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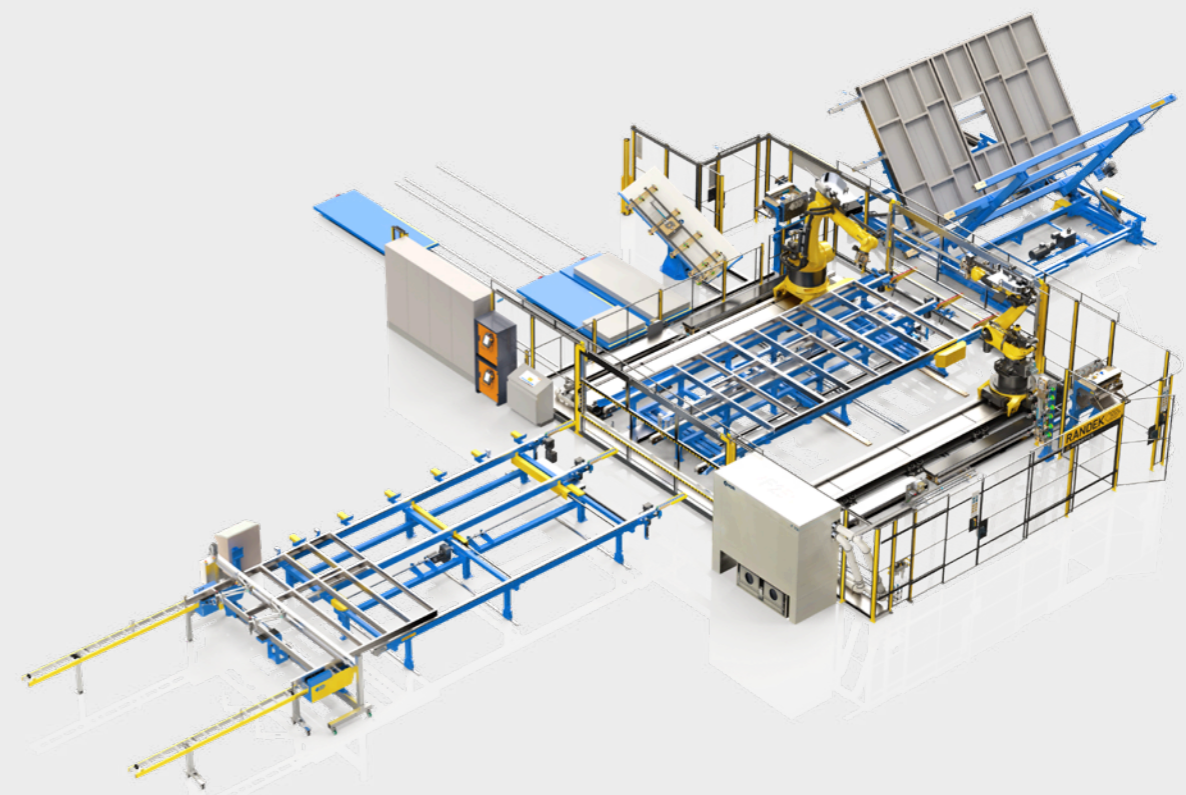
# LIGHT GAUGE STEEL FRAME SYSTEM

**RANDEK** 

BUILDING THE FUTURE

# LIGHT GAUGE **STEEL FRAME** SYSTEM

Light Gauge Steel Frame System is designed to produce steel-framed structures by using our standard timber product line and adapting it for Light Gauge Steel frame component production. This system is configurable to the highest level of automation in our ZeroLabor System. This means that our customers can continue to rely on us and our product to deliver the same quality, precision, high output, and flexibility benefits.



Example configuration of a compact Light Gauge Steel Frame System wall production line including LGS Framing Station, LGS ZeroLabor and LGS Table System.

## LGS FRAMING STATION

LGS Framing Station is a machine developed for the efficient production of frameworks in light gauge steel. The framing station is flexible and has various support units to simplify the process. Wall, floor and ceiling elements can be produced in the system.

- Aided assembly of framed elements
- Quick and easy adjustment for changing dimensions
- One operator assembly of elements
- Accommodates two operators if ramp up is necessary
- Compact design, easy to move and connect
- Fits both in a off-site factory and on-site environment

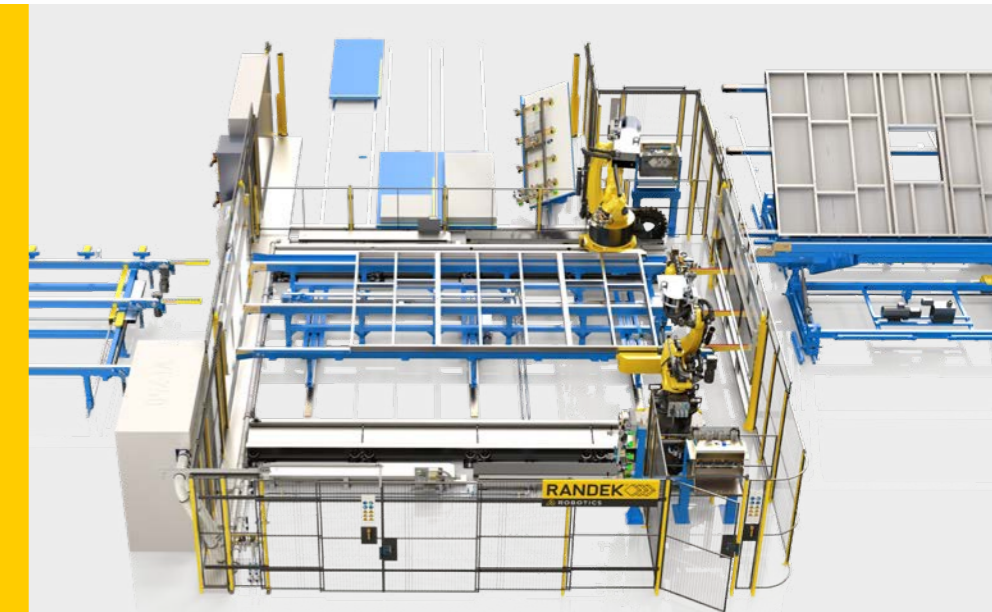


Detailed view showing LGS Framing Station



## LGS ZERO LABOR ROBOTIC SYSTEM

LGS ZeroLabor Robotic System is a configuration of the Randek ZeroLabor System platform adapted for the handling of frameworks in light gauge steel. The core hardware and software is the same and all capabilities and advantages are achieved in the LGS ZeroLabor System configuration.



- Sheet handling, the sheet is picked using a 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
- Different types of fastening methods
- Cut out for openings such as electrical cables, windows etc
- The system can handle 1, 2 or 3 layers of sheets
- Gluing
- Waste handling, gypsum waste, and OSB waste are placed in different places if needed, i.e directly into the waste bin/recycle bin
- Can be connected to a dust extraction system



# LGS TABLE SYSTEM

LGS Table system is developed for efficient handling, turning, transporting and straightening of light gauge steel elements. The LGS Table System has been developed using the traditional Randek table range and is modified to fit the unique aspects required to work for light gauge steel building components.

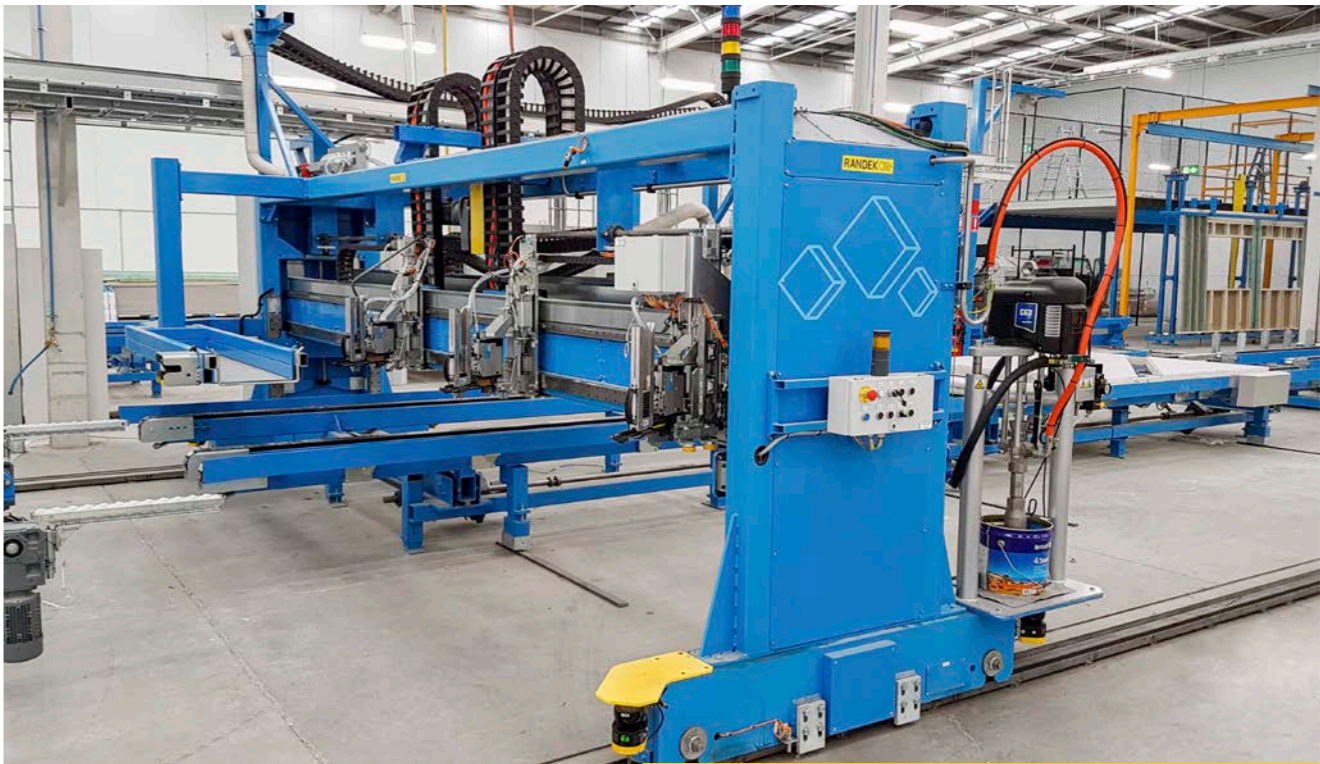


View showing a LGS Turning Table based on the LGS Table System



# LGS BRIDGE SYSTEM

LGS Bridge System is developed for efficient operations using the NB3000 technical platform. The LGS Bridge System can perform fastening, milling, and cutting of a wide variety of sheets.



LGS Bridge System is based on the successful NB3000 technical platform. The bridge is developed to operate in the Randek Light Gauge Steel Frame System.



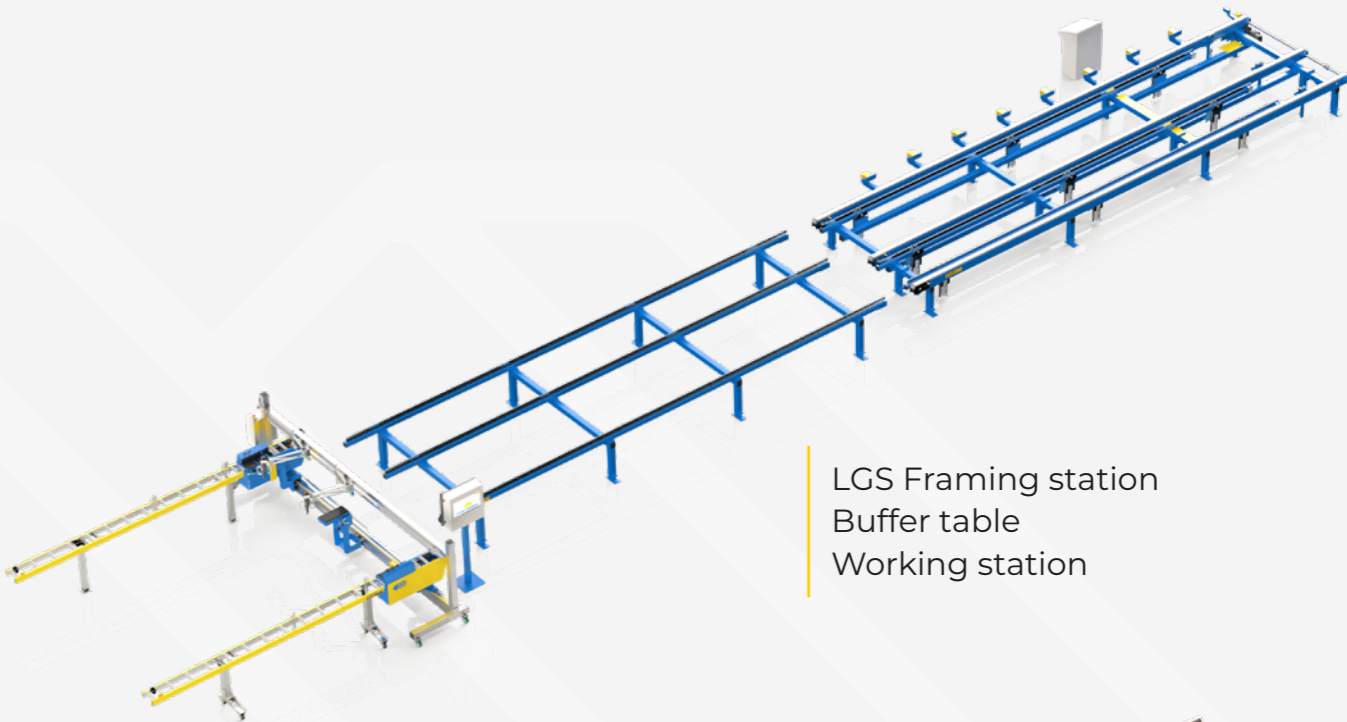
EXAMPLE CONFIGURATIONS



LGS Framing station.



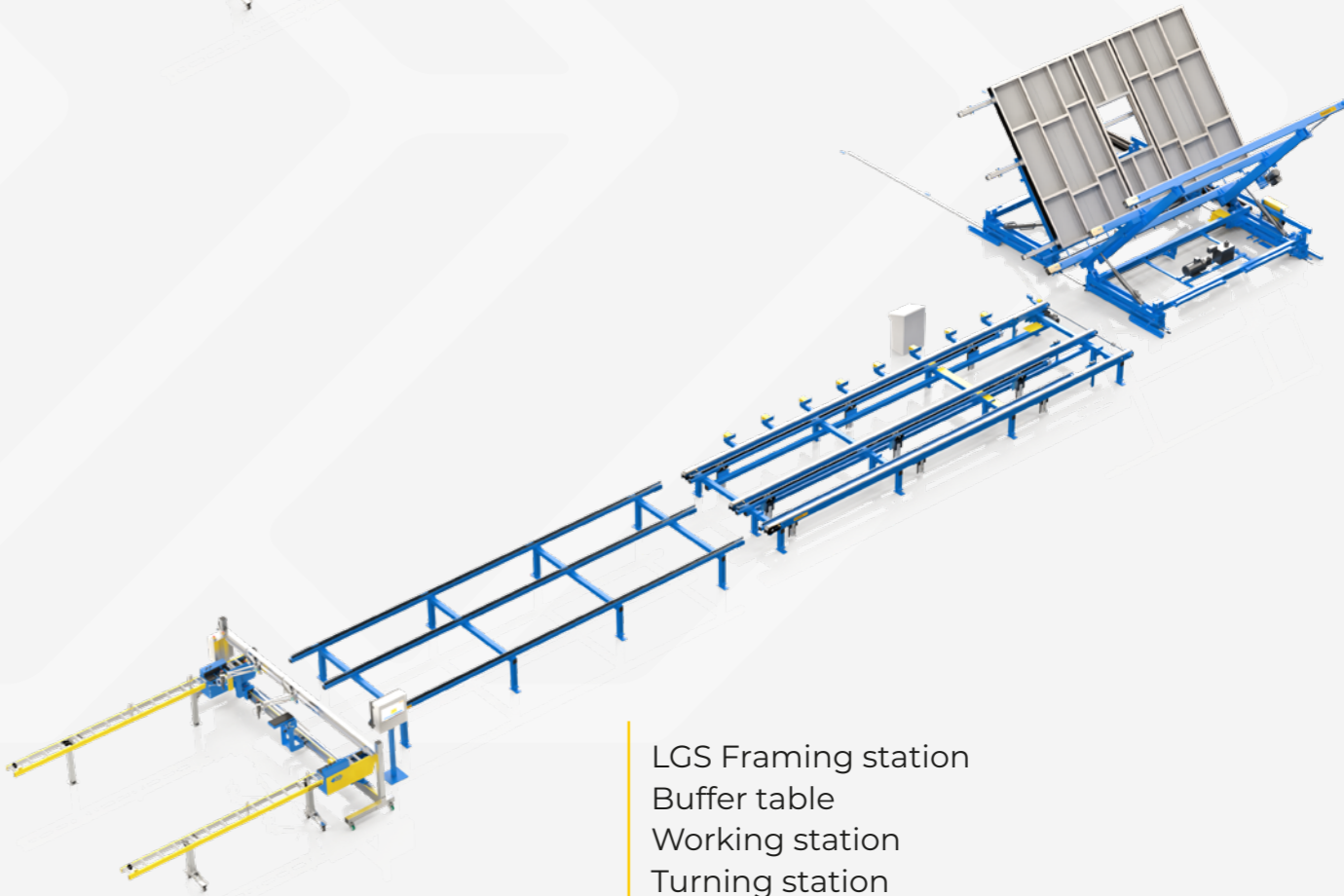
LGS Framing station  
Outfeed



LGS Framing station  
Buffer table  
Working station



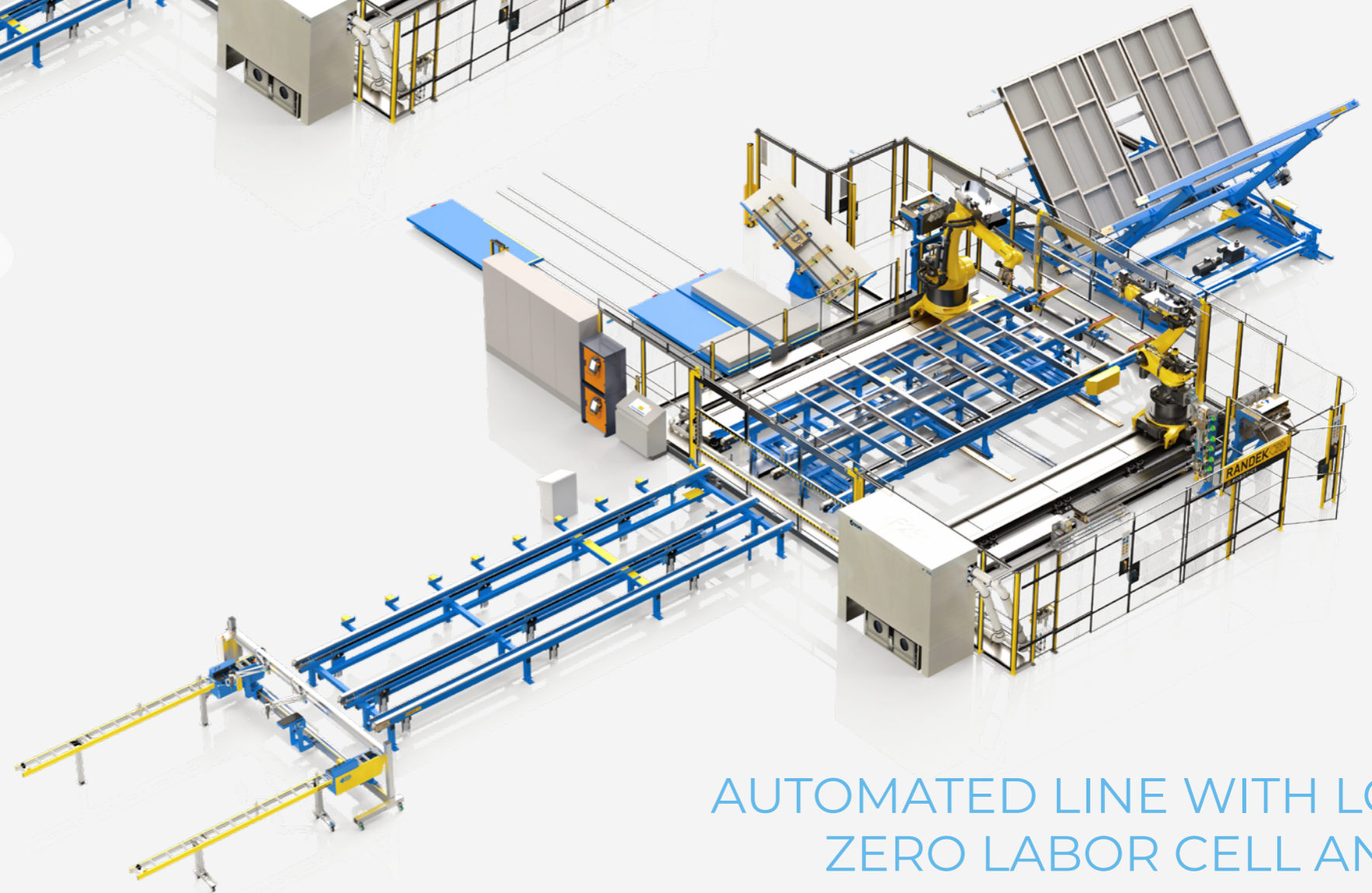
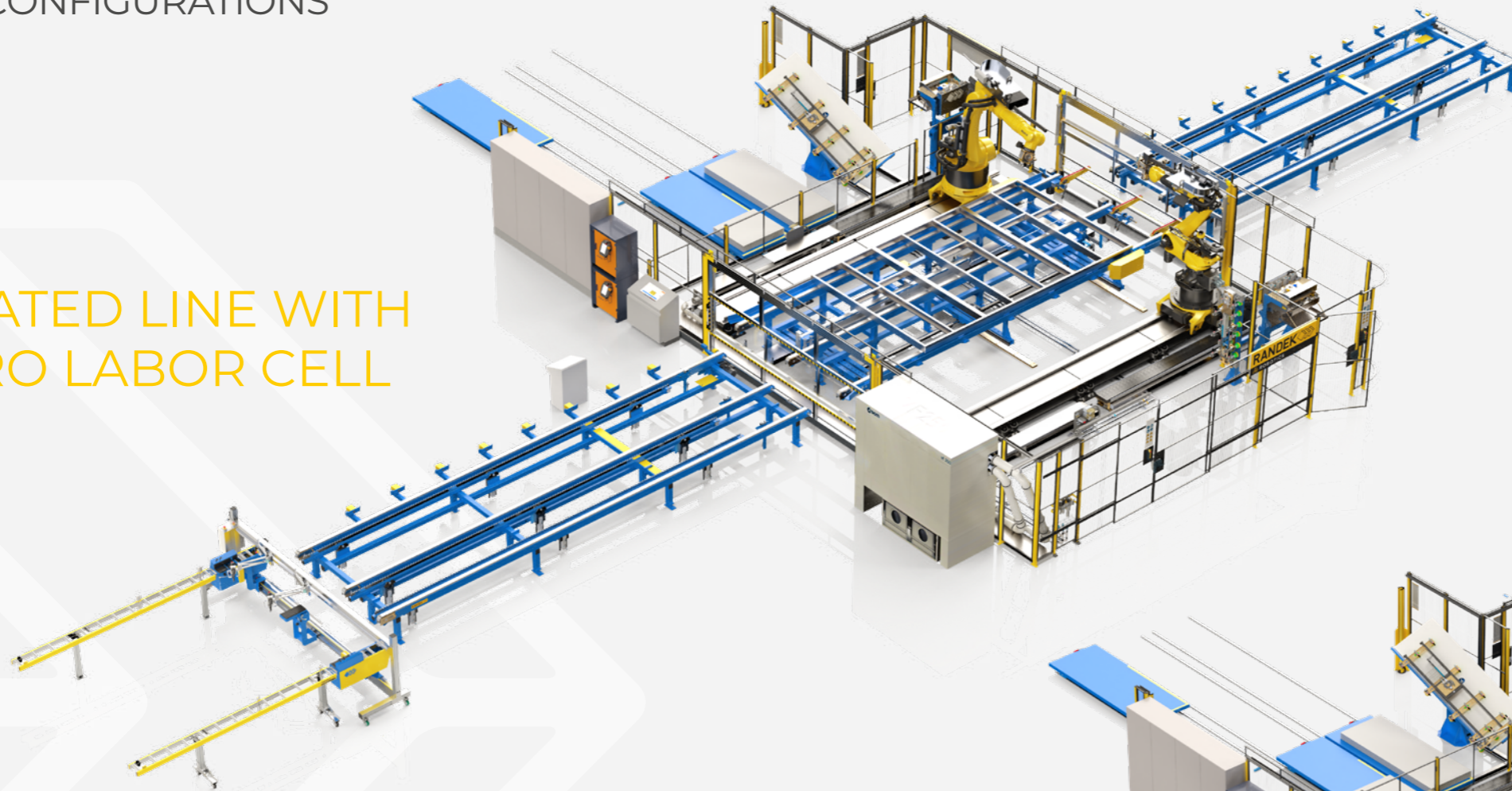
LGS Framing station  
Buffer table



LGS Framing station  
Buffer table  
Working station  
Turning station

## EXAMPLE CONFIGURATIONS

### AUTOMATED LINE WITH LGS ZERO LABOR CELL



### AUTOMATED LINE WITH LGS ZERO LABOR CELL AND A TURNING SEQUENCE



#### CUSTOMER SUPPORT

WE PROVIDE HIGH QUALITY SERVICE  
THROUGH KNOWLEDGEABLE AND  
RESPONSIVE TECHNICAL SUPPORT.

# SWEDISH QUALITY LASTS

Randek are pioneers in creating innovative automation solutions for customers within the prefabricated house manufacturing industry since the 1940s. Today, Randek is one of the world's leading suppliers of high-performance machines, robotic solutions and complete systems with production lines holding several world records in production capacity.

## PRODUCTS/SYSTEM



### CUT SAWS

Sturdy reliable cut saws delivered to house and roof truss manufacturers all over the world. From manual to fully automated



### WALL, FLOOR AND ROOF PRODUCTION LINES

A comprehensive product range with tailor-made systems for prefab manufacturing of walls, floors and ceilings. From manual to fully automated.



### ROBOTIC SYSTEM

Randek Robotics develop advanced systems in robotic automation. Delivering efficiency to customers in Europe, China, North and South America since the 1990s.



### ROOF TRUSS SYSTEM

Equipment for traditional and effective manufacturing of roof trusses and a revolutionising automated roof truss production system.



### BUTTERFLY TABLES

Innovative wall-turning tables. From moderate manual wall-turning tables to advanced with a range of options.

## RANDEK SERVICES



### PRESTUDY



### MAINTENANCE



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### FINANCIAL SOLUTIONS

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