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AUTO FLOOR SYSTEM

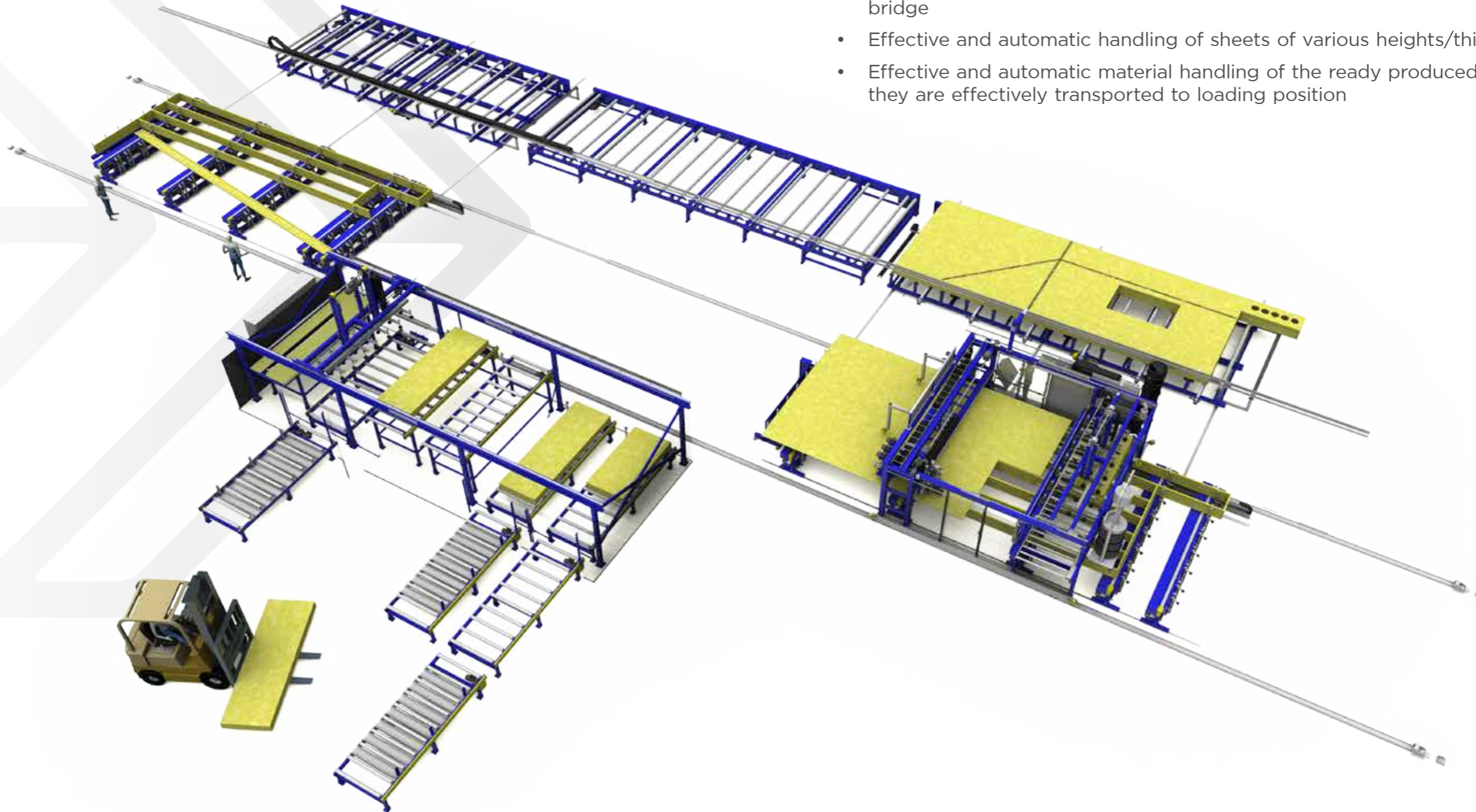


BUILDING THE FUTURE

AUTOFLOOR SYSTEM

THE RANDEK AUTOFLOOR SYSTEM IS THE WORLD'S MOST AUTOMATIC PRODUCTION SYSTEM FOR FLOOR ELEMENTS, FLOOR CASSETTES, ROOF CEILINGS AND ROOF ELEMENTS.

- Automatic Nailing
- Automatic milling of openings for plumbing and electronic installations
- Automatic cutting of sheets and openings
- Automatic gluing
- Automatic marking with inkjet, marking of inner walls various placement information etc
- Automatic adding/handling of sheets including automatic handling of tongue and groove in sheets
- Automatic and flexible support making it possible to produce complex non square floors/roofs/ceilings
- Open jig solution for effective and ergonomically working conditions
- Double jig solution for effective production and high utilization of the automatic bridge
- Effective and automatic handling of sheets of various heights/thicknesses
- Effective and automatic material handling of the ready produced components, they are effectively transported to loading position



Automatic and flexible jig system, the jigs are open for effective and ergonomic working process as it is possible to walk inside the jig. Each jig consists of 7 pin pairs that automatically positions according to the CAD file in order to create support when building the floor element. The pin pair is easily activated and raised by a push button by the operator as the floor element is built up beam by beam.

Control unit, CAD/CAM connection enables direct transfer of files directly from design software to machine. Effective planning and control software for easy planning and production of floor/roof/ceiling element.

The required quantity of boards are packed, squared and fed into the automatic bridge when the bridge is in zero position.

Inkjet for marking i.e. placement of internal walls and various things to simplify the building process, branding/id number etc.

Interpolated saw unit for cutting of overhand of boards or large openings etc. The saw unit can make straight and angled cuts. The saw is equipped with effective dust extraction unit.

Interpolated milling unit for milling of openings i.e. plumbing and electrical wiring etc.

5 automatic tool holders to be equipped with nailing/stapling/drilling tools each holder also contains a gluing unit

Vacuum unit picks sheet and places it on the floor element the next sheet is clamped together in order to handle the tongue and groove connection between the boards automatically.

In-feed of sheets, entire packages of sheets are loaded to the sheet buffer. The truck driver simply places the packages on the infeed conveyors then the system will handle and process the sheets automatically. It is possible to place 3 different heights of sheets to the board buffer for high material utilization.



AutoFloor System jig and automatic bridge



Activated/Upraised AutoFloor pins and button for activation and clamping



Empty AutoFloor jig with pins activated/upraised



AutoFloor System safety laser



Operator using AutoFloor control system



View showing AutoFloor 2 jig solution and side/roller transport system



AutoFloor bridge working over jig system: gluing, adding sheets, handling tongue and groove connection, stapling/nailing, sawing, milling and marking using inkjet



AutoFloor bridge positioned next to AutoFloor jig system

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.

