CNC pipe bending machine

TUBOTRON 30 MR

Figure: TUBOTRON 30 MR with pipe magazine, automatic separation and feeding.
Basic equipment and features
• Compact and exposed bending head with servo-electric horizontal and vertical axes allows for multi-radii bending (stack tooling)
• Programmable sequence control with menu-driven user guidance via SIMATIC Touch PC on mobile control board
• Hydraulic bending drive
• Hydraulic pipe clamping (power programmable)
• Hydraulic pressure die positioning
• 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
• Follower-type pressure die (linear guiding) with pressure die assist
• Anti-buckling system for the mandrel rod
• Centralized lubrication system
• PIPEFAB BE pipe bending software

Models
• Pipe length (over mandrel): 3000 mm / 4500 mm / 6000 mm

Technical data
<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Maximum bending capacity (mild steel)</td>
<td>Ø 30.0 x 4.0 mm</td>
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<tr>
<td>Maximum bending radius</td>
<td>200 mm</td>
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<tr>
<td>Bending speed (max.)</td>
<td>140 °/s</td>
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<tr>
<td>Positioning accuracy of all axes</td>
<td>± 0.05 mm / ± 0.05 °</td>
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<tr>
<td>Dimensions, approx. (LxWxH)</td>
<td>4700 x 900 x 1200 mm</td>
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<tr>
<td>Weight, approx. 1)</td>
<td>1950 kg</td>
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<tr>
<td>Connected load</td>
<td>20.0 kW</td>
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</tbody>
</table>

1) at minimum pipe length over mandrel

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