



Innovation in timber engineering

# Speed Panel Machine SPM-2

The flexible throughfeed centre  
The new dimension in panel processing

[www.hundegger.de](http://www.hundegger.de)

 **Hundegger**

## The revolutionary concept for panel processing



Complete processing in a single run –  
no measurement, no marking, no setup

No other system comes close: Sawing, milling, drilling, grooving, labelling – the Speed Panel Machine SPM-2 from Hundegger is the innovative throughfeed concept for fully automatic panel processing of a wide variety of different materials. The SPM-2 is not only able to format panels of all types with a thickness of 5 to 120 mm and an individual weight of up to 500 kg, but also performs all necessary processing operations quickly and precisely so that the panels are ready for installation. Whether individual pieces or high-volume production – the range of processing capabilities and materials is almost unlimited.

The SPM-2 was specifically designed as an efficient system for wall production in timber frame construction and for facade engineering. Furthermore, it is the flexible solution for panel production in formwork construction, in interior construction and in packaging.

The modular design allows the system to be equipped individually and upgraded at a later stage – right up to configuration as a flexible production cell with integrated panel storage. Different units are available for various processing tasks.



## Tune your production processes

Complete processing on one machine and in a single run will increase your productivity: You not only reduce the time required for panel processing – you also reduce personnel and material costs.

### **One-man operation**

The SPM-2 works fully automatically. The operator can concentrate on monitoring the machine and sometimes even perform other tasks.

### **Absolute flexibility**

All materials can be processed on just one machine – panels made of solid wood, OSB, chipboard, plywood, plasterboard, fibre cement, soft fibreboard, HPL or even Alucobond.

### **Optimum material utilisation**

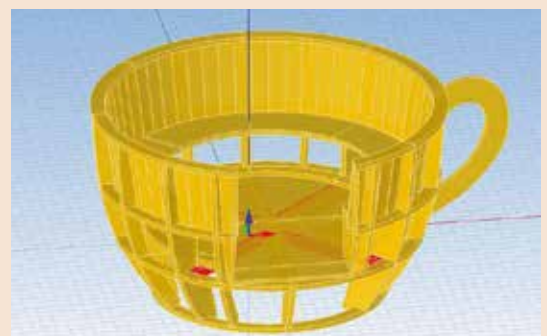
No more waste because intelligent software reduces material consumption to a minimum. 2D surface optimisation (nesting) ensures that all material is used to optimum effect.

### **Minimum setup time**

Different units for various processing operations enable fast material and order changeover.

### **Fast operational readiness**

Thanks to direct data transfer from CAD systems, there is no need for additional programming.



# Unique throughfeed concept for production

Simplest possible handling – with minimal time and energy requirements

The raw panels are placed on the machine lift table individually or as a package using a forklift. The data required for processing can be imported automatically by the CAD system or entered at the operating terminal using the keyboard and mouse.

The SPM-2 performs all further processing operations fully automatically – including material infeed and outfeed. Innovative panel transport makes expensive vacuum clamping systems unnecessary.





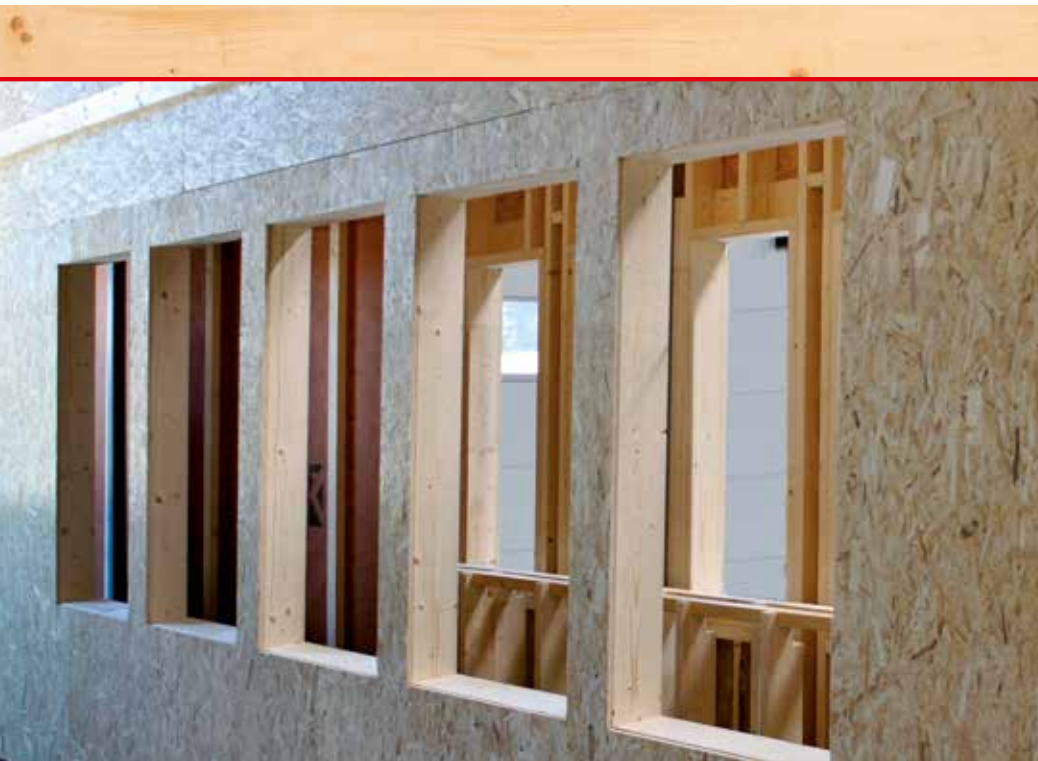
The specially developed Hundegger separation and gripper transport system picks up the panel and transports it secured in a clamping system into the processing zone: Longitudinal cuts, cross cuts and diagonal cuts as well as milling, drilling, grooving and rebating operations are then performed in this processing zone. The extraction system removes the chips directly at the point of processing.



To simplify identification, the parts can also be marked and labelled. The finished workpieces are automatically stacked on the outfeed lift table and can be removed as a package. To facilitate onward transport, webs can also be used which the operator then separates during final assembly.

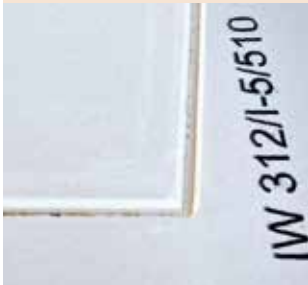


## Cost-effectiveness in timber frame construction



The SPM-2 is a minor sensation in the world of panel processing machines. It paves completely new ways in timber frame construction.

Its extreme flexibility with respect to the materials to be processed makes the SPM-2 an outstanding processing system for wall production.



### No more material waste

The SPM-2 retrieves the data directly from the CAD program. In this way, exterior and interior panelling is manufactured precisely to the required dimensions. The often considerable offcut disappears almost entirely!



# Highly efficient in facade construction

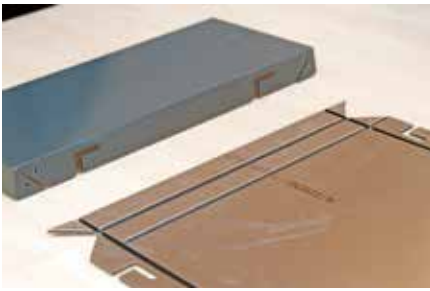
Whether a new or mounted facade: The SPM-2 simplifies facade construction dramatically and also optimises the associated material costs. It can be used for processing many different materials. This makes it an indispensable partner when it comes to the megatrend of thermal insulation, for example.

## **Facade scanning to ensure precise panel production**

The data generated using a 3D laser scanner is fed into the CAD system and automatically processed further by the SMP-2. In this way, precisely fitting panels are produced for the facade – fully finished, without the need for any reworking.







Cost-effective production of acoustic profiles with multi-spindle head or special tools.

# Flexibility for acoustic systems

## Impressive performance in other application areas



Whether in interior design, special formwork or packaging production – the easy-to-use SPM-2 can demonstrate its numerous benefits in many other areas of application. Even free contours – like those in modern timber architecture – are no problem for the SPM-2.





Staircase construction

Individuality is our aim:  
Hundegger adapts every panel  
processing centre precisely to the  
respective requirements of the  
customer.



Free contours



Vehicle interior fitting



Signage



Art and architecture

# Systems to meet your specific requirements – processing units for more flexibility

Choose what suits you best: We'll plan and assemble your SPM-2 throughfeed centre exactly as you need it. The modular design means that later retrofits are no problem.

## Universal circular saws with 4 or 5 axes

### **4-axis saw unit**

The saw units with a saw blade diameter of 180 or 220 mm ensure splinter-free formatting and cutting. It allows both straight and diagonal cuts to be made at all angles precisely and quickly. The circular saw can be rotated through 360°.



### **5-axis saw unit**

The 5-axis saw unit with a saw blade diameter of 550 mm enables separating cuts and hip ridge cuts to be made at any angle and inclination. The circular saw can be rotated through 360° and tilted by 50°.





## Milling units with 3 or 5 axes

### **3-axis milling unit**

This milling unit is available with different power outputs and can be equipped with tools up to 100 mm in diameter – with up to 24,000 revolutions per minute for drilling and milling work. The program adapts the speed to the respective tool.

### **5-axis milling unit**

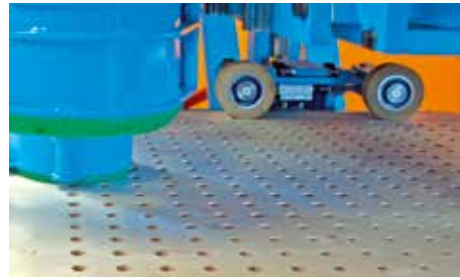
A 5-axis milling unit makes the SPM-2 even more flexible. With an additional rotational and inclination axis, it can also perform drilling and milling operations up to an angle of 46°. Tools with a diameter of up to 20 mm are used at speeds up to 24,000 revolutions per minute.



# Units and accessories for special applications

## Multi-spindle drilling unit

Multi-spindle drilling units specially adapted to their respective task increase productivity in the case of repetitive drilling patterns.



## Slot unit

A slot unit that can be equipped with up to five plate cutters is the ideal solution for special tasks.



## Labelling system

A high-performance inkjet system labels the parts with text or a barcode. Various ink colours are available.



## Joint stop

The pneumatically adjustable joint stop ensures that panel reference edges are cut completely straight and with high precision.





## Completely automatic infeed and stacking



### **Lift tables and part infeed**

The electronically controlled lift tables are responsible for loading and removal of the parts. They can be loaded and unloaded from the front using a forklift or from above using a crane. Panels to be processed are loaded in packets and conveyed plate for plate fully automatically into the machine.

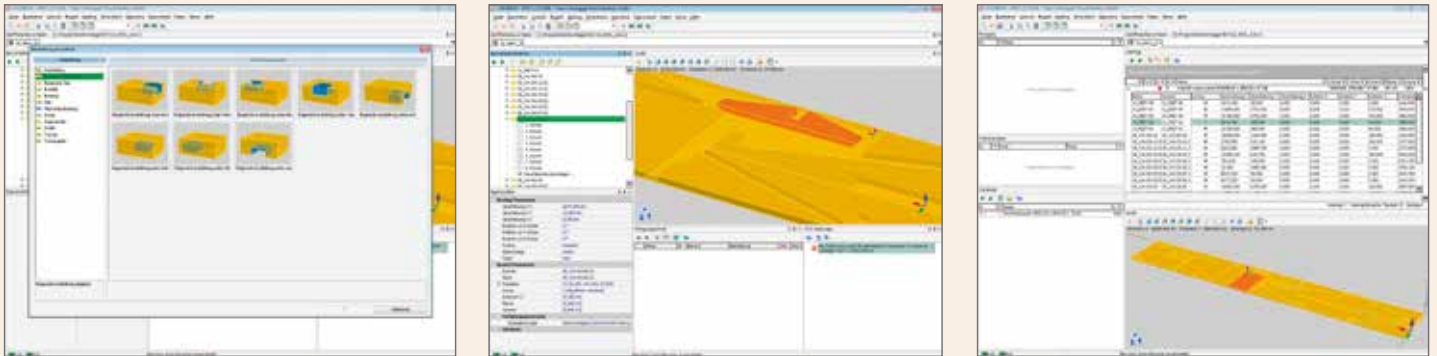


## The flexible production cell – unparalleled efficiency

The integrated panel storage, automatic stock management, infeed and outfeed as well as parts picking make the SPM-2 a flexible production cell – an ultra-modern throughfeed centre that caters for every need and manages your production as efficiently as possible.

Contact us, we will be pleased to give you help and advice

## The software that grows with its tasks



### One software package for all machines and for all tasks

The element that connects all Hundegger machines is CAMBIUM, the completely new software developed by Hundegger. With CAMBIUM, the entire production process from design, through job preparation, right up to the finished part is mapped using a single software package.

This makes interface problems a thing of the past and also completely eliminates the need for additional training as well as the high costs associated with the acquisition and maintenance of multiple systems.

CAMBIUM has been developed specially for the demands of modern timber construction – this ensures maximum investment security

along with extremely simple operation.

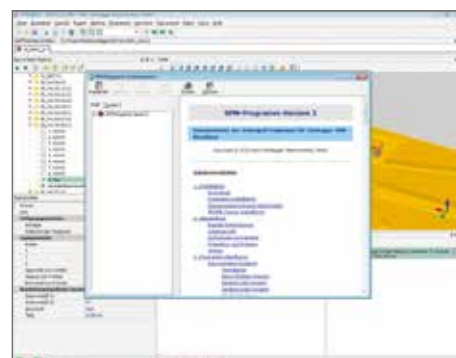
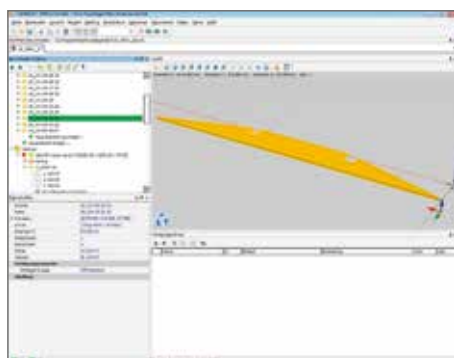
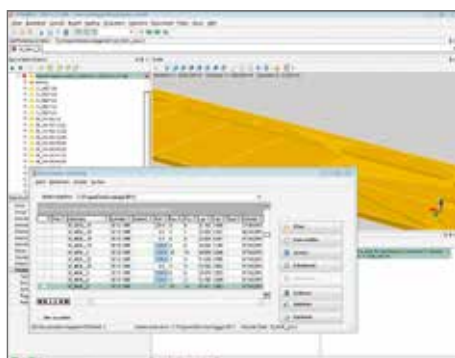
CAMBIUM is truly flexible and fully automatic. No matter what your processing variant may be, CAMBIUM provides an effective and reliable solution for any task without the need for additional programming.

Free software updates ensure that you benefit from continuous dynamic further development of the software throughout the service life of the machine.



# CAMBIUM

made by Hundegger



## Language

- Configured and supplied in the required language

Uniform for all Hundegger machines

## Job preparation

- Automatic data transfer from all commonly used CAD systems
- Waste optimisation
- Material ordering
- Calculation
- Real-time simulation

Uniform for all Hundegger machines

## Production

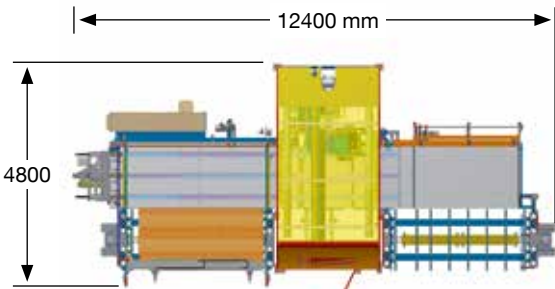
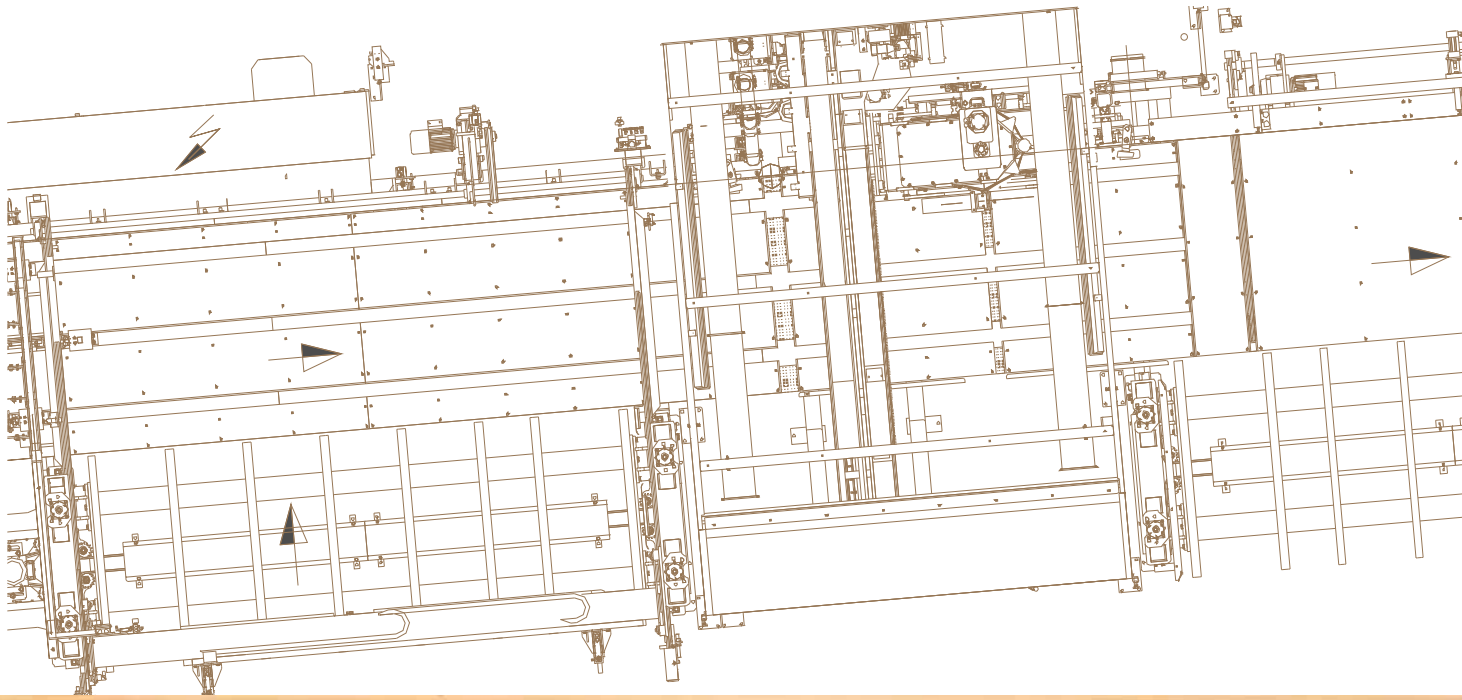
- Same user interface for job preparation and production
- Automatic generation and optimisation of the machine program (CAM)
- Integrated control system (CNC)
- Production data acquisition

Uniform for all Hundegger machines

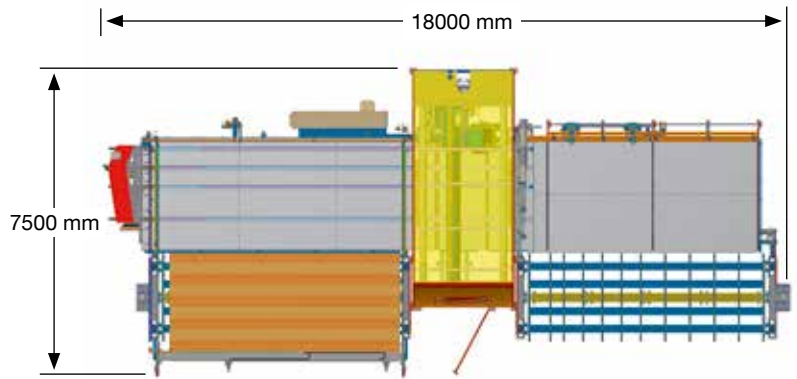
## Other highlights

- Comprehensive reporting
- Standard interface for integration in in-house IT
- Integration of warehouse and automation systems

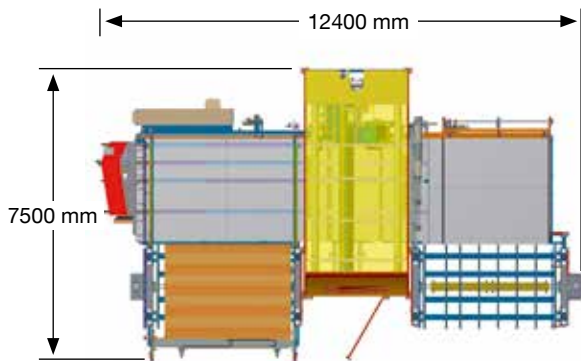
Uniform for all Hundegger machines



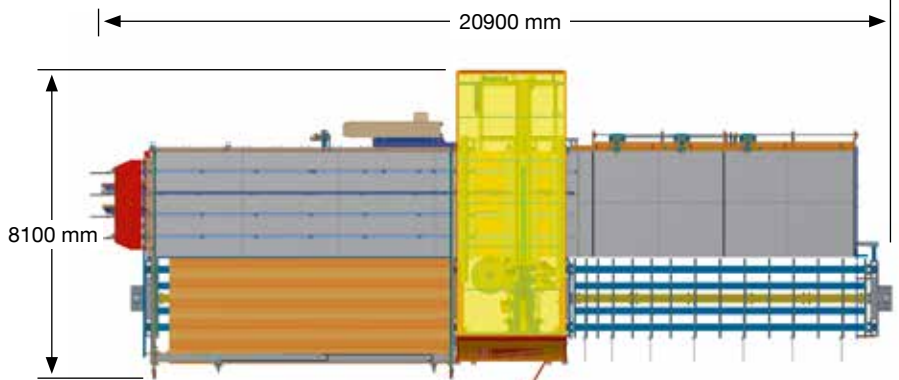
Panel size 1300 x 3200 mm



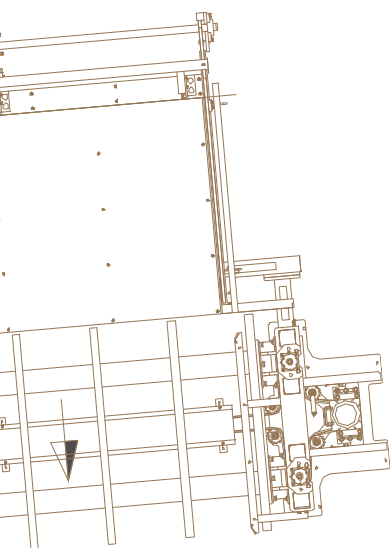
Panel size 2600 x 6000 mm



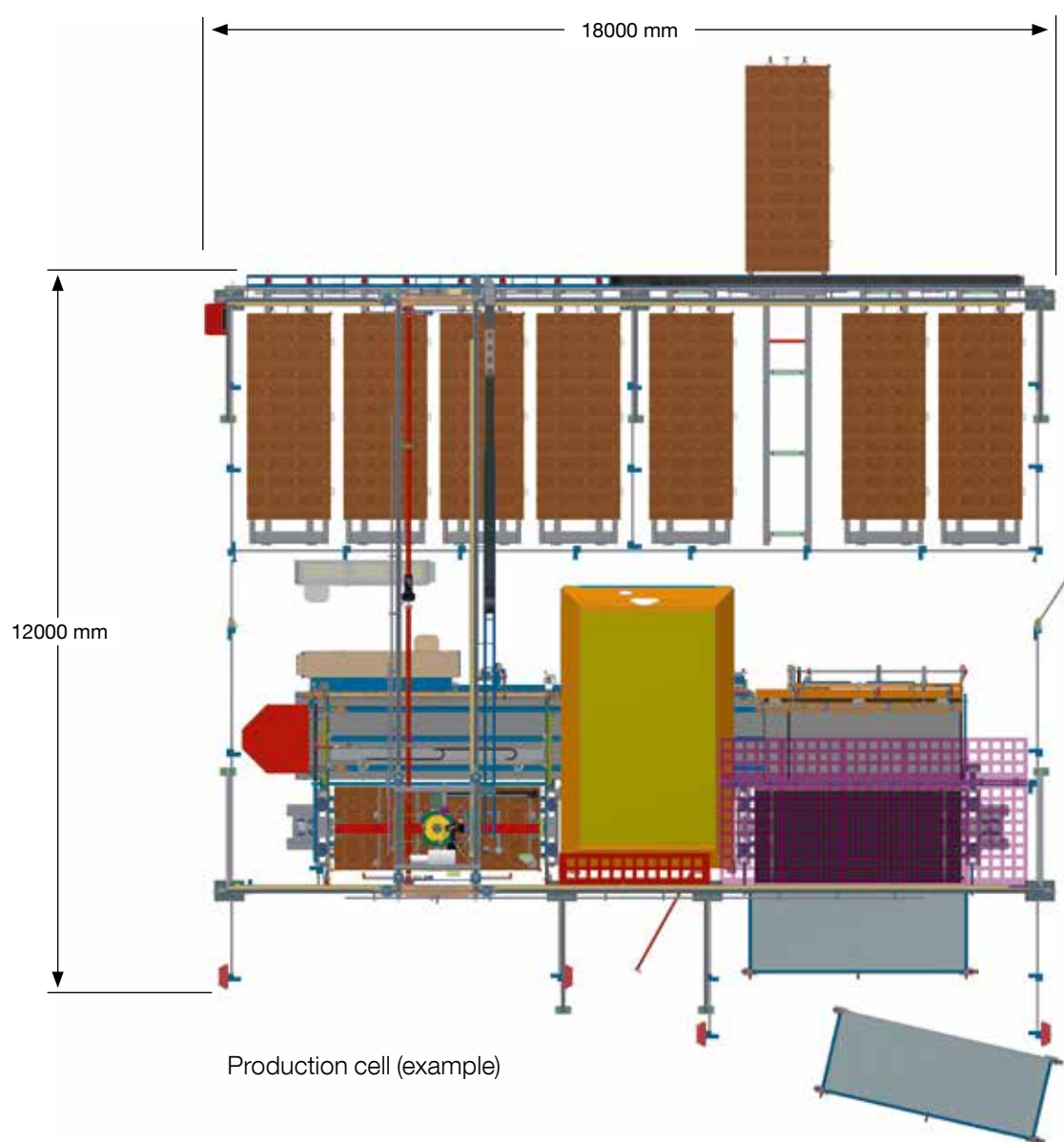
Panel size 2600 x 3200 mm



Panel size 2745 x 7320 mm



## SPM-2 variants





## Hundegger – Advantages

- Experience from 4700 machines installed worldwide
- Precise adaptation of the machines to the requirements of the customer thanks to the modular system and expert advice
- High degree of flexibility owing to in-house software development
- Continuous further development and free software updates
- State-of-the-art interface compatible with all leading timber construction CAD programs
- Convenient machine operation specially developed for the demands of timber construction
- Qualified training and courses at the Hundegger training centre
- Close cooperation with leading institutes and colleges, particularly with regard to vocational further education
- Extensive warranties
- Service and spare parts availability guaranteed worldwide
- Round-the-clock service as a cornerstone of Hundegger's corporate philosophy
- Unrivalled price/performance ratio

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