

barbaric



Solid wood handling and Pre-fabricated house construction



Solid Wood Storage SWS

The innovation for solid wood handling

The Solid Wood Storage SWS combines many years of experience in the field of wood panel handling with innovation in design and software. Our crossbar is specially designed for the handling of solid wood.



Fully automatic loading and unloading of glulam and structural timber

The SWS solid wood storage system is the optimal system for the storage of glulam and structural timber.

Solid wood logs are stored in stanchion compartments and can then be fed to cross-cut saws or joinery lines. Furthermore, there is the possibility of simple commissioning of customer packages or complex package formation after joinery.

These systems impress with their high flexibility. The stanchion compartments can easily be adapted to the desired log widths. Several logs can be stored in one layer per stanchion compartment. This significantly increases the performance of the machine compared to conventional one-dimensional storage.

The integration of heavy conveyor technology is essential for this type of systems. Chain conveyors or roller conveyors can be easily integrated into the warehouse.

Simple or multi-level solutions

The solid wood storage system SWS can be realized as a floor storage system but also as a two-storey version.

The standard solution is a warehouse on one level. Depending on the required performance of the system, one or two manipulators can be used.

The next step is a two-level facility. High hall heights are optimally used by adding a mezzanine floor to the system and the resulting upper area can also be used for storage.

This area can be used mainly for B and C goods or also for residual bars. The lower stacking heights even allow storage without stanchions.



>
Storage location
of a two-story facility

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Mehr Information



The suction beam

The suction traverse has been designed in such a way that several bars can be picked up at the same time. Depending on the dimensions of the individual bars, one bar or up to 5 bars can be suctioned at the same time.

The individual suction circuits are automatically controlled according to the requirements or the dimensions and number of bars. With only one stroke several bars can be transported and thus also a lot of energy is saved.

With this solution, the system achieves a significant increase in performance. Cracked bars can also be picked up and transported with the specially developed suction cups.



▲ Crossbar of a multilevel system

▲ Stanchion warehouse

> One-dimensional storage of residual bars



Interlinking with machines & ERP system

Depending on the desired application, a wide variety of machines can be linked. Whether simple cross-cut saws or complex joinery centers - everything is possible.

Not only the feeding of the system, but also the further handling with finished individual parts is possible. Depending on the set-up, residual parts can also be stored again.

The connection of the machines is realized via modern interfaces. The open interfaces can also be used by ERP systems. All storage and material data are available to other systems.

Technical details

Load capacity:	500 kg (optional 700 kg & 1000 kg)
Length min:	1500 mm
Length max:	13500 mm
Width min:	60 mm
Width max:	400 mm
Height min:	60 mm
Height max:	260 mm
Stacking height:	1800 mm / 2500 mm or more
Multidimensional stacking	

Other dimensions possible after consultation and technical inspection.

The green idea

This machine is not only a warehouse but also helps the environment with the chosen technology. The drive and vacuum technology was chosen so intelligently that the required electricity was reduced to a minimum. The vacuum is generated directly where it is needed. Any losses are avoided. The compact yet stable design allows the use of comparatively low drive power. By accommodating several bars, the number of travel movements is drastically reduced.



SWS stanchion storage

The stanchion storage also combines many years of experience in the field of wood panel handling with innovation in design and software. Our crossbar is specially designed for the handling of solid wood and integrates a laser scanner as well as a stripping mechanism.



Fully automatic loading and unloading with integrated laser scan and contour detection

In the store-in area, a laser scanner automatically detects the edges of the wooden planks and also saves an image of the wood grain. The storage software not only keeps track of the planks regarding formats and quantities, but also offers an overview of the workpiece surface before ordering planks for store-out or feeding into a machining centre.

With this solution we can offer a fully automated store-in of delivered wooden planks on a pallet. First a layer with multiple planks is scanned and then stored individually after measuring and edge detection. Before the step for the next layer can be repeated, intermediate timbers are stripped with our special traverse.



More information

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Your benefits at a glance

- > Fully automatic storage of wooden planks on pallets
- > Laser scan and photo of the workpieces during store-in
- > Automatic wipe-off function for packaging wood
- > Edge detection and width measurement during store-in
- > Sorting and storage of wooden planks according to their maximum width
- > Special suction traverse - ideally suited for solid wood
- > Surface preview of the workpiece before store-out or feeding
- > Flexible store-in and store-out configurations - also available with roller conveyors



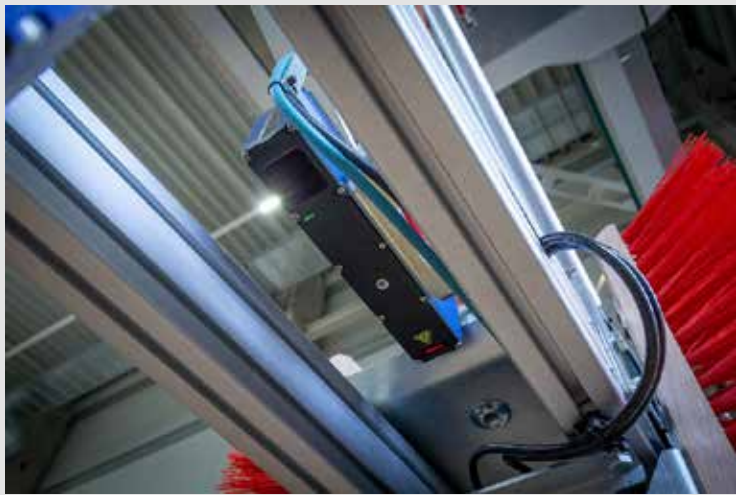
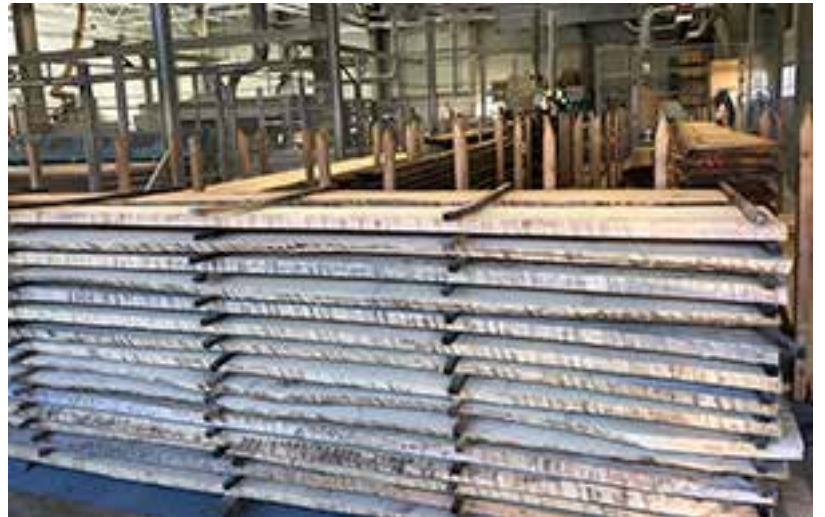
> Automatic
wipe-off function



Fully automatic store-in

of delivered planks with wipe-off function for packaging wood

Our Solid Wood Storage SWS enables the fully automatic store-in of wooden planks that arrive stacked on a pallet with packaging wood inbetween layers. Once the store-in is started, no operator is necessary for until the storage system is ready for the next pallet to load. During the storage process one workpiece after the other is stored and packaging woods are automatically pushed off before manipulation.



Automatic laser scan

of surface and edge contour

A laser scan of the surface not only allows the edge contour to be recognized, but also gives the operator a very good image of the wood grain and surface for the retrieval and feeding process. This makes it possible to determine whether the wood pattern is suitable for further processing or if it is necessary to select a different workpiece to be retrieved.

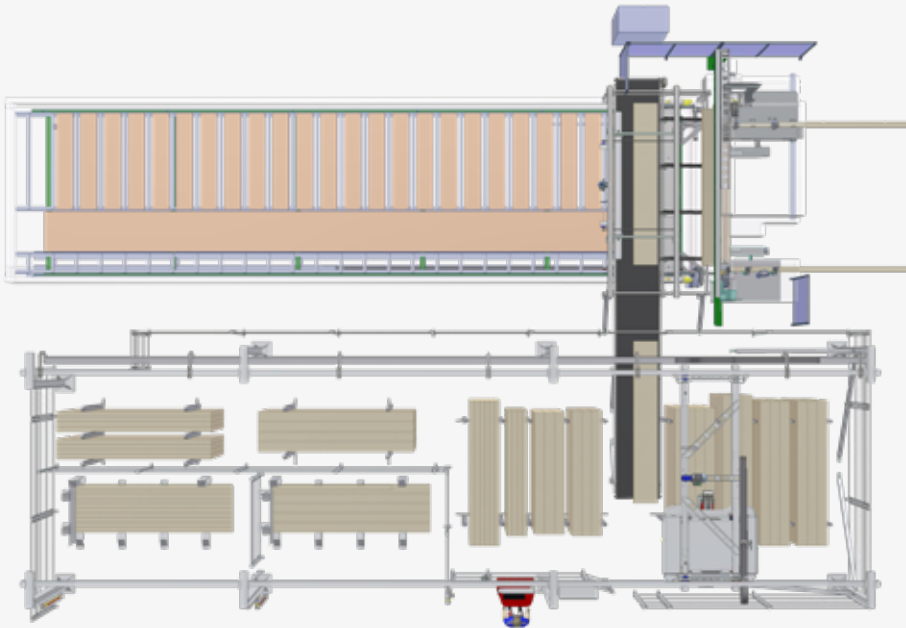


< Special crossbar

> Fully automatic loading and unloading of solid wood



Example of a prefabricated house construction: Automation of a framing station



< General view of the system

The Solid Wood Storage system (SWS) offers a variety of applications in prefabricated house construction. In conventional framing stations for timber frame construction, the placement of studs is still done manually. This is precisely where the SWS solid wood storage system establishes new standards through fully automatic provisioning of studs. The already proven construction method is once again employed in the SWS solid wood storage system.

The manipulator is equipped with a crossbar specially designed for timber construction. Thanks to its compact and functional design, the studs can be stored up to 2.5 meters high. The suction cup can simultaneously pick up to 5 studs, allowing for multi-row storage to improve space utilization.

Through data networking with the locking station, the corresponding number of standard studs is supplied to the framing

station as needed.

A pusher bar then transfers the studs to the employee, who subsequently feeds them to the framing station. Barbaric provides a compact and fast system to relieve employees and optimize and enhance material flow.

The Solid Wood Storage system (SWS) can be integrated into both new and existing installations.



▲ Storage area with manipulator



▲ Storing the studs in racks

RGH Rigidly guided Lifter

Load-guided glass lifter for the installation of windows and doors in timber frame walls.

The new RGH system is a special vacuum lifting system that makes it easy and convenient to install windows and doors - including those with glazing bars - in the walls during prefabricated house production. The windows are removed directly from the

window frame.

The positioning of the windows in the walls is particularly simple and precise and can be carried out by a single person. The design of the lifting mechanism also allows narrow windows to be installed in higher areas.



Video customer installation

Functions & Features

- > Effortless lifting of windows and doors up to 350 kg / 500 kg
- > Equipped with adjustable crossbar, suction cups can also be adjusted in depth
- > Load-guided lifter for easy working
- > Extremely high installation heights possible
- > The control unit is integrated in the handle
- > The crane runway can be electrically driven as an option
- > Stepless control of the lifting speed
- > Manually adjustable lifting beam
- > Adjustable angle of inclination
- > Release function with 2 buttons
- > Pressure gauge
- > Warning horn





HEBEN



DREHEN



FUNK-
STEUERUNG



KRAMBRÜCKE
manuell oder
elektrisch

Handling of cut or dried planks.

The PlankLifter is a robust special lifting device for moving whole posts, KVH, sections such as squares or rough sawn boards by one operator. Due to different and individual designs, besides the transport of single planks, also a stock transport can be realized. The PlankLifter is supplied with a chain hoist or for hooking into your on-site hall crane. Working loads up to 2000 kg and 24000 mm screed length are no problem for the vacuum manipulator.

It can be controlled via an operating handle on the lifter or, optionally, it can also be designed as a non-contact, fully radio-controlled system.



High degree of individualization through optional equipment variants

Adaptation of the SWL PlankLifter to your material requirements. Comfortable operating handle possible alongside or across the load, water separator for freshly cut planks, suction plate heating for use in cold weather, integration of the on-site crane possible via analog slide or pushbutton in the operating handle, warning horn or optical warning device in case of too low vacuum level or power failure.

Functions & Features

- > Horizontal manipulation of planks, posts, squares and boards
- > Single transport or stock transport (special suction surfaces)
- > Material qualities rough sawn, planed, cracked
- > Vacuum generation by means of electric vacuum pump
- > Warning horn (or optical warning device) in case of too low vacuum level or power failure
- > Safety vacuum reservoir
- > Operating handle lengthwise or crosswise to the load
- > Non-contact, fully radio-controlled manipulation optional
- > Suitable for use in light weather conditions
- > Working load: up to 2000 kg
- > Lifting speed: max. 0 - 10 m/min stepless (in combination with chain hoist, depending on version)
- > Suction time: approx. 3 to 4 seconds depending on version



Product video



^ Also available with connection to a telescopic load guide. The lift mast is made of lightweight aluminum profiles, which enables smooth handling by means of guide rollers. Max. working load 1000 kg.

Practical handling of wood fiber, lightweight construction and insulating materials.

The brand-new NGR NeedleGripper is a combined vacuum lifter for lifting OSB, construction panel, fiberboard or wood fiber insulation boards and is therefore ideally suited for all handling applications in the field of prefabricated housing and the production of insulating

materials.

This lifting device is equipped with both suction cups and needle-grippers, which can be controlled as required. The proven ejector technology (Eco version) allows the manipulation of panels up to 250 kg.



Functions & Features

- > Equipped with needle grippers for wood fiber panels as well as suction cups for regular wood panels
- > Effortless handling of wood fiber panels up to 65 kg and regular wood panels up to 100 kg
- > Handling controls is integrated in the handle
- > The needle grippers are equipped with proximity which is an additional safety when using
- > Infinitely variable lifting speed control of chain hoist
- > Flexible adjustment of suction traverse and handling arm
- > Optional 180° Rotation Function
- > Special solutions on request



Product video



▲ Equipped with needle grippers for wood fiber boards and with suction pads for standard wood panels

Functions

NGR 1

Insulation boards up to 65 kg
Wooden boards up to 250 kg



NGR 2

Insulation boards up to 65 kg - horizontal only
Wooden boards up to 250 kg



NGR 3

Insulation boards up to 65 kg - horizontal only
Wooden boards up to 250 kg



NGR 4

Insulation boards up to 65 kg - horizontal only
Wooden boards up to 250 kg

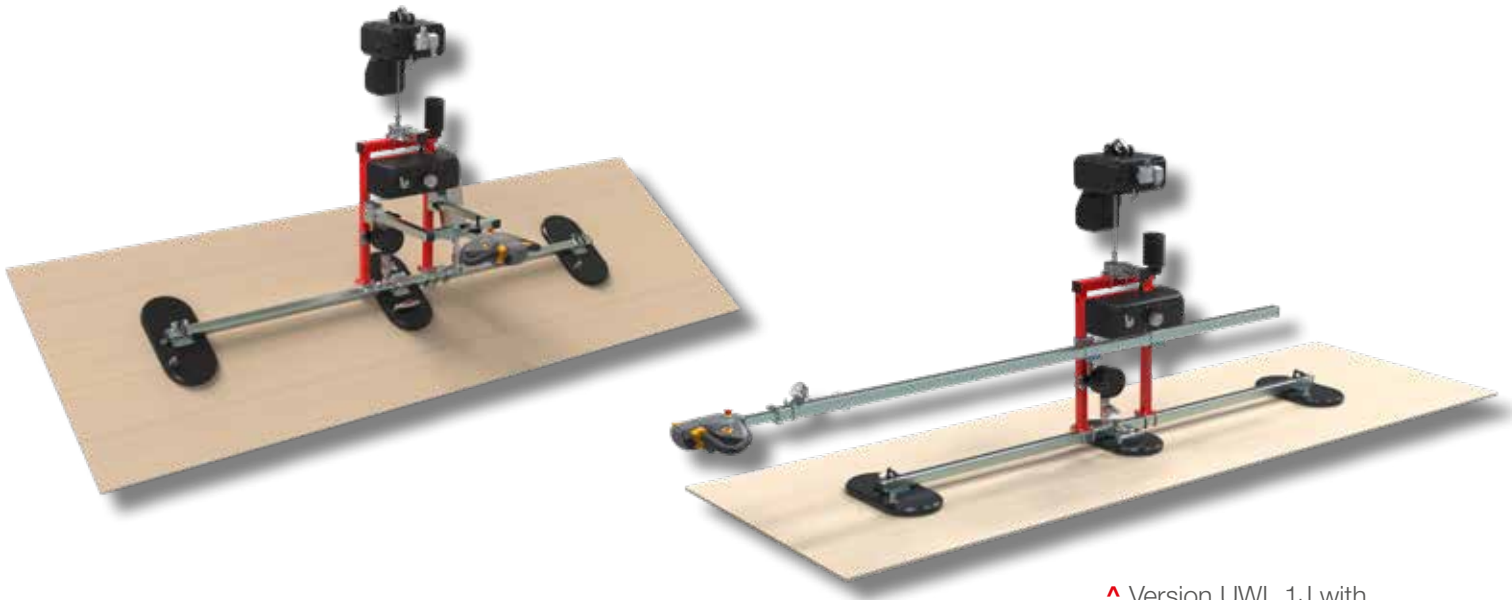


UWL 3J / UWL 1J

Large Format Wood Panel Lifter.

The UWL 3J is a special version of our bestseller UWL 3, that accommodates even larger panels up to 500 kg. The lifter is equipped with a tilting cylinder for both vertical and horizontal handling of panels. The suction traverse can be individually configured to fit the handling application.

- > Specifically built for large format wood panels
- > Lifting capacity up to 300 kg and optionally up to 500 kg
- > 90° Tilting function for vertical and horizontal handling
- > Ergonomic design and easy to use



▲ Version UWL 1J with lateral operating handle

Functions

UWL 3J



UWL 1J



Functions & Features

- > Tilting range of 90°, pneumatically (at version UWL 3J)
- > Increased vacuum generation
- > Continuously variable lifting and lowering
- > Low overall height
- > Adjustable operating handle
- > Special handle for one-hand operation

Technical data

- > Working loads: 300 kg or 500 kg
- > Lifting speed 0-10 m/min
- > Tilting range 0° to 90°
- > Tilting speed approx. 5 sec.
- > Suction time approx. 1-2 sec.
- > Vacuum generation Pneumatic venturi style
- > Air consumption 11 NI/sec.
- > Usable chain length 3.5 m
- > Dead weight approx. 85 kg



Product video

UWL 3



The standard lifter for wood handling.

Light and slim design and particularly easy operation.

Tilting range of 90°.

Versatile in the field of wood production and ideally suited for

- > all commonly used coated wood materials
- > air-permeable panels (OSB, chipboard, MDF over 8 mm thickness)
- > as well as materials with a slightly textured surface.

Ideal for all processes with vertical and horizontal machining:

- > vertical panel saws
- > Loading and unloading for machining centers



Functions & Features

- > Tilting range of 90°, pneumatically
- > Increased vacuum generation
- > Continuously variable lifting and lowering
- > Low overall height
- > Adjustable operating handle
- > Special handle for one-hand operation

Technical data

- | | |
|-----------------------|-------------------------|
| > Working load | 250 kg |
| > Lifting speed | 0-10 m/min |
| > Tilting range | 0° to 90° |
| > Tilting speed | approx. 5 sec. |
| > Suction time | approx. 1-2 sec. |
| > Vacuum generation | Pneumatic venturi style |
| > Air consumption | 11 NI/sec. |
| > Usable chain length | 3 m |
| > Dead weight | approx. 85 kg |



Product video

barbaric

Ideas that move.

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Image video