Laser Welding Solution ▸ Robotic Welding Series

Three-Axis Positioning Robot Welding Platform

Penta Laser Three-Axis Positioning Robot Welding Platform integrates a three-axis positioner with a two-layer platform design, occupying a small footprint with a compact layout. It is capable of fulfilling multi-trajectory and multi-station welding demands in industries such as automotive, shipbuilding, and new energy. The system ensures fully enclosed safety protection while efficiently completing complex operations.



Characteristics

- Six-axis robot for continuous long-duration welding; three-axis positioner allows multi-angle, multi-position welding for higher efficiency.
- Laser safety enclosure effectively blocks radiation and protects operators.
- Two-level platform design saves space with compact layout.
- Supports laser welding, print welding, and laser hybrid processes.

Optional Configurations

Welding Rotary Positioner	Automatic Visual Positioning Calibration

Technical Parameters

Model	RW 1510P
Equipment Dimensions(mm)	6000 × 3500 × 3000
Air Supply(MPa)	0.5 - 0.7
Power Supply(Hz)	380VAC 50
Laser Type	FFRC - H, FFRC - SM, FFRQ, FFSC
Laser Power(W)	300 ~ 6000
Welding Head Type	Collimatar Head, Swing Head, Composite Head
Welding Dimensions(mm)	1500 × 1000 × 400

Applications


Automotive Parts


Hardware


Shipbuilding


New Enetrgy Sector