CNC plasma plate and pipe cutting system

Plasmasonic

Cut, write, mark and perforate - all with one machine

The Plasmasonic series meets the highest standards of productivity, reliability and automation. Includes advanced CNC control with automatic parameter database and gas control. Combines plasma, oxy-fuel, and pipe cutting in the same machine. 5-axis head for weld preparation.

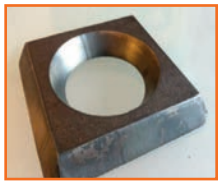
60 mm (2.4”)
St37 steel

Sample tube cutting unit with standard cutting software

High Precision drilling in 4 mm (0.16”) St37 steel

0.8 mm (0.03”) stainless steel

Various patterns



Bevel in 12 mm (0.47”) St37 steel

- The system design ensures smooth operation, even under tough conditions.
- The cutting head holder is magnetic, which allows rapid changes and avoids damage to the cutting head in the case of collision.
- Multiple plasma and oxy-acetylene cutting heads are optional. The controller allows the use of up to 4 cutting head-carriers (plasma and oxy-acetylene cutting heads with independent height adjustment), in any combination.

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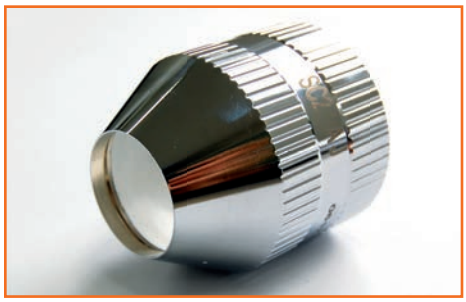
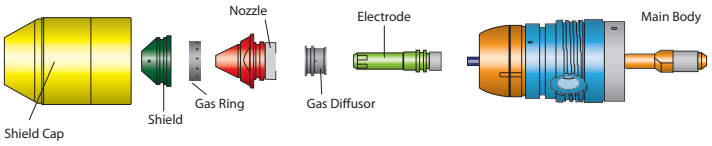
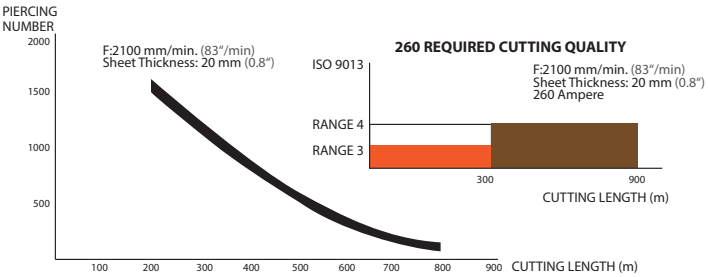
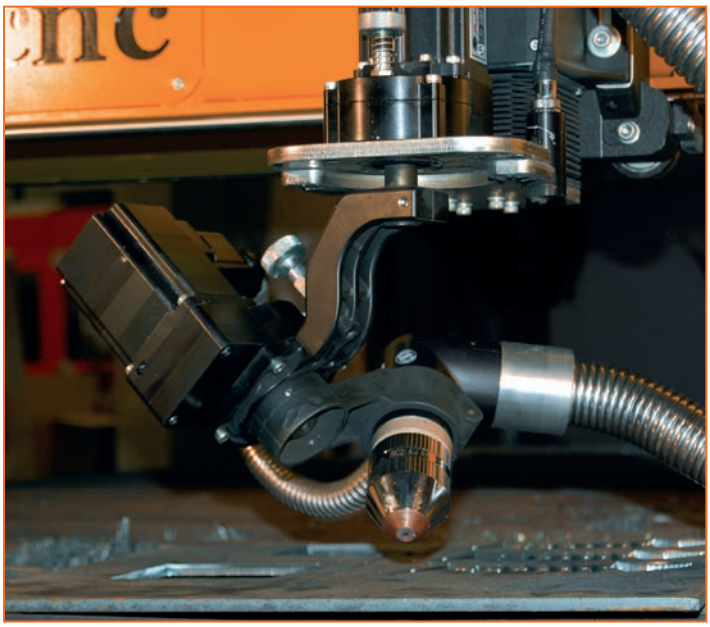




Low consumable prices with proven long life



PP260 Electrode and Nozzle Required Life Time Chart



Standard configuration

- ✓ Solid, welded, high quality steel frame
- ✓ Automatic gas and air pressure adjustment for plasma and oxy-fuel cutting is done in a control unit
- ✓ Hand operating unit (allows parameter changes while cutting)
- ✓ Automatic height control
- ✓ Double filter unit VLP
- ✓ Automatic workpiece marking
- ✓ Ergonomic control panel
- ✓ Robust, stand-alone table with sectional fume extraction
- ✓ Import CNC files in DIN/ISO G, DXF and ESSI formats
- ✓ Design and edit parts with integrated CAD/CAM program
- ✓ Automatic nesting software
- ✓ Retrace-retry function (Reset the cutting head after a break)
- ✓ Function for automatic process shutdown in case of electrode and nozzle break
- ✓ Automatic look-ahead and feed regulation for tight radii
- ✓ Operation manual

Specifications		Plasmasonic 3015 6 x 10'	Plasmasonic 4020 6 x 13'	Plasmasonic 6030 10 x 20'	Plasmasonic 12030 10 x 40'
Table length	mm	3000 (117")	4000 (156")	6000 (234")	12000 (468")
Table width	mm	2000 (79")	2000 (79")	3000 (117")	3000 (117")
Max. cutting speed	mm/min	7500 (292"/min)			9800 (382"/min)
Max. positioning speed	mm/min	15000 (580"/min)			
Repeatability	mm	±0.05 (0.02")			
Positioning accuracy	mm	±0.1 (0.04")			

Plasma specifications			PP130	PP260
LOW-CARBON STEELS	Cutting thickness	mm	16 (0.6")	30 (1.2")
	Max. thickness (piercing)	mm	25 (1")	36 (1.2")
	Max. thickness (non-piercing)	mm	35 (1.5")	65 (2.5")
STAINLESS STEELS	Cutting thickness	mm	12 (0.5")	20 (0.8")
	Max. thickness (piercing)	mm	20 (0.8")	36 (1.4")
	Max. thickness (non-piercing)	mm	25 (1")	65 (2.5")
	Control of gas pressure during cutting		Automatic	
	Gases used (plasma cutting)		Oxygen, air, nitrogen, F5, H35	
	Gases used (oxy-fuel)		Oxygen, propane	

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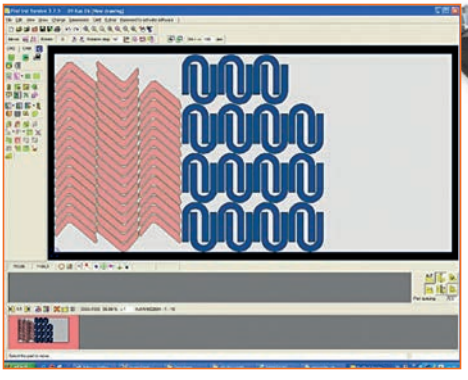
- Dual AC servo motors precisely drive the bridge from both sides, which means no lag error
- User-friendly control panel allows not only the motors but also the source of power, suction and filtration systems to be monitored centrally

- Plasma cutting machines, which are equipped with our precision fine beam plasma generators are able to combine the highest cutting quality with low consumable cost. The fine-beam generators PP (Precision Plasma) ensure very fast piercing and high cutting speeds, with an unusually clean and almost perfectly square cutting edge

- Our plasma cutting machines are equipped with an automatic CNC-controlled gas mixing console, marking, cutting table equipped with sectional suction, suction unit and particulate filter system
- The flat bed machines can be combined with a pipe cutting device
- Optional bevel cutting unit for 5 axis operation to produce quick and accurate welding bevels

- Industrial PC, USB port, CD drive, hard drive, TFT Screen
- Easy integration into existing network through integrated network card
- CNC files can be imported in the following formats: ISO ESSI, G codes, DXF
- Extensive cutting parameter library
- Automatic setting of process parameters by the CNC (Included: gas mixture, gas pressure, regulation of cutting current, selection of feed rates, indication of nozzle/cap combination)
- Fast switching of the cutting process from plasma to oxy-fuel cutting and back
- NC program can be stopped at any point and then resumed from that point
- Override function during processing, in both automatic as well as manual mode
- Part rotation
- Automatic workpiece orientation

- Automatic adjustment of the cutting gap
- All relevant machine data and statuses are displayed at a glance
- Integrated standard parts library
- Editing and designing parts in the integrated CAD/CAM program
- High-speed operation
- Automatic look-ahead and feed regulation for tight radii
- Autonest program is included in the standard software package for optimal sheet usage
- Programmable microwebs



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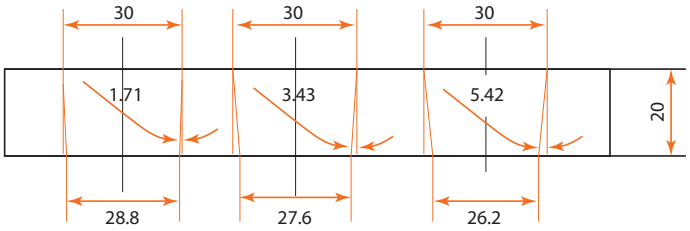
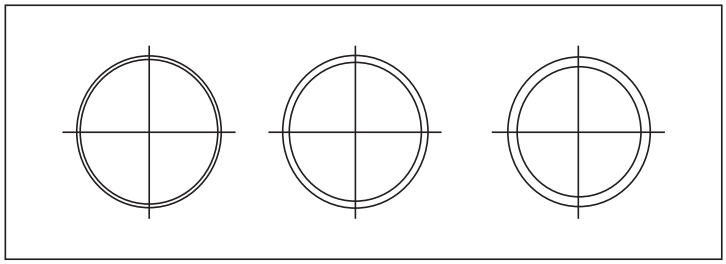
KAAST

ISO 9013 Range 3	ISO 9013 Range 4	ISO 9013 Range 5
10 mm (0.4") Angle: 2.86°	10 mm (0.4") Angle: 5.71°	10 mm (0.4") Angle: 8.81°
12 mm (0.5") Angle: 2.48°	12 mm (0.5") Angle: 4.95°	12 mm (0.5") Angle: 7.68°
20 mm (0.8") Angle: 1.71°	20 mm (0.8") Angle: 3.43°	20 mm (0.8") Angle: 5.42°





Optional configuration

- Automatic pipe/profile cutter
- Automatic bevel cutting (Bevel Cut)
- Additional plasma cutting heads
- Additional oxy-fuel cutting heads
- Additional bridge unit

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