

# barbaric



## Panel storage system

compact - fast - custom-made



[www.barbaric.at](http://www.barbaric.at)

# Innovation in perfection

**barbaric**



● LCV

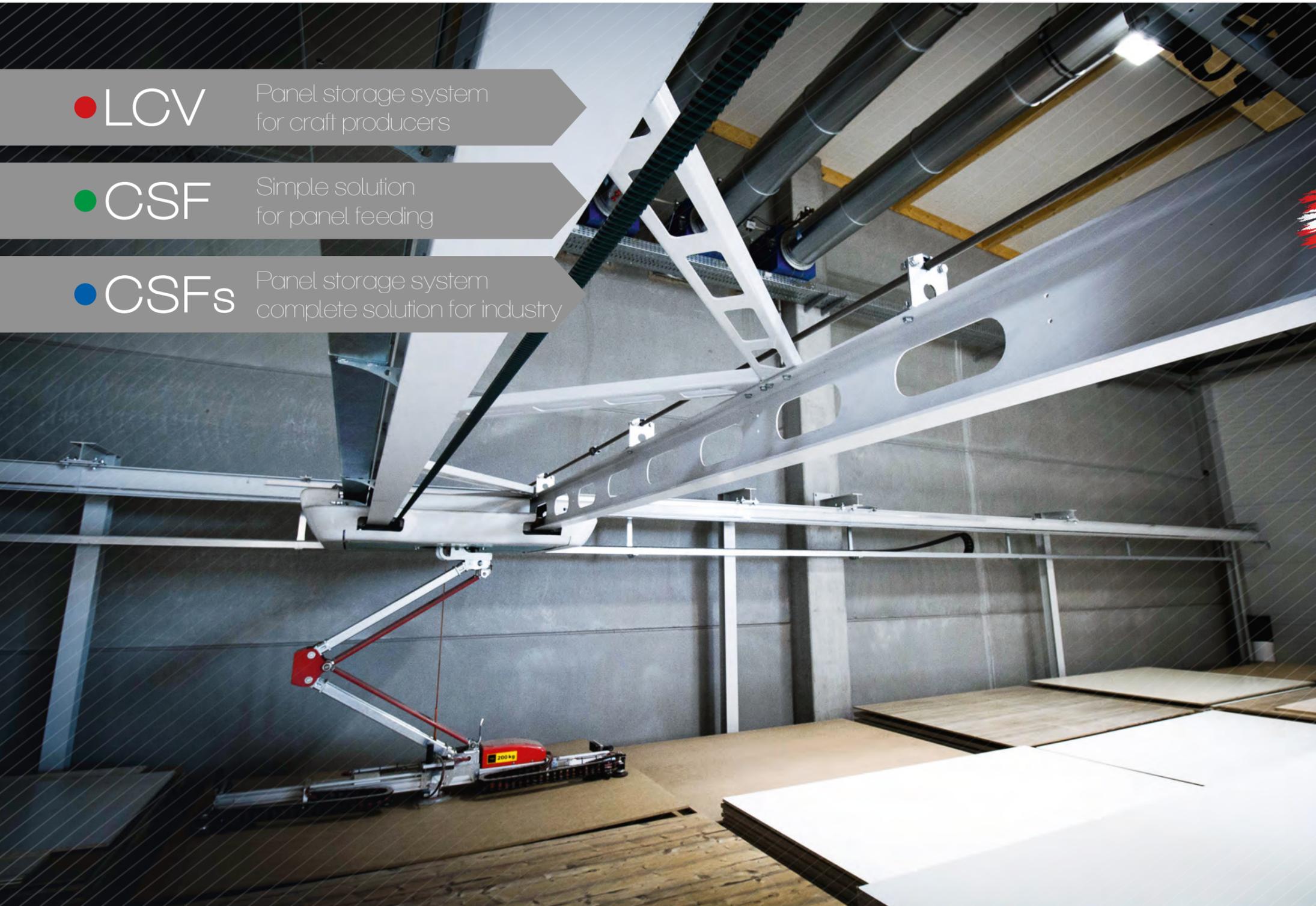
Panel storage system  
for craft producers

● CSF

Simple solution  
for panel feeding

● CSFs

Panel storage system  
complete solution for industry



**barbaric**  
quality  
made in Austria

barbaric is a successful and dynamic company with headquarters and manufacturing facility in Austria specialized in sophisticated lifting technology. Our goal is the individual production of custom-made solutions for our customers in the field of glass and panel manipulation. Through integration of modern components developed in our company we can offer ergonomic and cost-effective systems with short payback periods.





## Simple and functional

All essential functions of the panel storage system CSF were retained at the feeding system LCV. By concentrating on essential functions the system can convince with simplicity and reliability.

## Manipulator

All functions are integrated to save space.

- lifting motor
- horizontal motor
- rotation device (optional)
- switch cabinet



# LCV feeding system

A barbaric LCV feeding system allows an easy and fast feeding of your manufacturing machine. In this area we can offer custom-made systems built with simple yet high-quality components. Benefits are low space requirement and the physical relief of production workers. An investment with tremendous value for craft and industry production.



## Suction traverse - with optional size adjustment

- manually adjustable aluminium traverse
- automatic size adjustment (optional)
- panel sizes of 2000 mm to 4200 mm
- panel weight of 200 kg
- vacuum generation via energy-saving ejector



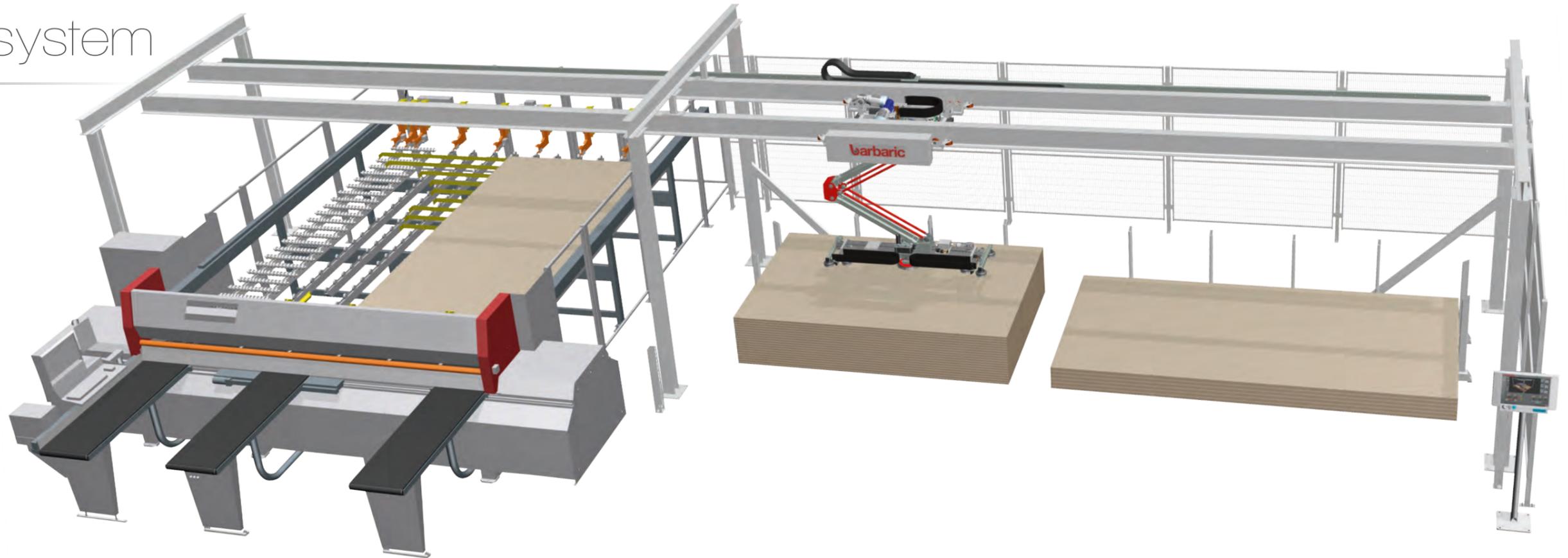
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# LCV

feeding system



## Technical data

STANDARD

OPTIONAL

	STANDARD	OPTIONAL
<b>Plant size</b>		
» System design	two-axis system (XZ)	three-axis system (XYZ)
» Length	up to 50 m	
<b>Movement speeds</b>		
» X-axis	80 m/min	
» Z-axis	25 m/min	
<b>Panel sizes</b>		
» Length	2000 – 4200 mm	longer on request
» Width	600 – 2100 mm	longer on request
» Thickness	from 8 mm	
» Panel weight	200 kg	300 kg
<b>Stacking</b>		
» Stack height	1800 mm	up to 2500 mm
» Stack distance	150 mm	
» Lifting hole	2000 x 600 mm	

## Function and operation

- visualization in 2D and 3D system
- simple and intuitive user interface
- fully automated standardized hardware interfaces for different saw manufacturers
- automated panel feeding

## Your benefits at a glance

- optimized material flow
- gentle manipulation, no damaging of the panels during transport
- optimization of space
- reduced personnel expenses
- simplification and alleviation of production processes
- higher capacity utilization of your manufacturing machine
- flexibility in production processes
- payback periods below one year possible
- fully automated panel handling





# CSF

## Panel storage system

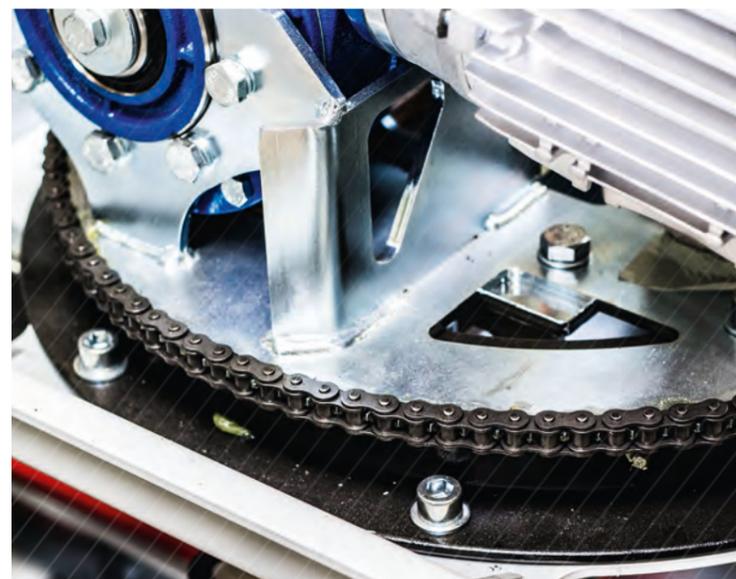
**„Innovation in perfection“**  
 The panel storage system CSF combines functionality, performance and design in one machine. With hundreds of systems installed worldwide barbaric has become a specialist in warehouse logistics and vacuum technology. For each company in the crafts, supplying or industry, we offer suitable storage solutions.

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### Manipulator

Unique design and narrow body. All essential functions and components are integrated. Touch screen and control panel are located at any point on the ground.



### Know-how and design

CAD optimized product design and low net weights meet the high demands of fast speed and short cycle times. Optimum use of space - only 100 mm lateral distance in all directions is required.



### Rotation device, panel measurement and angle correction

With the 90° rotation unit, panels can be stored in all directions. In each stacking process the panels are measured and weighed. High process reliability through continuous measuring and recording of the weight of the panels. Orientation of the angular position while driving. 180° rotation unit optional.



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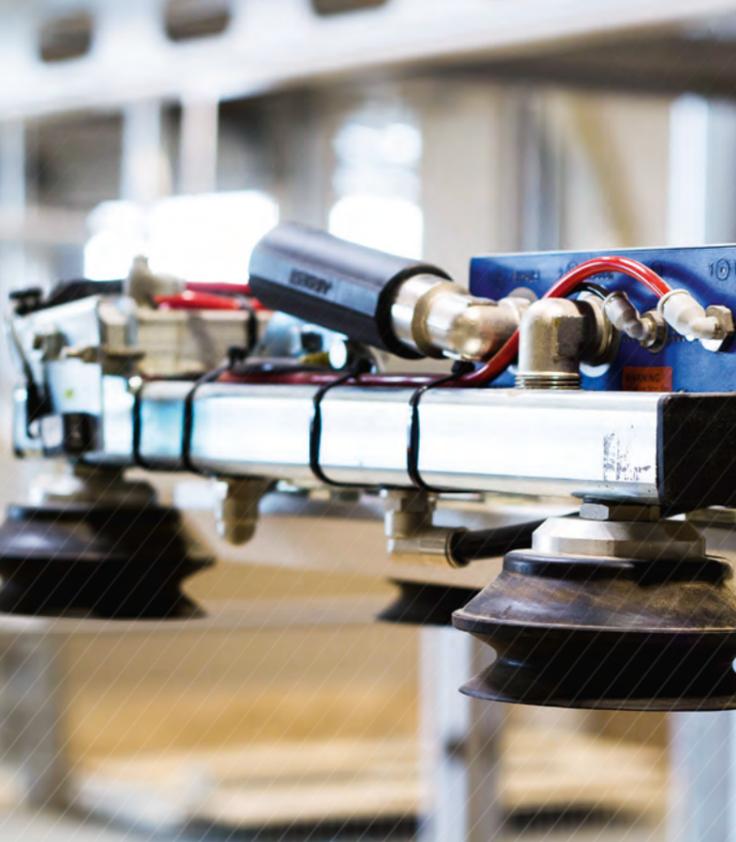
STORE



ADMINISTRATE

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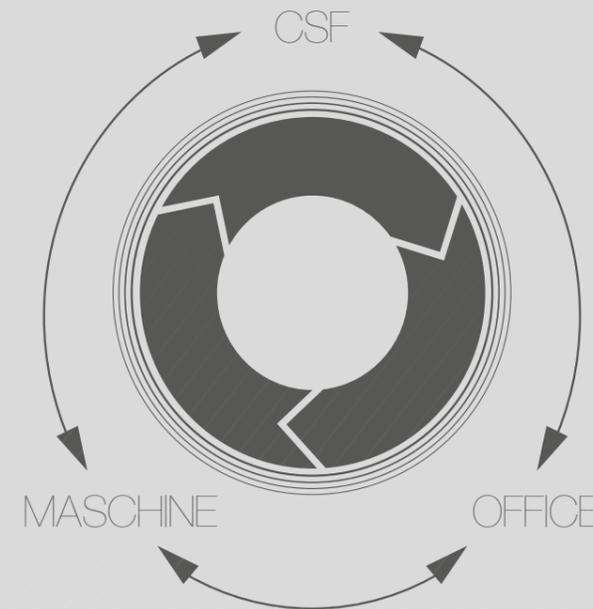
## The suction traverse - functional yet compact

Functionality in detail.

Modern, decentralized control modules and valve terminals enable an easy and compact structure.

Energy-saving ejectors ensure an economical and silent operation.

- automatic length adjustment
- panel measurement
- weight measurement
- MDF- and thin panel package
- maintenance-free
- power saving function



## Interfaces for established manufacturers

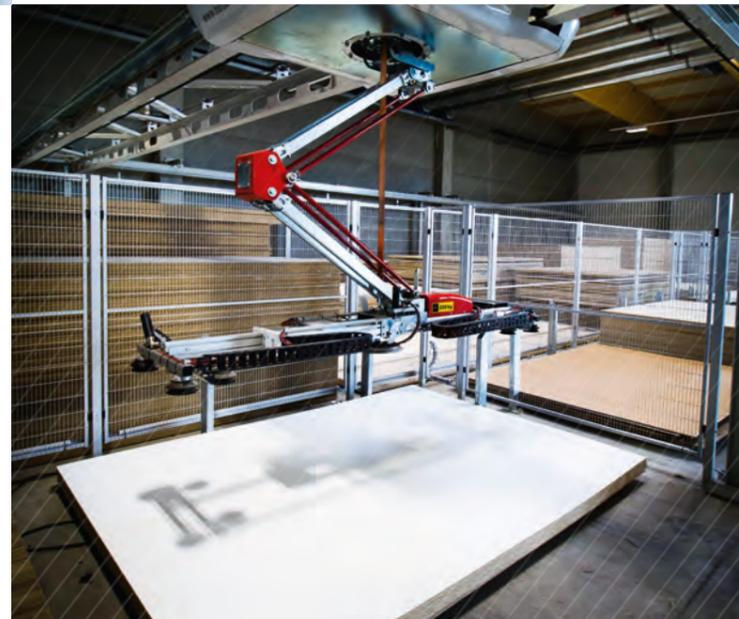
The basis for an efficient production is the connection of the storage system with the manufacturing machine.

- open data interfaces
- existing hard- and software interfaces for almost all machine manufacturers
- automatic monitoring of stock quantities
- either storage system controls saw or saw controls storage system
- by default a re-integration of cutting rests into the storage is possible
- any number of Office stations
- status message by e-mail and SMS
- customized versions available

## Sort, group and chaotic stacking

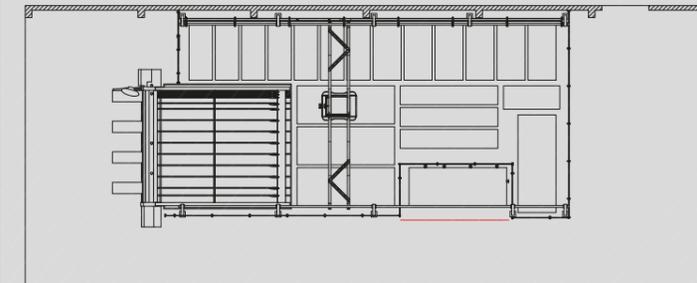
Flexible design options for stacking in the warehouse. Sorted or chaotic stacks can also be mixed within a warehouse.

A change in the stack due to new materials or groups is possible at any time.



## Individual design for each customer

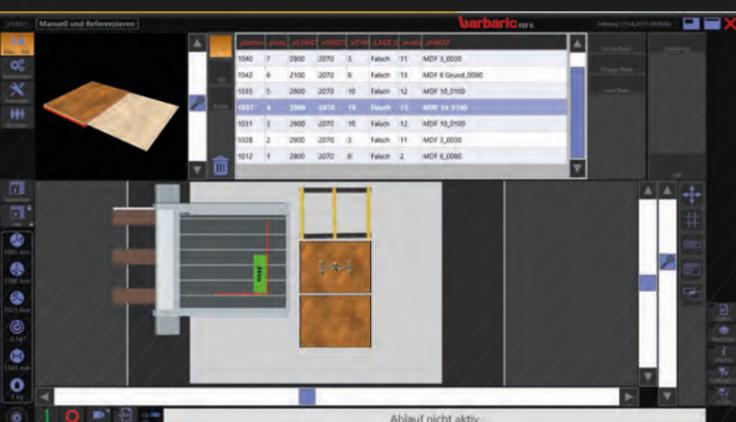
Each barbaric panel storage system is adapted to the specific customer requirements. In close cooperation with our customers, we develop the ideal concept. This results in ergonomic solutions for internal logistics.



## Control and operation

Various storage configurations can be realized with our standard software.

- integrated service tool for remote maintenance
- simple touch-enabled surface
- Windows-based
- extensive error analysis, with optional camera tool
- integrated warehouse management and inventory management
- XY-alignment functions for the alignment of parts on machine stoppers

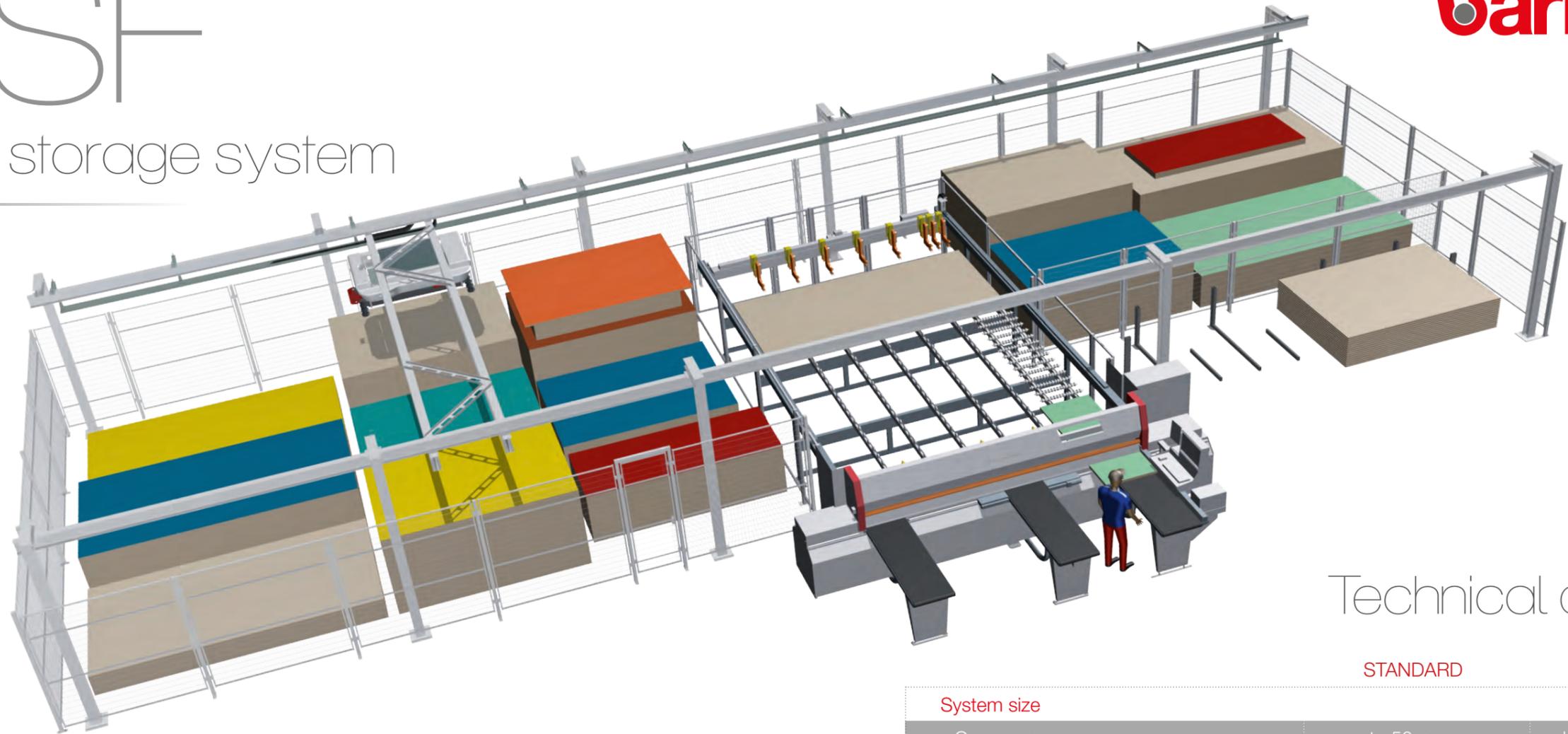


## Optional Label Printing System

For production processes with a continuous level of automation, we can place production labels on the panels right before cutting. Thus we facilitate the identification of items and the communication with the individual production machines.

# CSF

## Panel storage system



### Technical data

	STANDARD	OPTIONAL
<b>System size</b>		
» Crane runway	up to 50 m	longer on request
» Crane bridge	up to 13 m	up to 16,5 m
<b>Movement speeds</b>		
» X-axis	130 m/min	
» Y-axis	110 m/min	
» Z-axis	40 m/min	
<b>Panel sizes</b>		
» Length	2000 – 4200 mm*	max. 5600 mm
» Width	600 – 2100 mm	others on request
» Thickness	from 6 mm	from 3 mm
» Panel weight	200 kg	up to 300 kg
<b>Rest sizes (for re-integration)</b>		
» Length	2000 – 4200 mm*	1200 - 4200 mm
» Width	600 – 2100 mm	
<b>Stacking</b>		
» Stack height	1800 mm	up to 2500 mm
» Stack distance	150 mm	100 mm
» Lifting hole	2000 x 600 mm	

\* Panels up to 5600 mm long can be lifted and transported eccentrically.

### Function and operation

Highly efficient production facilities require modern control systems.

- intuitive user interface and modern layout
- 21" touch display
- material administration and production control
- office terminal
- material parameters
- SQL-data base
- online interface for optimization software
- external storage management
- remote control

### Your benefits at a glance

- optimized material flow
- gentle manipulation, no damaging of the panels during transport
- optimization of space
- reduced personnel expenses
- simplification and alleviation of production processes
- higher capacity utilization of your manufacturing machine
- highest flexibility in production processes
- best possible material utilization due to re-integration of cutting rests
- integrated warehouse management
- payback periods of one to two years
- Order-picking - operation without saw possible





## Performance for industrial producers

Our panel storage system CSFs meets the high industrial demands for functionality and performance.

- cycle times below 1 minute
- movement speeds up to 150 m/min
- crane bridge lengths up to 25 m
- integration of chain conveyors or conveyor belts



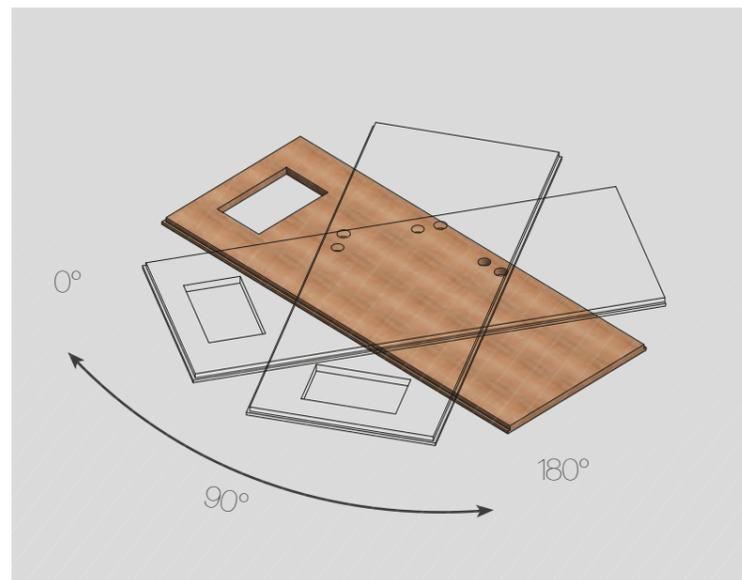
## Manipulator

The equipment of the manipulator provides high system security. Throughout, maintenance-free components ensure high availability of the system.

# • CSFs

## Industrial Panel storage system

With the panel storage system CSFs industrial we can offer an individual solution for your special demands. There are almost no constraints on your wishes. Renowned industrial enterprises rely on the stability and reliability of barbaric systems.



## Panel rotation up to 180°

With the 180° rotation device parts can be aligned on both sides. A special angle correction of +/- 5° guarantees straight and correct stacks. The XY-alignment functions ensure the alignment of parts on machine stoppers. This allows doors to match the orientation and the veneer or can be outsourced to a further processing machine.



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STORE

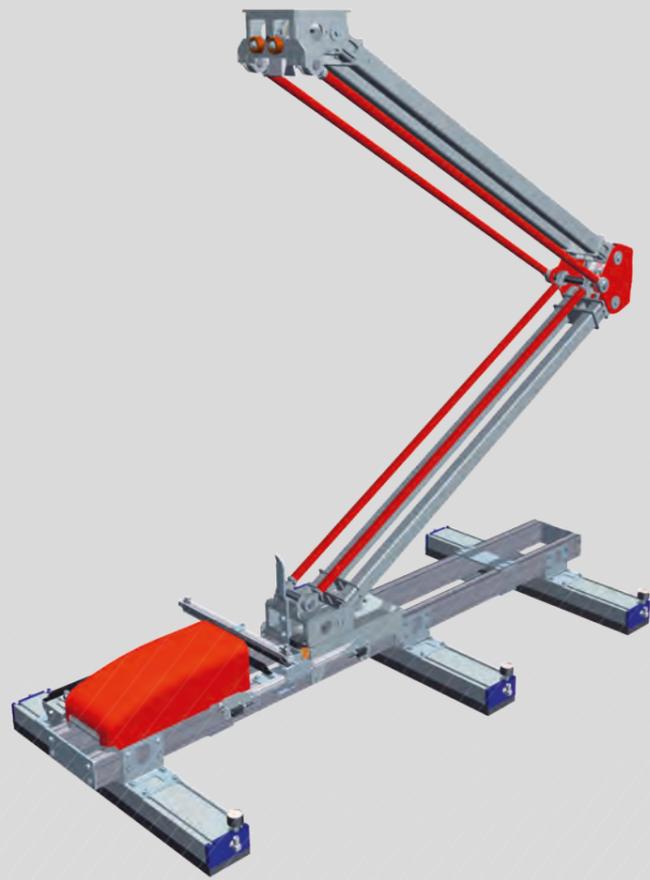


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## Suction traverse - equipped with all the functions you need

Depending on the application, the suction traverse is adapted to specific customer requirements and materials. Optional load increase and increase of stroke are realized.

- standard suction traverse
- vacuum grippers
- special suction traverse
- separation unit
- ionization nozzle for the plastic panels
- handling for wooden boards

## Safety system

Our safety facilities comply with all local standards. In conjunction with other machinery, special safety concepts are realized in agreement with the customer.

- centralized safety PLC with online access
- possibility of integration of various machines



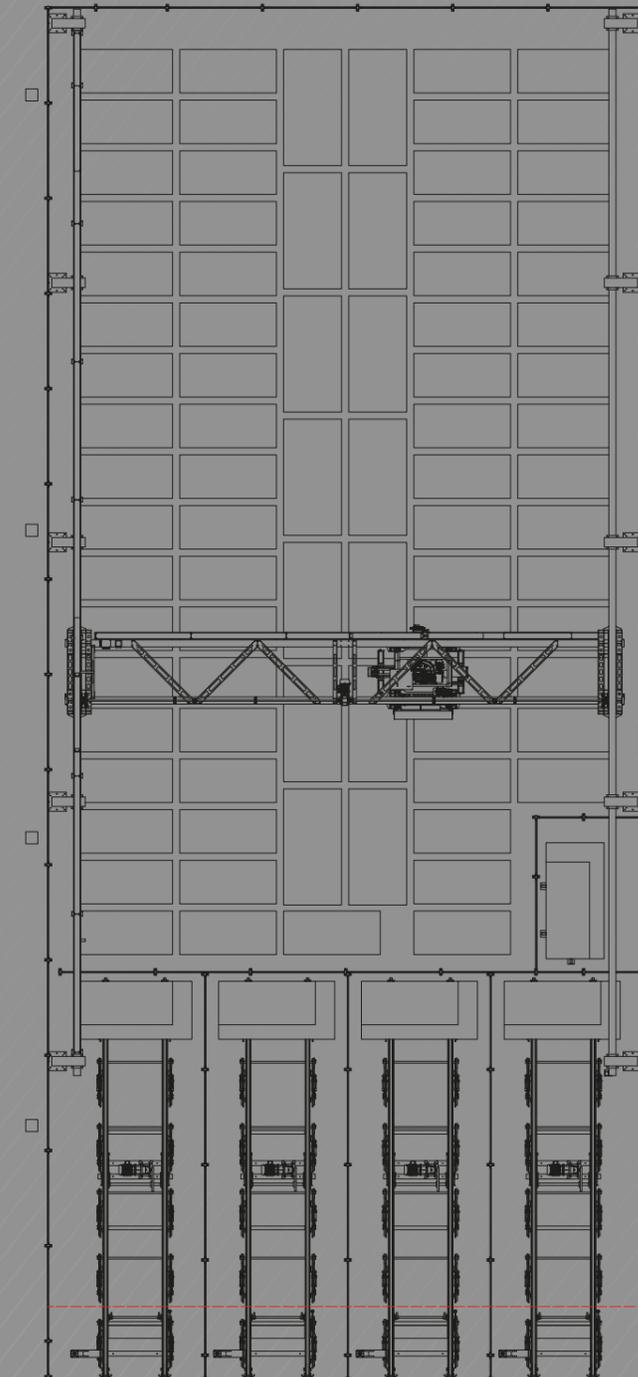
## Software

Requirements to customer databases and ERP systems are implemented in the house. Integration options of

- various databases
- ERP systems
- RFID systems
- CAM systems
- optimization systems

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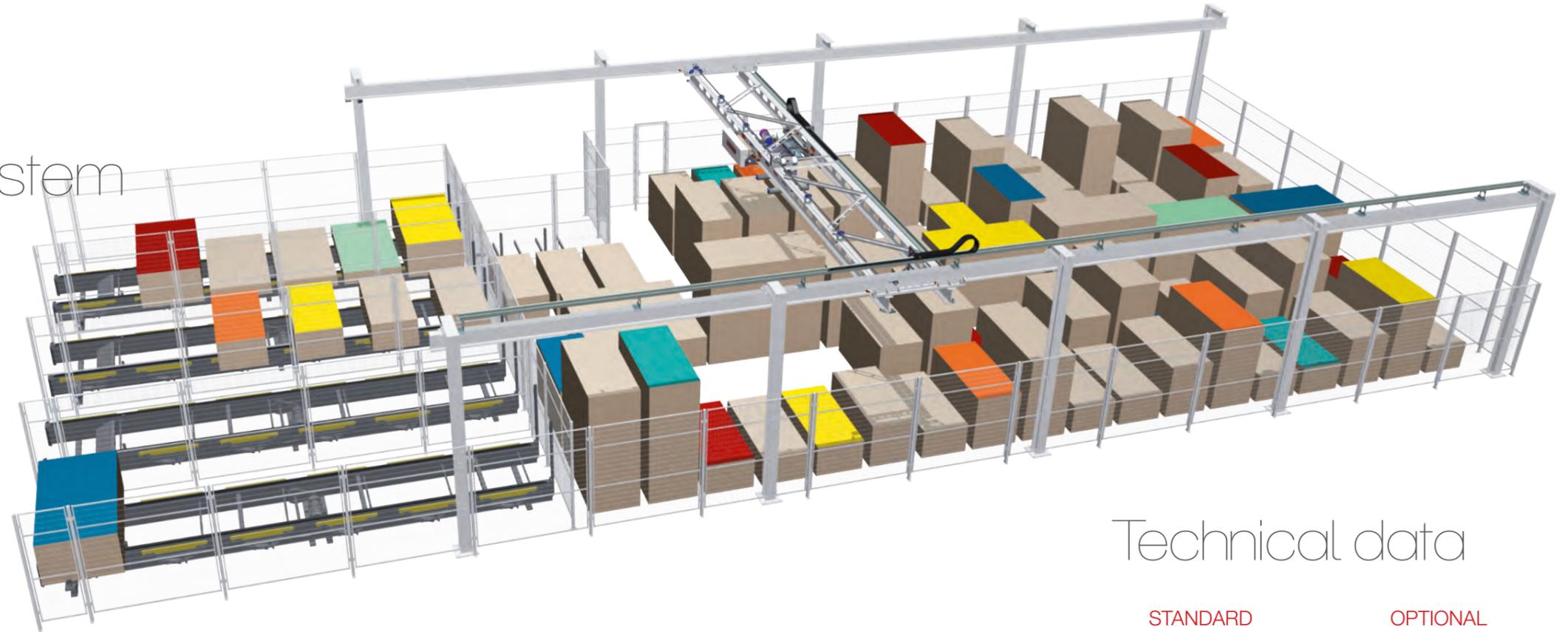
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Individual customer solution implemented  
at Bayer Built Woodworks Inc., USA

# CSFs

industrial  
Panel storage system



## Technical data

STANDARD

OPTIONAL

	STANDARD	OPTIONAL
<b>System size</b>		
» Crane runway	up to 70 m	
» Crane bridge	up to 25 m	
<b>Movement speeds</b>		
» X-axis	150 m/min	
» Y-axis	150 m/min	
» Z-axis	60 m/min	
<b>Panel sizes</b>		
» Length	2000 – 4200 mm*	max. 5600 mm
» Width	600 – 2100 mm	others on request
» Thickness	from 6 mm	others on request
» Panel weight	200 kg	others on request
<b>Panel rest sizes (for re-integration)</b>		
» Length	2000 – 4200 mm*	1200 - 4200 mm
» Width	600 – 2100 mm	
<b>Stacking</b>		
» Stack height	1800 mm	up to 2500 mm
» Stack distances	150 mm	up to 100 mm
» Lifting hole	2000 x 600 mm	

\* Panels up to 5600 mm long can be lifted and transported eccentrically.

## Functions and operation

- all basic functionalities of the panel storage system CSF integrated
- adjustment to existing software solutions
- optimized utilization of storage space
- transparency with regards to stock quantities
- simple inventory procedure, current stock levels at all times
- fully automated panel handling
- highly flexible system, cycle times below 45 seconds possible
- special designs according to your requirements

## Your benefits at a glance

- extremely large storage areas possible (up to 25 m x 70 m)
- optimized material flow
- gentle manipulation, no damaging of the panels during transport
- optimization of space
- reduced personnel expenses
- simplification and alleviation of production processes
- high transportation services
- highest machine availability
- highest flexibility in production processes
- significant increase in productivity





# 20 years of handling technology

The product world of barbaric



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