



# ***KP 500 AUTOMAT***

**Automatic trimming saw**

Technology of automatic material shortening

## *Cutting saw, which meets the set objectives*

**KP 500 AUTOMAT** is an automatic trimming saw that can be operated by one operator. The machine operator places the input material on the loading table and after cutting removes the cut parts from the output table, which is then conveniently sorted by length. All operations, including cutting and feeding the material, are performed by the saw itself. The machine works with the entered dimensions and parameters, which the operator guides to the main program of the display panel and does not make errors.



Modern technology of solid wood processing using a trimming saw **significantly increases yield, productivity and enhances the quality of wood**. Of course, great emphasis is placed on the quality of the cut and easy operation of the machine. The trimming saw is designed for small, medium and large woodworking and joinery operations. The main advantage is not only **higher speed of positioning the material into the cut,**

**but above all the quality, the perpendicularity of the cut** boards, prisms and other joinery lumber. Cutting saw **KP 500 Automat** meets the set goals of more economical production and achieving higher labor productivity.



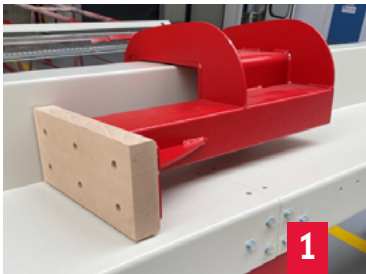
# Automatic trimming saw

## KP 500

Simply unrivaled especially in **worker savings** and **streamlining** material shortening.

/ **possibility to choose the length of the input and output table**

/ **continuous regulation of disc stroke** – for the speed of cutting, it guarantees a clean and high-quality cut without torn fibers. Of course, there are safety elements that ensure the safety of work on the cutting saw. The machine meets the strict requirements for work safety, resulting from the relevant regulations and EC directives.



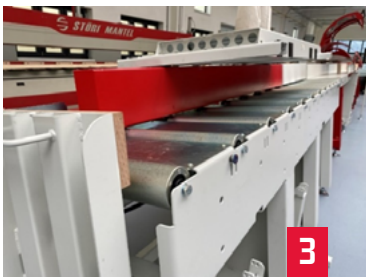
### 1/ Loader

The material is positioned in the cut simply by means of a loader. The saw operator feeds the material onto the machine's feed table. Depressing the foot pedal confirms the cutting cycle and the material is automatically positioned and shortened. The shortened material at the output table from the saw corresponds to the entered lengths in the cutting program of the machine.



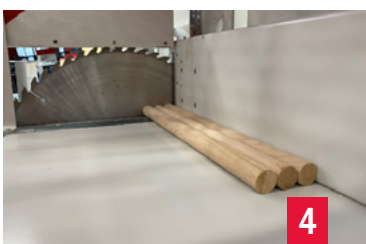
### 2/ Sliding output table extension (Option)

The outlet part of the work table can be equipped with a sliding extension for separating wood waste into a box. To allow easy transition of shorter lengths of material from a fixed table to an output driven roller conveyor.



### 3/ Material stamping (Options)

To make the production more efficient and easier, we recommend adding the machine to the end of the output driven roller conveyor with punching. The machine is equipped with one punch to facilitate the removal of material, or two punches for sorting a maximum of two lengths of output material. The material can be punched onto gravity chutes or into boxes.



### 4/ Shortening of various materials

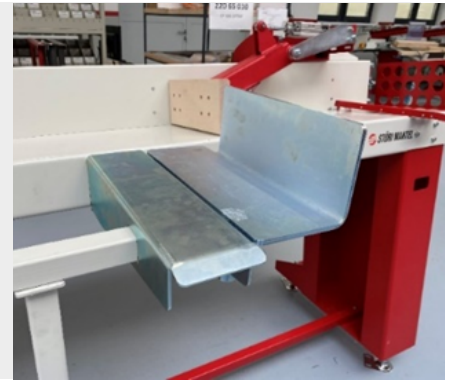
The shortening machine can also handle profiled material. The guaranteed accuracy of the length of the cut material is  $\pm 0.5$  mm in the package. Individual cuts are performed fully automatically. In addition to solid wood, many other materials can be cut, such as plastic, aluminum or materials of various profiles.



# *Innovative solutions, which can be relied on*

## 1/ Unique transverse extension with stop (Options)

The location of the transverse extension can be located according to customer requirements. The transverse extension is distributed on the input table at intervals of defined lengths of input material. Depending on the length of the input material, the machine operator moves the package stop to the appropriate extension. **Package stop is used to align the packet.**



## 2/ Pressure Roll (Options)

The standard equipment of the machine is the input side pneumatic pressure, which ensures the fixation and alignment of the input material when positioning to the cut. The material not only fixes, but also ensures the perpendicularity and accuracy of the cut. Another alternative is the option „pressure roll at the outlet“, this option increases the perpendicularity of the last cut.



## 3/ Safety

Safety features always in the right place for maximum injury elimination. Even with careless loading of the material on the loading table, when the loading is returned to its original position, it is provided at the end with a safety switch to prevent damage to the machine or injury to the operator.



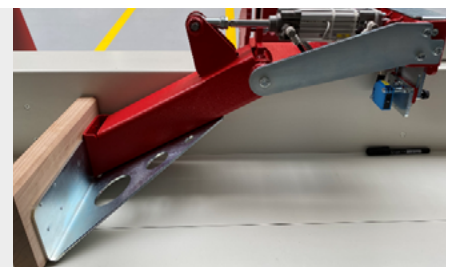
## 4/ Innovative solution

Guarding the lumber in the package, against the collision of the bent material with the upper pressure. This innovative solution increases safety for the operator and avoids collision of the material loaded in the package beyond the cutting diagram of the saw blade.



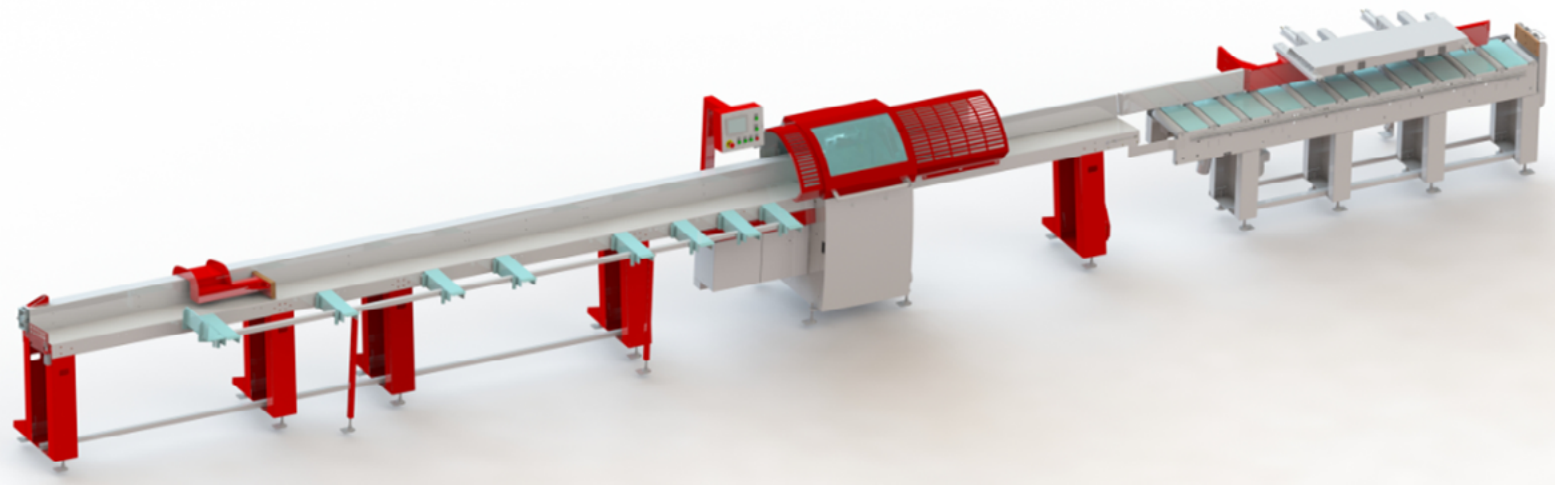
## 5/ Ergonomics (Option)

To save the work cycle time, we offer the option of a lifting flap for the loader. This option allows you to load the material at the time of loading the material to the last cut.



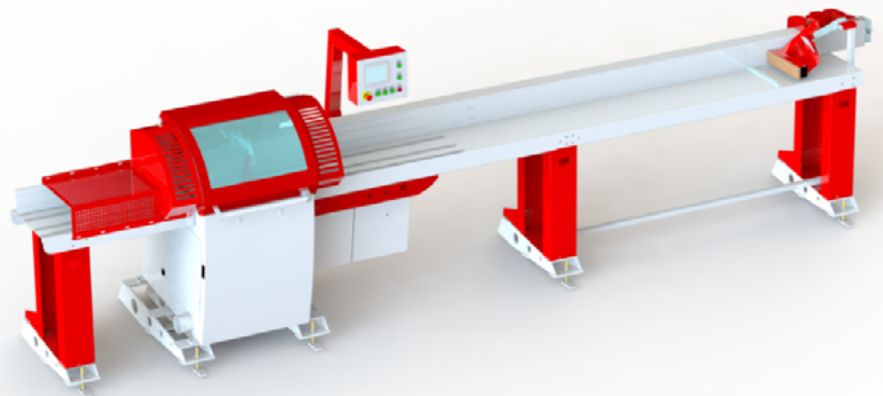
# *In all directions **tailored** to your requirements*

The modular solution offers the perfect fit for your needs to give you future flexibility for your expansion. This saw is the right choice wherever you cut boards in large numbers or shorten the material of the package. You can process far more material than by manual shortening, efficiently, effortlessly and most importantly **SAFELY!** In addition to solid wood, many other materials can be cut, such as plastic, aluminum or materials of various profiles with a precise and perpendicular cut. All this is no problem for the KP 500 Automat.



## **Higher productivity** **automatic material sorting**

Thanks to the efficient design solution of the KP 500 Automatic, the basic machine can be equipped with automatic sorting. This increases productivity and reduces operating costs. Maximum efficiency thanks to the output conveyor with punching point for different material lengths.



## **KP 500 AUTOMAT — clearly unrivaled**

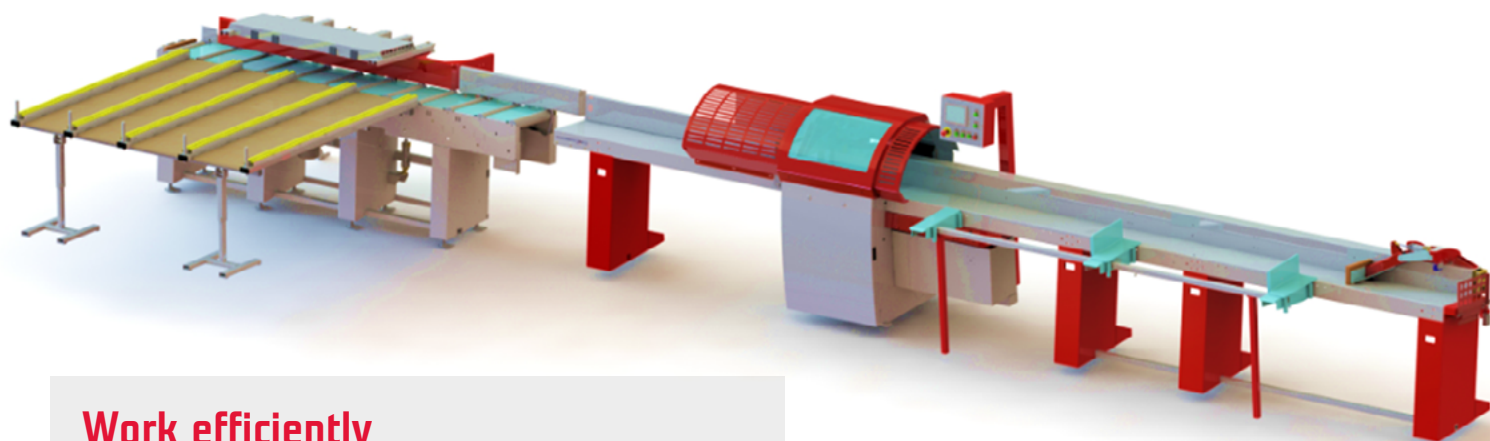
Thanks to intuitive operation on the touch screen. The operator simply sets the choice of material lengths and the number of pieces of the required assortment, which he wants to shorten.

**For pallet blanks in a package** adjust the front and rear cut as required. With this setting, you will achieve that the machine will constantly shorten the defined values until it meets the requirement of the number of pieces written in the program.

# *Enter the world wood shortening automation*

## Maximum flexibility

Do you need a material input to shorten from the left due to the disposition of the material flow for further processing? Construction KP 500 Automat allows the necessary freedom for this solution. There are rollers on the output table to make it easier to handle heavy loads.



## Work efficiently

Solution for single worker operation. The operator prepares the material for the transverse extension. It inserts the material into the cut, during the material cutting process it has enough time to prepare more material at the inlet. The output roller conveyor picks up the material behind the cut and with the help of the puncher the material is moved to the gravity chute or to the box.

# Automatic cutting saw KP 500 allows a wide range of applications

The shortening saw enables not only transverse cuts, but also the implementation of a cut package, shortening of sandwich panels with steel reinforcement, plastics and other materials. If you process a large amount of lumber and need to be flexible in the implementation of your orders and have a high cutting power and safe operation when shortening, then this saw will be an effective helper with a quick economic return.

The advantage of the machine is **simple operation, high speed and accuracy of individual cuts and high degree of flexibility** input and output dimensions of the processed material.



## Characteristics

### **KP 500 AUTOMAT**

- / high operational reliability
- / user friendliness
- / convenient saw blade replacement
- / easy and intuitive operation
- / ergonomically placed controls
- / touchscreen
- / high shortening accuracy
- / cut combinations can be created
- / high degree of security
- / left and right design from the operator's point of view



# Specifications

## automatic cutting saw KP 500 AUTOMAT

The table shows the main technical features.  
A specialist will be happy to answer more detailed information STÖRI MANTEL.

|   | STANDARD                         |
|---|----------------------------------|
| Cutting material length                                   | 3 200–7 200 mm                   |
| Material width  | according to the cutting diagram |
| Saw blade Ø 550 mm (cutting height max.)                  | 135 mm                           |
| Saw blade Ø 500 mm (cutting height max.)                  | 110 mm                           |
| Cutting accuracy  | ± 0,5 mm                         |
| Cutting tool speed The cutting                            | adjustable                       |
| Height of the blade                                       | adjustable                       |
| <b>SAW BLADE</b>  |                                  |
| Outer Ø of saw blade FLS 120 ECO                          | 500 mm                           |
| Outer Ø of saw blade FLS 160 ECO                          | 550 mm                           |
| Inner Ø of blade clamping hole                            | 80 mm                            |
| Permitted blade speed                                     | 3 000 rpm                        |
| Disc only in SK design                                    | *                                |
| <b>LOADING DEVICE</b>                                     |                                  |
| Power unit  | AC SERVO                         |
| Linear feed in closed profile                             | easy maintenance                 |
| Loader speed  | 1 m/s                            |
| Automatic measurement of the length of the input material | *                                |
| <b>SAW ENGINE</b>   |                                  |
| Performance   | 5,5 kW (7,5 kW option)           |
| Isolation   | IP 54                            |
| Execution   | B 3                              |
| Shaft speed   | 5 000 min <sup>-1</sup>          |
| Torque transmission to the timing belt shaft              | 8M 30 mm                         |
| <b>ELECTRICAL CONNECTION</b>                              |                                  |
| Operating voltage   | ~ 3x400 V/50 Hz                  |
| Securing  | 3x32 A slow                      |
| Installation connection up to 10 m long                   | 5x6 mm <sup>2</sup>              |
| <b>PNEUMATIC CONNECTION</b>                               |                                  |
| Compressed air supply pressure min.                       | 0,6 Mpa                          |
| Capacitive air consumption                                | 250 l/min.                       |
| <b>EXTRACTION</b>   |                                  |
| Suction connection Ø                                      | 120 mm                           |
| Suction speed   | 25-30 m/s                        |
| <b>NOISE</b>  |                                  |
| When idling L <sub>pAOMQ</sub>                            | 76,8 dB                          |
| Machining L <sub>pAMO</sub>                               | 90 dB                            |





# **STÖRI MANTEL**

## *... when the machines understand you*

At present, the company's goal is not only to develop one specific machine with unique technical properties, but a system of a unified and modular solution of pallet production technology for the customer.

### **What does *STÖRI MANTEL* mean to our customers?**

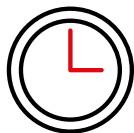
- / long 25-year tradition** in the field of woodworking technology and engineering production
- / quality work done** on each machine with respect to tradition and innovation
- / guarantee of quality services** – the whole process from the order to its dispatch is provided by specialists with many years of practice and experience
- / quality, which is a priority for us** – starting with information for developers after supplying spare parts or using the highest quality materials

**Be in constant contact with the customer even after the sale of the machine.** Care for our customers includes not only the installation of machines, remote and online administration, but also the correct training of operators. For you, this means quick help in the local language on the phone or on the spot by a service technician.

**Our motto is to produce woodworking machines that are innovative in all respects according to your wishes.** This vision, as well as our commitment to improving production technology in every way, is the basis for our product development, partnerships and corporate culture.

# STÖRI MANTEL

***We are the right choice,  
whenever you need to:***



**Make your production  
more efficient**



**Save  
labour**



**Reduce  
costs**

**Contact us!**

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WOODWORKING MACHINERY PRODUCTION

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