Automated Production Line Solution

BOLT VII PRO+
PLA COMPACT

Penta Laser BOLT VII PRO + PLA COMPACT is a high-performance, fully automatic laser cutting loading and unloading system, offering advantages such as high precision, high stability, intelligence, and robust safety protection. It is ideal for the automated processing of medium and thick carbon steel plates, significantly enhancing production efficiency and product consistency. This system is suited for high-end manufacturing sectors, including heavy industry, rail transit, and engineering machinery.

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Characteristics

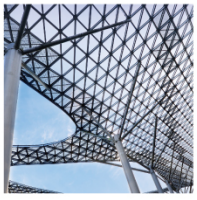
- Compact design(height ≤ 3.6m) with quick-mount supports; installation within2-3 days.
- Loading robot features sheet separation detection, in-motion detachment detection, and sheet drop detection.
- Unloading robot equipped with unloading collision detection.
- Finished table includes material stopper; full-perimeter safety guard ensures operational safety.
- Self-developed central control system automatically coordinates cutter and automation, auto-schedules production based on work orders to boost planning and execution efficiency.

Technical Parameters

Model	PLA-Compact (3015)
Plate Thickness Range(mm)	0.8 ~ 25
Raw Material	Carbon Steel
Applicable Maximum Size(mm)	3048 × 1024
Applicable Minimum Sheet Size(mm)	800 × 800
Maximum Weight for Manipulator Loading and Unloading(kg)	800
Load Capacity of Raw Material Cart(t)	3
Load Capacity of Finished Product Cart(t)	3
Maximum Loading Height of Raw Material Layer(mm)	250 (including wooden pallet)
Horizontal Travel Speed(m/min)	40
Vertical Lifting Speed(m/min)	15

Applications


Construction Machinery


Steel Structures


Rail Transit


Sheet Metal Processing


Shipbuilding