

Wooden Buildings Manufacturing

Complete technology for
the manufacture of wooden buildings

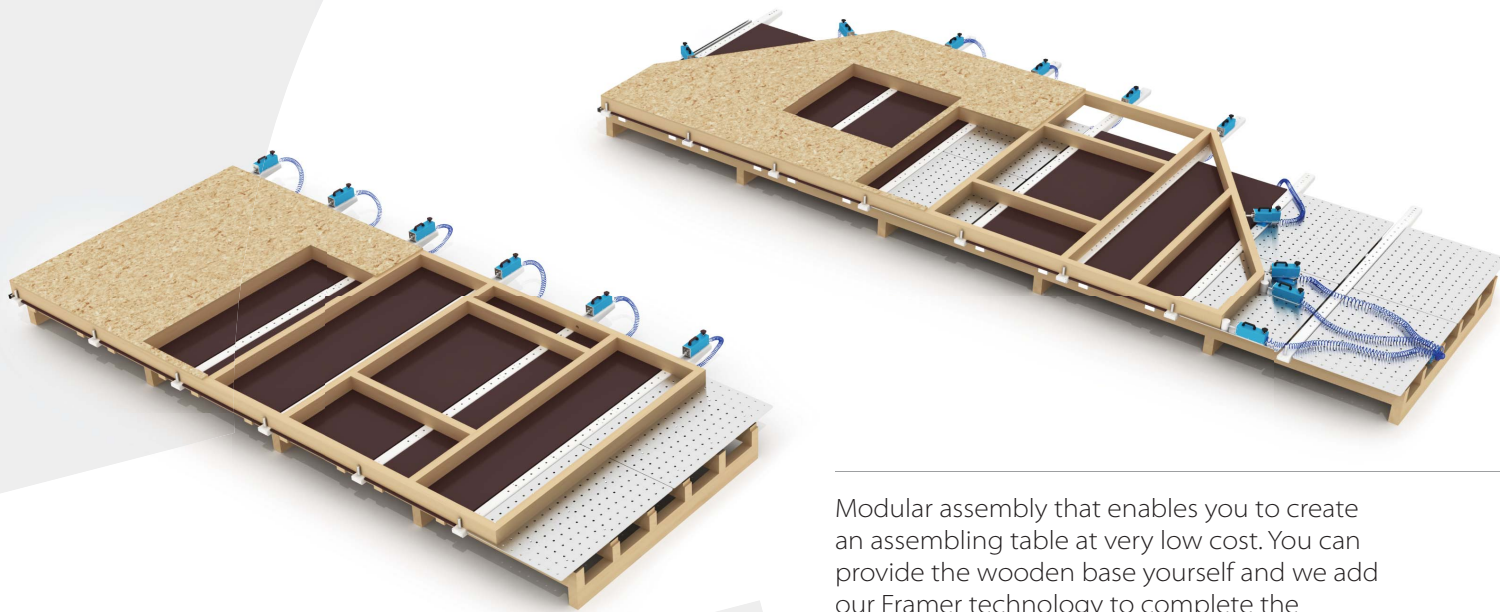


Framer Basic

Framer Basic is intended for start-ups with the production of up to 10 houses per year. This DIY delivery system minimizes investment and offers a sophisticated assembly system for all panel types.

Mounting tables are not only the domain of large companies. The production of panels on mounting tables brings a number of advantages to smaller companies.

- Increase in production volume with the same staffing levels
- Improved quality control
- Increase in staff performance

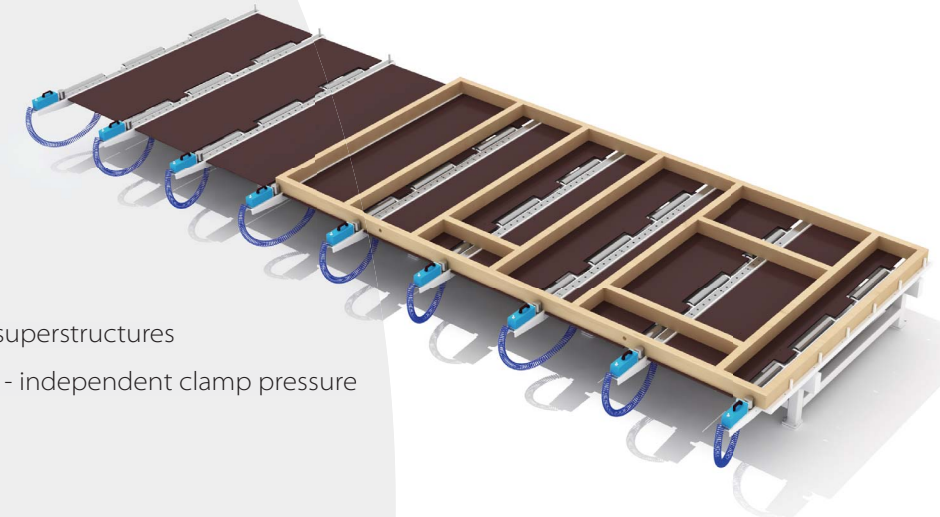


Modular assembly that enables you to create an assembling table at very low cost. You can provide the wooden base yourself and we add our Framer technology to complete the assembling table.

Framer Profi

Framer Profi is a basic technological solution for small and medium-sized companies, which has a production area equipped with crane manipulation. The table facilitates quick and accurate assembly of complete panels and semi-finished frame products.

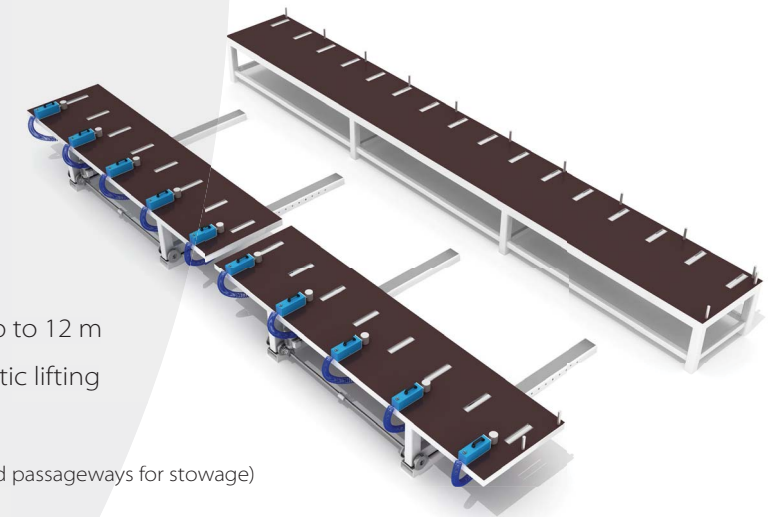
- Rugged steel construction
- Rapid fixing and loosening of the frame
- Maximum production variability - walls ceilings, roof, window and door "H" semi-finished products
- Shape diversity - straight or sloping sections, narrow superstructures
- Two working positions on one table - independent clamp pressure
- Regulated compression force



Framer Line

The table is designed as entrance workplace facilitates quick and variable assembly of complete wooden frames with easy and safe transport to next assembling position.

- Robust design for heavy industrial use
- 1+1 separately controlled table for panel length up to 12 m
- integrated rollers for panel movement with pneumatic lifting
- powered width setting for panels from 2 to 4 m
- flexible mounting ergonomics (ergonomically designed passageways for stowage)



Optional

Basic cross holder for panel width 400 – 3000 mm

Removable extension for gable walls (800 mm)

Beam with stop pins for ceiling and roof panels

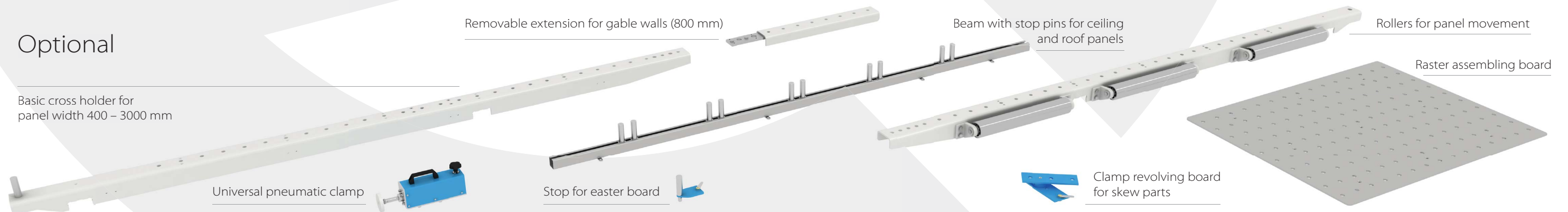
Rollers for panel movement

Raster assembling board

Universal pneumatic clamp

Stop for easter board

Clamp revolving board for skew parts

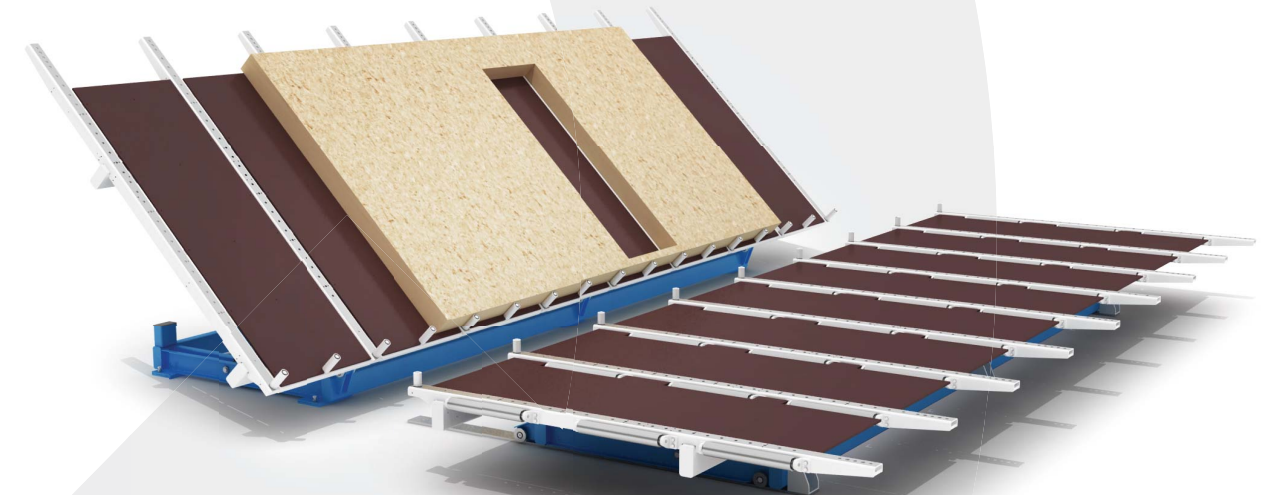
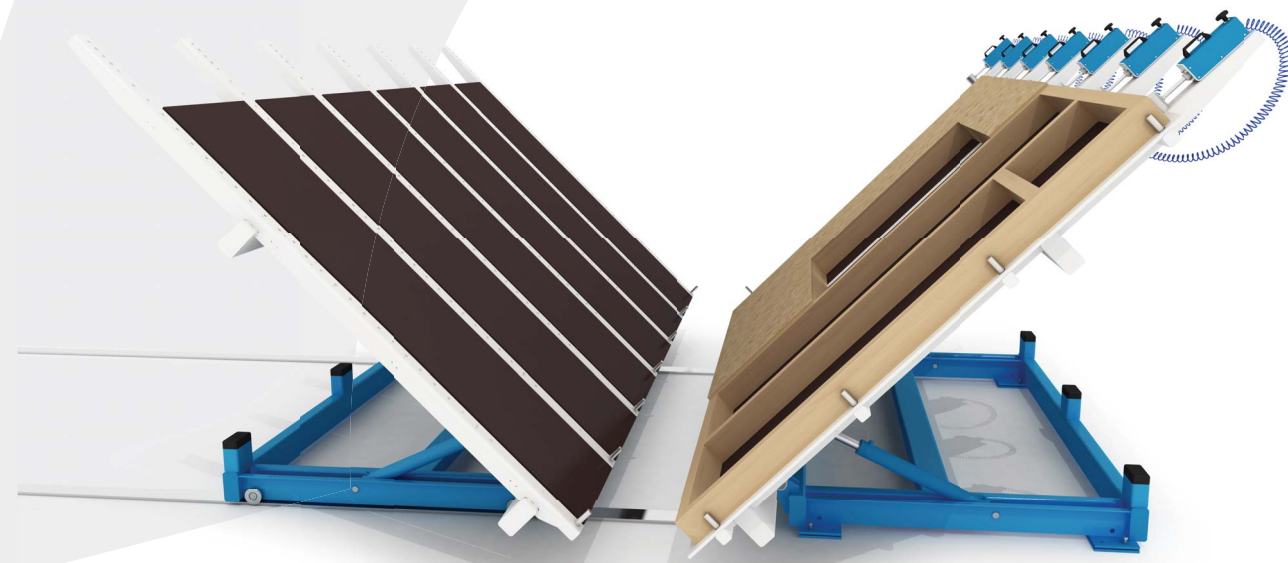


Wing

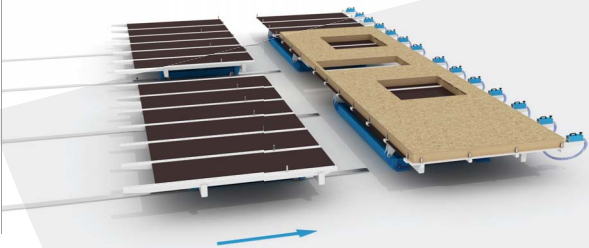
The tilting Wing table is designed for production of wooden sandwich panels. It enables a complete frame to be fixed using adjustable pneumatic clamps. The frame is then covered and then using the tilting mechanism it is moved to the opposite working table. On the opposite working table the frame construction is finished with insulation filling, cabling and a second cover layer. The mobile working table moves by means of hydraulic rollers and so is easily operable by one person.



- Robust design for heavy industrial use
- Comprises laser machined steel profiles
- High productivity - minimised "dead" times
- Crane handling of panels avoided
- Complete accessories for typical and atypical panels. (see Framer)
- Can be set up in low height production halls



1 - moving the tables together



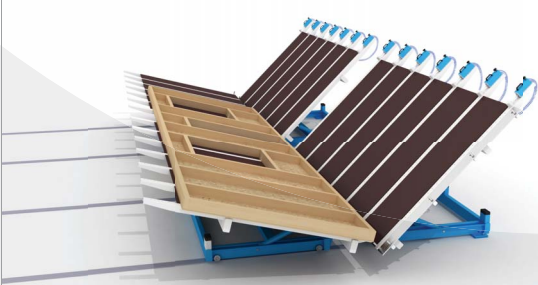
2 - tilting the work tables



3 - closing the tables and transferring the panel to the second table



4 - opening the tables and moving the mobile table to its working position



5 - horizontal movement of panels

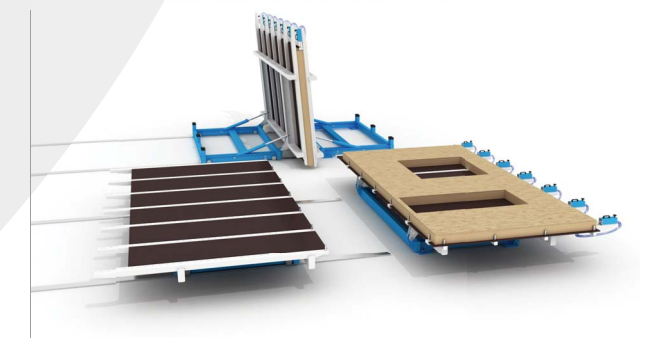
- Increased work space between tables up to a 1600 mm gap
- Significant improvement in work ergonomics on opposite tables
- The possibility to move panels with large thicknesses of construction - 100 to 600 mm



Independent lifting of tables - optional

The control panel can easily select the mode:

- 2 x separately controlled table sets for panel length up to 6 m speeding up short panel production
- 1 x synchronized Workplace for panel length up to 13 m

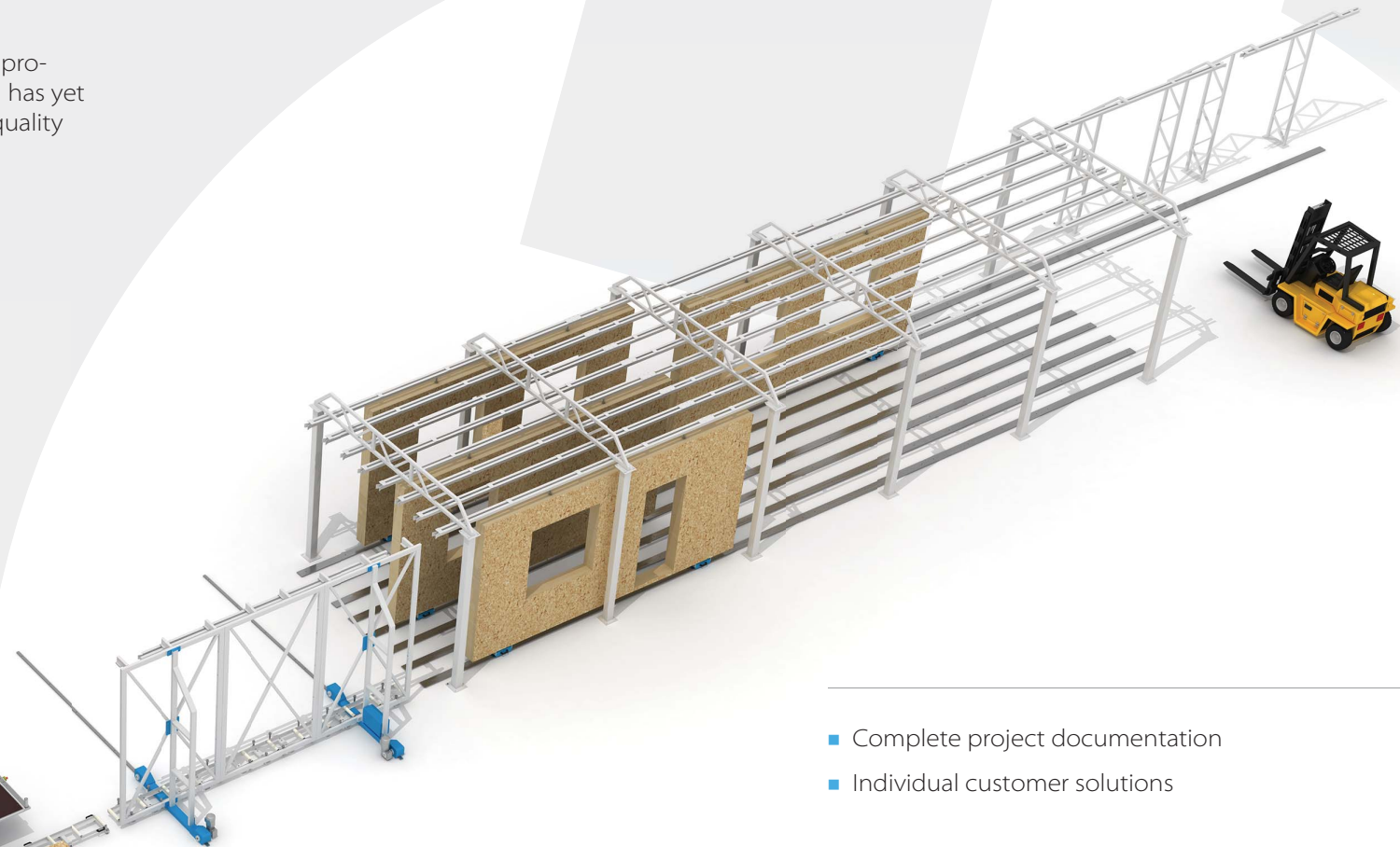
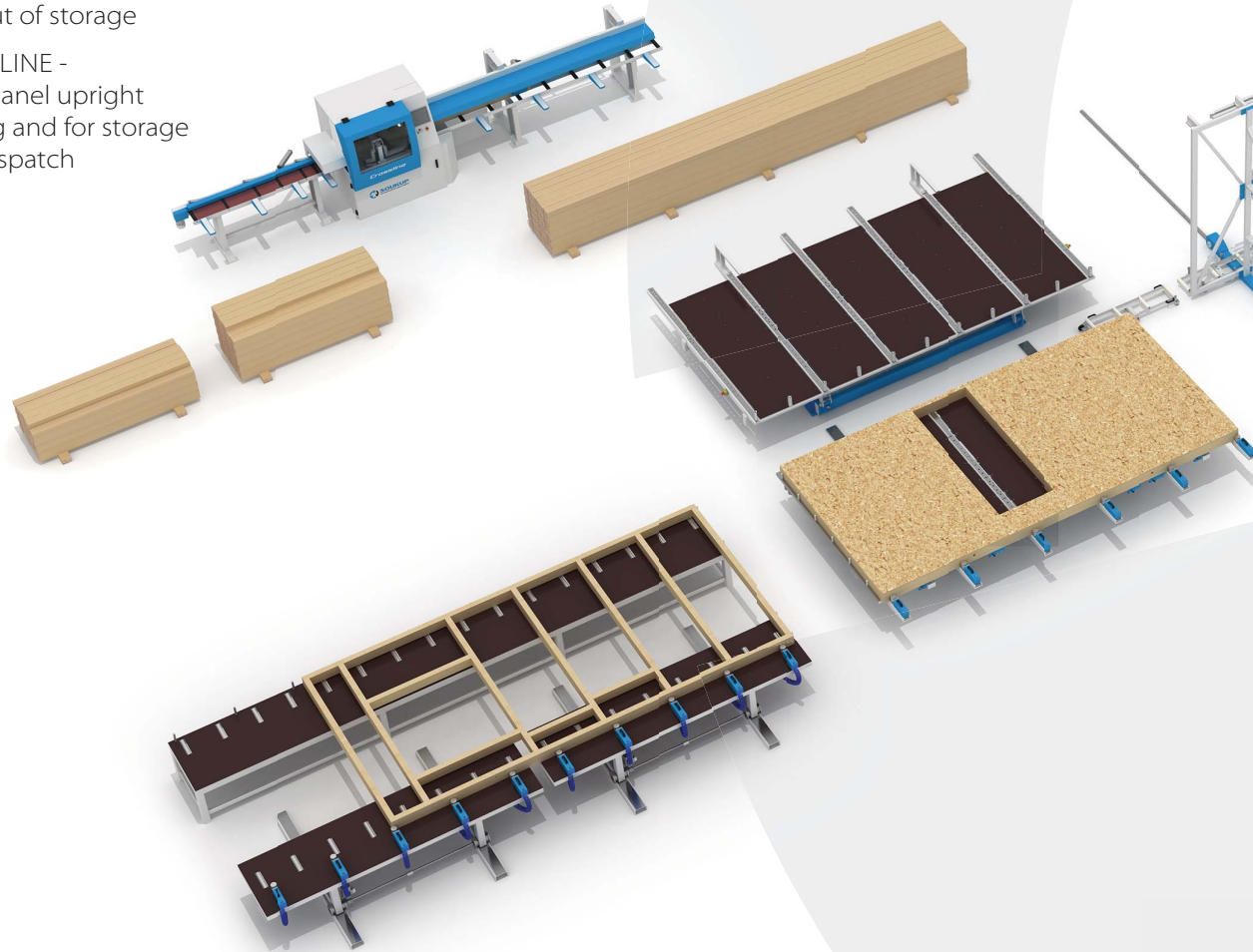


In 1891, the first wood-panel factory was opened in the Czech lands. It started the technological trend of production in sheltered halls followed by quick assembly at the construction site. This production technique has yet to be beaten. The production of panels in covered halls with maximum prefabrication is still the basis of quality and cost-effective wooden building construction.

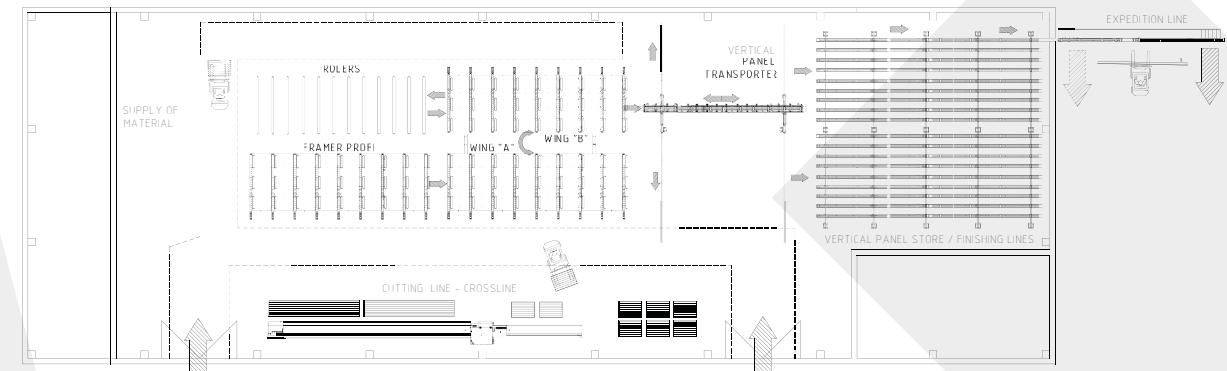
An example of technology in the manufacture of wooden panels

with production for up to 50 family houses per year

- CROSSLINE 650 G - automatic crosscut saw
- FRAMER LINE – assembling table
- WING – tilting assembling table
- VERTICAL PANEL TRANSPORTER - moves panels from the assembly tables into and out of storage
- FINISHING LINE - holds the panel upright for finishing and for storage awaiting dispatch



- Complete project documentation
- Individual customer solutions



Benefits of our technology

- Lower worker overhead
- Fast and safe handling of panels
- Small production area requirement
- Production hall with low ceiling height - reduced heating and maintenance costs
- Optimized technical solution with uniform capacity across all workstations
- Possibility of gradually increasing capacity
- Economically balanced investment



Crossline 500



The Crossline 500 automatic crosscut saw is equipped with a 500mm diameter rotating sawblade, servo driven electronic loading pusher and a static unloading table. This robust crosscut saw is designed to prepare material for wooden panel manufacturing. An optionally attached label printer automatically labels elements as they exit for easy identification in subsequent assembly. The Crossline 500 can become part of an integrated production control system when used in conjunction with data supplied from third party external software.

Crossline 650



The Crossline 650 automatic crosscut saw is equipped with a 650 mm diameter rotating sawblade mounted on a turntable which facilitates angled cuts of up to +/- 70°. The material is inserted into the machine by a servo driven electronic pusher. The head of the material is automatically detected as it is pushed into the machine.

The cutting accuracy is maintained by two upper and two side pneumatic clamps that secure the work piece while cutting. After the material is positioned, clamped and saw angle set, the saw blade automatically rises to cut the work piece. After cutting, the material is released and pushed on to the outfeed table. The machine can work in manual mode or work automatically, linked to data from third party software.

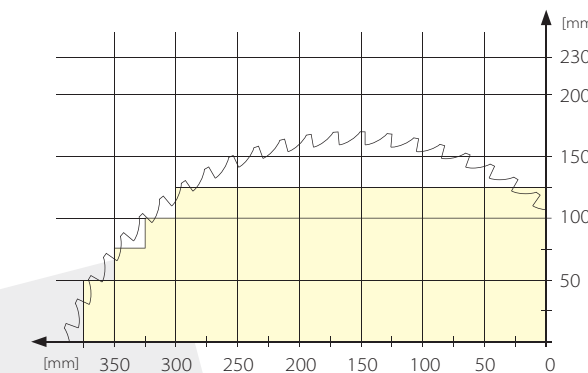
Crossline 650 G



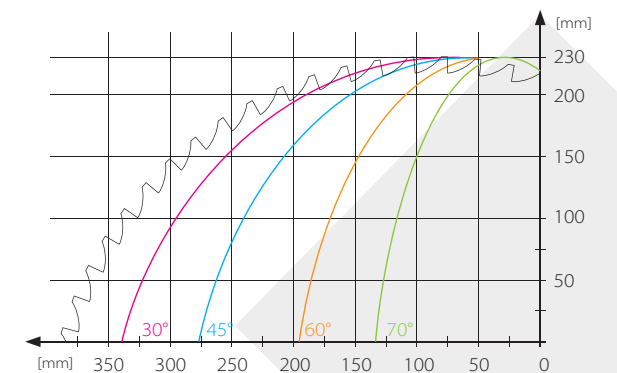
The Crossline 650 G automatic crosscut saw is designed for the preparation of material used in the production of frames for wooden houses and pressed gang-nail roof constructions. The Crossline 650 G is equipped with a 650mm diameter rotating sawblade mounted on a turntable which facilitates angled cuts of up to +/- 70°. The material is inserted into the machine by a servo driven electronic continuous insertion system with unlimited input length. The cutting accuracy is maintained by two upper and two side pneumatic clamps that secure the work piece while cutting. The machine can work in manual mode or work automatically, linked to data from third party software in BTL format.

Crossline	500	650	650 G
■ Saw blade diameter	500 mm	650 mm	650 mm
■ Cut angle	90°	20° - 160°	20° - 160°
■ Material length	6000 mm (8000)	6000 mm (8000)	13000 mm
■ Max. cutting height	120 mm	160 mm	160 mm
■ Feed speed	0 - 60 m/min	0 - 60 m/min	0 - 120 m/min
■ Saw blade motor	5,5 kW (7,5 HP)	7,5 kW (10 HP)	7,5 kW (10 HP)
■ Tolerance	0,5 mm/m	0,5 mm/m	0,5 mm/m
■ Dust extraction	100 + 120 mm	120 + 120 mm	120 + 120 mm
■ Touch screen control	7"	12"	12"
■ Length	11960 mm	13350 mm	9500 mm
■ Width	1210 mm	1270 mm	1490 mm
■ Height	1590 mm	1805 mm	1900 mm

cutting diagram for Crossline 500



cutting diagram for Crossline 650 and 650 G



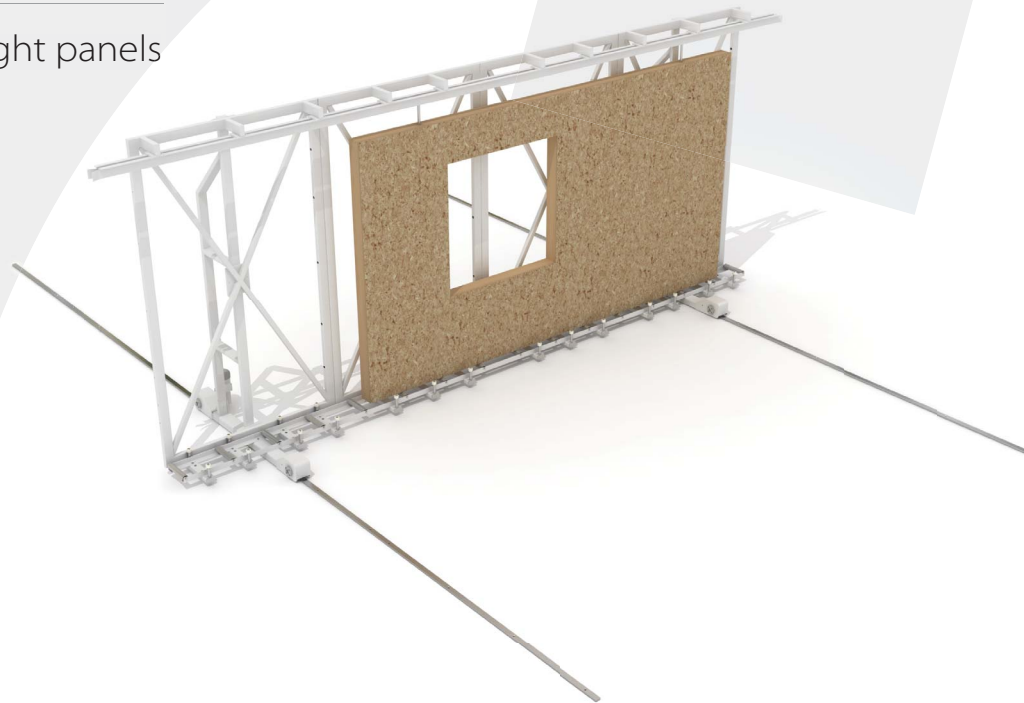
Lower milling unit – optional

- Milling aggregate for automatic production of grooves in the material for wooden houses frames
- Width of milling groove min 50 mm (according to tools)
- Max depth of milling 20 mm
- Increased structure stiffness and increased production capacity!



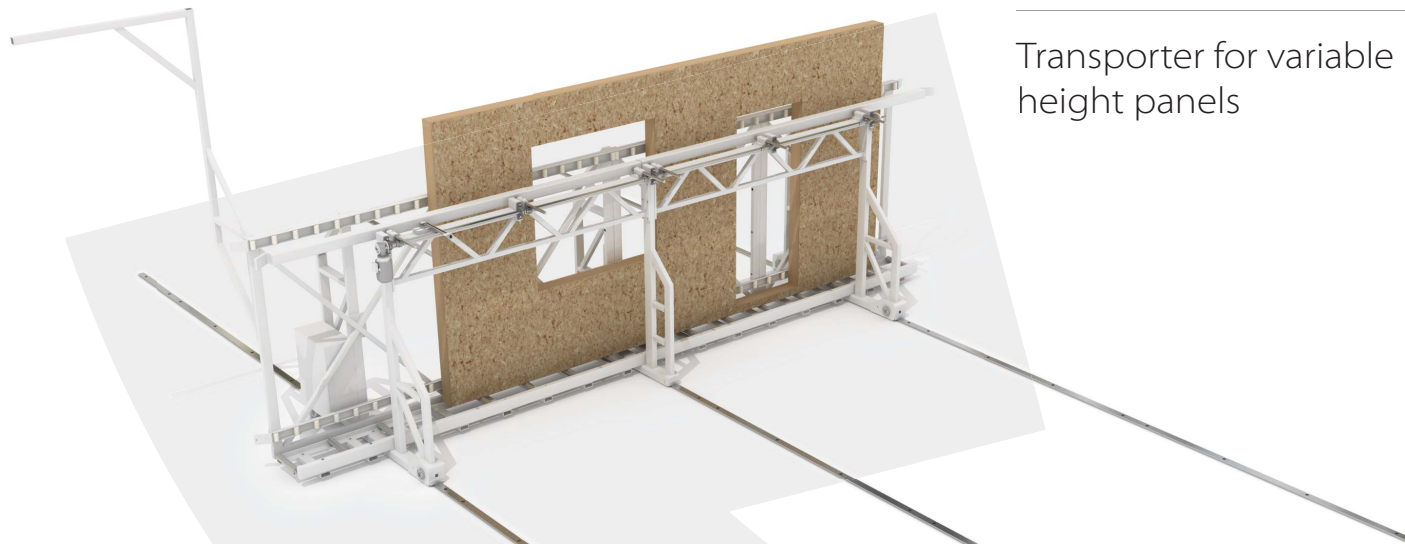
Vertical Panel Transporter

Transporter for fixed height panels



Mobile shifting equipment designed to deliver panels from assembly tables to individual stack trays. The structure consists of a steel welded frame which moves along a transverse track. The panel is manually pushed into the frame and transversely moved to the designated position by an electric motor.

Transporter for variable height panels

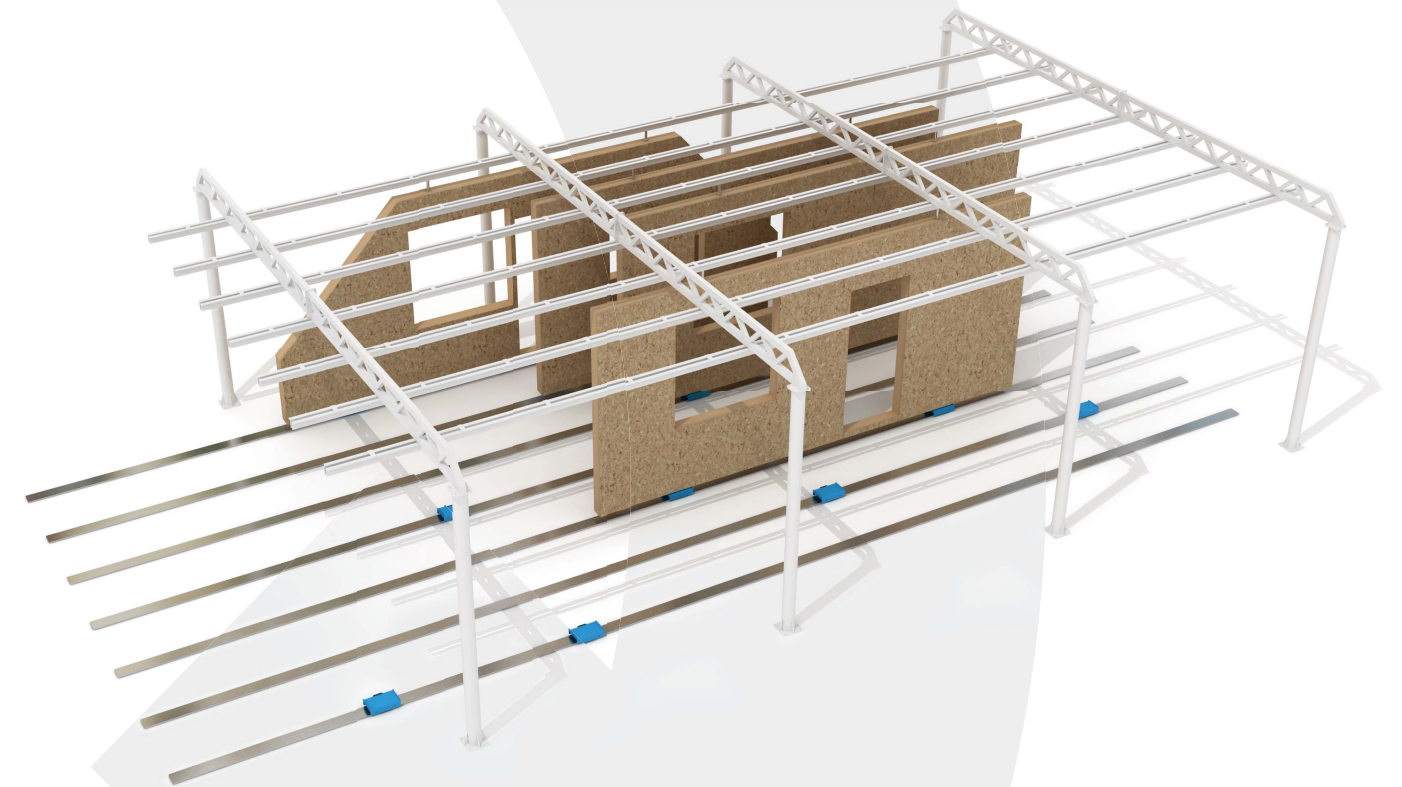


- Working length 6m - 9m - 12m
- Motorised movement along transverse tracks
- Smooth electronically controlled feed rate control
- Control panel is relocatable
- Load capacity 2000 kg



Finishing Line

Track storage for holding wall panels in a vertical position. Allows for finishing of the panel when it's standing in the track, for example, for the installation of windows and preparation of facade systems. Carriages enable panels to be moved by hand along the track. A properly designed track prevents storage and expedition complications, which are the biggest source of "dead" production times. The total capacity of the storage facility should be able to store around a weeks worth of panel production.



The proposed configuration of the finishing facility is dependent on the following parameters:

- planned production capacity
- maximum length of produced panels
- level of panel prefabrication
- handling equipment in the dispatch area
- production area dimensions
- material flow





SOUKUP, established in 1991 based in the Czech Republic, has always been in tune with its customers' requirements. The primary reason we started to build our own machines was that we were unable to find any machine on the market which could fully match the carpenter's way of thinking and doing things.

By taking a more in-depth look at our projects, you will see that there are many original approaches and solutions to various technical tasks all based on our extensive practical experience of producing woodworking machines.



We do not want our customers to simply be able to use the machines; more importantly, we want them to feel naturally involved as part of the overall process. We believe that the correct technological choices and subsequent implementation in conjunction with the needs of our customers are key factors in the success of their future production. We will be pleased to share our knowledge and experience with you.



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