

7-Axis Pipe Profile Cutting Machine

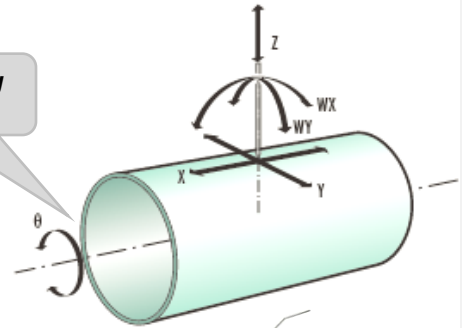
7-Axis CNC Intersection / Profile Cutting System for Pipes

This is a chuck type CNC machine for variable bevel angle cutting on pipes made of carbon steel (oxy-fuel cutting) or stainless steel (plasma cutting) with levels of precision.

Salient Features

- Suitable for profile / bevel angle cutting on pipes as per user defines parameters
- Chuck with 5 claws provided to center and clamp the work-piece accurately especially with much higher precision than using chuck with 3 claws
- Heavy duty construction with integrated base ensures greater stability and higher cutting precision; ovality of the pipe is checked by the machine before cutting to incorporate necessary corrections for achieving pre-set bevel angle cutting
- Industrial PC with user friendly interface require the users to set only a few parameters; all other parameters are set automatically to achieve desired bevel angle cutting
- Standard system available with oxy-fuel, plasma set up optional
- Improved quality – excellent cut quality, eliminates need for grinding, saves significant time and man hour cost

7-Axis Cutting Operation



Axis	Function
θ	Pipe Rotating Mechanism
X	Torch Right-and-Left Moving Mechanism
WX	Torch Right-and-Left Swing Angle Mechanism
Y	Torch Backwards & Forwards Moving Mechanism
WY	Torch Backwards & Forwards Swing Angle Mechanism
Z	Torch Up-and-Down Moving Mechanism
Z2	Testing Profiling Tracking Mechanism

Application Segments

- Pressure Vessels
- Shipbuilding
- Piping

Technical Specifications	Value
Pipe diameter	60 ~ 630 mm
Pipe length (standard)	6000 mm
Pipe length (option)	13000 mm (max)
Pipe thickness (carbon steel, oxy-fuel)	3 ~ 50 mm

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