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# ZEROLABOR ROBOTIC SYSTEM

**RANDEK™** 

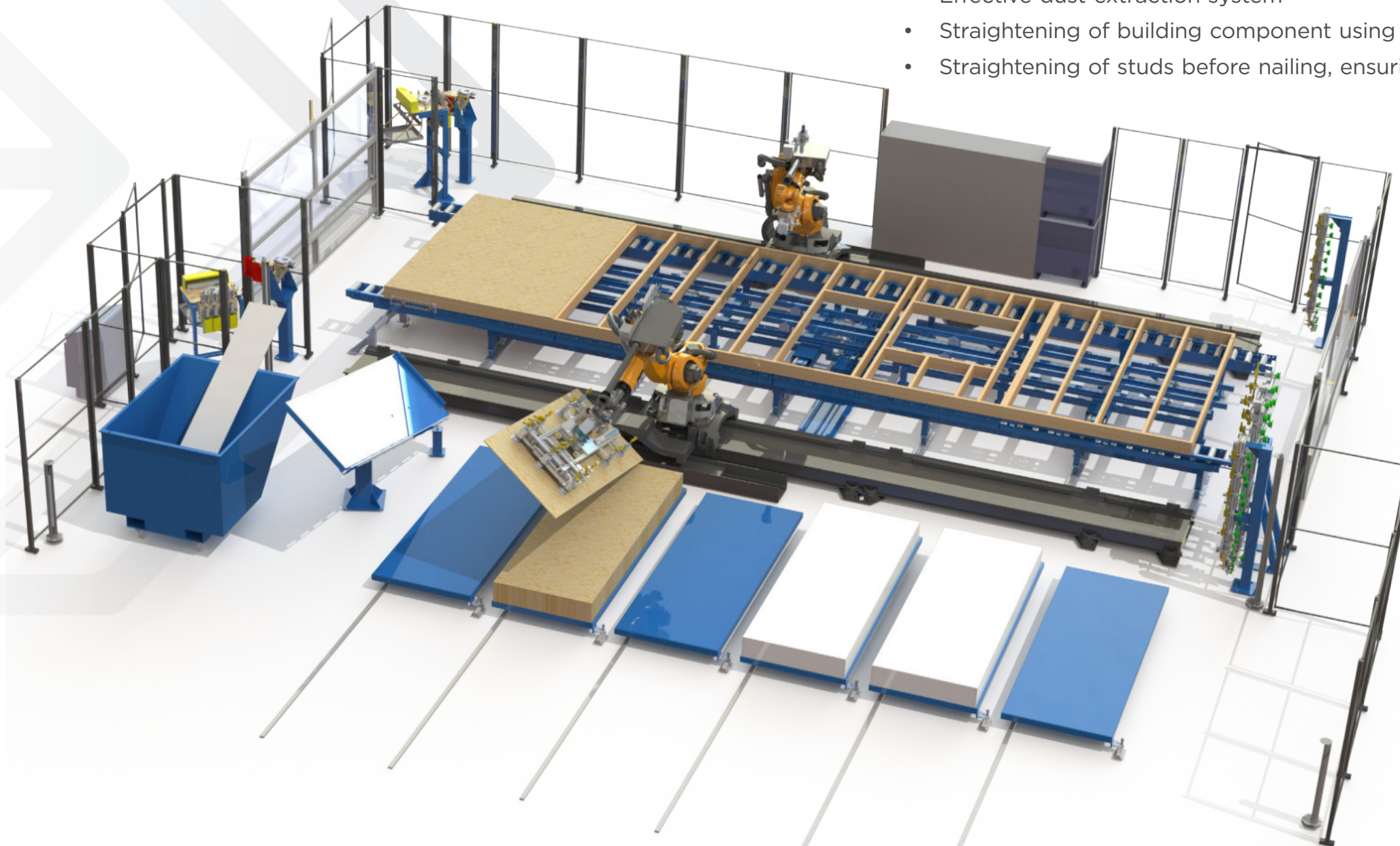
BUILDING THE FUTURE

# ZEROLABOR ROBOTIC SYSTEM

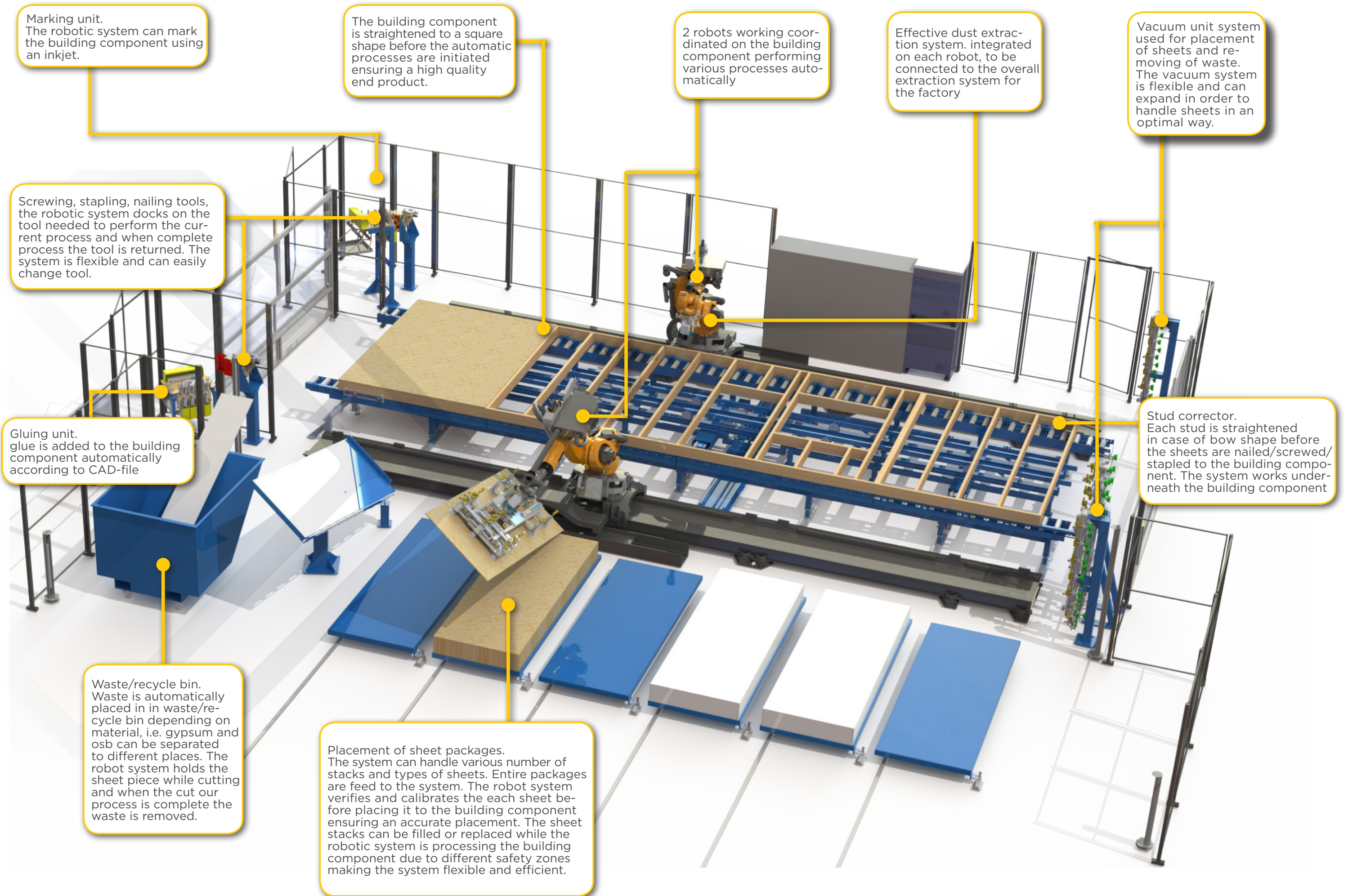
THE RANDEK ZEROLABOR ROBOTIC SYSTEM IS A FULLY AUTOMATIC ROBOT CELL THAT PERFORMS VARIOUS WORKING PROCESSES FULLY AUTOMATIC. THE SYSTEM IS FLEXIBLE AND CAN BE CONFIGURED TO CUSTOMER NEED. THE ROBOTIC CELL CAN BE INTEGRATED INTO EXISTING PRODUCTION LINES OR WORK AS A STANDALONE UNIT. THE SYSTEM CAN HANDLE PRODUCTION OF WALLS, FLOORS AND ROOFS.

## Automated processes:

- Sheet handling, the sheet is picked using vacuum cup system from various stacks and placed on building component according to CAD-file, the system is flexible and can handle various sizes of sheets
- Fastening of sheets:
  - Screwing
  - Stapling
  - Nailing
- Cut out for openings such as electrical hoses, windows etc
- The system can handle 1, 2 or 3 layers of sheets
- Marking of component using inkjet
- Gluing
- Waste handling, gypsum waste and osb waste i.e. is placed in different places if needed, i.e directly in waste bin/recycle bin
- Effective dust extraction system
- Straightening of building component using working table.
- Straightening of studs before nailing, ensuring placement of nails on stud







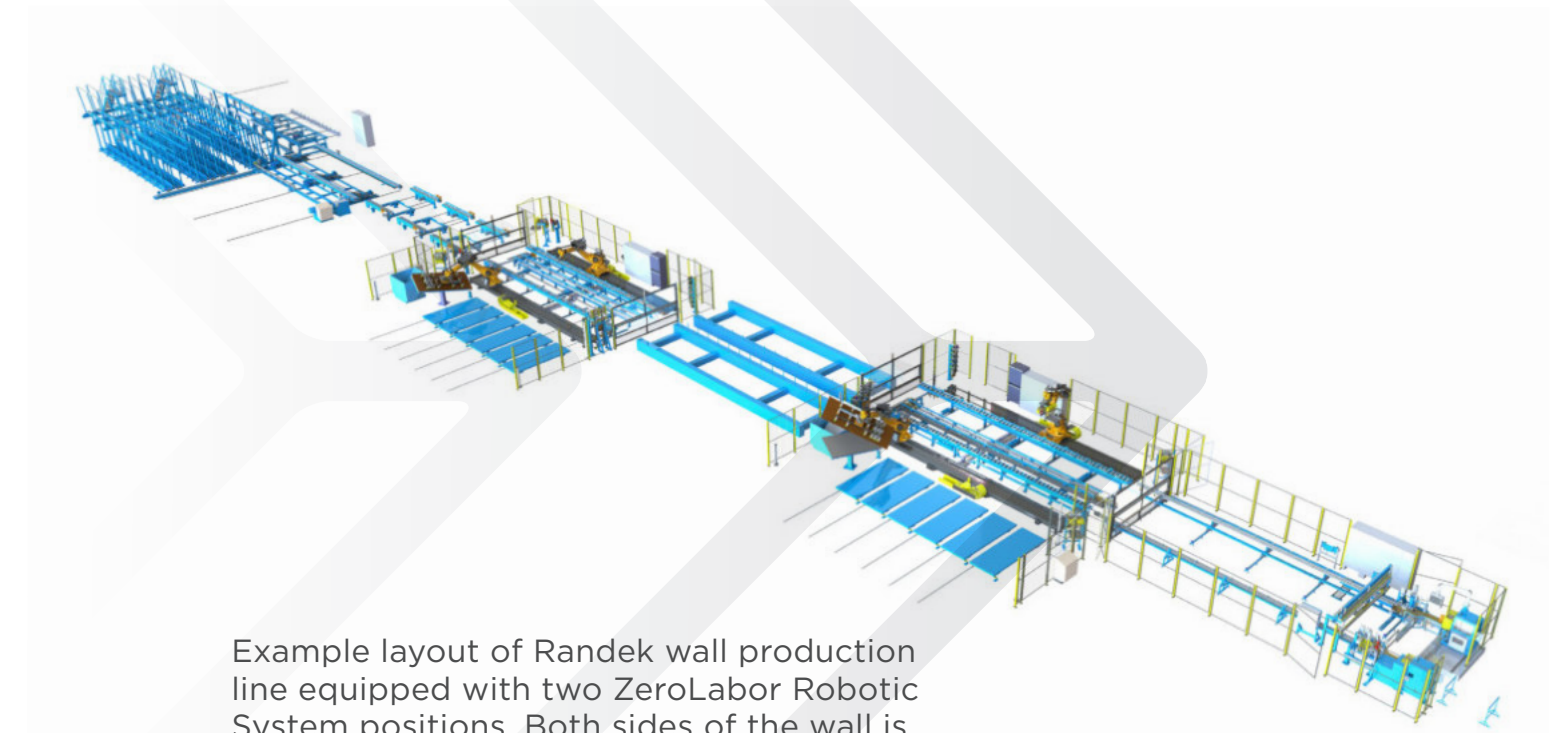




Robot 1 equipped with screwing tools initiating screwing process, robot 2 holding gypsum sheet in place ensuring accurate placement during part of screwing process



Overview of ZeroLabor Robotic System showing sheet stacks and both robots



Example layout of Randek wall production line equipped with two ZeroLabor Robotic System positions. Both sides of the wall is covered using robotic 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.

