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AUTO EYE TRUSS SYSTEM

RANDEK 

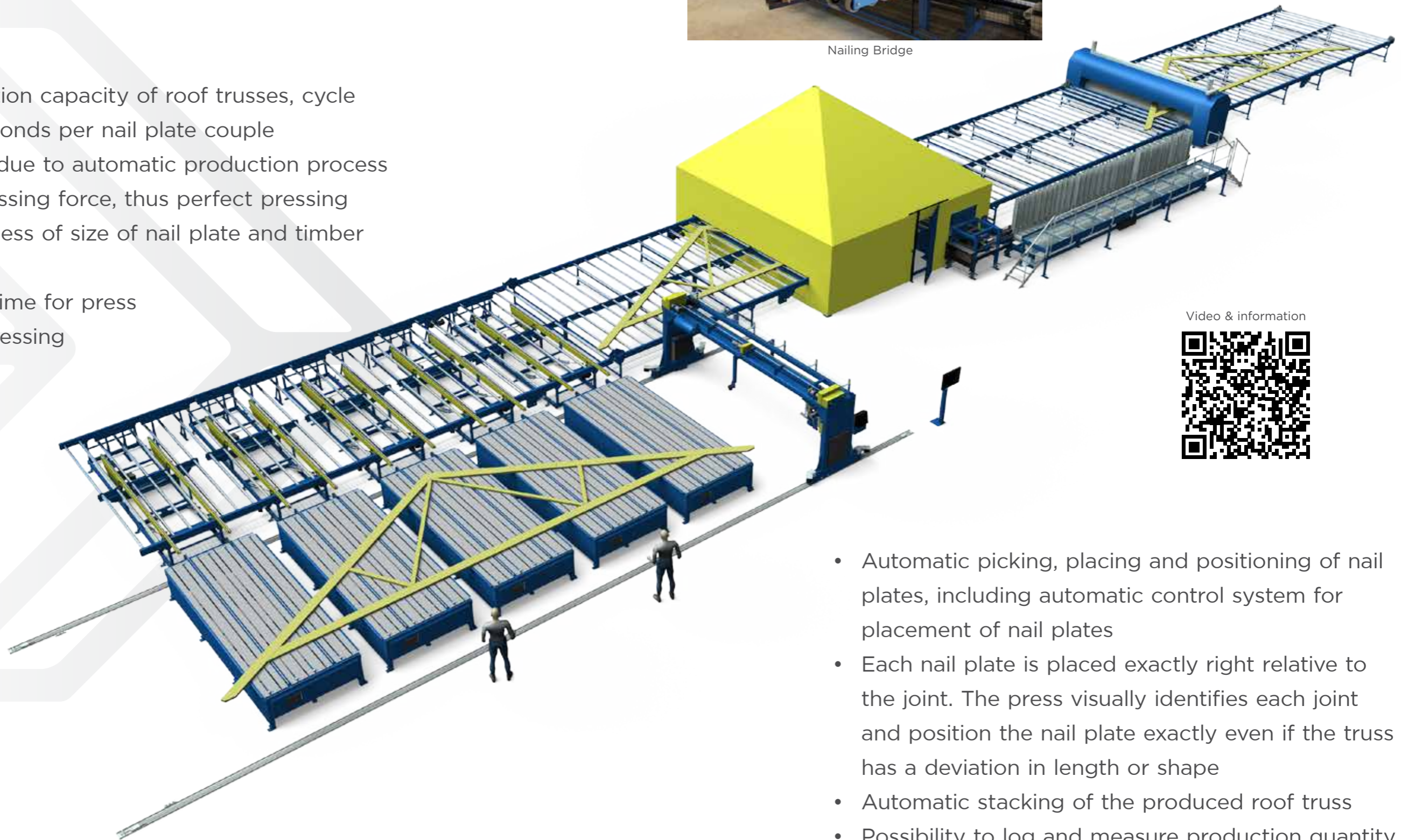
BUILDING THE FUTURE

AUTO EYE TRUSS SYSTEM

- High production capacity of roof trusses, cycle time ffi 9 seconds per nail plate couple
- High quality due to automatic production process
- Adaptive pressing force, thus perfect pressing result regardless of size of nail plate and timber dimension
- Zero set-up time for press
- Automatic pressing



Nailing Bridge



Video & information



- Automatic picking, placing and positioning of nail plates, including automatic control system for placement of nail plates
- Each nail plate is placed exactly right relative to the joint. The press visually identifies each joint and position the nail plate exactly even if the truss has a deviation in length or shape
- Automatic stacking of the produced roof truss
- Possibility to log and measure production quantity

FULLY AUTOMATED TRUSS PRODUCTION SYSTEM

SFO22 AUTOEYETRUSS SYSTEM IS A SYSTEM DEVELOPED FOR AUTOMATIC PRODUCTION OF ROOF TRUSSES. THE SYSTEM COMBINES HIGH CAPACITY WITH INDUSTRIALIZED QUALITY.

The automatic press visually identifies the roof truss and picks, places, positions and presses the nail plates to the roof truss automatically. The pressing force is adapted to the nailplate, thus the pressing result is perfect. The system can handle any shape of the roof truss.



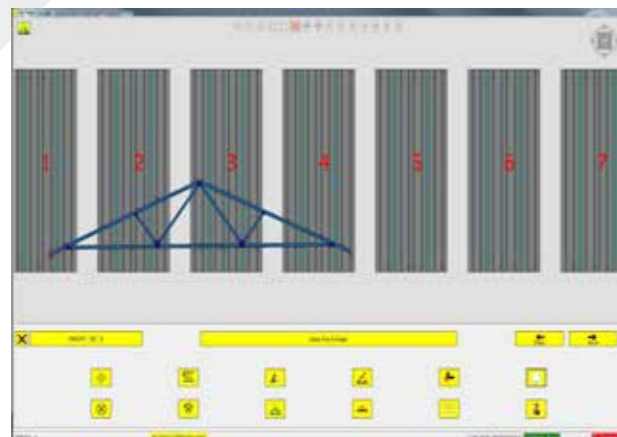
Robust pucktable with precise positioning and fast set up. Add an extra puck per slot as an option to enable double amount of support compared to traditional system.



Each nail plate is placed exactly right relative to the joint. The press visually identifies each joint and position the nail plate exactly even if the truss has a deviation in length or shape.

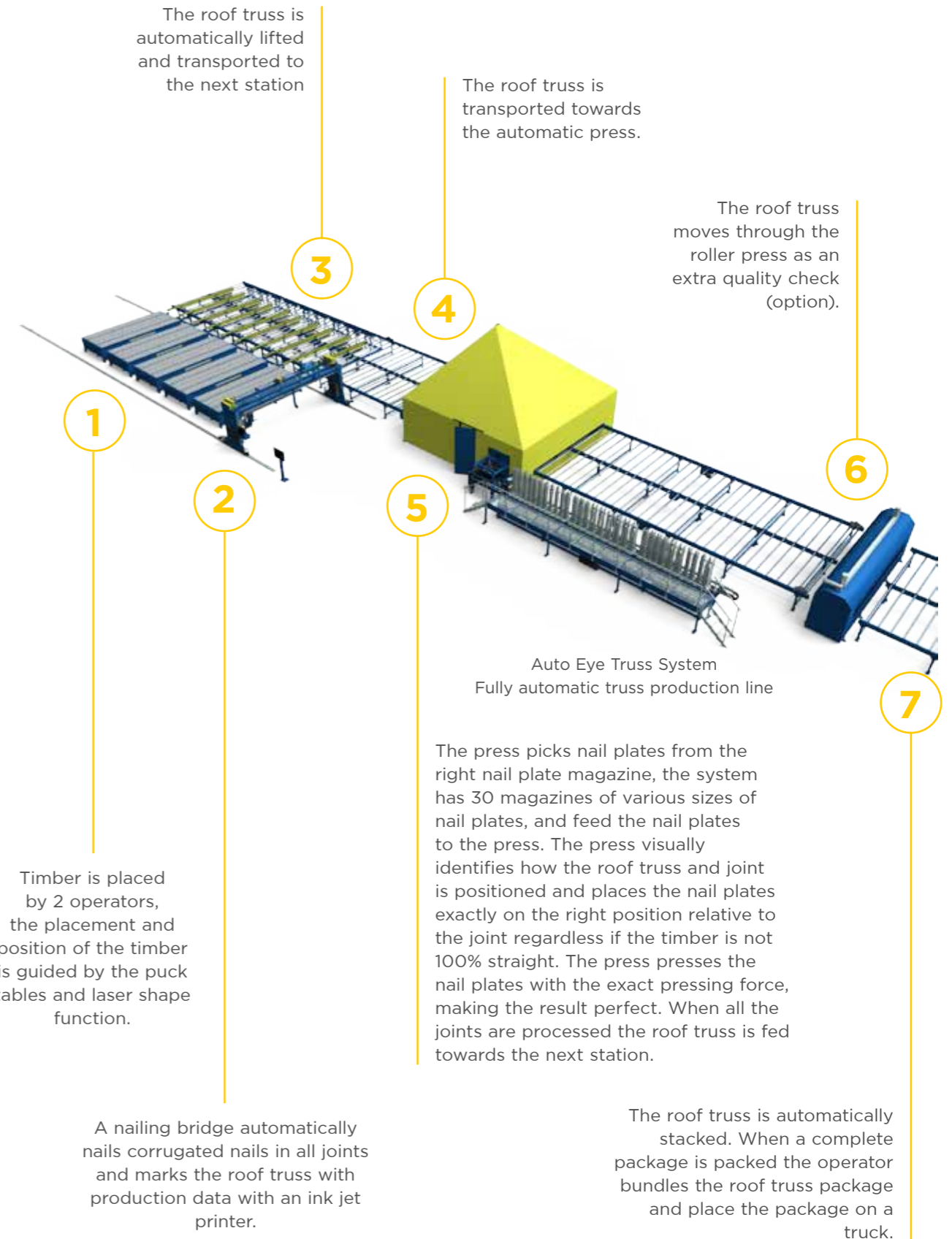


The press picks, positions, places and presses the nail plates automatically.



The Randek software supports off-line production planning and split of pucktables when producing smaller trusses, the split can be done during production.

FUNCTIONAL DESCRIPTION



MODULAR SYSTEM

THE AUTOEYETRUSSE SYSTEM IS MODULAR AND YOU CAN EXPAND IT ACCORDING TO YOUR CAPACITY DEMAND OR ADAPT IT TO FIT YOUR CURRENT PRODUCTION EQUIPMENT.

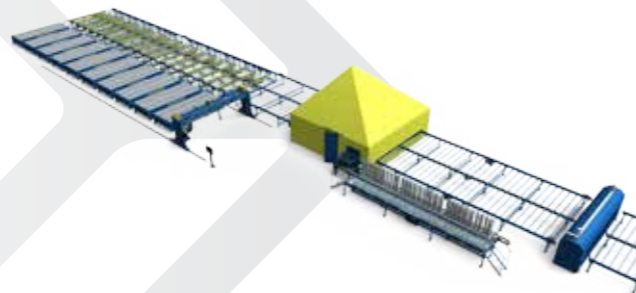
EXAMPLE LAYOUT A

For production of max 12 m long trusses. The line is equipped with angle transfer making it possible to split the puck table into 2 section when producing smaller trusses and still maintain an optimal material flow. The foot print of the line will be wider but shorter compared to a straight line layout (layout C).



EXAMPLE LAYOUT B

For production of max 24 m long trusses. The line is in principle the same as layout A but the maximum length of trusses is extended to 24 m. Configurations that enables production of even longer trusses are possible. It is also possible to split the pucktable into two sections of various sizes to allow for parallel production of roof trusses and it is possible to make the split easily during production.



EXAMPLE LAYOUT C

This layout is formed as a straight line which will make the footprint of the line longer but not as wide as a configuration with angle transfer.



EXAMPLE LAYOUT D

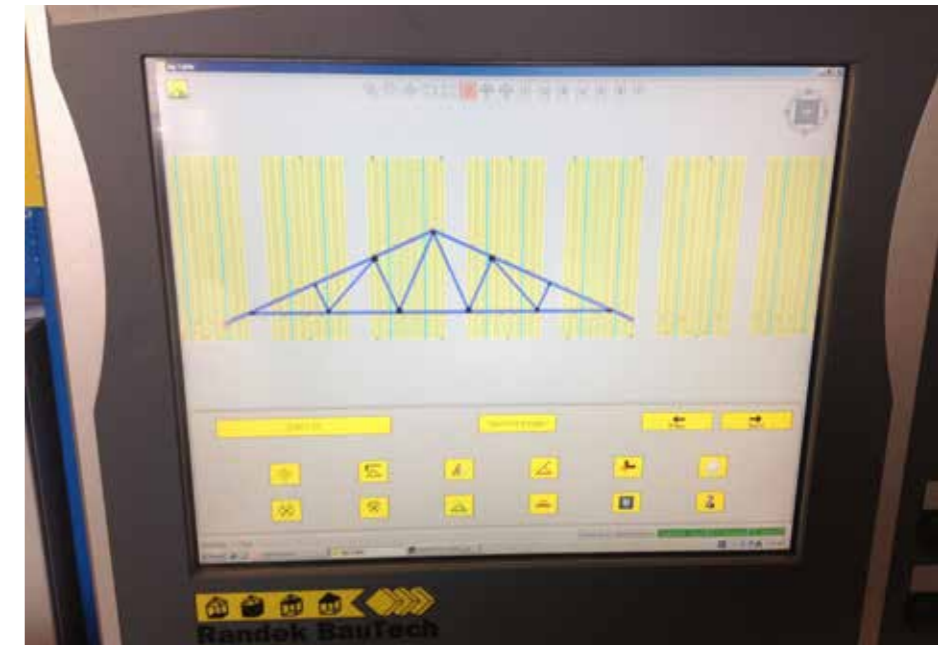
This layout illustrates what you can purchase if you already have a puck table and want to integrate this with our automatic press.



Roller press and stacking system are optional in all layouts.

SOFTWARE

The Randek pucktable software enables offline planning. The production manager can in advance plan the production in the office and easily make adjustments during the production. The operators simply push a button and the table is automatically set-up.



The software supports splitting of the pucktables into 2 sections of various sizes to allow for simultaneous production of two roof trusses. When producing smaller trusses this function is very useful. The software also supports 2 pucks per slot in the table as an option, which will give double amount of support for the truss.

CAPACITY

The AutoEyeTruss System can handle and produce any shape of the roof truss within the defined limitations in dimension. Classic shaped or scissor shaped roof truss does not matter.

The production cycle is approximately 9 seconds per pressing point.

Technical Description	Min	Max
Roof Truss dimensions		
Roof Truss Length	Approx. 2 m	12 m (24 m with extra puck table)
Roof Truss Height	0,5 m	4,5 m (>4,5 m gets splitted)
Timber thickness	35 mm (Option: < 35 mm)	51 mm (Option: > 51 mm)
Operators		
Complete production line	2-3 operators depending on configuration	
Capacity (100% utilization)		
Press cycle (one pair of nail plates)	Approx. 9 seconds	

RANDEK IN BRIEF

Randek develops, manufactures and markets high-performance machines and systems for prefabricated house manufacturing. The product range consist of: cut saws, wall-, floor- and roof lines, roof truss system, butterfly tables and special machines. The automation level stretches from fully automated to manual.

The company history goes back to the 1940s and began working in close cooperation with the first prefabricating house producers. Today leading house producers in 38 countries are using Randek machines and system.

CUT SAWS

High quality and well tested saws with different automation levels. Also specialized saws for custom applications.



WALL-, ROOF- AND FLOOR LINES

Complete product program for manufacturing of walls, floors and roofs. From manual to fully automatic systems.



ROOF TRUSS SYSTEMS

Adapted equipment for rational manufacturing of roof trusses. From traditional systems to fully automatic.



BUTTERFLY TABLES

Flexible and well tested butterfly tables. Simple or advanced with a wide range of options.



SPECIALIZED MACHINERY

Customized machinery developed for specific applications, Automatic stucco machine, Beam insulating machine, Roof board machine and Window frame machine.



SERVICES

A wide range of services such as Factory Layout designs, Machine maintenance, House building systems and Financing.

