BENDING CAPABILITIES:

CNC Pipe Bending

FABRINOX™

Your Complete Manufacturing Solution

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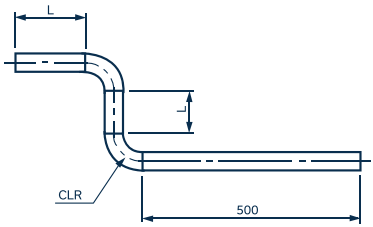
Tube OD. *= Outside diameter of pipe Wall* ***Th.*** *= Wall thickness of pipe* ***CLR. Factor*** *= This factor is used to get the Centre line radius* ***CLR.*** *= Centre line radius* ***Min L.*** *= Minimum length before and after each bend*

Minimum length required for clamping: 500 mm

Machine Specifications:

9-axis CNC tube bending machine that accommodates 6m long round- and square tubes. The machine is capable of bending tubes with **OD 6.0 mm to 80.0 mm,** with tube gauges varying from **1.5 mm to 3.05 mm.** The bending process is mandrel-assisted and can also perform push-pull bending for longer continuous bends.



Available Tooling:

(Please note that our capabilities are not limited to the below tooling)

Thin Walled Pipe (Stainless Steel)				
Tube OD. (mm)	**Wall Th. (mm)**	**CLR. Factor**	**CLR. (mm)**	**Min. L (mm)**
25.4	1.5	2	50.8	65
31.75	1.5	1.5	47.63	70
38.1	1.5	1.5	57.15	80
50.8	1.5	1.5	76.2	110
63.5	1.5	1.74	110	130
2.0 mm Walled Pipe (Mild Steel)				
Tube OD. (mm)	**Wall Th. (mm)**	**CLR. Factor**	**CLR. (mm)**	**Min. L (mm)**
60.3	2.00	1.263	76.2	185
2.7 mm Walled Pipe (Stainless Steel, Mild Steel)				
Tube OD. (mm)	**Wall Th. (mm)**	**CLR. Factor**	**CLR. (mm)**	**Min. L (mm)**
33.4	2.77	1.5	50.1	100
42.16	2.77	1.127	47.51	150
48.26	2.77	1.5	72.39	100
60.3	2.77	1.263	76.2	185
3.0 mm Walled Pipe (Mild Steel)				
Tube OD. (mm)	**Wall Th. (mm)**	**CLR. Factor**	**CLR. (mm)**	**Min. L (mm)**
60.3	3.0	1.263	76.2	185

Considerations

- The construction of the machine can limit the direction, length and angle of the pipe.
- The machine can be programmed manually or a bending program can be generated.
- Bending simulations can be used to determine the manufacturability of a pipe design.

Requirements

To generate a program for manufacturing or simulation a 3D CAD file (.igs/.x_t) is needed of the pipe only without any features added to the pipe.

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