

TUBOBEND 20 / 20 D

Semi-automatic tube bending machine (for tubes up to Ø 20 mm)



TUBOBEND 20



TUBOBEND 20 D (mandrel bender)

Features / Equipment

- Exposed and swivel bending head for maximum bending space
- Electronic bending angle control with nominal / actual value display and automatic eightfold sequencing of the bending angles
- Mandrel adapter (TUBOBEND 20 D)
- Hydraulic tube clamping (TUBOBEND 20 D)
- Mobile and flexible to use

Options

- SIMATIC touch panel control with user guidance and storage facility for 100 tube bending figures
- Plane of bend device with 3-jaw chuck and length stops
- Mechanic collet chuck
- Adjustable bending speed
- 2-axes measuring system with digital displaying of the length and rotation position
- Manual or automatic mandrel lubrication device (TUBOBEND 20 D)
- Data transfer from PIPEFAB tube bending software (in conjunction with SIMATIC TP)
- Available tube lengths (over mandrel): 1500, 3000, 4500 or 6000 mm

Technical data	
Maximum tube diameter (OD)	16 mm (steel), 22 mm (non-ferrous metals)
Maximum bending radius (CLR) ¹	45 mm
Bending speed	90 °/s
Bending accuracy	± 0.2 °
Dimensions (LxWxH) ²	1700 x 720 x 1150 mm
Weight, approx. ²	150 kg
Power requirement	0.75 kW

¹ depends on tube diameter (OD)

² at min. tube length (over mandrel)

Subject to technical alteration • 2010-11



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FOR PERFECT
PIPE FABRICATION

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TUBOBEND 30

Semi-automatic tube bending machine (for tubes up to Ø 30 mm)



Features / Equipment

- Exposed bending head for maximum bending space
- SIMATIC touch panel control with user guidance and storage facility for 100 tube bending figures
- Hydraulic tube clamping with adjustable clamping pressure
- Hydraulic pressure die positioning
- Hydraulic mandrel retraction
- Mobile and flexible to use

Options

- Plane of bend device with 3-jaw chuck and length stops
- Mechanic collet chuck or hydraulic chuck
- Adjustable bending speed
- Following pressure die
- 2-axes measuring system with digital displaying of the length and rotation position
- Anticipated mandrel retraction
- Manual or automatic mandrel lubrication device
- Data transfer from PIPEFAB tube bending software
- Available tube lengths (over mandrel): 1500, 3000, 4500 and 6000 mm

Technical data

Maximum tube diameter (OD)	30 mm
Maximum bending radius (CLR) ¹	90 mm
Bending speed	45 °/s
Bending accuracy	± 0.2 °
Dimensions (LxWxH) ²	2200 x 600 x 1450 mm
Weight, approx. ²	500 kg
Power requirement	1.5 kW

¹ depends on tube diameter (OD)

² at min. tube length (over mandrel)

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TUBOBEND 42

Semi-automatic tube bending machine (for tubes up to Ø 42 mm)



Features / Equipment

- Electronic bending angle control with nominal / actual value display and automatic eightfold sequencing of the bending angles
- Following pressure die
- Hydraulic mandrel retraction
- Mobile and flexible to use

Options

- Length stops
- Manual mandrel lubrication device (grease press)
- Available tube lengths (over mandrel): 1500, 3000, 4500 and 6000 mm
- Internal and external deburring unit
- Assembly device for cutting rings
- Flaring device
- Chamfering device

Technical Data

Maximum tube diameter (OD)	42 mm
Maximum bending radius (CLR) ¹	90 mm
Bending speed	20 °/s
Bending accuracy	± 0.2 °
Dimensions (LxWxH) ²	1800 x 800 x 1200 mm
Weight, approx. ²	350 kg
Power requirement	1.5 kW

¹ depends on tube diameter (OD)

² at min. tube length (over mandrel)

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TUBOBEND 48

Semi-automatic tube bending machine (for tubes up to Ø 48 mm)



Features / Equipment

- Electronic bending angle control with nominal / actual value display and automatic eightfold sequencing of the bending angles
- Hydraulic tube clamping
- Hydraulic mandrel retraction
- Mobile and flexible to use

Options

- Plane of bend device with 3-jaw chuck and length stops
- Mechanic collet chuck or hydraulic chuck
- Following pressure die
- 2-axes measuring system with digital displaying of the length and rotation position
- Anticipated mandrel retraction
- Manual or automatic mandrel lubrication device
- Available tube lengths (over mandrel): 1500, 3000, 4500 and 6000 mm
- Internal and external deburring unit
- Accessory devices for cutting ring assembly, flaring and chamfering

Technical data	
Maximum tube diameter (OD)	50 mm
Maximum bending radius (CLR) ¹	150 mm
Bending speed	20 °/s
Bending accuracy	± 0.2 °
Dimensions (LxWxH) ²	2300 x 800 x 1200 mm
Weight, approx. ²	450 kg
Power requirement	1.7 kW

¹ depends on tube diameter (OD)
² at min. tube length (over mandrel)

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TUBOBEND 50

Semi-automatic tube bending machine (for tubes up to Ø 50 mm)



Features / Equipment

- Exposed bending head for maximum bending space
- SIMATIC touch panel control with user guidance and storage facility for 100 tube bending figures
- Hydraulic tube clamping with adjustable clamping pressure
- Hydraulic pressure die positioning
- Hydraulic mandrel retraction
- Mobile and flexible to use

Options

- Plane of bend device with 3-jaw chuck and length stops
- Mechanic collet chuck or hydraulic chuck
- Adjustable bending speed
- Following pressure die
- 2-axes measuring system with digital displaying of the length and rotation position
- Automatic brakes in the length and rotational positioning axes
- Anticipated mandrel retraction
- Manual or automatic mandrel lubrication device
- Data transfer from PIPEFAB tube bending software
- Available tube lengths (over mandrel): 3000, 4500 and 6000 mm

Technical Data	
Maximum tube diameter (OD)	50 mm
Maximum bending radius (CLR) ¹	150 mm
Bending speed	32 °/s
Bending accuracy	± 0.1 °
Dimensions (LxWxH) ²	4150 x 850 x 1450 mm
Weight, approx. ²	1300 kg
Power requirement	4.0 kW

¹ depends on tube diameter (OD)

² at min. tube length (over mandrel)

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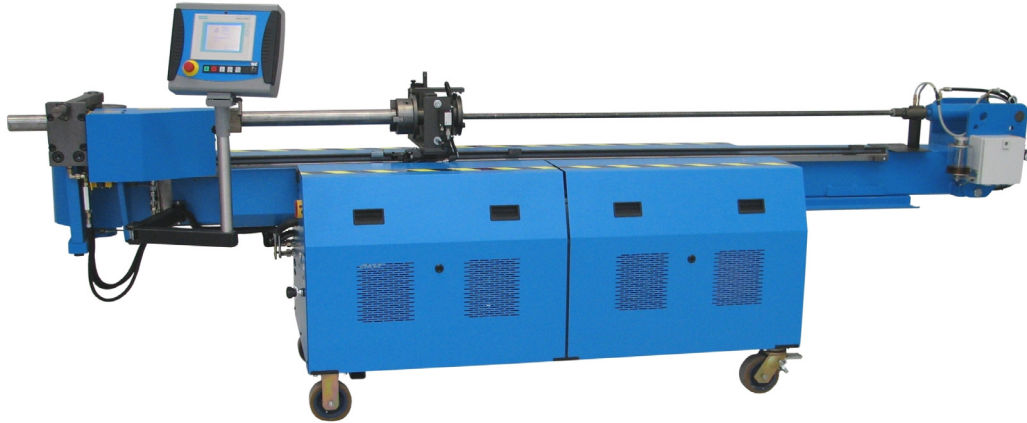


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TUBOBEND 80

Semi-automatic tube bending machine (for tubes up to Ø 80 mm)



Features / Equipment

- Exposed bending head for maximum bending space
- SIMATIC touch panel control with user guidance and storage facility for 100 tube bending figures
- Hydraulic tube clamping with adjustable clamping pressure
- Hydraulic pressure die positioning, following pressure die
- Hydraulic mandrel retraction
- Mobile and flexible to use

Options

- Plane of bend device with 3-jaw chuck and length stops
- Mechanic collet chuck or hydraulic chuck
- Adjustable bending speed
- Hydraulic pressure die assist
- 2-axes measuring system with digital displaying of the length and rotation position
- Automatic brakes in the length and rotational positioning axes
- Anticipated mandrel retraction
- Manual or automatic mandrel lubrication device
- Data transfer from PIPEFAB tube bending software
- Available tube lengths (over mandrel): 3000, 4500 and 6000 mm

Technical Data	
Maximum tube diameter (OD)	80 mm
Maximum bending radius (CLR) ¹	190 mm (option: 250 mm)
Bending speed	16 °/s
Bending accuracy	± 0.1 °
Dimensions (LxWxH) ²	4150 x 850 x 1450 mm
Weight, approx. ²	1600 kg
Power requirement	6.0 kW

¹ depends on tube diameter (OD)

² at min. tube length (over mandrel)

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TUBOBEND 80 L

Semi-automatic tube bending machine (for tubes up to Ø 80 mm)



Features / Equipment

- Exposed bending head for maximum bending space
- SIMATIC touch panel control with user guidance and storage facility for 100 tube bending figures
- Hydraulic tube clamping
- Hydraulic pressure die positioning, following pressure die
- Hydraulic mandrel retraction
- Mobile and flexible to use

Options

- Plane of bend device with 3-jaw chuck and length stops
- Mechanic collet chuck or hydraulic chuck
- Adjustable bending speed
- Adjustable clamping pressure
- 2-axes measuring system with digital displaying of the length and rotation position
- Automatic brakes in the length and rotational positioning axes
- Anticipated mandrel retraction
- Manual or automatic mandrel lubrication device
- Data transfer from PIPEFAB tube bending software
- Available tube lengths (over mandrel): 3000, 4500 and 6000 mm

Technical Data	
Maximum tube diameter (OD)	80 mm
Maximum bending radius (CLR) ¹	190 mm (option: 250 mm)
Bending speed	12 °/s
Bending accuracy	± 0.2 °
Dimensions (LxWxH) ²	4150 x 750 x 1450 mm
Weight, approx. ²	1450 kg
Power requirement	3.5 kW

¹ depends on tube diameter (OD)

² at min. tube length (over mandrel)

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TUBOBEND 90

Semi-automatic tube bending machine (for tubes up to Ø 90 mm)



Features / Equipment

- Exposed bending head for maximum bending space
- SIMATIC touch panel control with user guidance and storage facility for 100 tube bending figures
- Hydraulic tube clamping with adjustable clamping pressure
- Hydraulic pressure die positioning, following pressure die
- Hydraulic mandrel retraction

Options

- Plane of bend device with 3-jaw chuck and length stops
- Hydraulic collet chuck
- Adjustable bending speed
- Hydraulic pressure die assist
- 2-axes measuring system with digital displaying of the length and rotation position
- Automatic brakes in the length and rotational positioning axes)
- Anticipated mandrel retraction
- Manual or automatic mandrel lubrication device
- Data transfer from PIPEFAB tube bending software
- Available tube lengths (over mandrel): 3000, 4500 and 6000 mm

Technical Data

Maximum tube diameter (OD)	90 mm
Maximum bending radius (CLR) ¹	250 mm
Bending speed	16 °/s
Bending accuracy	± 0.1 °
Dimensions (LxWxH) ²	5300 x 1300 x 1450 mm
Weight, approx. ²	2400 kg
Power requirement	12 kW

¹ depends on tube diameter (OD)

² at min. tube length (over mandrel)

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TUBOBEND 120

Semi-automatic tube bending machine (for tubes up to Ø 140 mm)



Features / Equipment

- SIMATIC touch panel control with user guidance and storage facility for 100 tube bending figures
- Hydraulic long-neck collet chuck
- Hydraulic tube clamping with adjustable clamping pressure
- Hydraulic pressure die positioning, following pressure die
- Hydraulic and anticipated mandrel retraction

Options

- SIMATIC PC control with user guidance
- Hydraulic pressure die assist
- Quick-change system for the bending tools
- 2-axes measuring system with digital displaying of the length and rotation position
- Automatic brakes in the length and rotational positioning axes
- Manual or automatic mandrel lubrication device
- Data transfer from PIPEFAB tube bending software

Technical Data

Maximum tube diameter (OD)	140 mm
Maximum bending radius (CLR) ¹	420 mm
Bending speed	8 °/s
Bending accuracy	± 0.1 °
Dimensions (LxWxH) ²	9500 x 2500 x 1500 mm
Weight, approx. ²	12500 kg
Power requirement	22 kW

¹ depends on tube diameter (OD)

² at 6000 mm tube length (over mandrel)

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