



Suitable for tube from OD 20 x 1.5 mm to OD 60 x 4.0 mm, depending on Bend head setup for multiple bends, lengths, and rotations on three different layers per bend head for different bend radii

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# Twister RB20|30|60

## CNC controlled bending machine



bend tooling



Tube-hose assembly



Sample

### Technical details:

Maximum flexibility through: Number and position of bend heads  
 Simultaneous use of different grippers  
 Variation of gripper positions

No need for additional handling system; all robot functions available

Ideally suited for full automated systems

Machine capable of Right and Left bending

Maximum flexibility through user definable bend sequence for complex geometries and hose- fitting assemblies, bending from inside out.

Maximum repeatability through servo drive technology

CNC control with SPS, interface via touch screen, program Windows® based, no separate robot control necessary, identical user interface than other RB- type bending machines

Program modes available: Automatic, Manual, Single-Step, Program, Diagnostics

Offline programming possible with remote software

Servo drives are low maintenance, quiet and power saving.

Servo drive controllers allow reproducible and consistent execution of pre-programmed speeds, ensuring maximum control over part specific material properties.

Extensive diagnostics integrated in machine control

Easy transportation due to compact design w/o any hydraulics.

Compact design, small foot print

Self retracting follower

Change-over time typically less than 5 minutes

10-15% cycle time reduction through controllers "Start only" multiplex feature

### Technical standard specifications:

Axial tube feed:	2000 mm per bend head
Radii available:	3 or more per bend head
Number of bend heads:	minimum 1, maximum 5
Number of grippers	minimum 1, maximum 16
Bend direction:	Right and Left
Max. Bend capacity: (Depending on bend head )	Ø20 x 1.5 mm /low carbon steel Ø30 x 2.5 mm /low carbon steel Ø60 x 4.0 mm /low carbon steel
Bend angle:	max. 210°
Axis speeds:	Feed: max. 2000 mm/sec Bend: max. 560°/ sec Rotation: max. 615°/ sec
Bend Radius:	57mm / 125mm / 220mm on center line
Repeatability:	Bending/ Rotation ±0.05° Feed ± 0.10mm
Power supply:	400V/50Hz3-ph, 32A (Depending on configuration)
Pneumatic supply:	6 bar, approx 100l/min (90 psi/26 gal/min)
Dimensions (LxWxH):	approx. 4000 x 4000 x 2300 mm (Depending on configuration)
robot handling capacity:	from 16 kg to xx kg (Depending on configuration)
Weight (robot):	approx. 300 kg/ 660 lbs
Weight (per bend head):	approx. 550 kg/ 1210 lbs