



Wuxi Pyramid General Machinery Co., Ltd.

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◆ About Us

Pyramid, was established in 2006, specializing in orbital welding automation manufacture, sales, and services with more than 10 years experience. Our products ranges: orbital welding machine, tube to plate welding machine, orbital tube to tube plate welding machine, tank turning rolls for the heat exchanger, air cooling machines. We direct energies to a higher quality products and best service.

Moreover, we are specialized in 'whole solution' of production lines for our customers, we not only supply you the individual equipment, but also delivery a solution for your project. This will bring you more values from us.

With regard to the automatic orbital welding equipment industry, advanced technical well-know in design and production activities and long term experience, we provide important technology and innovations for tank, pressure vessel, boiler, ship building, nuclear power, electric power station, manufacturing processes. We not only sell the equipment, but also delivery value to customers. Service is our speciality, after long time cooperation, you will satisfy more with us.

If you have any queries, please do not hesitate to contact us by phone or E-mail. We will revert to your questions, within 24 hours after your requests.

◆ Capabilities

Pyramid is a high-tech enterprise. With China Compulsory Certification (CCC), and was certified to ISO9001 Quality System Certification in the industry.

Headquartered in Wuxi, China. With one production base in Yangshan Industrial Zone and one sales center in Wuxi Commercial Center.

Our product range mainly include orbital welding machine, tube to plate welding machine, orbital tube to tube plate welding machine, tank turning rolls for the heat exchanger, air cooling machines and other related products.



◆ Products

➤ **Orbital Welding Machine**

❖ **Orbital Tube to Plate Welding**



This machine adopts the PLC produced by Siemens to control and installs the software developed by our factory. The whole welding process is automatically completed according to the preset procedures and processes.

Control system man-machine interface, simple operation, full Chinese interface (English available), process parameters input through touch screen, simple and intuitive to use.

Gantry three-dimensional adjustment cooperates with three-dimensional fine adjustment, suitable for welding intensive heat exchangers with small pipe diameter and pipe bridges.

The welding head adopts water-cooling positioned mandrel, to avoid inflow after the tube head melted.

The machine head can rotate 360 degrees on the horizontal surface, which is convenient for replacing tungsten and wire feed fine adjustment.

The water, electricity and gas of the machine head are not winded, and the welding torch can be continuously rotated to match the arc length to realize multi-layer welding.

The machine adopts Panasonic IGBT inverter controlled DC pulse power supply. High welding efficiency, stable performance, beautiful soldering.

The arc current is a pulse waveform, and each parameter can be set separately. The solution pool is easy to control, and the width and depth of the solution are uniform.

With 100 sets of program storage functions, each set of process parameters can be modified.

There are four welding methods: 1 welding one layer, no filling wire; 2 welding one layer, filling wire; 3 welding two layers, the first layer is not filled, the second layer is filled; 4 welding two layers, both are filled.

Our company has many years of experience in installation, commissioning, training and welding (special structure special order).

❖ Deep Hole Tube to Plate Welding



The deep hole welding machine can be used for the inner hole wire flat welding and wire fillet welding of air cooler, and can also be used for the inner hole lap welding, inner hole butt welding and back butt welding of pipe tube plate.

❖ **Tandem Orbital Tube Plate Welding**



The tandem orbital tube plate welding is a tube-plate welding machine developed according to the actual working conditions of various heat exchangers, pressure vessels, boilers and other manufacturers. The equipment is equipped with a dedicated operating frame, Panasonic 400A welder, Siemens central processor, PLC control, color touch screen. It is also equipped with a special welding head to make the automatic welding of the tube head and the tube sheet. Modular design of power supply and electrical parts, easy to maintain, safe and reliable to use. Compared with orbital tube to plate welding, tandem orbital tube plate welding improves productivity.

❖ **Orbital Welding Torch**



❖ **Orbital Welding Power Source**



➤ **Welding Automation**

❖ **Conventional/Adjustable Rotator**



This series rolling welding rotator is conventional adjustable type, which are suitable for welding, polishing, glue-lining, and assembling of the cylinder body. Welding rotator can be auto adjusted according to the size and weight of cylinder and the center distance of the wheels on the welding rotator can be adjusted manually, which the speed-control mechanism accepts either the stepping speed change of electromagnetic slip motor or the AC frequency conversion speed-changing mechanism to improve the reliability of operating. The company also can customize welding rotator in all varieties according to clients' requirements.

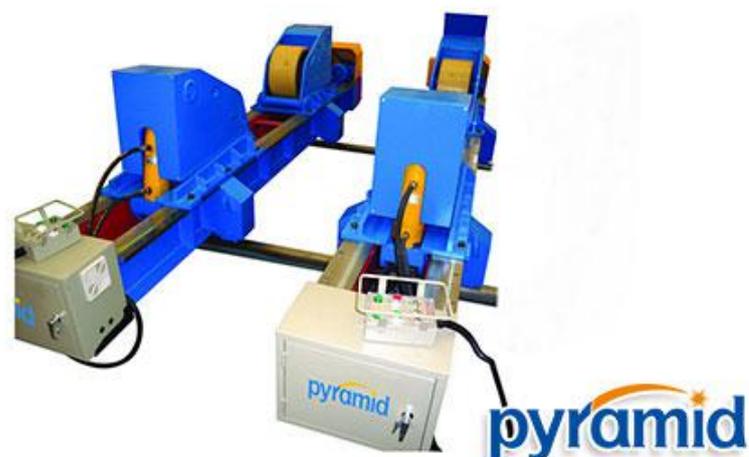
❖ **Self Aligned Rotator**



The HGZ series welding rotator is absorbing advantages of similar products at home and abroad, and designed and manufactured by us according to the operation requirements of several pressure vessel factories, and accord with mechanical standard. It is the device for special purpose adopted to weld metal cylinder especially pressure vessel. It has advantages of advanced technology, reliable quality and simple operation.

This is self-aligned welding rotator which suitable for different jobs, and it has advantages of step less speed adjust, low noise transmission and stable turning under the welding parameter in the range.

❖ **Fit-up Rotator**



Fit-up roller is mainly used in assembly of section to section pipe, such as in wind tower, or in vessel, tank application. It has four independent fit-up rolls that perform lift up process, supported by hydraulic cylinders, which connects to hydraulic pump station. Combined with standard conventional power and idler roller, it can realize section to section assembly.

❖ **Anti-creep Turning Rolls**



Anti-drift rotator is used for welding of cylinder with thick-wall and narrow gap, also for the occasion which needs to protect axial drift. It is particularly suitable for big jobs and the requirement of welding seam. Its welding speed is stable.

It is composed by powered turning rolls, Idler turning rolls, and anti-drifting test device. The powered turning rolls use AC inverter motor to drive, wide adjustable speed, smoothly rotation, stability when low speed. The idler turning rolls use motor to drive elevator, make the wheels lifting and down automatically based on the axis drifting signals getting from the testing device, then to correct axis drifting. The testing device converts the drifting volume to simulation signals for adjusting the elevator.

This equipment is mainly used for assembling and welding heavy pipes, containers, boilers, tanks, vessels, etc. After adjust the height of powered and idler turning rolls properly, it can be used to assemble and weld the taper cylinder, or different diameter cylinders. As for some other jobs, if put into the special round clip, it can make pile welding.

This kind of rollers are used for welding the thick-wall and narrow gap shells, and used to prevent the work piece from drifting axially. In case the turning-roll drifts, it is adopted with the radial movement for adjustment. These products are compact in structure, nice in shape, small in correction power.

❖ **Special Rotators**



Most of this series rollers are made according to customer's requirements, like wide wheels rollers, to enhance the friction force between the wheels and tank, conventional + self aligned roller, to suit large diameter range of the tank, motorized lead screw rollers, to reduce labor force when changing the wheel distance of heavy capacity of rollers, Pu wheels, for stainless steel tank turning, full steel wheels, for heavy weight tank turning. Also, we can also add motorized travlcar to the bottom of all kinds of roller, to enable rollers manual or motorzied moving on the rail bogie.

In a summary, we can make all kinds of rollers according different customers different requests. Max. Loading capacity can reach:2000tons, self-aligned or adjustable roller beds/turning rolls.

◆ **Application**



◆ **In the End**

Wuxi Pyramid General Machinery Co., Ltd. is always pursues to meet the customer's real & practice needs. Our mission is to ensure quality, maintain high standard of services, design and manufacture cost effective equipment for the utmost satisfaction of our august clients.