










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



ByTower

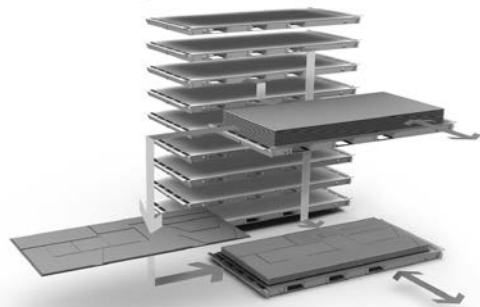
Compact storage tower for lightly-manned production

Customer benefits

- The shuttle table is automatically loaded and unloaded and the entire system significantly better utilized
- Frequently used materials are immediately available because they are stored directly next to the machine
- Lightly-manned parts production can be realized to a high degree
- The shuttle table is still freely accessible
- Extraordinarily flexible and simple to operate. The storing of raw material and removal of processed sheets is easy using a fork lift truck. The return transfer of cut sheets is automatic by the system



One cassette for raw material

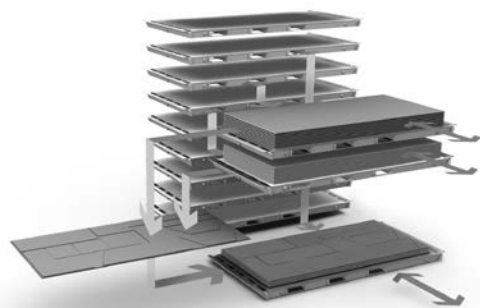


Cassette 1: raw material

Storage: cut sheets

ByTower + ByTrans 3015

Two cassettes for raw material or intermediate storage



Cassette 1: raw material

Cassette 2: raw material

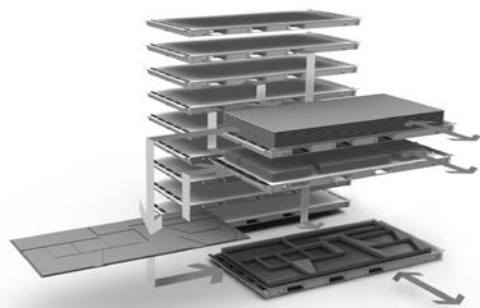
Cassette 2: intermediate storage

Storage: cut sheets

Storage: cut sheets with plastic sheet separators

ByTower + ByTrans 3015 Extended/Cross

Large part removal and intermediate storage



Cassette 1: raw material

Cassette 2: large parts storage

Storage: scrap

ByTower 3015

Nominal sheet size	3,000 × 1,500 mm
Load sheet metal thickness	0.8–25 mm
Unload sheet metal thickness	0.8–25 mm
Maximum sheet weight	890 kg
Number of cassettes	11/8/6
System height	5.6 m/4.5 m/3.8 m