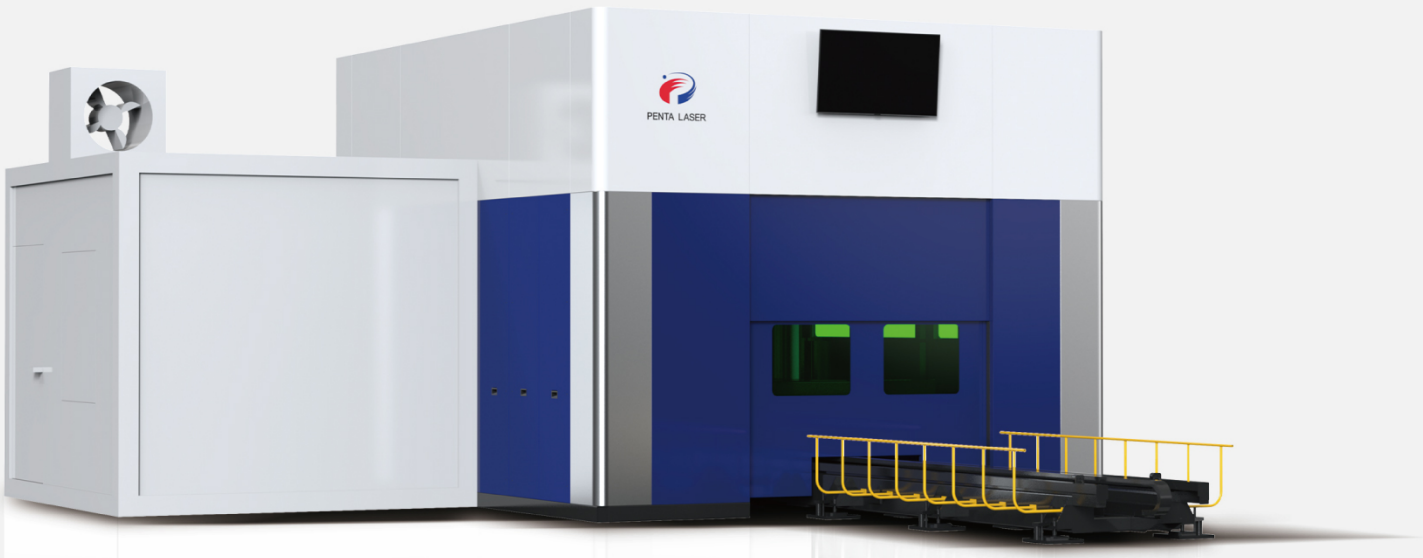
Laser Welding Solution ▸ Industry-Specific Welding Machine Series

Square Electrolytic Cell Laser welding Machine

Penta Laser Square Electrolytic Cell Laser Welding Machine is an elevated gantry-type laser welding machine featuring an extra-large welding workspace and an exclusive weld seam tracking system for fully automated precision welding. Its outstanding spot control and protective gas system ensure bright, oxide-free welds on metals such as titanium and nickel, and it is compatible with square electrolytic cells of various specifications to precisely meet the diverse manufacturing requirements of hydrogen production equipment.



Characteristics

- Overhead gantry structure with extra-large workspace.
- Precision laser welding with minimal workpiece deformation.
- Exclusive seam tracking for full automation.
- Produces bright, oxide-free welds on titanium/nickel metals.
- Compatible with multiple square electrolyzer specs for diverse hydrogen production needs.

Technical Parameters

Model	GAN 2412
Equipment Size(mm)	12600 × 4600 × 3800
Air Pressure(MPa)	0.5 - 0.7
Power Supply(Hz)	380VAC 50
Laser Type	FFRC - H, FFRC - SM, FFRQ, FFSC
Laser Power(W)	3000 ~ 6000
Welding Head Type	Collimating and Focusing Welding Head
Welding Dimensions(mm)	2400 × 1250

Applications


Core Equipment for Hydrogen Energy


Energy Protection Equipment


Chemical Equipment