ThermoLock® Shrinking
800 Series
Devices and Accessories
ThermoLock®

801 Series

801 Series Includes the Following:
- Basic device with induction coil and vertical column
- 2 holding sleeves
- 4 stop rings
- Tray for milling cutters
- Protective gloves

Use:
- For shrinking and unshrinking carbide or HSS tools
- The correct heating time and the coil energy level is calculated automatically: Enter the diameter and the cutting material - Ready
- Overheating of the shrink fit chucks is impossible
- Ø 3-32 mm for carbide, Ø 6-32 mm for HSS

Design:
- Basic device with integrated electronics in desktop execution
- Base plate with tool platform
- Induction coil is easily turnable, demountable, and convertible - without the use of any tools
- Unlimited number of cooling places by the use of holding sleeves
- Easy operation at the control panel
- Cooling via a closed water cycle as an option

Cart Sold Separately

<table>
<thead>
<tr>
<th>Chiller Module XYTC-0801</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions:</strong></td>
</tr>
<tr>
<td>w: 600 mm</td>
</tr>
<tr>
<td>h: 1150 mm</td>
</tr>
<tr>
<td>d: 500 mm</td>
</tr>
</tbody>
</table>

Chiller Module

Chiller Module Includes the Following:
- Separate cooling device for cooling tools with integrated electronics
- Base plate extension for holding cooling bushings and cooling inserts
- 3 cooling bushings
- 5 cooling inserts for standard chucks (Ø 6-32 mm)

Cart Sold Separately

See page 2 for Ø 40 and 50 mm

<table>
<thead>
<tr>
<th>Chiller Module XYTC-0810</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Dimensions:</strong></td>
</tr>
<tr>
<td>w: 550 mm</td>
</tr>
<tr>
<td>h: 500 mm</td>
</tr>
<tr>
<td>d: 300 mm</td>
</tr>
</tbody>
</table>
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800 Series

800 Series Includes the following:
- Basic device with induction coil and vertical column
- 2 holding sleeves
- 4 stop rings
- Rear panel for holding stop rings, cooling inserts, and cooling bushings
- Tray for milling cutters
- Cooling module including 3 cooling bushings and 5 cooling inserts (Ø 6-32 mm)
- Drawer
- Protective gloves

Use:
- For shrinking and unshrinking carbide or HSS tools
- The correct heating time and the coil energy level is calculated automatically: Enter the diameter and the cutting material - Ready
- Overheating of the shrink fit chucks is impossible
- Ø 3-32 mm for carbide, Ø 6-32 mm for HSS

Design:
- Basic device with induction coil in desktop execution
- Coil with plug contacts (exchangeable)
- Induction coil is easily turnable, demountable, convertible and exchangeable without the use of any tools
- Unlimited number of cooling places by the use of holding sleeves
- Easy operation at the control panel
- Cooling via a closed water cycle

Cart Sold Separately

Dimensions:
- w: 600 mm
- h: 1150 mm
- d: 500 mm

Connection:
- 3 ~ AC 480 - 500 V
- 60 Hz + N + PE

Power Input:
- 15 kW
- Kg: 50

Shrinking Device Extension and Coil

XYTC-0800

XYTC-0891

Advantages:
- Simple conversion
- Tools up to 1400 mm length can be shrunk in and out reliably
- The working range of the tower extension is individually adjustable
- The induction coil remains in position during the shrinking process
- Easy to operate, similar to the standard device

Large Coil

XYTC-0812

Large coil including cooling bushing and stop ring for Ø 40 and 50 mm
804 Automatic

ThermoLock®

804 Automatic

804 Automatic Includes the Following:
- Basic device made of die-cast aluminum
- 3 places for heating tools
- 3 cooling bushings
- Automatic induction coil
- Floor cabinet with integrated electronics and cooling device, including drawer for storing adapter flanges
- Tray for cooling inserts
- Tray for milling cutters
- 4 stop rings
- 1 set of cooling inserts (5 pieces)
- 1 set of adapter flanges (3 pieces)

Use:
- For automatic shrinking and unshrinking carbide or HSS tools
- The correct heating time and the coil energy level is calculated automatically: Enter the diameter and the cutting material - Ready
- Overheating of the shrink fit chucks is impossible
- Ø 3-32 mm for carbide, Ø 6-32 mm for HSS

Design:
- Solid stand device on a floor cabinet with integrated electronics and cooling station
- Automatic induction coil
- 3 combined shrinking and cooling places
- Easy operation at the control panel
- Cooling via a closed water cycle
- Ergonomic arrangement of all elements

Dimensions:  
w: 900 mm  
h: 1800 mm  
d: 700 mm

Connection:  
3 ~ AC 480 V  
50 Hz + N + PE

Power Input:  
11 kW  
Kg: 230

XYTC-0804
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804 Automatic - Shrinking in and out Faster with 3 Shrinking and Cooling Places

Positioning of the induction coil
The column is easily rotated in the respective operating position. The lowering of the coil onto the chuck, the heating, and the return of the coil to its rest position is part of the automatic heating cycle. This eases the work of the operator and helps to avoid errors.

Heating up in a matter of seconds
The powerful electronics guarantees a perfect and quick shrinking process for carbide, HSS, and steel. No need to change coils as one coil covers the whole tool diameter range.

Cooling down at the same place
After the heating process, an appropriate cooling insert is placed over the chuck and a water-cooled bushing is then clipped in position over the insert. The cooling bushing is suitable for all sizes. Only the cooling inserts have to be exchanged depending on the diameter and the contour of the shrink fit chuck. The shrink fit chuck is cooled down even faster through this contact. The efficient cooling aggregate facilitates constant cooling times.

Easy operation
Enter the diameter and the cutting material - Ready! The operator does not have to do more. The device calculates automatically the heating time and the coil energy level. Therefore, no overheating of the shrink fit chucks, a further advantage for the service life of ThermoLock® shrink fit chucks.

ThermoLock®
An advanced induction heating technology and an extremely fast cooling system reduce the whole shrinking process to around 30 seconds. With the standard range of shrink fit chucks almost all daily shrinking requirements can be fulfilled. And for special tasks we manufacture customized tool holders according to your dimensions.
ThermoLock®

Shrinking Devices - Accessories

Tool Cart

Adapter Flanges

Holding Sleeve

Stop Rings for Coils

<table>
<thead>
<tr>
<th>w</th>
<th>h</th>
<th>d</th>
<th>Kg</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1020 mm</td>
<td>800 mm</td>
<td>620 mm</td>
<td>53</td>
<td>XYTC-0860</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Tool Holder</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSK32</td>
<td>XYTC-0871</td>
</tr>
<tr>
<td>HSK40</td>
<td>XYTC-0872</td>
</tr>
<tr>
<td>HSK50</td>
<td>XYTC-0873</td>
</tr>
<tr>
<td>HSK63</td>
<td>XYTC-0874</td>
</tr>
<tr>
<td>HSK80</td>
<td>XYTC-0875</td>
</tr>
<tr>
<td>HSK100</td>
<td>XYTC-0876</td>
</tr>
<tr>
<td>Adapter 40 Taper</td>
<td>XYTC-0881</td>
</tr>
<tr>
<td>Adapter 50 Taper</td>
<td>XYTC-0882</td>
</tr>
<tr>
<td>Combination Adapter HSK32 - HSK100</td>
<td>XYTC-0883</td>
</tr>
<tr>
<td>Combination Adapter Ø 40 &amp; 50 mm Taper</td>
<td>XYTC-0884</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tool Holder</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Universal</td>
<td>XYTC-0870</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Tool Holder</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3-6 mm</td>
<td>XYTC-0850</td>
</tr>
<tr>
<td>6-12 mm</td>
<td>XYTC-0851</td>
</tr>
<tr>
<td>14-20 mm</td>
<td>XYTC-0852</td>
</tr>
<tr>
<td>25-32 mm</td>
<td>XYTC-0853</td>
</tr>
<tr>
<td>32-50 mm</td>
<td>XYTC-0855</td>
</tr>
</tbody>
</table>
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Shrinking Devices - Accessories

Cooling Inserts

<table>
<thead>
<tr>
<th>Device</th>
<th>Tool Holder</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>for standard shrink fit chucks</td>
<td>3-5 mm</td>
<td>XYTC-0836</td>
</tr>
<tr>
<td></td>
<td>6-8 mm</td>
<td>XYTC-0831</td>
</tr>
<tr>
<td></td>
<td>10-12 mm</td>
<td>XYTC-0832</td>
</tr>
<tr>
<td></td>
<td>14-16 mm</td>
<td>XYTC-0833</td>
</tr>
<tr>
<td></td>
<td>18-20 mm</td>
<td>XYTC-0834</td>
</tr>
<tr>
<td></td>
<td>25-32 mm</td>
<td>XYTC-0835</td>
</tr>
<tr>
<td></td>
<td>blank</td>
<td>XYTC-0840</td>
</tr>
<tr>
<td>for shrink fit chuck extensions and extremely slim shrink fit chucks 3°</td>
<td>4.5° (6-12 mm)</td>
<td>XYTC-0841</td>
</tr>
<tr>
<td></td>
<td>3° (3-4 mm)</td>
<td>XYTC-0842</td>
</tr>
<tr>
<td></td>
<td>3° (5 mm)</td>
<td>XYTC-0843</td>
</tr>
<tr>
<td></td>
<td>3° (6 mm)</td>
<td>XYTC-0844</td>
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<tr>
<td></td>
<td>3° (8 mm)</td>
<td>XYTC-0845</td>
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<tr>
<td></td>
<td>3° (10 mm)</td>
<td>XYTC-0846</td>
</tr>
<tr>
<td></td>
<td>3° (12 mm)</td>
<td>XYTC-0847</td>
</tr>
<tr>
<td></td>
<td>3° (16 mm)</td>
<td>XYTC-0848</td>
</tr>
</tbody>
</table>

Ejection Device

<table>
<thead>
<tr>
<th>Ejection Device</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flange with damping disk and ejection pin</td>
<td>XYTC-0890</td>
</tr>
</tbody>
</table>

Set of Stop Clamps

<table>
<thead>
<tr>
<th>Set of 2 Stop Clamps</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>For Ø 3-12 mm and Ø 14-32 mm</td>
<td>XYTC-0895</td>
</tr>
</tbody>
</table>

Shrink-out Set

<table>
<thead>
<tr>
<th>Shrink-out Set</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 shrink-out pliers and 2 shrink-out springs Ø 3-12 mm and Ø 14-32 mm</td>
<td>XYTC-0896</td>
</tr>
</tbody>
</table>

Protective Gloves

<table>
<thead>
<tr>
<th>Protective Gloves</th>
<th>Part No.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>XYTC-0362</td>
</tr>
</tbody>
</table>
Practical Auxiliaries for Shrinking in and out

**Ejection Device**

**Use:**
For the simple ejection of a broken cutter shank.

- Broken cutting tool.
- Determine the length up to the stop of the tool cutting edge.
- Adjust the length of the pin of the ejection device (up to the stop + approx. 2 cm).
- Place the shrink fit chuck on the pin.

- Heat the shrink fit chuck. As soon as the shrink fit chuck achieves shrink-out temperature, it drops onto the damping disk.

- The broken cutter shank can then be removed easily.

**Stop Clamps**

**Use:**
The cutting tool shall be shrunk to a given projection length.

- Determine the projection length of the cutting tool.
- Heat the shrink fit chuck.
- Insert the cutting tool up to the stop.
- Let the shrink fit chuck cool down.

**Shrink out Set**

**Advantages**
- The tool holder is heated no longer than necessary (very important for HSS!)
- No risk of burning or injury even without gloves

**Use:**
To remove tools at the optimum moment at which the cutting tool releases from the tool holder.

- The pressure spring is clamped, the cutting tool is held by the pliers. Heat the shrink fit chuck.
- The pressure spring is released as soon as the shrink fit chuck has achieved the right “release heat”.
- The pliers are gripped with the cutting tool upwards. The induction coil is then lifted clear.