simply smart.

CNC / PLC pipe bending machine

TUBOTRON 50
Basic equipment and features

- Exposed bending head for maximum bending space
- Programmable sequence control with menu-driven user guidance via SIMATIC Operator Panel or Touch PC on mobile control board
- Hydraulic bending drive
- Hydraulic pipe clamping (power programmable)
- Hydraulic pressure die positioning
- Follower-type pressure die (linear guiding)
- Servo-electric pipe feed and rotation
- Hydraulic long-neck collet chuck allows for positioning of the pipe in the pressure die area, with pipe re-gripping functionality
- Foot switch for hydraulic collet chuck
- Hydraulic and anticipated mandrel retraction
- Automatic minimum quantity mandrel lubrication
- Pipe and mandrel support
- Interface for remote maintenance of the machine control
- Oil cooler

Additional equipment, options and accessories

- Pressure die assist (power programmable)
- Anti-buckling system for the mandrel rod
- PIPEFAB BE pipe bending software

Models

- TUBOTRON 50 PLC / TUBOTRON 50 CNC (with servo technology)
- Pipe length (over mandrel): 3000 mm / 4500 mm / 6000 mm

---

### Technical data

<table>
<thead>
<tr>
<th></th>
<th>PLC model</th>
<th>CNC model / servo technology</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum bending capacity (mild steel)</td>
<td>Ø 50.0 x 5.0 mm</td>
<td>Ø 50.0 x 5.0 mm</td>
</tr>
<tr>
<td>Maximum bending radius</td>
<td>200 mm</td>
<td>200 mm</td>
</tr>
<tr>
<td>Bending speed (max.)</td>
<td>43 °/s</td>
<td>43 °/s</td>
</tr>
<tr>
<td>Positioning accuracy of all axes</td>
<td>± 0.2 mm / ± 0.2 °</td>
<td>± 0.05 mm / ± 0.05 °</td>
</tr>
<tr>
<td>Dimensions, approx. (LxWxH) ¹)</td>
<td>5100 x 900 x 1200 mm</td>
<td>5100 x 900 x 1200 mm</td>
</tr>
<tr>
<td>Weight, approx. ¹)</td>
<td>2200 kg</td>
<td>2200 kg</td>
</tr>
<tr>
<td>Connected load</td>
<td>10.0 kW</td>
<td>15.0 kW</td>
</tr>
</tbody>
</table>

¹) at minimum pipe length over mandrel