CNC pipe bending machine

TUBOTRON 170 (HD)
Basic equipment and features

- Programmable sequence control with menu-driven user guidance via SIMATIC Touch PC on mobile control board
- Hydraulic bending drive
- Hydraulic pipe clamping (power and distance programmable)
- Hydraulic pressure die positioning (power and distance programmable)
- Follower-type pressure die (linear guiding)
- Pressure die assist (power programmable)
- 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
- Programmable servo-electric radius adjustment of the pipe positioning device and the mandrel retraction system
- Automatic minimum quantity mandrel lubrication
- Pipe and mandrel support
- Interface for remote maintenance of the machine control
- Oil cooler
- Quick-change system for the bending tools

Additional equipment, options and accessories

- Centralized lubrication system
- Automatic wiper die lubrication system
- PIPEFAB BE pipe bending software

Models

- TUBOTRON 170 / 170 HD (heavy duty, reinforced construction)
- Pipe length (over mandrel): 4500 mm / 6000 mm / 8000 mm

<table>
<thead>
<tr>
<th>Technical data</th>
<th>TUBOTRON 170</th>
<th>TUBOTRON 170 HD</th>
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<tbody>
<tr>
<td>Maximum bending capacity (mild steel)</td>
<td>Ø 170.0 x 8.0 mm</td>
<td>Ø 170.0 x 11.0 mm</td>
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<tr>
<td>Maximum bending radius</td>
<td>510 mm</td>
<td>510 mm</td>
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<tr>
<td>Bending speed (max.)</td>
<td>8 °/s</td>
<td>8 °/s</td>
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<tr>
<td>Positioning accuracy of all axes</td>
<td>± 0.1 mm / ± 0.1 °</td>
<td>± 0.1 mm / ± 0.1 °</td>
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<tr>
<td>Dimensions, approx. (LxWxH)</td>
<td>8000 x 2500 x 1500 mm</td>
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<tr>
<td>Weight, approx. 1)</td>
<td>16000 kg</td>
<td>17000 kg</td>
</tr>
<tr>
<td>Connected load</td>
<td>43.0 kW</td>
<td>50.0 kW</td>
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</tbody>
</table>

1) at minimum pipe length over mandrel

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