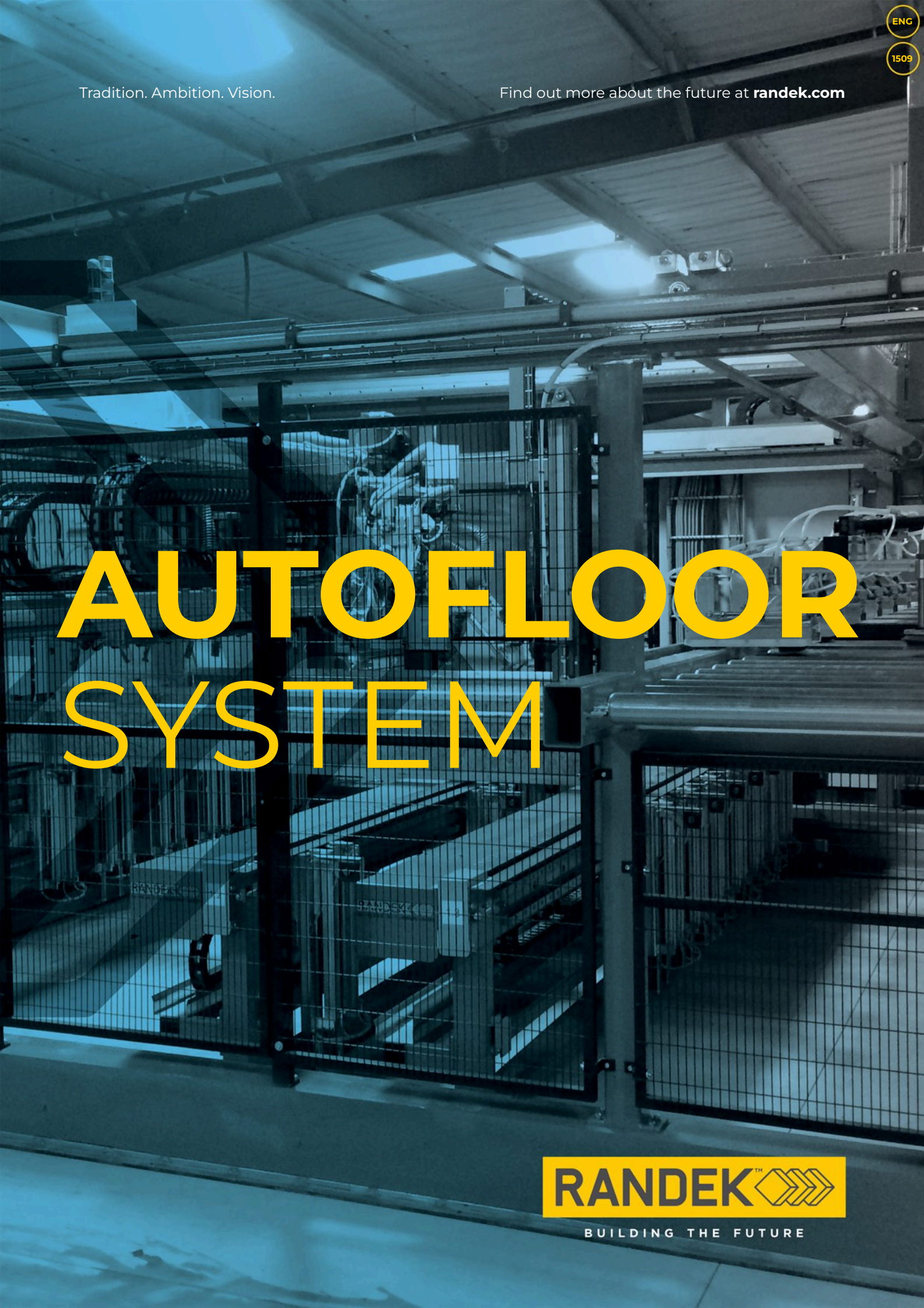
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AUTOFLOOR SYSTEM

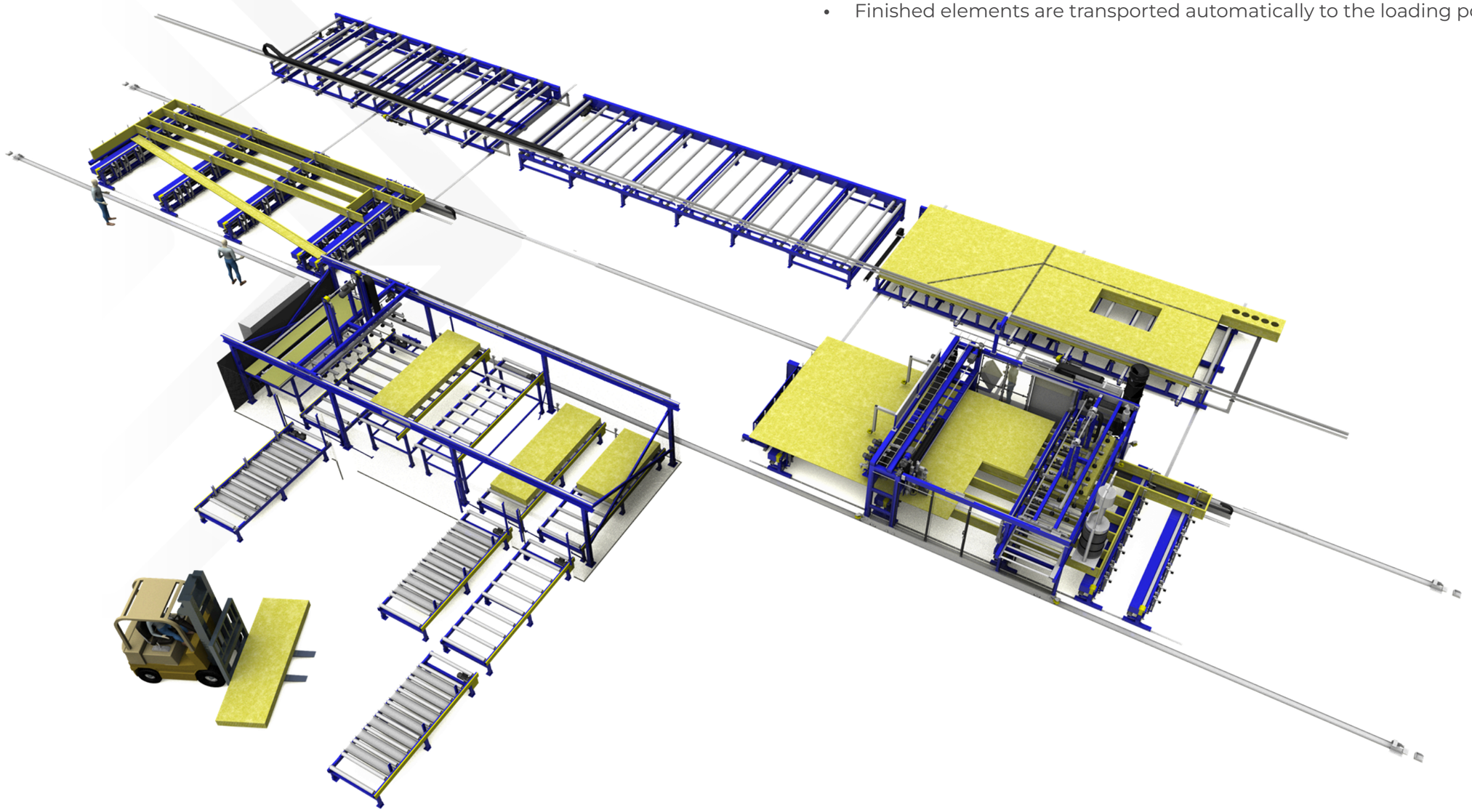
RANDEK™

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.

AutoFloor comes in two variants that share the same open jig, sheet in-feed and control. On the robotic line, the standard today, ZeroLabor robots sheathe and fasten the element. On the portal line, shown in this brochure, one automatic bridge does it in a single pass.



- Automatic nailing
- Automatic milling of openings for plumbing and electrical installations
- Automatic cutting of sheets and openings
- Automatic gluing
- Automatic inkjet marking of inner walls and other placement information
- Automatic adding and handling of sheets, including tongue and groove sheets
- Automatic and flexible support, making it possible to produce complex non-square floors, roofs and ceilings
- Open jig solution for effective and ergonomic working conditions
- Double jig solution for effective production and high utilization of the line
- Effective and automatic handling of sheets of various heights and thicknesses
- Finished elements are transported automatically to the loading position

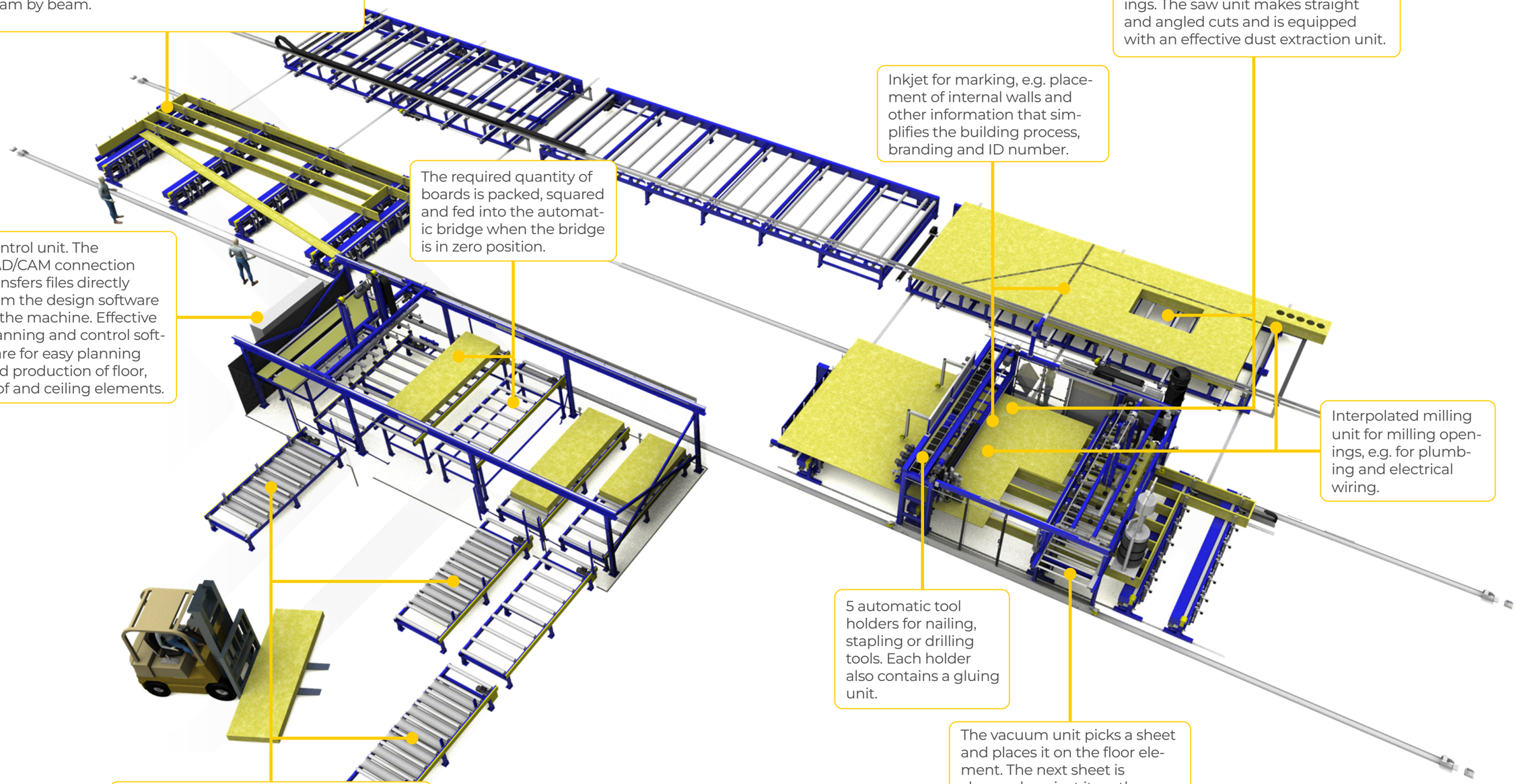
Automatic and flexible jig system. The jigs are open for an effective and ergonomic working process, as it is possible to walk inside the jig. Each jig consists of 7 pin pairs that position themselves automatically from the CAD file. The operator raises each pin pair with a push button as the floor element is built up beam by beam.

Interpolated saw unit for cutting the overhang of boards or large openings. The saw unit makes straight and angled cuts and is equipped with an effective dust extraction unit.

Inkjet for marking, e.g. placement of internal walls and other information that simplifies the building process, branding and ID number.

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

Control unit. The CAD/CAM connection transfers files directly from the design software to the machine. Effective planning and control software for easy planning and production of floor, roof and ceiling elements.



Interpolated milling unit for milling openings, e.g. for plumbing and electrical wiring.

5 automatic tool holders for nailing, stapling or drilling tools. Each holder also contains a gluing unit.

The vacuum unit picks a sheet and places it on the floor element. The next sheet is clamped against it, so the tongue and groove connection between the boards is handled automatically.

In-feed of sheets. Entire packages of sheets are loaded into the sheet buffer. The truck driver places the packages on the in-feed conveyors, and the system handles and processes the sheets automatically. The buffer holds three or more sheet stacks, each in its own position, for high material utilization.



AutoFloor System jig and automatic bridge



Activated/raised AutoFloor pins and buttons for activation and clamping



Empty AutoFloor jig with pins activated/raised



AutoFloor System safety laser



Operator using AutoFloor control system



View showing the AutoFloor double 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

SWEDISH QUALITY LASTS

Randek has developed automation for the prefabricated house manufacturing industry since 1943. Today Randek supplies high-performance machines, robotic solutions and complete production lines to house manufacturers in 40 countries on four continents.

PRODUCTS/SYSTEM



SP720 SERIES CUT SAWS

Sturdy, reliable cut saws for house and roof truss manufacturers, with computer-controlled length stops.



WALL, FLOOR AND ROOF LINES

Tailor-made systems for prefabricated walls, floors and roofs. From manual to fully automated.



ROBOTIC SYSTEMS

Randek Robotics develops the ZeroLabor Robotic System: robot cells for sheathing, sub-assembly and insulation.



ROOF TRUSS SYSTEMS

Randek Truss System NT for traditional truss production and the AutoEye System for automated pressing.



BUTTERFLY TABLES

Wall-turning tables, a Randek invention from 1963. From a single manual table to a full line.

RANDEK SERVICES



RANDEK PRE-STUDY



MAINTENANCE



GLOBAL SUPPORT



MYRANDEK

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