PNC-PIPE

compact NC pipe / plate cutting machine

- Dual-purpose machine capable of pipe and plate cutting

- Improve cutting quality and productivity by switching from hand cutting to NC cutting

- Easily create cutting program from the software or directly from the controller according to your needs

- KOIKE most flexible, productive and affordable CNC cutting solution for high quality cuts

KOIKE

Your cutting needs − achieved.

PNC-PIPE plate and pipe hybrid CNC cutting machine

Affordable pipe cutting solution
Easy to operate, much faster and cleaner cut compared to manual hand cutting
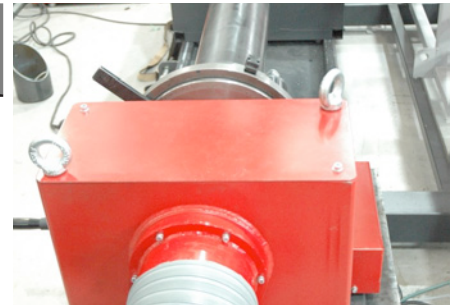
Cuts both plate and pipe
Machine switches between plate and pipe mode by simply changing a parameter setting.
Single machine that adopts to various needs from steel fabrication industry.

Similar basic configuration and operation to PNC-12 EXTREME
Comprehensive, easy operation and installation.
Basic pattern shapes available in the CNC for on-site NC programming.

Fume extraction via hollow chuck
Clean working environment is realized by hollow chuck fume extraction system, that uses the pipe as a part of extraction ducting.

Easy operation for a wide range of applications

■ Easily create cutting data by selecting shapes and specifying dimension. 47 preset shapes for plate mode and 3 types of applications for pipe mode. Cutting data can be created directly from the CNC without the use of software.

■ In Plate mode, 1 NC data can contain 12 different shapes in continuous cutting (unlimited nesting amount). In Pipe mode, 1 NC data can contain 8 patterns in continuous cutting.

■ For more complex shapes the use of the software is required. The created NC data is then copied to the controller with an USB stick.

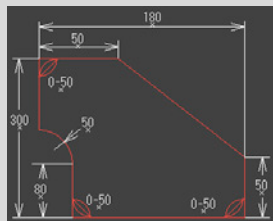■ 10 kinds of cutting module are selectable in pipe mode.

Creation of cutting data simplified to its maximum
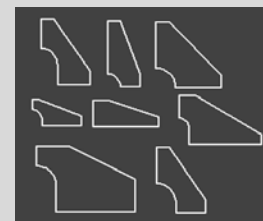
Plate mode CAD/CAM software

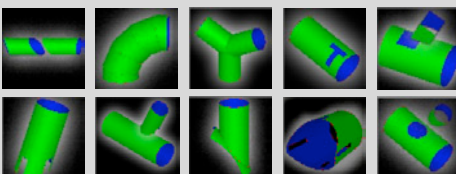① select pattern shapes from the list   ② enter dimension and angles

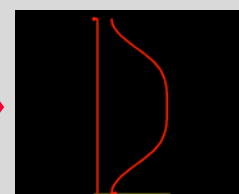③By changing the input value, shape on the controller also changes
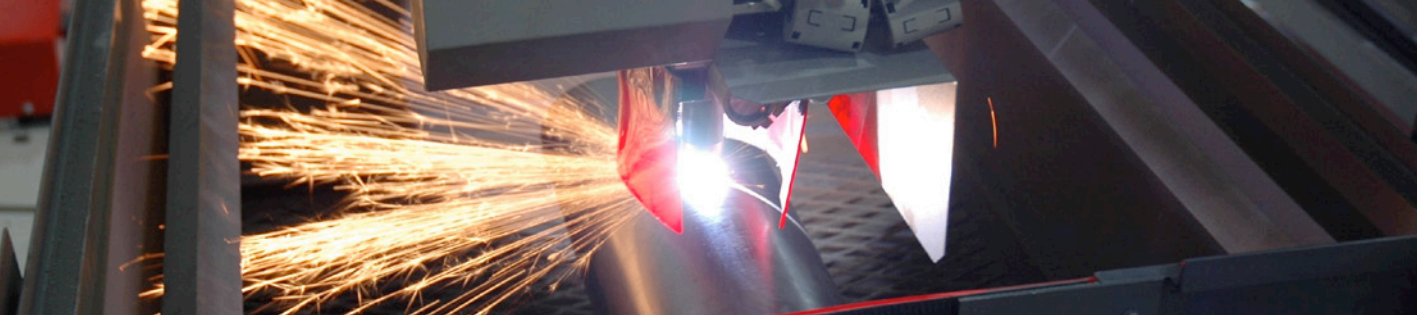
Pipe mode CAM software

① select cutting module   ② enter dimension of each part

③Pipe expansion data and NC data is automatically created

The benefits of inhouse cutting process

- **Minimal lead-time**

  No delivery lead-time.
  On demand production.
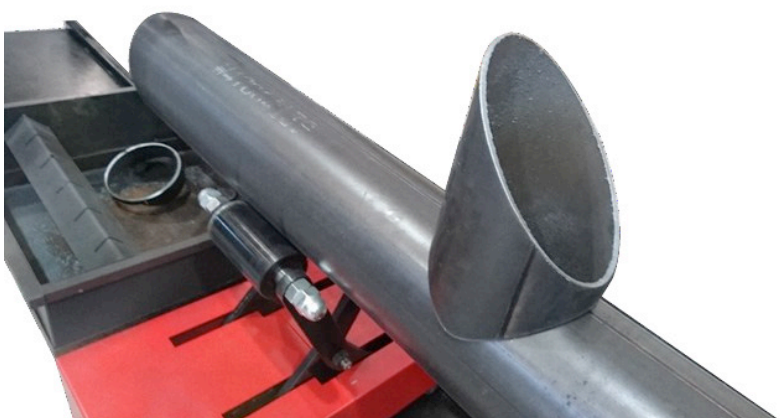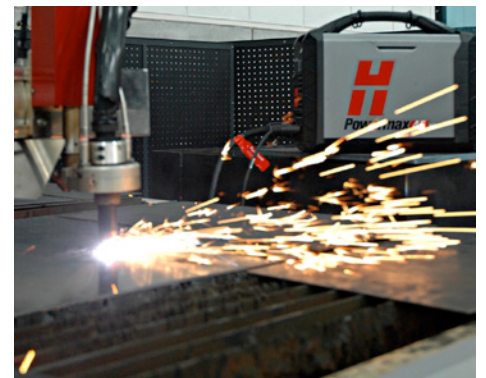
- **Flexibility in production**

  Re-designing of parts at any time. Production of parts based on fitting to the actual final product (not only depending on drawing).
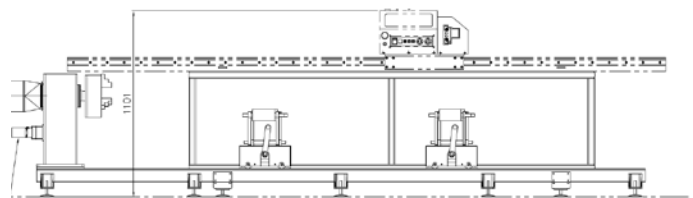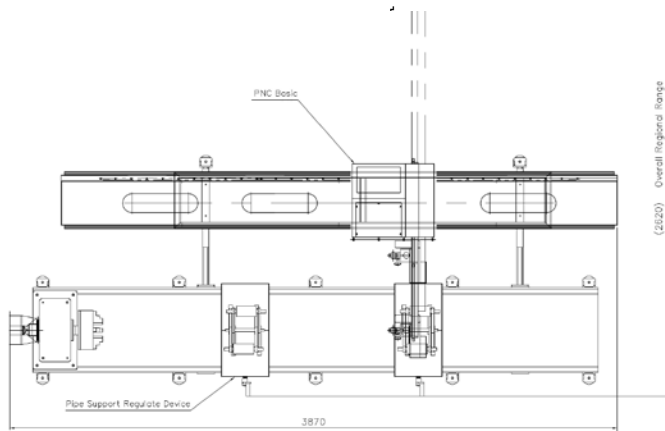
- **Better use of in-house materials**

  Instead of scrapping plates and pipe at low-price, gives added values. Reduces stock of "sleeping" plate and pipe materials.

- **1 Machine for plate and pipe process**

  Dual-purpose machine which will contribute to the in-house production and efficiency to the total cutting process of the factory.

KOIKE

Your cutting needs – achieved.

PNC-PIPE	
Model	PNC-PIPE
Cutting for	Plate and Pipe, switched via parameter setting
Max cutting speed	3.000mm /min
Max jog speed	4.000 mm /min
Pipe	Max. pipe lengths	3000mm
	Pipe diameter range	φ40 ~ 260mm
	Cutting thickness	4 ~ 16mm
	Max. load	400kg
	Pipe roundness	Tolerance <2%
Plate	Effective cutting widths	1.500mm
	Effective cutting lengths	3.000mm
Pipe Chuck	Triple-claw hollow chuck with fume extraction structure
Pipe support	2 sets
Control axis	2 axis
Height control	Arc Voltage Control (AVC)
Torch up/down stroke	150mm
Plate CAD/CAM software	KOIKE PNC-CAM
Pipe CAM software	FAST-PIPE BASIC 10 module
Machine size (Length x Width x Height)	3.870mm x 2.620mm x 1.110mm
Input voltage	Triple phase AC 200V 50Hz-60Hz

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KOIKE
Your cutting needs – achieved.