

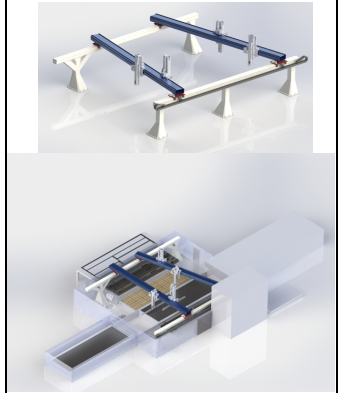
Technical Specification



iSort 6025 / 8025 XL Laser Automation & Material Handling System

Most advanced solution for automated loading, unloading and part sorting of modern laser cutting machines:

- Payload capacity up to 140Kg per pick head, ideal for modern 3m- & 4m fiber laser cutters
- Easy-to-use HMI, for easy programming and operation
- Flexible sorting & stacking options, optimizing logistics
- “Smart” interchangeable robot gripping head, handling a wide part range including complex shapes
- Highest sorting throughput & process reliability
- Variable Base Axes Length, Transfer Beams & Pick Heads
- Industrial quality, robustness and easy maintenance
- Seamless integration with laser cutters, material storage & logistics systems



Isochronic iSort XL Laser Automation System			iSort 6025 / 8025	Remarks
Sheet size	L x W	mm	6000 x 2500 / 8000 x 2500	
Maximum Sheet & Part Weight		kg	2400	
Maximum Part Weight per Pickhead		kg	600	higher payload option available
Min. Part Size	L x W	mm	150 x 150	
System Footprint	L x W x H	m	12.5* x 10.5 x 6	*Length is modular extendable
Default headroom under the base axis		m	1.95	comfortable access
No. of Sorting-Heads			2 - 4	
No. of Sorting-Portals (Transfer Beams)			1 - 2	
max. Part Rotation			+/- 210°	
X-axis dynamic			Vmax= 0.6 m/s Amax= 0.8 m/s ²	
Y-axis (Sorting Direction) dynamic			Vmax= 1.2 m/s Amax= 2 m/s ²	
Z-axis dynamic			Vmax= 0.9 m/s Amax= 2 m/s ²	
C-axis dynamic			Vmax= 12 rpm Amax= 150°/s ²	
Automatic tool change system			1 per pick head	maximum tool flexibility
Electrical Requirements			400V / 200A / 50Hz	
Compressed Air			6 bars, oil / water free	
Software (Job preparation)				
Import job data from nesting software				Wicam, Trumpf, Bystronic, Lantek, others
Program sorting-job in modern web-based GUI				
Auto-load previously programmed parts from database				
Software (Job operation)				
Automatic process synchronization with laser cutter				interfacing possible with most OEM lasers
Automatic process synchronization with material storage				material storage system interface (STOPA; Profilsys)
Manual control mode to operate as crane				for laser grate lifting / table exchange
Integration possible with most laser cutting systems				retrofit, upgrades and new installations
Optional integration with post-cutting processing such as deburring, rectifying				flexible integration in your production process
AGV / AMR integration with material logistic systems				flexible integration in your logistics processes
System Certification				CE Certification