

TUBOTRON VARIO 40

All-electric CNC Tube Bending Machine (for tubes up to Ø 42 mm)



Features / Equipment

- Available bend directions: right-hand bending, left-hand bending or combined right-and-left hand bending
- Multi-radii capability (for each bend direction) with combination of rotary-draw-bending and freeform-bending allows for bending of tubes with variable bending radii
- SIMOTION control system for servo driven axes with integrated cam disk control
- User-friendly operation via SIMATIC Touch Panel
- Servo-electric tube clamping with programmable clamping force
- Servo-electric pressure die positioning, following pressure die or pressure die assist
- Servo-electric long-neck collet chuck allows for positioning of the tube within the pressure die area
- Servo-electric mandrel positioning, anticipated mandrel retraction
- Automatic minimal-metered mandrel lubrication device
- Interface for remote maintenance of the machine control

Technical data

Maximum tube diameter (OD)	42 mm
Maximum bending radius (CLR, rotary-draw-bending) ¹	120 mm
Bending speed (max.)	180 °/s
Tube feed rate (max.)	1500 mm/s
Tube rotation (max.)	450 °/s
Positioning accuracy of all axes	± 0.05 mm, ± 0.05 °
Dimensions (LxWxH) ²	5400 x 1650 x 1500 mm
Weight, approx. ^{2,3}	6500 kg

¹ depends on tube diameter (OD)

² at min. tube length over mandrel

³ depends on equipment

Subject to technical alterations • 2010-11



THE ONLY CHOICE
FOR PERFECT
PIPE FABRICATION

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TUBOTRON VARIO 60

All-electric CNC Tube Bending Machine (for tubes up to Ø 60 mm)



Features / Equipment

- Available bend directions: right-hand bending, left-hand bending or combined right-and-left hand bending
- Multi-radii capability (for each bend direction) with combination of rotary-draw-bending and freeform-bending allows for bending of tubes with variable bending radii
- SIMOTION control system for servo driven axes with integrated cam disk control
- User-friendly operation via SIMATIC Touch Panel
- Servo-electric tube clamping with programmable clamping force
- Servo-electric pressure die positioning, following pressure die or pressure die assist
- Servo-electric long-neck collet chuck allows for positioning of the tube within the pressure die area
- Servo-electric mandrel positioning, anticipated mandrel retraction
- Automatic minimal-metered mandrel lubrication device
- Interface for remote maintenance of the machine control

Technical data

Maximum tube diameter (OD)	60 mm
Maximum bending radius (CLR, rotary-draw-bending) ¹	150 mm
Bending speed (max.)	120 °/s
Tube feed rate (max.)	1500 mm/s
Tube rotation (max.)	450 °/s
Positioning accuracy of all axes	± 0.05 mm, ± 0.05 °
Dimensions (LxWxH) ²	5400 x 1650 x 1500 mm
Weight, approx. ^{2,3}	7000 kg

¹ depends on tube diameter (OD)

² at min. tube length over mandrel

³ depends on equipment

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