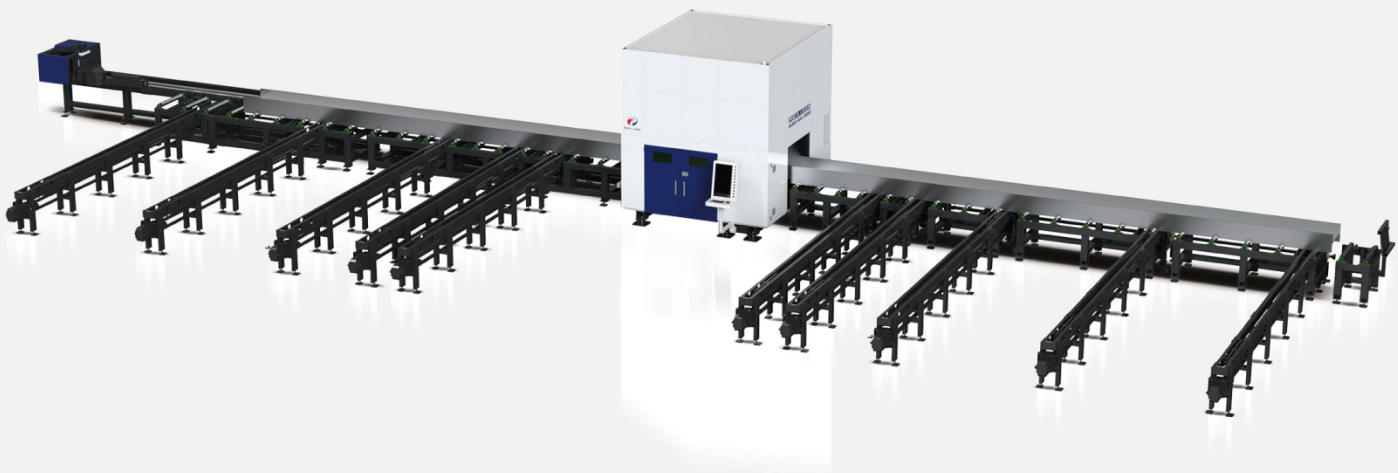
Profile Cutting Solutions

RHINO Series H-beam Laser Cutting Machine

Penta Laser RHNO Series H-beam Laser Cutting Machine is designed for the steel structure industry, capable of efficiently performing beam/column truncation, bolt hole processing, ±45° bevel cutting on H-beam flanges and webs, and weld-through hole machining. It also supports multiple steel profile splicing methods. Its nesting software is directly compatible with Tekla exported files. Equipped with a core 3D five-axis control system and an exclusive high-power process database, it ensures efficient and stable cutting of H-beams and U-channels. The enclosed cutting zone provides operational safety and effective dust extraction.



Characteristics

- Flexible Loading – Semi-auto or manual one-touch loading for varied needs.
- Orderly Management – Separate zones for raw material, finished parts, and scrap.
- Safe & Clean – Enclosed work area with efficient dust removal and centralized waste handling.
- Precise & Non-damaging – Step-by-step partition processing with positioning fixtures avoids tooling damage and reduces cost.

Optional Configurations

Automatic Loading and Unloading System

Technical Parameters

Model	Rhino 800	Rhino 1200
Laser Power (kW)	12 - 30	12 - 30
Maximum Loading Length(m)	12.5 (length customizable)	12.5 (length customizable)
Linear Axis Repeated Positioning Accuracy(mm)	±0.03	±0.03
Linear Axis Maximum Speed(m/min)	40	30
Tube Diameter Range(mm)	H 100 × 100 - 800 × 400	H 100 × 100 - 1200 × 600
Maximum Bearing Capacity of Tube(kg/m)	3500	4500
Unloading Length(m)	Standard: 12 Rollers For Loading and Unloading	

Applications


Steel Structures


Transmission Tower


Drilling Platforms


Shipbuilding