Profile Cutting Solutions

WPB Series Dual-chuck Laser Tube Cutting Machine

Penta Laser WPB Series Dual-chuck Laser Tube Cutting Machine is designed for processing round, rectangular, square, oval, and certain special-shaped tubes, and complies with Directive 2006/42/EC(CE standards).

CE



Characteristics

- Multi-level safety: Full enclosure, light curtains, guardrails, safety door locks, safety PLC for reliable protection.
- Side-mounted bed design: Servo-driven follow-up supports at loading; servo-driven tilting plate at unloading.
- Precision square chucks: High sealing and clamping force with wider gripping range.
- Twin-chuck structure: Center chuck retractable for shorter remnant cutting.
- Efficient unloading: Conveyor chain or belt allows continuous material transfer without stopping production.
- During the processing cycle, the residual waste is automatically conveyed out by the equipment without manual intervention.

Optional Configurations

Semi-automatic Loading / Automatic Loading System (from bundle)		
Weld Seam Recognition System	Bevel Module	UL Standards Compliance

Technical Parameters

Model	WPB 6025/9025	WPB 6028/9028
Laser Power (kW)	3 - 6	3 - 6
Maximum Loading Length(m)	6.5 (9.5 Optional)	6.5 (9.5 Optional)
Linear Axis Repeated Positioning Accuracy(mm)	±0.03	±0.03
Linear Axis Maximum Speed(m/min)	90	90
Rotational Axis Maximum Speed(rpm)	100	100
Rotational Axis Repeated Positioning Accuracy(Arc minutes)	±8	±8
Profile Range(mm)	Φ20 - 230 □20 × 20-230 × 230	Φ20 - 260 □20 × 20-260 × 260
Maximum Bearing Capacity of Tube(kg/m)	45	60
Chuck Control Type	Pneumatic Square Chuck	
Unloading Length(m)	3.0 / 4.5	
Support Type	Loading Floating Support / Unloading Flipping Device	

Applications


Guardrail


Stainless Steel Tube


Agricultural Machinery


Automobiles