All-electric CNC pipe bending machine

TUBOTRON VARIO 40 RL
Basic equipment and features

- All-electric multi-radii CNC pipe bending machine with right-and-left hand bending capability
- Programmable sequence control with teach functionality and menu-driven user guidance via SIMATIC Touch PC
- Bending head with horizontal and vertical axes for multi-radii bending as well as rotation axis for right-and-left hand bending functionality
- Servo-electric bending drive
- Servo-electric pipe feed and rotation, boost functionality allows for freeform bending
- Servo-electric pipe clamping (power and distance programmable)
- Servo-electric pressure die positioning (power and distance programmable)
- Servo-electric long-neck collet chuck allows for positioning of the pipe in the pressure die area, with pipe re-gripping functionality
- Servo-electric mandrel positioning, anticipated mandrel retraction programmable
- Automatic minimum quantity mandrel lubrication
- Anti-buckling system for the mandrel rod
- Interface for remote maintenance of the machine control

Additional equipment, options and accessories

- Follower-type pressure die (linear guiding), with programmable pressure die assist
- 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>Feature</th>
<th>Value</th>
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<tbody>
<tr>
<td>Maximum bending capacity (mild steel)</td>
<td>Ø 42.0 x 2.0 mm</td>
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<tr>
<td>Maximum bending radius</td>
<td>160 mm</td>
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<tr>
<td>Bending speed (max.)</td>
<td>180 °/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) 1)</td>
<td>4350 x 1600 x 1400 mm</td>
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<tr>
<td>Weight, approx.</td>
<td>7000 kg</td>
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<tr>
<td>Connected load</td>
<td>40.0 kW</td>
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</table>

1) at minimum pipe length over mandrel, 2) depends on the configuration

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