

# TUBOTRON 20 / 20 RL

CNC tube bending machine (for tubes up to Ø 20 mm)



## Features / Equipment

- Exposed and compact bending head for maximum bending space
- Programmable sequence control with user guidance via SIMATIC PC
- Hydraulic tube clamping with programmable clamping pressure
- Hydraulic pressure die positioning
- Hydraulic long-neck collet chuck allows for positioning in the pressure die area with tube resumption
- Hydraulic and anticipated mandrel retraction
- Automatic pneumatic minimal-metered mandrel lubrication device
- Interface for remote maintenance of the machine control
- Foot switch for hydraulic collet chuck

## Options

- Following pressure die
- Right-left bending head (RL)
- Stack tooling / multi-radii capability (for each bend direction)

Technical data	
Maximum tube diameter (OD)	20 mm
Maximum bending radius (CLR) <sup>1</sup>	100 mm
Bending speed (max.)	450 °/s
Tube feed rate (max.)	2000 mm/s
Tube rotation (max.)	880 °/s
Positioning accuracy of all axes	± 0.05 mm, ± 0.05 °
Dimensions (LxWxH) <sup>2</sup>	2800 x 850 x 1200 mm
Weight, approx. <sup>2</sup>	1200 kg
Power requirement	15.0 kW

<sup>1</sup> depends on tube diameter (OD)

<sup>2</sup> at min. tube length over mandrel

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PIPE FABRICATION

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# TUBOTRON 25 / 25 MR

CNC tube bending machine (for tubes up to Ø 25 mm)



## Features / Equipment

- Exposed and compact bending head for maximum bending space
- Programmable sequence control with user guidance via SIMATIC PC
- Hydraulic tube clamping with programmable clamping pressure
- Hydraulic pressure die positioning
- Hydraulic long-neck collet chuck allows for positioning in the pressure die area with tube resumption
- Hydraulic and anticipated mandrel retraction
- Automatic pneumatic minimal-metered mandrel lubrication device
- Interface for remote maintenance of the machine control
- Foot switch for hydraulic collet chuck

## Options

- Following pressure die
- Hydraulic pressure die assist
- Stack tooling / multi-radii capability (MR)

Technical data	
Maximum tube diameter (OD)	25 mm
Maximum bending radius (CLR) <sup>1</sup>	150 mm
Bending speed (max.)	170 °/s
Tube feed rate (max.)	1670 mm/s
Tube rotation (max.)	360 °/s
Positioning accuracy of all axes	± 0.05 mm, ± 0.05 °
Dimensions (LxWxH) <sup>2</sup>	2800 x 850 x 1200 mm
Weight, approx. <sup>2</sup>	1500 kg
Power requirement	20.0 kW

<sup>1</sup> depends on tube diameter (OD)

<sup>2</sup> at min. tube length over mandrel

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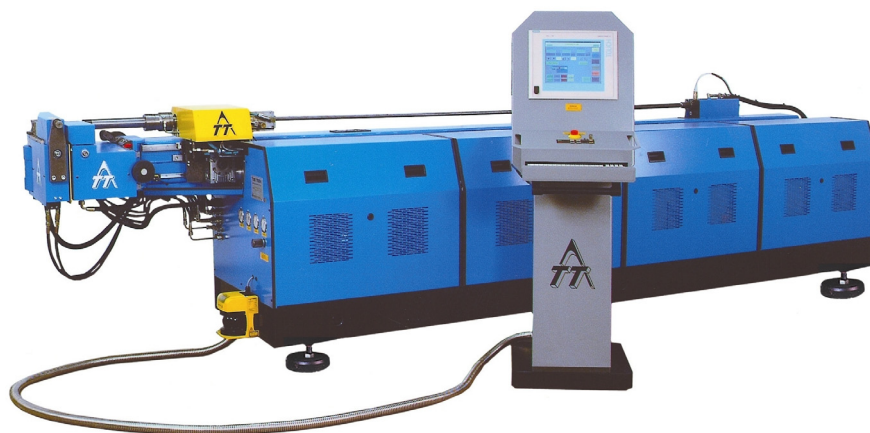


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# TUBOTRON 30 / 30 MR

CNC tube bending machine (for tubes up to Ø 30 mm)



## Features / Equipment

- Exposed and compact bending head for maximum bending space
- Programmable sequence control with user guidance via SIMATIC PC
- Hydraulic tube clamping with programmable clamping pressure
- Hydraulic pressure die positioning
- Hydraulic long-neck collet chuck allows for positioning in the pressure die area with tube resumption
- Hydraulic and anticipated mandrel retraction
- Automatic pneumatic minimal-metered mandrel lubrication device
- Interface for remote maintenance of the machine control
- Foot switch for hydraulic collet chuck

## Options

- Following pressure die
- Stack tooling / multi-radii capability (MR)

Technical data	
Maximum tube diameter (OD)	30 mm
Maximum bending radius (CLR) <sup>1</sup>	200 mm
Bending speed (max.)	140 °/s
Tube feed rate (max.)	1670 mm/s
Tube rotation (max.)	360 °/s
Positioning accuracy of all axes	± 0.05 mm, ± 0.05 °
Dimensions (LxBxH) <sup>2</sup>	4700 x 900 x 1200 mm
Weight, approx. <sup>2</sup>	1500 kg
Power requirement	15.0 kW

<sup>1</sup> depends on tube diameter (OD)

<sup>2</sup> at min. tube length over mandrel

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# TUBOTRON 50

CNC / PLC tube bending machine (for tubes up to Ø 50 mm)



## Features / Equipment

- Exposed bending head for maximum bending speed
- Programmable sequence control with user guidance via SIMATIC Operator Panel or SIMATIC PC
- Hydraulic tube clamping with programmable clamping pressure
- Hydraulic pressure die positioning, following pressure die
- Hydraulic long-neck collet chuck allows for positioning in the pressure die area with tube resumption
- Hydraulic and anticipated mandrel retraction
- Automatic pneumatic minimal-metered mandrel lubrication device
- Interface for remote maintenance of the machine control
- Foot switch for hydraulic collet chuck

## Options

- Hydraulic tube clamping with programmable clamping pressure and distance control
- Pressure die assist with programmable hydraulic pressure

Technical data	PLC version	CNC version (servo technology)
Maximum tube diameter (OD)	50 mm	50 mm
Maximum bending radius (CLR) <sup>1</sup>	200 mm	200 mm
Bending speed (max.)	43 °/s	43 °/s
Tube feed rate (max.)	350 mm/s	750 mm/s
Tube rotation (max.)	105 °/s	120 °/s
Positioning accuracy of all axes	± 0.1 mm, ± 0.1 °	± 0.05 mm, ± 0.05 °
Dimensions (LxWxH) <sup>2</sup>	5100 x 900 x 1200 mm	5100 x 900 x 1200 mm
Weight, approx. <sup>2</sup>	2000 kg	2000 kg
Power requirement	7.5 kW	15 kW

<sup>1</sup> depends on tube diameter (OD)

<sup>2</sup> at min. tube length over mandrel

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# TUBOTRON 60

CNC / PLC tube bending machine (for tubes up to Ø 60 mm)



## Features / Equipment

- Exposed bending head for maximum bending speed
- Programmable sequence control with user guidance via SIMATIC Operator Panel or SIMATIC PC
- Hydraulic tube clamping with programmable clamping pressure
- Hydraulic pressure die positioning, following pressure die
- Hydraulic long-neck collet chuck allows for positioning in the pressure die area with tube resumption
- Hydraulic and anticipated mandrel retraction
- Automatic pneumatic minimal-metered mandrel lubrication device
- Interface for remote maintenance of the machine control
- Foot switch for hydraulic collet chuck

## Options

- Hydraulic tube clamping with programmable clamping pressure and distance control
- Pressure die assist with programmable hydraulic pressure

Technical data	PLC version	CNC version (servo technology)
Maximum tube diameter (OD)	60 mm	60 mm
Maximum bending radius (CLR) <sup>1</sup>	200 mm	200 mm
Bending speed (max.)	43 °/s	43 °/s
Tube feed rate (max.)	350 mm/s	750 mm/s
Tube rotation (max.)	105 °/s	120 °/s
Positioning accuracy of all axes	± 0.1 mm, ± 0.1 °	± 0.05 mm, ± 0.05 °
Dimensions (LxWxH) <sup>2</sup>	5100 x 900 x 1200 mm	5100 x 900 x 1200 mm
Weight, approx. <sup>2</sup>	2000 kg	2000 kg
Power requirement	10.5 kW	18.5 kW

<sup>1</sup> depends on tube diameter (OD)

<sup>2</sup> at min. tube length over mandrel

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# TUBOTRON 90

CNC tube bending machine (for tubes up to Ø 90 mm)



## Features / Equipment

- Exposed bending head for maximum bending space
- Programmable sequence control with user guidance via SIMATIC Operator Panel or SIMATIC PC
- Hydraulic tube clamping with programmable clamping pressure
- Hydraulic pressure die positioning, following pressure die
- Hydraulic long-neck collet chuck allows for positioning in the pressure die area with tube resumption
- Hydraulic and anticipated mandrel retraction
- Automatic pneumatic minimal-metered mandrel lubrication device
- Interface for remote maintenance of the machine control
- Foot switch for hydraulic collet chuck

## Options

- Pressure die assist with programmable hydraulic pressure

Technical data	
Maximum tube diameter (OD)	90 mm
Maximum bending radius (CLR) <sup>1</sup>	250 mm
Bending speed (max.)	43 °/s
Tube feed rate (max.)	420 mm/s
Tube rotation (max.)	100 °/s
Positioning accuracy of all axes	± 0.05 mm, ± 0.05 °
Dimensions (LxWxH) <sup>2</sup>	5300 x 1200 x 1350 mm
Weight, approx. <sup>2</sup>	3800 kg
Power requirement	26.0 kW

<sup>1</sup> depends on tube diameter (OD)

<sup>2</sup> at min. tube length over mandrel

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# TUBOTRON 120

CNC tube bending machine (for tubes up to Ø 140 mm)



## Features / Equipment

- Programmable sequence control with user guidance via SIMATIC PC
- Hydraulic tube clamping with programmable clamping pressure and distance control
- Hydraulic pressure die positioning with programmable hydraulic pressure and distance control
- Hydraulic long-neck collet chuck allows for positioning in the pressure die area with tube resumption
- Hydraulic and anticipated mandrel retraction
- Automatic pneumatic minimal-metered mandrel lubrication device
- Interface for remote maintenance of the machine control
- Foot switch for hydraulic collet chuck

## Options

- Pressure die assist with programmable hydraulic pressure and distance control
- Booster functionality
- Quick-change system for the bending tools

Technical data	
Maximum tube diameter (OD)	140 mm
Maximum bending radius (CLR) <sup>1</sup>	420 mm
Bending speed (max.)	16 °/s
Tube feed rate (max.)	630 mm/s
Tube rotation (max.)	70 °/s
Positioning accuracy of all axes	± 0.1 mm, ± 0.1 °
Dimensions (LxWxH)	9500 x 2500 x 1500 mm
Weight, approx.	12500 kg
Power requirement	38.0 kW

<sup>1</sup> depends on tube diameter (OD)

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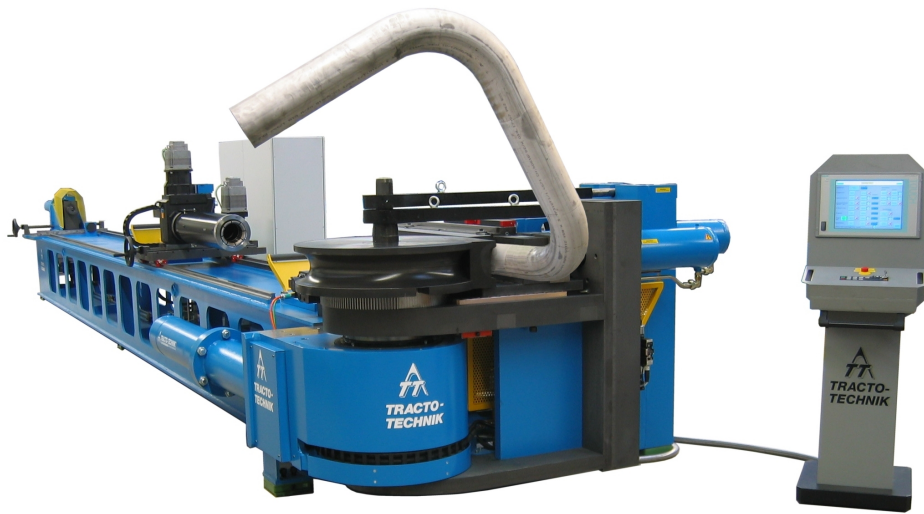


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# TUBOTRON 170

CNC tube bending machine (for tubes up to Ø 170 mm)



## Features / Equipment

- Programmable sequence control with user guidance via SIMATIC PC
- Hydraulic tube clamping with programmable clamping pressure and distance control
- Hydraulic pressure die positioning with programmable hydraulic pressure and distance control
- Hydraulic long-neck collet chuck allows for positioning in the pressure die area with tube resumption
- Hydraulic and anticipated mandrel retraction
- Automatic pneumatic minimal-metered mandrel lubrication device
- Interface for remote maintenance of the machine control
- Foot switch for hydraulic collet chuck

## Options

- Pressure die assists with programmable hydraulic pressure and distance control
- Booster functionality
- Quick-change systems for the bending tools

Technical data	
Maximum tube diameter (OD)	170 mm
Maximum bending radius (CLR) <sup>1</sup>	510 mm
Bending speed (max.)	11.5 °/s
Tube feed rate (max.)	410 mm/s
Tube rotation (max.)	50 °/s
Positioning accuracy of all axes	± 0.1 mm, ± 0.1 °
Dimensions (LxWxH)	9500 x 2500 x 1500 mm
Weight, approx.	16000 kg
Power requirement	43 kW

<sup>1</sup> depends on tube diameter (OD)

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