

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

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

* Functionality in combination with ByTrans Modular only. BySoft CAM is recommended.

** Functionality in combination with ByTrans/ByTrans Extended only



Automation configuration

Laser cutting system	Automation systems						
	Byloader	ByTrans	ByTrans Extended	ByTrans Modular	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 Modular only. BySoft CAM is recommended.

** Functionality in combination with ByTrans/ByTrans Extended only



ByTower

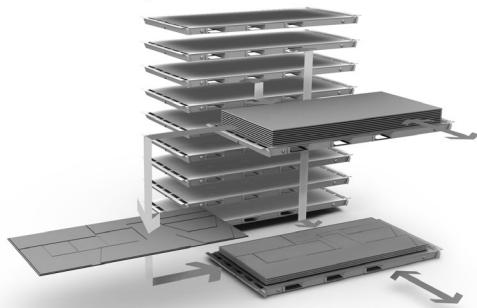
Compact storage tower for lightly-manned production

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



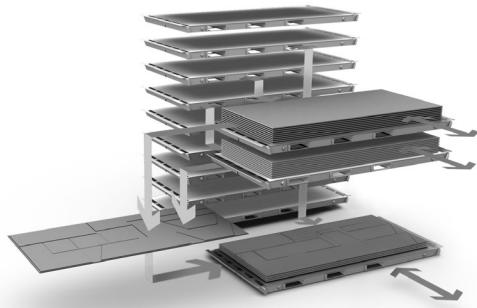
One cassette for raw material



Cassette 1: raw material

Storage: cut sheets

Two cassettes for raw material or intermediate storage

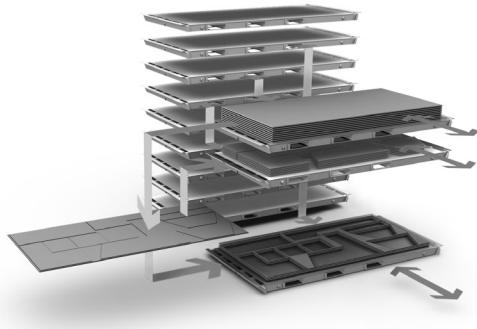


Cassette 1: raw material
 Cassette 2: raw material
 Cassette 2: intermediate storage

Storage: cut sheets

Storage: cut sheets with plastic sheet separators

Large part removal and intermediate storage



Cassette 1: raw material
 Cassette 2: large parts storage

Storage: scrap

ByTower + ByTrans 3015

ByTower + ByTrans 3015 Extended/Cross

ByTower 3015

Nominal sheet size	120 x 60 inch
Load sheet metal thickness	0.03–1 inch
Unload sheet metal thickness	0.03–1 inch
Maximum sheet weight	1,962 lbs
Number of cassettes	11/8/6
System height	18.37 ft/14.76 ft/12.46 ft