia. 24 only for M22 type)</td>
</tr>
<tr>
<td>SHRINK-FIT</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DIMENSIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEATING</td>
<td></td>
<td>120SEC. (φ 12 collet)</td>
</tr>
<tr>
<td>TIME</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Standard Accessories
- Tweezers
- Timer

Option
- Please choose from the common parts on P. 8.

Nozzle Cover
To prevent the nozzle from being touched

Nozzle

Adapter (Option)

Base (Option)

Positioning Plate
Easy positioning of holder

MAX φ 12
(Cutter shank dia.)

Nozzle Cover

Nozzle

Adapter (Option)

Base (Option)

Positioning Plate

MAX φ 25
(Cutter shank dia.)

Note
- Factory compressed air (9kgf/cm²) is required. (Consumption air volume: 245 l/min)
- Please prepare an air tube (outer diameter of 8 mm) and connection coupling.
- Please choose from the common parts on P. 8.

HEAT ROBO
Baby 3000S

Compatible with All MST Shrink-Fit Holders

<table>
<thead>
<tr>
<th>CODE</th>
<th>HRB-03S</th>
<th>HRB-03S-230NA</th>
</tr>
</thead>
<tbody>
<tr>
<td>VOLTAGE</td>
<td>AC200V</td>
<td>AC230V</td>
</tr>
<tr>
<td>POWER</td>
<td>3000W</td>
<td></td>
</tr>
<tr>
<td>SUPPLY</td>
<td>W450 × D215 × H570</td>
<td></td>
</tr>
<tr>
<td>SIZE</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEATING</td>
<td></td>
<td>70SEC. (φ 12 collet)</td>
</tr>
<tr>
<td>TIME</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Standard Accessories
- Tweezers
- Heat-resistant gloves
- Timer

Option
- Please choose from the common parts on P. 8.

Nozzle Cover

Nozzle

Adapter (Option)

Base (Option)

Positioning Plate

MAX φ 25
(Cutter shank dia.)

Nozzle Cover

Nozzle

Adapter (Option)

Base (Option)

Positioning Plate

High power

MAX φ 25
(Cutter shank dia.)
**Cost-Effective Hot-Air Type**
**Electromagnetic Induction Heater**
**Instant Shrink Fitting**

**Easy Operation**
- Easy positioning by single hand.
- Water Cooling - Significantly Reduced Cooling Time
- Low-Temperature Shrink Fitting at 300°C

**HEAT ROBO**

**DENJi 1200**

- **CODE**: HRD-01
- **VOLTAGE**: AC100V
- **POWER SUPPLY**: 1200W
- **SIZE**: W270 × D410 × H550
- **HEATING TIME**: 18 SEC. (φ12 collet)

- **Standard Accessories**
  - Tweezers
  - Heat-resistant gloves
  - Coil (2pcs.)

- **Note**
  - Factory compressed air (5kgf/cm²) is required.
  - 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.

**HEATING Coil (Standard Accessories)**

<table>
<thead>
<tr>
<th>CODE</th>
<th>Heating Time</th>
<th>Cutter Shanks</th>
</tr>
</thead>
<tbody>
<tr>
<td>1200</td>
<td>18sec.</td>
<td>φ3～6mm</td>
</tr>
<tr>
<td>230V</td>
<td>30sec.</td>
<td>φ7～12mm</td>
</tr>
</tbody>
</table>

**HEAT ROBO Baby 1000**

- **CODE**: HRB-01
- **VOLTAGE**: AC100V
- **POWER SUPPLY**: 1000W
- **SIZE**: W340 × D160 × W410
- **HEATING TIME**: 180SEC. (φ12 collet)

- **Standard Accessories**
  - Tweezers
  - Heat-resistant gloves
  - Timer
  - Collet setting stand
  - Nozzle(2pcs.)

**Economical**
**Simplified Model**

**HOT AIR HEATER**

- **100V 1kW**
- **180 sec. (φ3 collet)**

**ELECTROMAGNETIC INDUCTION HEATERS**

- **100V 1.2kW**
- **18 sec. (φ12 collet)**

**Desk Top Type**

- **Air Cooling 1 min.**
- **Touch Panel**
  - Timer
  - Coil selection
  - Heating
  - Cooling
### 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.

<table>
<thead>
<tr>
<th>Holder Type</th>
<th>Form</th>
<th>Adapter</th>
<th>Base</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 PIECE MODULAR</td>
<td>CS(Slim type)</td>
<td>ADH-SLK</td>
<td>BAA-01</td>
</tr>
<tr>
<td></td>
<td>CR-Regular type</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>CF(Flush type)</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Screw size</td>
<td>M10</td>
<td></td>
</tr>
<tr>
<td>STRAIGHT ARBOR</td>
<td>ST10</td>
<td>BAS-01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ST12</td>
<td>BAS-01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ST16/20/25</td>
<td>BAS-01</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ST32</td>
<td>BAS-02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>ST42</td>
<td>BAS-02</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Carbide Shank</td>
<td>STCC</td>
<td></td>
</tr>
</tbody>
</table>

### Required!

- **HSA type (Coil Spring Type)**
- **HSB type (Plate Spring Type)**

#### Required!

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

#### HSA type (Coil Spring Type)

<table>
<thead>
<tr>
<th>CODE</th>
<th>D</th>
<th>Q’ty (1 set)</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSA-D</td>
<td>3, 3.125, 4, 5, 6, 7, 8, 9, 10, 11, 12, 16, 20, 25, 3/16, 1/4, 5/16, 3/8, 1/2</td>
<td>Contains 10 pcs. in each size</td>
</tr>
<tr>
<td>F</td>
<td>3, 4, 5, 6, 7, 8, 9, 10, 11, 12</td>
<td>10 pcs. in total with each one</td>
</tr>
<tr>
<td>EP</td>
<td>3, 4, 5, 6, 8, 10, 12, 16, 20, 25</td>
<td>10 pcs. in total with each one (in end-mill size increments)</td>
</tr>
</tbody>
</table>

- **HSC type (Slit Collet Type)**

- **Options**

#### Required!

- **HSA type**
  - Compatible with cutting tools with a diameter of 3 to 25 mm. 
  - Note: Cannot be used with Heat Robo Denji.

- **HSC type**
  - Convenient for stepped type tools (non-inverse diameter tools) with a small diameter.

- **HSB type**
  - Can be firmly affixed and stabilized.

- **Clearance**
  - For end mill shank size Ø3~Ø25 for **HSA type**.

- **Cutter Shank**

- **Insertion**
  - Set either the overhang length or insertion length of the cutting tool.

- **Removing**
  - Leave some clearance, and attach the stopper.

- **Shrink-fit**
  - Projection
  - Insertion Length

- **Shrink-fit**

- **Clearance**
  - Reduction occurs.

### Insertion Setups

#### 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.

- **Adapter**
  - ADH-SLK
  - BAS-01
  - BAS-02
  - BAS-03

- **Base**
  - BAA-01
  - BAA-02
  - BAA-03

- **Shrink-Fit Heater Types Available for Use**
  - HRD-01
  - HRB-02S
  - HRB-03S
  - HRB-01

- **Required!**
  - Insertion Length
  - Clearance
  - Set either the overhang length or insertion length of the cutting tool.
Adjustment Knob

Lock Nut

Scale


d(Thickness: 2mm)

Stopper (HSB type)

Stopper (HSC type)

Stopper Pliers

Cutter Adjuster

Cutter Tray

Cooling Tray for Heated Cutting Tools Immediately After Removal From Holder

Cutter Pliers

No gloves are required for shrink fitting and removing. (Pliers are used.)

Stopper Pliers

Pliers for Cutter Stopper (HSB type)

Brush Set

Cleaning Brush for Slimline Chucking Hole

Collet Stand

Stand for Slimline Collets

CODE

SDK—01

Size: 190×190

• For compact storage of Slimline collets.
• Made of aluminum, assuring superior cooling for a maximum of 25 collets.

Holder Stand

Stand for Slimline Mono Series Small-Sized Holders (E25, E32)

CODE

SDT—01

HOLER CODE

HSK-E25, E32

Size: 160×170

• For compact storage of up to E25 and E32 holders.
• Made of aluminum, assuring superior cooling of hot cutting tools.

Heat-Resistant Gloves

Additional Options

CODE

HTB—01

NOTE

—R Right Hand
—L Left Hand

• Be sure to wear heat-resistant gloves, as heat is produced during operation.
• All shrink-fitting heaters come with a pair of gloves.

Aqua Cool Kit

Handy Water-Cooling Kit for Cooling Slimline Holders After Shrink Fitting or Removing

1. Reducing The Cooling Time
Finishes in just 10 seconds.

2. Safety
Allows you to water-cool a heated holder together with its adapter.

3. Anti-rust Effect
Anti-rust treatment provides long-term rust prevention.

4. Cleaning Effect
Can also be used to clean grease and dirt.

Content of Kit

Each 1 set

Special Liquid

CODE

AQC—EK—01—2

• Including 2l of Undiluted Solution
• Use at a dilution ratio of 3%.

Aqua Tray

CODE

AQC—AT—01

Adapter Hanger

CODE

AQC—AH—01

Container Box

CODE

CN—245

Lid for Container Box

CODE

CN—FT

Aqua Tray (Drainer Plate)
Tool Holder Storing Cabinet

Compact Storage Box with Anti-Rust Treatment for Slimline Shrink-Fit Holders

Compatible with a Variety of Holders

<table>
<thead>
<tr>
<th>Holder code</th>
<th>Transparent case!!</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSK—A40</td>
<td></td>
</tr>
<tr>
<td>HSK—A50</td>
<td></td>
</tr>
<tr>
<td>HSK—E25</td>
<td></td>
</tr>
<tr>
<td>HSK—E32</td>
<td></td>
</tr>
<tr>
<td>HSK—E40</td>
<td></td>
</tr>
<tr>
<td>HSK—E50 , F63</td>
<td></td>
</tr>
<tr>
<td>1ST (BROTHER)</td>
<td></td>
</tr>
<tr>
<td>20T (SUGINO)</td>
<td></td>
</tr>
</tbody>
</table>

Maximum number of holders that can be stored: 40 (standard: 32) (HSK-E25/32)
The direction of the box can be freely changed to horizontal or vertical depending on the intended use.

Orderly storing with name plate!

Orders with different lengths can be stored using three types of container boxes.

Arrangeable
A multi-hole base plate is employed. Supports a variety of holder specifications using pins that can be freely changed and relocated.

Piling Cabinets

Standard Set

<table>
<thead>
<tr>
<th>CODE</th>
<th>Container Box</th>
<th>Max. Q’ty</th>
<th>Number of pins supplied</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSK—A40</td>
<td>HBA—A40</td>
<td>24</td>
<td>18</td>
</tr>
<tr>
<td>A50</td>
<td>A50</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>E25</td>
<td>E25</td>
<td>40</td>
<td>32</td>
</tr>
<tr>
<td>E32</td>
<td>E32</td>
<td>24</td>
<td>18</td>
</tr>
<tr>
<td>E40</td>
<td>E40</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>E50</td>
<td>E50</td>
<td>10</td>
<td>10</td>
</tr>
<tr>
<td>F63</td>
<td>F63</td>
<td>40</td>
<td>16</td>
</tr>
</tbody>
</table>

Contents of set
• Base plate
• Container box
• Pin

Lid for Container Box

Code
CN—FT

Name Plate (Option)
Pin
Rail (Option)
Base Plate
Container Box (1pc.)