










Requirements and solutions

Automation solutions optimize material flow, improve machine use and increase work and process reliability. The building blocks are modular so that the degree of automation can be adapted at a later date. The solutions range from simple handling to fully automatic operation.

Automation requirement profile

Automation system	Functionality					
	Shuttle table	Loading	Unloading	Large parts removal	Sort	Storage
Laser cutting system without automation system	■					
 Byloader	■	■				
 ByTrans	■	■	■			
 ByTrans Extended	■	■	■	■		
 ByTrans Cross	■	■	■	■		
 BySort*	■	■	■	■	■	
 ByTower Compact	■	■	■			■
 ByTower**	■	■	■	■		■

The utilization of the laser cutting system increases with the degree of automation

* Functionality in combination with ByTrans Cross only

** Functionality in combination with ByTrans/ByTrans Extended/ByTrans Cross only



Automation configuration

Laser cutting system	Automation systems						
	Byloader	ByTrans	ByTrans Extended	ByTrans Cross	BySort*	ByTower**	ByTower Compact
ByStar Fiber 3015	■	■	■	■	■	■	■
ByStar Fiber 4020	■		■	■	■		■
BySmart Fiber 3015	■	■	■	■	■	■	■
BySmart Fiber 4020	■	■	■	■	■		■
BySprint Pro 3015	■	■	■	■		■	
BySprint Pro 4020	■		■	■			

■ Available in combination with the corresponding laser cutting system

* Functionality in combination with ByTrans Cross only

** Functionality in combination with ByTrans/ByTrans Extended/ByTrans Cross only



BySort

The upgrade for the fully automatic sorting of parts

Customer benefits

- Increase the processing quality. Automated unloading of the completed cut parts enables safe and careful material handling on your ByTrans Cross
- Increased level of automation during the unloading and sorting process also accelerates your subsequent manufacturing processes
- Full integration into the BySoft software environment. All of your cutting and unloading plans from a single source
- Everything on one touch screen. Thanks to the integrated control, you operate the BySort using your Bystronic laser cutting system's operator terminal
- Maximum flexibility for your parts unloading and a variety of unloading positions with a selection of different gripper modules
- The upgrade can be carried out any time. BySort can also be retrofitted on your existing ByTrans Cross loading and unloading system



	BySort 3015	BySort 4020
Nominal sheet size	3,000 × 1,500 mm	4,000 × 2,000 mm
Sheet thicknesses	1.5–15 mm	1.5–15 mm
Number of sorting heads	2	2
Minimum part size	150 × 150 mm	150 × 150 mm
Maximum part size (approx.)	1,800 × 1,200 mm	2,400 × 1,600 mm
Maximum part weight per Head	50 kg	50 kg