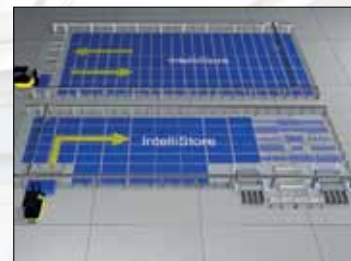


# BARGSTEDT plane storage systems

## More potential for operating machines



# Intelligent logistics as a key for success

**BARGSTEDT storages are intelligent multi talents that leave nothing to be desired. From the smallest storage „that fits into a double garage“ up to a more story storage for industrial requirements. The material flow is optimized in all productions sizes, the stocks are transparent administered operating machines are optimal used to full capacity.**



## Your advantages

- More flexibility!
- Increased productivity!
- High material yield!
- More dynamic in the
- Order processing
- Clear scale economy



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# TLF210 - Intelligent logistics for the handicraft

**The starter storage to the intelligent material flow and thus to a new form of competitive ability.**

**Even the smallest version hardly leaves little to be desired. Transport distances are optimized, material and time notably saved. The TLF210 is intelligent logistics for an unbeatable price.**

## **Integration of CNC machines made easy TLF210 as profi version**

Integrating a profi version of a TLF210 turns a simple CNC machine abruptly into a logistically mature CNC operating centre. Material flow and management run automatically and the operator can concentrate fully on the production in the operating machine



## **We transport without disturbances, no matter which panel**

The long lasting experience makes the difference. As every storage system from Bargstedt also the TLF210 is equipped with the well approved monitoring system for a failure-free panel transport.



## **Profi version with even gentler movements**

The more powerful profi version offers even more flexibility in machine integration. By means of the sensitive drive technology the rotary drive runs even smoother than in the Optimat version the capacity spectrum is identical. Whether for example MDF raw boards with 3 mm thickness or heavy 250 kg boards - the TLF210 series transport every material and that safe.



Technical data	Plane storage system TLF 210		Plane storage system TLF 210 Y	
	Basic machine	with additional devices	Basic machine	with additional devices
Travel path	5.000 mm	12.000 mm	-	-
Range	10.000 mm	50.000 mm	5.000 mm	50.000 mm
Beam speed	60 m/min.	110 m/min.	-	-
Carriage speed	80 m/min.	130 m/min.	80 m/min.	130 m/min.
Lifting device speed	30 m/min.	45 m/min.	30 m/min.	45 m/min.
Workpiece length	2.000 - 4.200 mm	1.200 - 4.200 mm	2.000 - 4.200 mm	1.200 - 4.200 mm
Workpiece width	800 - 2.200 mm	min. 400 mm	800 - 2.200 mm	min. 400 mm
Workpiece Thickness boards raw min.	from 12 mm	from 3 mm	from 12 mm	from 3 mm
Workpiece weight	250 kg	250 kg	250 kg	250 kg

**Storage-saw as cutting center, optimization profitable in the smallest space**

- The combination pays off with 30 panels to be sawn a day.
- High flexibility by optimal use of available area in the smallest space
- Optimal material yield due to an ideal material use from new part to offcut panel

**Transparency and simple operation from whatever terminal**

The high-capacity combinations are perfectly coordinated in communication. Hardware and software speak one language. The results are storage saw combinations that increase the production capacity from the first minute.

**TLF210 Y as 1 axis storage for the simple machine feeding with several stacking places**

- Optimal to use in narrow rooms
- Connection for different operating machines for fully automatic production
- Ideal as storage for countertops and strip
- storing with several stack places



**Benefit from the possibilities that HOMAG Group offers you**

- Project planning and service from one source
- Interoperable, standardized interfaces
- Harmonized financing concepts
- Attractive performance classes for all sizes of enterprise

**When it is about our customers we play it safe**

The work safety of our customers and their employees is as important for us as the guarantee of a safe handling. For this reason our machines are inspected according to the highest safety standards. Each industrial disruption caused by missing safety concepts affects the production and costs money.



# TLF 411 - The multi talent for high demands

**Easy to operate and convincing in price, performance, quality and functionality. The multi talent is just as powerful in combination with a panel saw and also combined with a CNC processing.**

## **TLF411 - as cutting center with a saw of the HPP series from HOLZMA**

The intelligent interfaces of the TLF411 are the ideal solutions in combination with a HOLZMA saw. No matter which HPP saw is connected the storage increases the capacity of the saw and this day by day. So, every combination harmonizes perfectly in size, performance and speed.



## **Precise CNC processing with the intelligent logistics of the TLF411**

CNC operating machines are connected like saws to the storage via standard interfaces in a simplest way and so turn to even more effective operating centers. So, the connection of a TLF411 to a CNC processing combines intelligent logistics with the diversity of a CNC machine.

## **Wide range - many possibilities**

The TLF411 is an all-rounder for a wide variety of panels, too Interference-free are...

- Panels up to a length of 5600 mm,
- Permeable to air panels from a thickness of 3 mm
- Panels up to 350 kgs single weight and
- Special material like Plexiglas or plastic material, laminate and much more.



Technical data	Plane storage system TLF 411		Plane storage system TLF 411 Y	
	Basic machine	with additional devices	Basic machine	with additional devices
Travel path	5.000 mm	16.000 mm	-	-
Range	10.000 mm	50.000 mm	10.000 mm	50.000 mm
Beam speed	60 m/min.	110 m/min.	-	-
Carriage speed	80 m/min.	130 m/min.	80 m/min.	130 m/min.
Lifting device speed	30 m/min.	45 m/min.	30 m/min.	45 m/min.
Workpiece length	2.000 - 4.200 mm	max 5.600 mm	2.000 - 4.200 mm	max. 5.600 mm
Workpiece width	800 - 2.200 mm	min. 400 mm	800 - 2.200 mm	min. 400 mm
Workpiece Thickness boards raw min.	from 12 mm	from 3 mm	from 12 mm	from 3 mm
Workpiece weight	250 kg	350 kg	250 kg	350 kg

**TLF411 Y as 1 axis storage for the simple machine feeding with several stacking places**

- Optimal to use in narrow rooms
- Connection for different operating machines for fully automatic production
- Ideal as storage for countertops and strip
- storing with several stack places

**We optimize the storage area and help you saving useful production space**

- Each stack place in the storage can freely be selected as pre-removal position! This results in more space in the storage!
- At ours the scissors co-rotate! Even on 90° rotations panels are optimal arranged and deposited without space loss

**Reduction of the utilized capital from storing up to sawing**

- Material use is coordinated with the ordering system and the order planning
- Low capital commitment by means of stock-keeping as needed
- Low resource consumption by means of automatic offcut management - also for panels that do not fit into the storage



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# TLF 610 - More leeway for the industrial production

Lots of leeways in the combination of operating machines and in the panel variety turn the TLF610 into an icon in the storage systems. This power pack is the perfect solution for highly efficient logistics in the industrial production.

## Handling without limits - fully integrated transport systems for gentle material refeeding

The high interface compatibility of the TLF610 enables: Easy link-up of operating machines by means of refeeding units and gentle refeeding of offcuts into the storage that relieves the operator and provides a measurable saving in material costs.



## Extremely important for large storage systems - only available at BARGSTEDT - the storage space optimization

Like all BARGSTEDT storage systems also the TLF610 does not need the 3- to 4-fold space for the deposit of small parts. Only the space for the traverse is needed. Storage movements are permanently monitored in the background and thus the storage organization is automatically adjusted to the production condition.



## From timber via plastic material to Plexiglas - the TLF610 offers lots of possibilities

Fast, fully automatic and precisely the panels are stored in and out, collated or fed to the operating machines. A wide range of panels can be safely managed and transported with a maximum span width of 16 m.



Technical data	Plane storage system TLF 610	
	Basic machine	with additional devices
Travel path	5.000 mm	16.000 mm
Range	10.000 mm	50.000 mm
Beam speed	80 m/min.	120 m/min.
Carriage speed	80 m/min.	120 m/min.
Lifting device speed	30 m/min.	90 m/min.
Workpiece length	2.000 - 4.200 mm	max. 5.600 mm
Workpiece width	800 - 2.200 mm	min. 400 mm
Workpiece Thickness boards raw min.	from 12 mm	from 3 mm
Workpiece weight	250 kg	350 kg

**Much leeway for the industrial production - There is something for every demand**

- Different kinds of material can be managed fully automatic and stored extensively.
- Intellistore, the optimization program as guarantor for short distances to the next operation step.
- Automated refeeding units for the transport of offcuts from the operating machine back to the storage.

**The TLF610 organizes the logistics so that the operating machine is able to work optimally**

- From the storing place to the operating machine is fully automatic stored, sorted and transported
- High current personnel costs are reduced
- Dead times at the operating machine are omitted by means of the continuous material flow

**Fully automatic material use from new part to small offcut**

- All stored offcuts are registered as predictable stock for the optimization with name, number and occupancy.
- Management of manually stored offcuts in realistic demonstration Easy generation, display and print of removal lists.



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# TLF 810 - Logistics for huge desires

The storage for the High-End range also meets the big desires. Additionally to the manifold possibilities in the link-up of operating machines, the special design of the TLF810 permits also span widths beyond 16 m and thus offers space for the most different kinds of material.

## Flexible in the link-up of operating machines of all kinds up to the High-End range

No matter which machine shall be connected, the interface compatibility of the TLF810 enables the connection of multiple operating machines. Thanks to this flexibility it is possible to increase the capacity of each linked-up machine immediately to its optimum.



## Fully automatic material feeding - from small to big positioned accurately to the point

Single panels or panel books up to a length of 5600 mm can be fed to the storage. Once deposited onto the storing place and scanned at the terminal the material will be fully automatic transported to the ideal position for the next processing step and there deposited

## Lots of space for different kinds of material

Here, the space is almost unlimited. The TLF810 with span widths of 16 - 21 m offers the largest widths within the BARGSTEDT storage systems. In this storage we use the positioning controlled by laser so that each panel can be deposited or picked-up precisely in the whole storage.



Technical data	Plane storage system TLF 810	
	Basic machine	with additional devices
Travel path	5.000 mm	21.000 mm
Range	10.000 mm	50.000 mm
Beam speed	80 m/min.	120 m/min.
Carriage speed	80 m/min.	120 m/min.
Lifting device speed	30 m/min.	90 m/min.
Workpiece length	2.000 - 4.200 mm	max. 5.600 mm
Workpiece width	800 - 2.200 mm	min. 400 mm
Workpiece Thickness boards raw min.	from 12 mm	from 3 mm
Workpiece weight	250 kg	350 kg

**Optimal utilization for the linked-up operating machines**

- Effective production flow by means of intelligent pre-removal
- Panels are always stored best possible to the next processing step
- Return of offcuts by means of fully automatic off-cut handling

**Effortless looking logistics for more flexibility in production**

- The available material is optimized by the permanent feedback of predictable stocks.
- Control of the production succession from each terminal that is connected to the storage
- The whole material is registered by the storage control and administered with name, number and occupancy.

**High material variety - safely transported with high stability**

In combination with thin part package 3 it is possible to transport all materials safely and manage it with full transparency

- Laminate
- coated or uncoated panels
- up to Plexiglas or plastic material



**Benefit from the possibilities that HOMAG Group offers you**

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- Attractive performance classes for all sizes of enterprise

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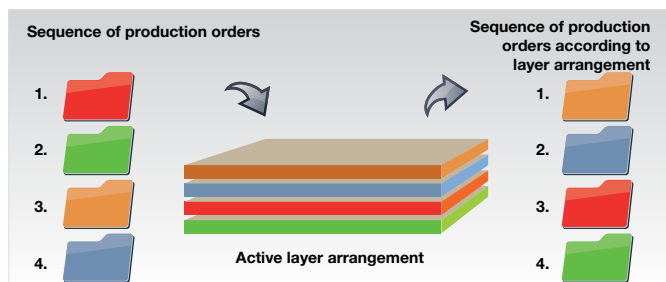


# Intuitive, flexible, fast - woodStore 6

The storage control „woodStore“ sets benchmarks even in the BasicLine of the new version 6. The appealing 3D optics offers even more comfort and make the operation of the storage a child’s play.

## Optimal material flow by means of IntelliStore -independent of storage size and material variety

Storage movements are permanently monitored in the background and the storage organization is automatically adjusted to the production condition. With help of this optimization modul the restacking in the storage is reduced by up to 30%. That causes a measurable capacity increase of the storage.

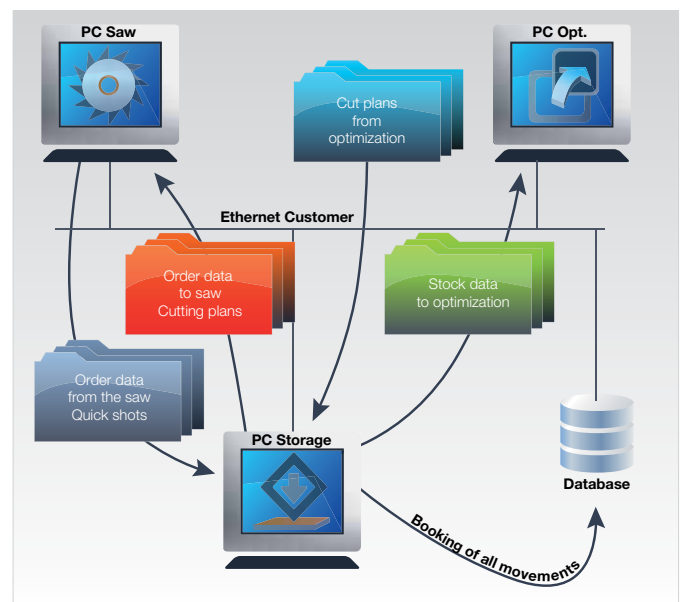


## Optimization in production flow - sequence of production orders according to layer arrangement

The optimal production sequence is determined by the storage in consideration of processes like e.g. dynamic quick shots, material code, offcuts or parts from external storage a reduction of restacking by up to 90% is achieved in combination with the pre-removal.

## Elaborated communication with the multi master linking

The multi master linking enables the processing of order data. So, the storage controls the saw or, when necessary, the saw controls the storage. Due to this modul a flexible reaction to processing changes is possible from each connected terminal.



## Storage control with many possibilities and high transparency

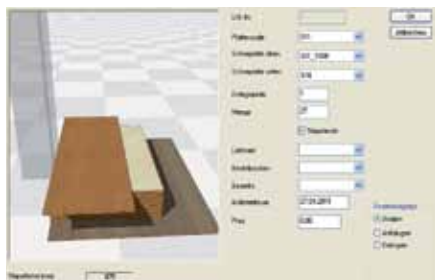
The storage control woodStore 6 controls and administers the whole stock and optimizes the material flow in the production. So, the whole material stock is recorded and the available storage space is calculated.

The integrated software moduls into woodStore 6 allow a storage organization which adapts automatically to the changing production conditions.



### View

- The matching decor image to each panel is automatically shown on selecting and entering part numbers or board codes.

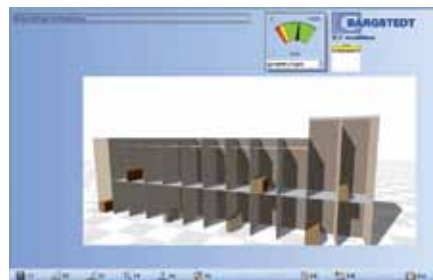
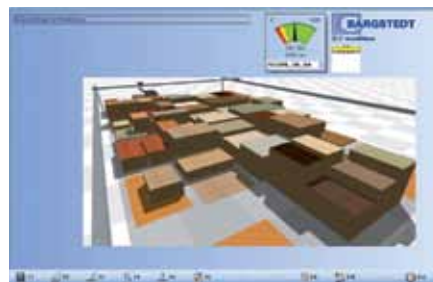


### Infeed

- Now even more overview -each stack is tridimensionally displayed completely with base board, cover board and fixed edge.
- Errors excluded - Entry of stack data is quite simple thanks to the new 3D view

### Stack

- The virtual view of all existing stack positions in the storage enables it - „Fly“ virtually through the storage and look at each material stack true-to-life in 3D!
- Maximum transparency and control of the stock

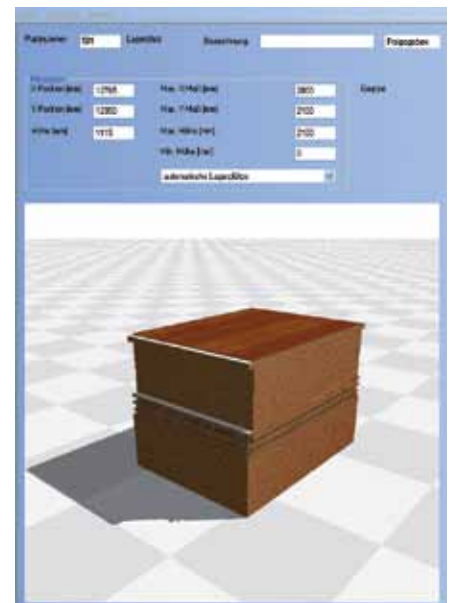


### OffCut-Assist

- Optimum material yield from new part up to the offcut
- Management of manually stored offcuts in realistic demonstration
- Easy generation, display and print of removal lists.
- Signal lamp for panel identification (red: panel already planned; Green: panel available)

### Input

Using the new data template enables an easy definition of new boards. Therefore, the panel dimensions and the material code have only once to be entered. The software determines automatically all other parameters. The best: Even tolerances of the panel weight are determined automatically and the ideal adjustments for the panel handling are calculated by the storage system alone.







# Energy and resource efficiency included

The more efficiently companies deal with resources the higher is the added value that obtain their products. With the storage systems BARGSTEDT offers its customers logistic solutions which optimize the whole material flow between supply and operating machine, maximize existing resources and use it efficiently.

## **Increase of the process stability**

- Easy and safe handling of panels with high sort diversity
- No production breakdown by reason of missing material
- Quality control - suppliers and goods receipts can clearly be related to the finished product

## **Optimization of the production process**

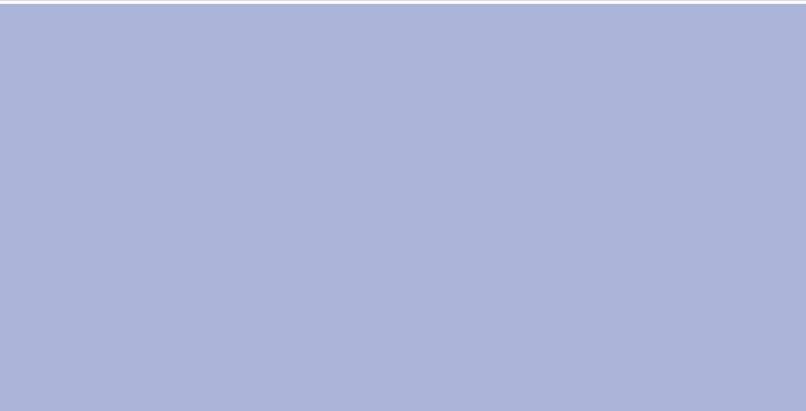
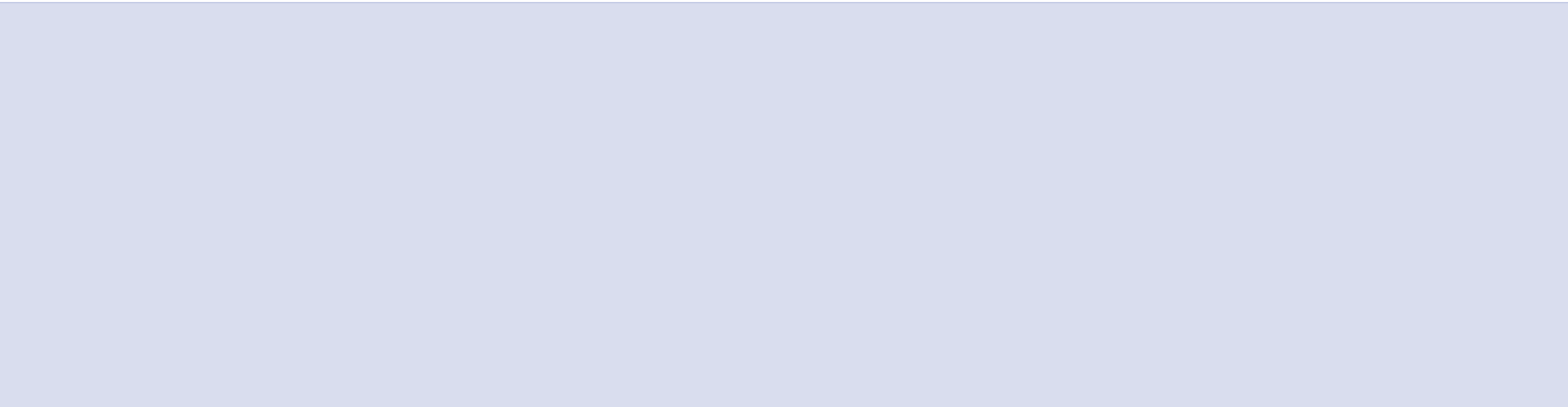
- The material handling is optimized - only those quantities are stored that are needed in the foreseeable future
- Not needed stocks will be reduced - Material use is coordinated with the ordering system and the order planning

## **Closed resource circuits**

- Reduction of delivery times enables a just in time purchase
- An optimum off cut handling reduces the material costs

## **Infrastructure operation without loss**

- Personnel resources are saved -cutting and material provision are decoupled from each other
- Automatized transport provides for high efficiency of the operating machines
- The whole material is managed, not only that one that is just in the storage



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