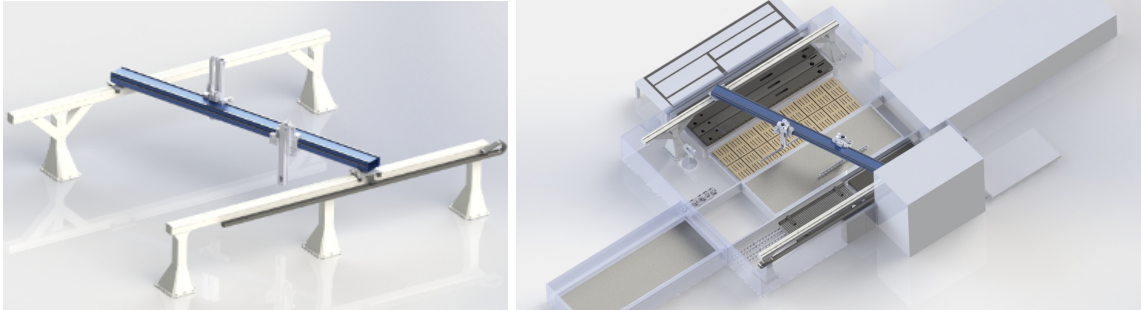


Technical Specifications



iSort XL Single Beam Laser Automation & Material Handling System

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

- Payload capacity up to 1125kg per pick head, ideal for modern 6m- & 8m 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

<i>iSort XL Laser Automation System</i>			<i>iSort 6025 / 8025 Single Beam</i>	Remarks
Sheet size	L x W	mm	6000 x 2500 / 8000 x 2500	"smaller ""iSort Standard"" system variant available"
No. of Sorting-Portals (Transfer Beams)			1	
No. of Sorting-Heads			2	
Maximum Sheet Weight		kg	2200	
Maximum Payload per Pickhead		kg	1125	
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	2.7	comfortable access
max. Part Rotation			+/- 210°	
X-axis dynamic (max.)			Vmax= 1.75 m/s Amax= 2 m/s ²	
Y-axis dynamic (Sorting Direction; max.)			Vmax= 3.00 m/s Amax= 4 m/s ²	
Z-axis dynamic (max.)			Vmax= 1.50 m/s Amax= 3 m/s ²	
C-axis dynamic (max.)			Vmax= 30 rpm Amax= 270°/s ²	
Automatic tool change system			1 per pick head	maximum tool flexibility
Electrical Requirements			400V / 400A / 50Hz	
Compressed Air			6 bars, oil / water free	
Software (Job preparation)				
Import job data from nesting software				Wicam, Trumpf, Bystronic, Libellula, Lantek,...
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 (e.g. Bystronic, Remmert, STOPA,...)
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
Floor levelness				max. +/- 10mm floor levelness
System Certification				CE & CSA Certification