

PRODUCTION UNIT :
HAN'S LASER SMART TECHNOLOGY (JINAN) CO., LTD.

HAN'S LASER

SLU-Series

Single Loading & Unloading System



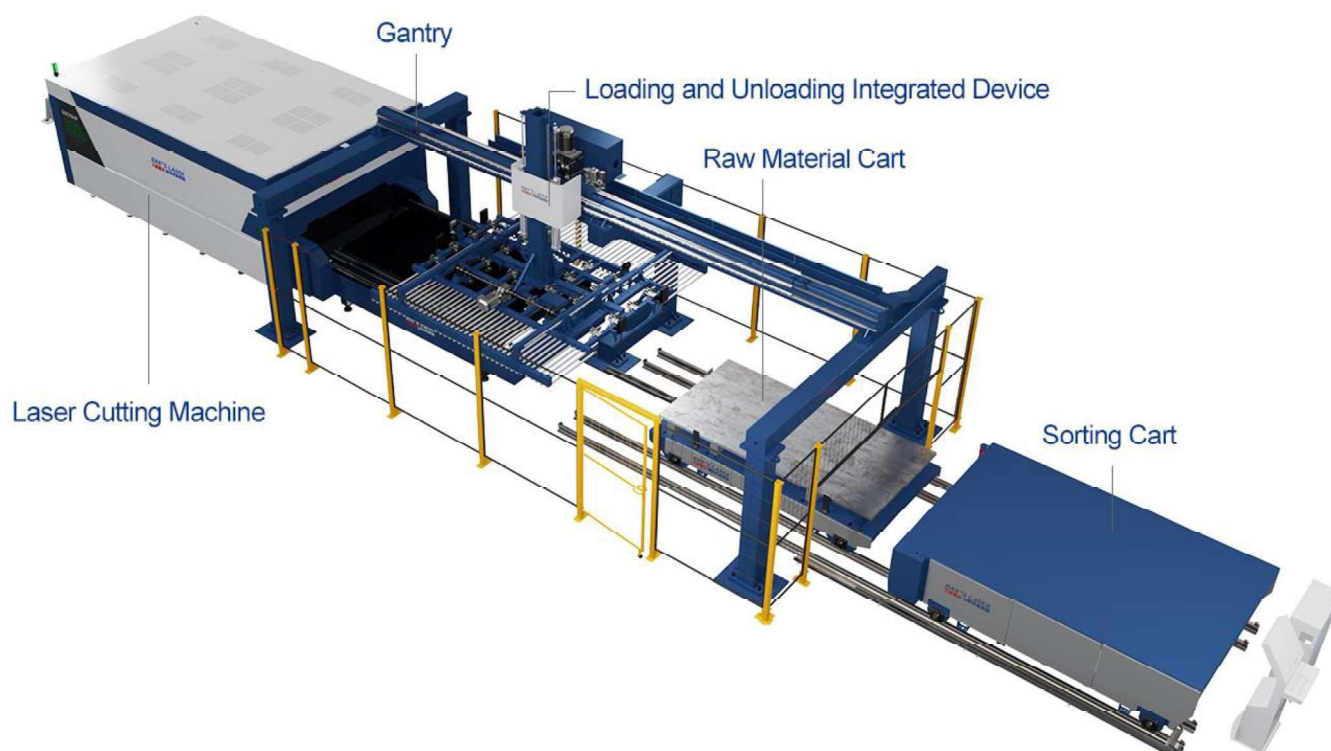
The picture is for reference only, the actual object is the standard.



SLU-Series Single Loading & Unloading System

The SLU-Series automated loading and unloading system is composed of automated loading and unloading control system, automated loading and unloading device, plane cutting machine and its CNC system, raw material cart and sorting cart. The SLU3015A automated loading and unloading system can implement tasks such as automated pick-up, automatic loading, automatic processing, automatic unloading, and automatic collection according to the production scheduling plan. The system supports automated and planned operation in the whole process, including programming, raw material loading and cutting, and transportation of cut workpieces and wastes, thereby greatly improving the production efficiency, relieving the labor burden, and reducing the production cost. It features the characteristics of high efficiency, low cost and convenient operation.

Floor space (L×W×H)	18.5 m×5.6 m×4 m
Maximum horizontal traveling speed of the loading and unloading device	40 m/min
Maximum up and down positioning speed of the loading and unloading device	8 m/min
Maximum size of loaded sheet	3000×1500×5
Maximum size of unloaded sheet	3000×1500×5
Control system	PLC control system
Maximum attraction weight	180 kg
Number of electronic cart	2
Bearing of electronic cart	4t
Horizontal traveling speed of electronic cart	20m/min
Rated power voltage	380 V
Frequency	50 Hz
Phase	3



System Features

- The system supports automated and planned processing in the whole process, including production programming, typesetting programming, raw material loading and cutting, and transportation of cut workpieces and wastes.
- It can automatically load and unload sheets with a thickness of 1 mm to 5 mm and store the processed sheets in a centralized manner.
- It is equipped with an automated loading and unloading integrated device. It uses vacuum suction cups to carry in materials, and uses forks to carry out workpiece and waste materials. It can interconnect with the production system to execute production plans and implement production management; the robot of the loading and unloading integrated device is equipped with sheet separating device and thickness measuring device to ensure the cutting machine processes one piece of sheet for one time.
- It is equipped with a platform for sorting cart and a platform for raw material cart.
- It is equipped with safety guardrails and various safety interlock switches to ensure the safe use of the machine and the safety of maintenance personnel who enter the work area.
- After the system is started, the laser cutting machine can perform a series of cyclic actions such as table exchange, edge finding, and cutting, enabling the automated operating of machine tool. It can implement cyclic cutting in automatic mode. It can also implement only one cutting cycle in manual mode.

