



Robot Plasma Cutting Machines

JINFENG® is a professional China manufacturer and supplier of Robot Plasma Cutting Machines with affordable price. The Robot Plasma Cutting Machines are high performance automatic cutting line to process the strips, fat bars for shipyards, from oxy-fuel cutting plates into long strip, edge cleaning, inkjet marking, plasma cutting.


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PBG400

Robot Plasma Cutting Machines

For all the Robot Plasma Cutting Machines that manufactured by JINFENG WELDCUT will have 2 years warranty, and which are Equipped with Roller tables, cross cart, dust filter, plasma cutting system, and optional functions like dot peen marking device, Inkjet marking with robot, and support all CAD-CAM interfaces. The PBG Robot Plasma Cutting Machines are the most advanced robotic plasma cutting line to increase the productivity for End-users from different industries.

Specifications

Model	Strip	Length	Weight
		12000mm	1.5T
PBG400	100*5mm – 400*30mm		
Support Plasma cutting, Plasma marking, ink-jet marking, CAD-CAM software			



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Feature And Application

- 1.The PBG Robot Plasma Cutting Machines are a high automation cutting lines integrated with different equipments. By one key operation by one operator ,the line start the automatic processing from material loading, plate cutting by multi-heads oxyfuel cutting machine, edge cleaning, inkjet marking, plasma cutting and parts unloading.
- 2.The line can be fully integration with the MES system and Allow remote control via team viewer for the engineers from manufacturer to easily carry out the remote diagnosis to solve the problems via internet without sending engineers to the working site.
- 3.The CNC system provides full control of all main line system (robot, roller table, cross conveyor, measuring cart and gripper, the marking system).
- 4.Can read *.gen files created from Tribon/AM, DSTV files exported from TEKLA design software and others formats.
- 5.The Robot Plasma Cutting Machines are widely used in Shipbuilding, shipyard and offshore for the plasma cutting of stiffener to make flat panel, double bottom construction, subassemblies, bulkheads, webs, micro panel for different vessels/Ships. With PBG Robot Plasma Cutting Machines, the shipyards or shipbuilding can increase their production and reduce the labors.



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Details

The PBG400 Robot Plasma Cutting Machines consists of:

- Multi-torch oxy-fuel cutting machine
- Roller conveyors
- Edge cleaning line
- Edge chamfering machine
- Cross conveyors
- Ink marking with robot arm
- Input Roller table
- Robot plasma cutting chamber with a dust filter
- Short part sorting belt-plate conveyor
- Output roller table for long part
- Receiving table for long part

Structure view



Multi-torch oxy-fuel cutting machine

The oxy-fuel cutting machine is equipped with multiple torches for longitudinal cutting the steel plate in multiple long strips. The machine is designed in gantry structure and integrated with a rolling table to move the long strip to the buffler roller table. There is no need the crane or manual unloading the long strips after flame cutting.

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Edge cleaning line

By integrated an edge cleaning line to the PBG400 Robot Plasma Cutting Machines, by using brush wheels to remove the prime paint from the edge of profiles, by using the grinding wheels to remove the slag and burrs of strip cutting oxy flame cutting, where will have welding, can increase the welding quality in next processing.



Edge chamfering machine

By integrated an edge chamfering machine to the PBG400 Robot Plasma Cutting Machines, by using pressing wheels to press on the 4 edges of flat bar, long strip that with sharp edge after thermal cutting to shape the 4 edge in R2-R3 round edge, which will have good surface for painting in next processing.

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Inkjet marking robot

To install a inkjet marking head to a robot arm. The robot is moving along the length of the flat bar to complete the ink marking on the whole length of the long strip steel bar. After ink printing on the profile, the profile no need to return to original place then to be moved to PBG400 Robot Plasma Cutting Machines cutting chamber for plasma cutting.

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Robot cutting chamber

By installed an 6 axis robot arm inside cutting chamber to execute the high quality cutting on profiles. This is the key part of the whole PBG400 Robot Plasma Cutting Machines cutting chamber for plasma cutting.

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Belt-plate conveyor and receiving table

By equipped a belt-plate conveyor after cutting chamber, the PBG400 Robot Plasma Cutting Machines can automatically sorting the short parts and automatic output the parts. The short part is pushed by a pusher to the receiving table for operator carry out the short parts easily.

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Long part pusher and receiving table

A long part pusher is integrated to the output roller table, when a long part arrive to the output roller table here, the pusher will automatic push the long part to fall on the receiving table.



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