Laser Welding Solution ▸ Industry-Specific Welding Machine Series

Pillow Plate Laser Welding Machine

Penta Laser Pillow Plater Laser Welding Machine is a specialized laser welding machine tailored precisely for heat exchanger plate welding requirements. It supports automatic programming for various shapes and complex patterns, ensuring convenient and efficient operation. The active cooling workbench reduces plate deformation, while the main and auxiliary dual clamping devices ensure uniform and stable welding. The machine performs double-sided bulging of plates with single-sided welding and double-sided forming and ensures that the backside of single-sided bulged plates has no welding marks, producing aesthetically pleasing welds and reliable quality.



Characteristics

- Supports welding of various heat exchanger plate shapes with automatic complex pattern programming.
- Actively cooled worktable minimizes plate deformation.
- Single-side welding with double-side forming on double-bulged plates.
- No backside marks on single-bulged plate welds.
- Dual clamping system ensures uniform welding and consistent quality.

Technical Parameters

Model	WEX 4020
Equipment Size(mm)	14300 × 3600 × 2900
Air Pressure(MPa)	0.5 - 0.7
Power Supply(Hz)	380VAC 50
Laser Type	FFRC - H, FFRC - SM, FFRQ, FFSC
Laser Power(W)	1000 ~ 8000
Welding Type	Collimating and Focusing Welding Head
Maximum Welding Length(mm)	4000 × 2000 (Expandable)

Applications

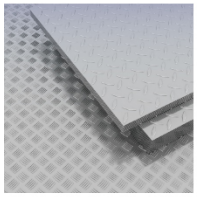
Plate Heat Exchanger


Chemical Reactor


Food Fermentation Equipment


Energy Protection Equipment