SmartFlow System - automation for laser cutting machines

Seamless material flow between storage, cutting, and processing stations

Optimized organization and real-time access to multiple sheet types & thicknesses

Precise preparation of sheet sets for cutting or further production stages

SYSTEM ELEMENTS

The SmartFlow System is configured based on the required storage capacity, the number of integrated laser cutting machines, and the specifics of the production process. It consists of one of the Storage modules (01), complemented by a Transport module (02), an Access point (03), and dedicated software (04).
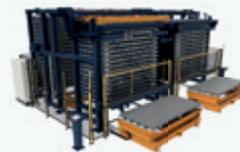
01 Storage module with station and depalletizer
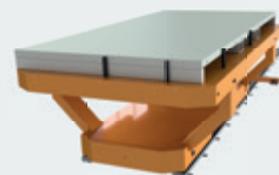

| MonoTower® | TwinTower® | TransferTower® | MultiTower® |

02 Transport module: Multiloader

03 Access point for cut details sorting

04 Software for production planing and scheduling integrated with ERP, CAD/CAM

BENEFITS

» Fast turnaround for urgent orders

» Reduced picking errors

» Efficient execution of short production runs

» Fewer full-time positions required in the production process

» Up to 85% utilization of machine production capacity

» Increased production process efficiency

» Reduced or eliminated forklift traffic

» Unattended cutting possible — e.g. during night shifts or weekends

» Effective and efficient production planing through ERP and WMS integration

Baumalog

STORAGE PARAMETERS

Storage type	MonoTower® | TwinTower® | TransferTower® | MultiTower®		
System model	**3015**	**4020**	**6020**
Maximum sheet storage dimensions	3x1.5 m	4x2 m	6x2 m
Shelf load capacity	up to 3 t	up to 5 t	up to 5 t
Sheet thickness	0.5 mm - 25 mm	0.5 mm - 25 mm	0.5 mm - 25 mm
Unloading/loading cycles per hour	up to 40	up to 30	up to 30
Number of shelves transported per hour	up to 20	up to 20	up to 20
Cut parts storage capacity	Yes	Yes	Yes
System height	up to 20 m	up to 20 m	up to 20 m

BAUMALOG WORKFLOW

We work closely with our clients, following the structured process below.
It helps us to deliver solutions tailored to specific operational needs.

01 » **Analysis**
Production hall layout
and material flow

02 » **Planing**
Material flow
and machine setup

03 » **System design & production**

04 » **Installation and commissioning**

05 » **Integration and training**

06 » **Service and maintenance**

SOFTWARE

Baumalog software is sold exclusively with Baumalog products.
All Baumalog automated storage and transport systems
are equipped with control software that can be integrated
with the software (ERP, WMS, CAD/CAM) currently used
by the customer.

WE MAKE THEM FLOW

We integrate our systems seamlessly with laser cutting machines from various leading
brands—ensuring smooth material flow and optimized production.

TRUMPF	Bystronic	Mazak	Eagle	Mitsubishi	LVD	Durma	Amada	BLM	Salvagnini

Flow matters.