

Eagle eVision Series



Eagle is the fastest growing fiber laser systems manufacturer in Europe and have pioneered fiber laser for sheet and plate metal cutting with their long-standing partner IPG Photonics. The eVision cutting machines achieve cutting speeds of up to 150 m/min and acceleration of nearly 3G; they deliver the best quality, precision, cutting efficiency, and reliability. The eVision systems are available with 1 to 15 kW fiber lasers.



Features

- Fiber laser source
- Carbon fibre traverse bridge
- Superfast pallet changer
- Dynamic linear motors on all axes
- Body structure of composite
- Eagle eVa cutting head

Technical Specification

Model	1225	1530	2040	2060	2560	
Length (mm)	8800	10000	11200	14000	14000	
Width (mm)	2800	3080	4100	4100	4750	
Height (mm)	3060	3060	3060	3060	3060	
Weight (kg)	12600	18100	21600	23300	24500	
Working Area						
X axis (mm)	2560	3060	4060	6060	6060	
Y Axis (mm)	1290	1540	2040	2040	2540	
Z Axis (mm)	120	120	120	120	120	
max. sheet weight (kg)	550	900	1400	2100	2300	
*Larger machines with non-standard dimensions (2580, 3080, 25120, 25160, 30160) available on request						
Max Speeds						
Cutting Speed	m/mm		180			
Positioning	m/mm		350			
Positioning tolerance and repeatability	mm/m		±0.03			
Cutting Precision	mm/m		0.1			
Accelerations	m/s²		30			
min. programmable	mm/m		0.001			

Options

eLoader - the semiautomatic loading unit consists of manually operated crane, electric hoist and a vacuum transport pallet suspended on the hoist.

Loading Unit - It is an automatic loading system, built from a rotating arm equipped with separately controlled pressure suction cups. Loading unit controlled by means of the operator panel places sheet metal on the cutting table. One click is enough for the sheet to be loaded automatically.

An automatic Loading Unit loads sheet metal onto a removable laser cutting table. The loading system is fully automated and integrated with the machine. It is made of a rotary arm equipped with a separation controlled pressure suction cups.

The system has a function of sheet separation and a function of sheet thickness measurement, which checks whether it is compatible with the tested program. The device for the operator's signal takes the sheet from the pallet himself and transports it to the cutting table.

Crane Master - Automatic system CraneMaster loads metal sheets, unloads cut items and is fully integrated with the laser cutting machine. The device has a sheet separating system and a function which measures sheet thickness, controls it and confirms whether it conforms to the selected programme.

By means of a separately controlled vacuum system the loading frame picks up raw material sheets from the loading table and transports it to the machine pallet area. The Unloading unit removes the cut items with comb-shaped forks and places them on the upper surface of the loading frame. Picking up new material and removing cut items happens sumultaneously which is reflected in high efficiency levels.

Crane Master Store - Loading and unloading system offers efficient connection between the machine and the storage system, wchich makes automation of loading and unloading more effective. It is an unified unit consists of the following devices:

- EAGLE laser cutting machine;
- Crane Master loading and unloading system
- Twin Tower store unit.
- Sheet material is transported directly from the Tower Storage System. CraneMaster receives the sheet from the Tower Storage System, checks material thickness, and loads the sheet onto the EAGLE laser pallet changer. After cutting the CraneMaster removes the processed material from the EAGLE laser pallet changer and puts it onto the unloading container. Here, the operator can access the parts and remnant or the processed material can be transported to the Tower Storage System for storage.