Booster Benders for Boiler Tubes

Tube and Pipe bending machines engineered to meet the specific demands for producing; Super Heater Coils, Boiler Bank Tubes, Water Wall Panels and Economizers Coils.
<table>
<thead>
<tr>
<th>Technical data</th>
<th>76 CNC TB</th>
<th>90 CNC TB</th>
<th>127 CNC TB</th>
</tr>
</thead>
<tbody>
<tr>
<td>Capacity, Ø mm</td>
<td>63 × 5</td>
<td>90 × 5</td>
<td>127 × 5</td>
</tr>
<tr>
<td>Radius, min/max, mm</td>
<td>40/200</td>
<td>50/250</td>
<td>80/320</td>
</tr>
<tr>
<td>Booster Force</td>
<td>125 kN</td>
<td>240 kN</td>
<td>320 kN</td>
</tr>
<tr>
<td>Bending speed/repeatability</td>
<td>40°/s. ±0,1°</td>
<td>40°/s. ±0,1°</td>
<td>24°/s. ±0,1°</td>
</tr>
<tr>
<td>Length of mandrel, mm</td>
<td>3 000</td>
<td>4 000</td>
<td>4 000</td>
</tr>
<tr>
<td>Weight, kg</td>
<td>7 000</td>
<td>10 000</td>
<td>17 000</td>
</tr>
<tr>
<td>Machine dimensions, m</td>
<td>6,7 × 1,7 × 1,8</td>
<td>7,0 × 2,2 × 1,4</td>
<td>7,0 × 2,2 × 1,8</td>
</tr>
<tr>
<td>Motor kW</td>
<td>32</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>Tube positioning</td>
<td>900 mm/sec</td>
<td>900 mm/sec</td>
<td>900 mm/sec</td>
</tr>
<tr>
<td>Accuracy</td>
<td>0,05–0,1°/imm</td>
<td>0,05–0,1°/imm</td>
<td>0,05–0,1°/imm</td>
</tr>
<tr>
<td>Noise level</td>
<td>&lt;75 dB</td>
<td>&lt;75 dB</td>
<td>&lt;75 dB</td>
</tr>
</tbody>
</table>
Herber Engineering AB has been manufacturing cold forming machinery for tube and pipe since 1945 and with almost 70 years of experience is recognized worldwide as one of the premier manufacturers and largest producers of booster bending machines specifically engineered for the precise requirements of the boiler industry.

- We design and manufacture all of our own bend tooling, leaving no fingers to point at outside suppliers.
- We have a well developed and proven CNC control system to manage all machine functions.
- We offer a proven CNC Servo Controlled Booster system in addition to a booster clamping device.
- We have the ability to provide proven results of down to less than 1 × D bending without mandrel.
- We can utilize a specifically engineered clamping and pressure die system for serpentine bending without interference points.
- We offer complete tube feeding and loading systems with photo sensor allowing an unlimited tube length.
- A split die actuator comes as a standard.
- We can offer the machines with Clockwise or Counter Clockwise bend arm rotation.
- We can adapt the machine for any operating climate.
- CE Marked
Boost your bending and your bottom line

Herber Booster Benders can be fitted with equipment for bending long tubes directly from handling equipment, material storage racks or welding station.

1. Tube feeding directly from handling equipment or material storage racks.
2. Motorized in-feed system for presenting the tube to the bend tooling.
3. Laser sensor for detecting the incoming edge of the tube.
4. Laser sensor for determining the exact position of the tube after in-feeding.
5. Booster clamping device for centerline boosting with enormous force thus greatly reducing wall thinning and ovality of the bent tube.

6. Split die tooling for bending 180 degree bends.

7. Drop away clamp system.

8. Bending serpentine bends with small radii.

Typical Booster Bender product.
The complete solution

**Simulation Software**
Herber’s simulation software allows the operator to have full control over their bending machines by seeing and correcting for any potential programming mistakes before they happen. Thus saving time and extremely valuable raw material.

**3 Dimensional Tooling design**
Herber designs and manufactures all of its own bend tooling for their Boiler Benders including special designs to bend tubes down to $0.8 \times D$ without mandrel.

**CNC-Control Panel**
Our CNC Control system which is offered in many different languages has an incorporated simulation software/offline programming package along with an extensive database for tooling and materials.

**Tube handling and pre-treatment equipment**
We can offer complete tube handling and pre-treatment equipment. For example, we can offer a raw material storage system with different length raw material that is simultaneously sorted, fed and bent from the back of the CNC bending machine.

An example of a complete solution for the bending of boiler panels.
Herber Remote Support™

Herber Remote Support™
collects all valuable machine
and production data regard-
less of machine’s location.

Herber support
Remote diagnostics, training,
and programming support.

Safe connection
Specific levels of safety and
security including SSL encrypted
connections.

Service & Maintenance
Maintenance scheme and log.
Online manuals and service reports.

Herber Remote Support™ Server
Has the ability to store
and compile all of the
relevant machine data
which is accessible
through the Internet
around the world.

Production management
Overview complete production cells as well as single
machines. Analyze and evaluate production data easily
through the Herber Remote Support™ web interface.

Machines/Plants
Herber Remote Support™
collects all valuable machine
and production data regard-
less of machine’s location.

Machine operator
Manual connection to Herber
Remote Support™ directly through
machine’s operator control panel.
Your No.1 choice for advanced tube forming machinery and solutions

Herber Engineering AB has been manufacturing cold forming machinery for tube and pipe since 1945. Our mission is to deliver custom tailored solutions to a customer’s specific problem. Every machine can be fully customized to a customer’s specific requirement and precision in every exacting detail is one of our key principles.

Herber service & support

A good preventive maintenance plan is the key to safe, secure production but despite good maintenance, operating disruptions can still arise, in which case Herber is there to help you get the machine back online as quickly as possible.

Our service organization is just a telephone call away. The electronics in our machines enable online diagnostics to be set up between your machine and our technical team members for rapid fault detection and correction. If telephone support or online diagnostics is not enough to repair the issue our service vehicles and team members are on call with a mobile stock of spare parts. Wherever you are we will be there as quickly as we can to help facilitate a quick return to full operating capacity.