



MELN



About Us

MEKEM Robot is an innovative robot technology company founded in the year 2005. As an official KUKA Partner, MEKEM increases the capacities of factories, each of which is a fortress, and supports them in raising their industrial capabilities. Our goal is to transform the world and make people's lives easier by offering advanced technology-based robotic solutions.

As MEKEM Robot, we serve our customers with our technical team specialized in robotic and non-robot automation solutions, self-thinking software (Deep learning) and business-specific system development.

With our high-quality products and services, our goal is to fully meet customer's needs and facilitate them in making their operations more efficient. The aim of our expert team, which is brought together with engineering skills, design expertise and innovative thinking, is to produce innovative ideas and projects in order to always take our customers one step ahead of their competitors.



● Promotion
Film



● Advertising
Film

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Technical Specifications

It is a system that can feed and unload 4 vertical processing centers with a single robot, working with the FIFO (First in first out) principle. Thanks to the buffer system, multiple products can be fed.

Thanks to the turning unit on the output part, the processed parts can be placed straight or reversed if desired.

Thanks to the special gripper, the sticking of the products is prevented.

The whole system can be controlled via a single screen by communicating with drilling machines.

Vertical Drilling Line Automation-Panel Feeding and Stacking Process for Vertical BHX Drilling Machine

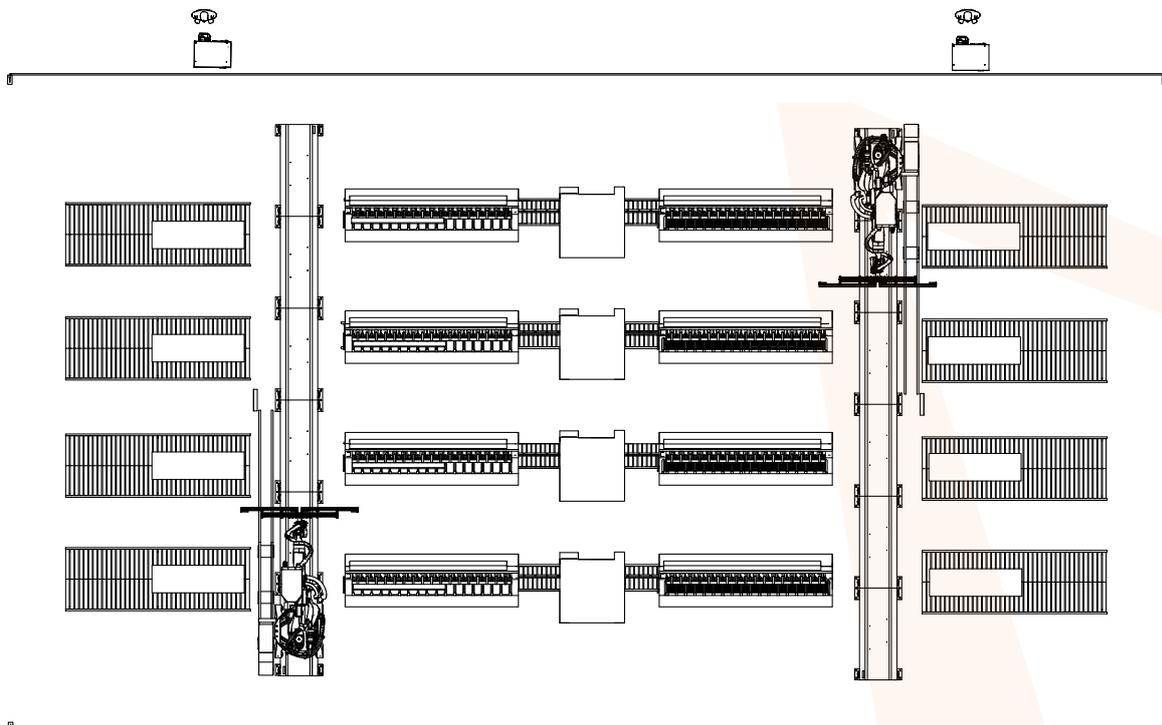
Technical Data

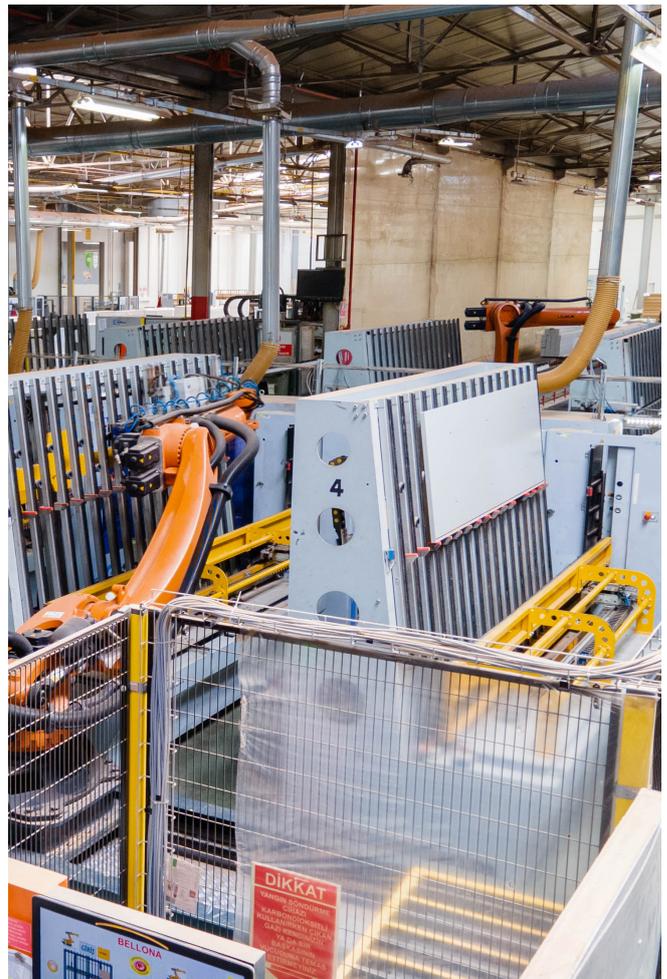
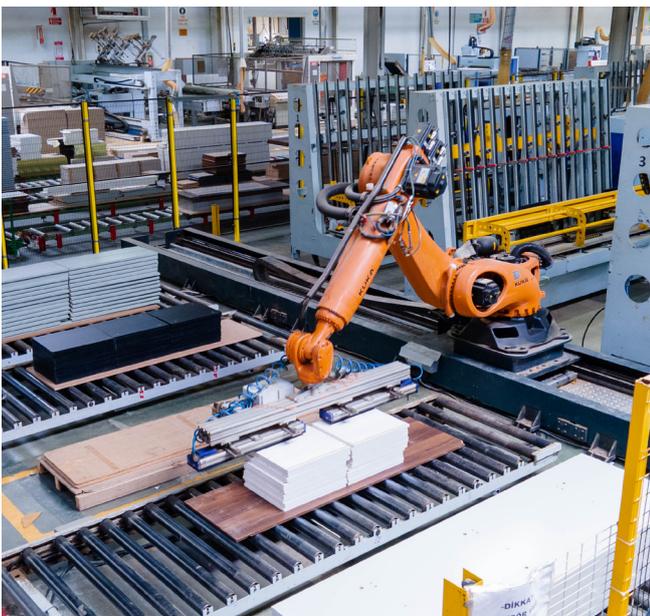
WorkPiece Length (Min-Max mm)	240mm ~ 2500mm
WorkPiece Widht (Min-Max mm)	120mm ~ 850mm
WorkPiece Thickness (Min-Max mm)	10mm ~ 60mm
WorkPiece Weight (Max Kg)	60 kg
Working Height	835 - 950mm
Stack Height Max*	1300mm
Loading and Unloading Cycle Time**	2,4 cycle/min
Stacking Patterns***	1-1, 1-2, 1-3, 1-4
Surface	Painted, Coated

* Please Contact with us for Stcking Height

** The speed may change according to product dimensions and stacking shape

*** Please Contact with us for Stacking Options





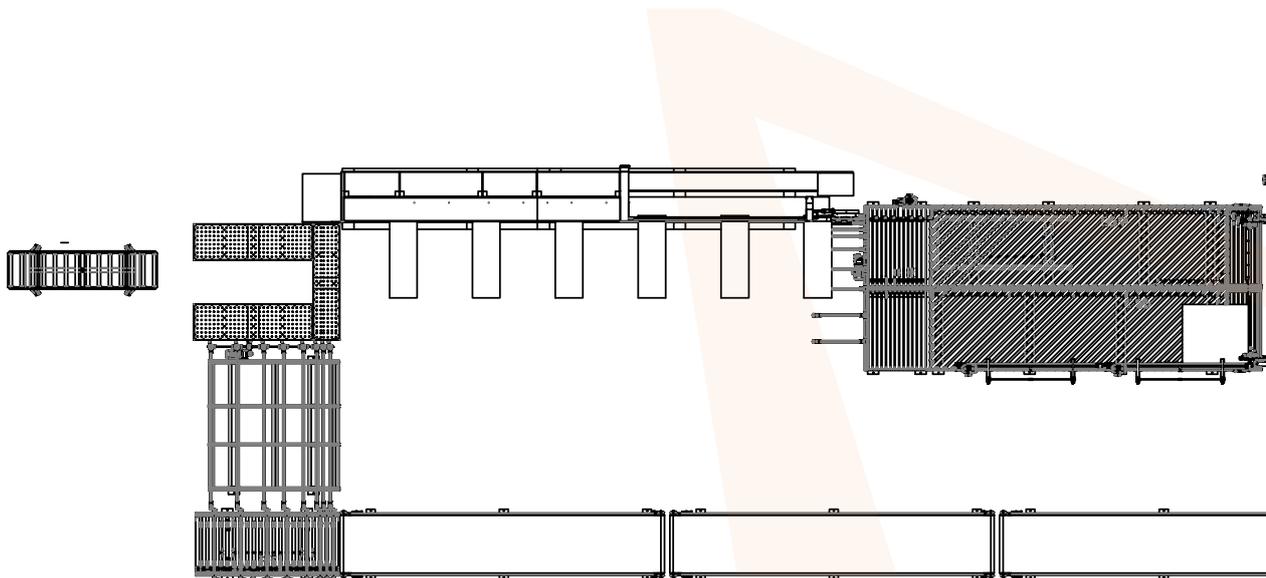
Application
Video

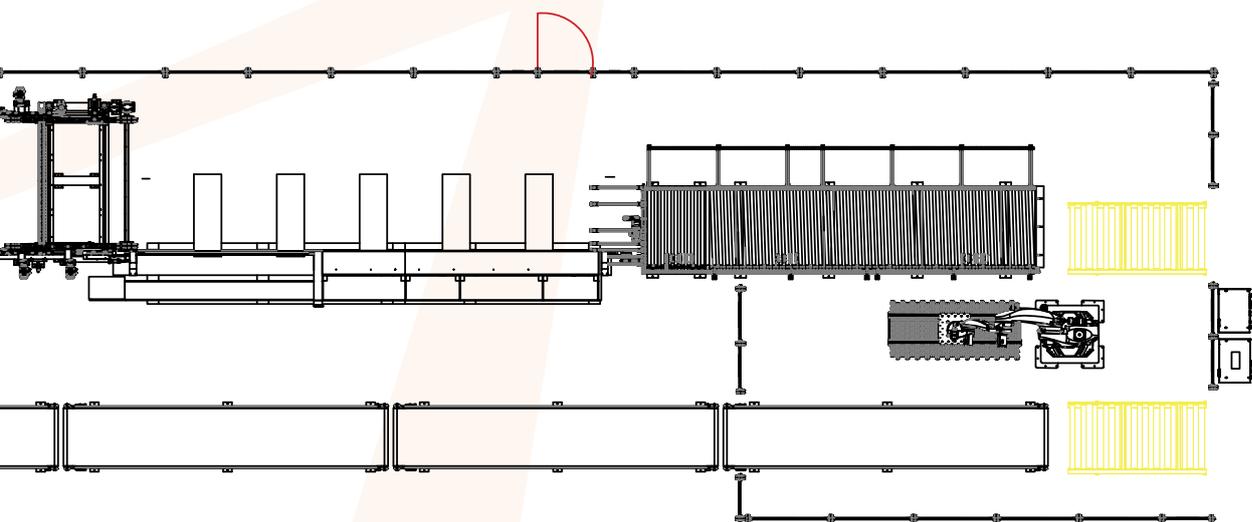


Technical Specifications

The MEKEM Centering system combines two separate single-edge banding machines fully automatically. Depending on the operator's choice, the system can either perform stacking after two edges are banded or feed to the boomerang system with help of the robot for banding four edges.

Robotic Boomerang Double Edge Banding System	
Technical Data	
WorkPiece Length (Min -Max mm)	240mm ~ 2500mm
WorkPiece Width (Min -Max mm)	120mm ~ 2400mm
WorkPiece Thickness (Min -Max mm)	8mm ~ 40mm
WorkPiece Weight (Max Kg)	50 kg
Weight per unit area max. [kg/m ²]	25
Working height [mm]	835 - 950mm
Progress speed [m/min]*	15m/min ~ 25m/min
4-sided processing*min.product length [mm]	240x240 mm
4-sided processing*max.product length [mm]	2400x2500 mm
Distance between two parts [mm]	400 mm
Distance between two parts [mm]	





Application
Video

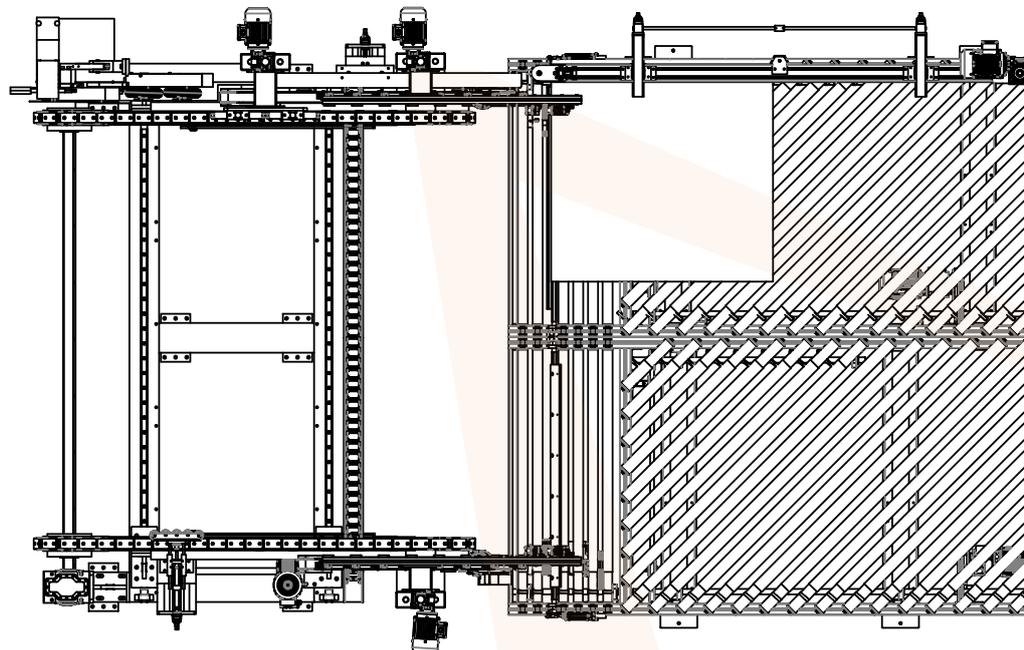


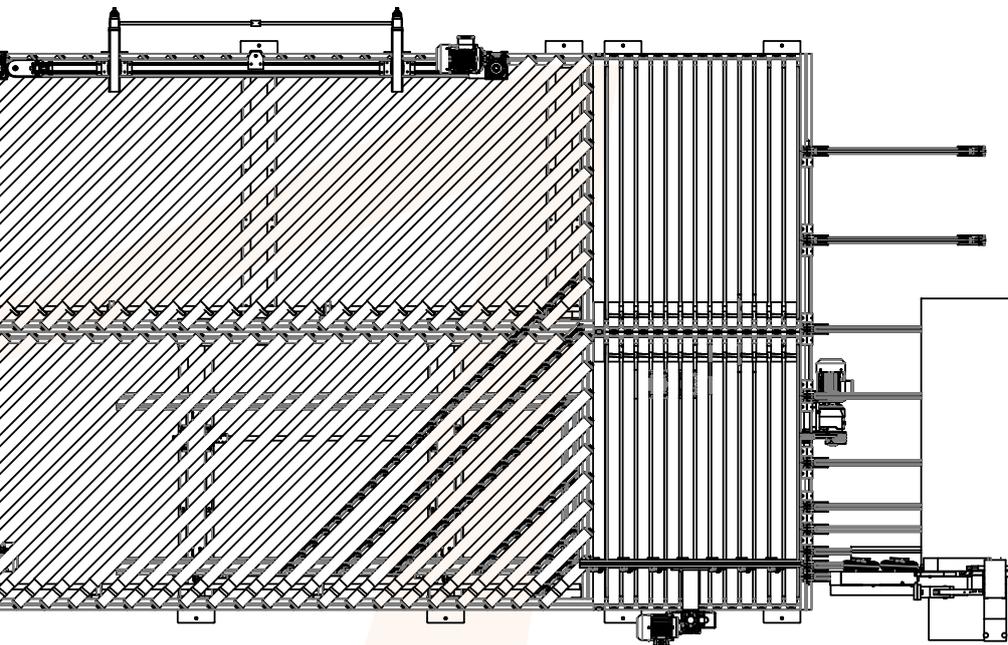
Technical Specifications

It is a fully automatic system that is positioned between two single edge banding machines and communicated with edge banding machines. The system can be adjusted automatically according to the entered size in part transitions and communicates with two banding machines.

It is a user-friendly system that increases production speed and prevents unnecessary work loss.

Automatic Centering Edge Banding Feeding Machine	
Technical Data	
WorkPiece Length (Min -Max mm)	240mm ~ 2500mm
WorkPiece Width (Min -Max mm)	120mm ~ 2400mm
WorkPiece Thickness (Min -Max mm)	8mm ~ 40mm
WorkPiece Weight (Max Kg)	50 kg
Weight per unit area max. [kg/m ²]	25
Working height [mm]	835 - 950mm
Progress speed [m/min]*	15m/min ~ 25m/min
4-sided processing*min.product length [mm]	240x240 mm
4-sided processing*max.product length [mm]	2400x2500 mm
Distance between two parts [mm]	400 mm
Distance between two parts [mm]	





Application
Video



Technical Specifications

Different products packed on product preparation tables are entered into the production line with Mekem Traffic control software. The product is kept in the buffer zones according to the traffic on the line, and then enters the shrinking machine and then the oven and comes to the robot.

The information of the mixed products arriving on the line is transferred to the robot through a barcode reader. Using a specially designed automatically adjustable gripper for packaging, the products are taken from the line and arranged on the related pallet.

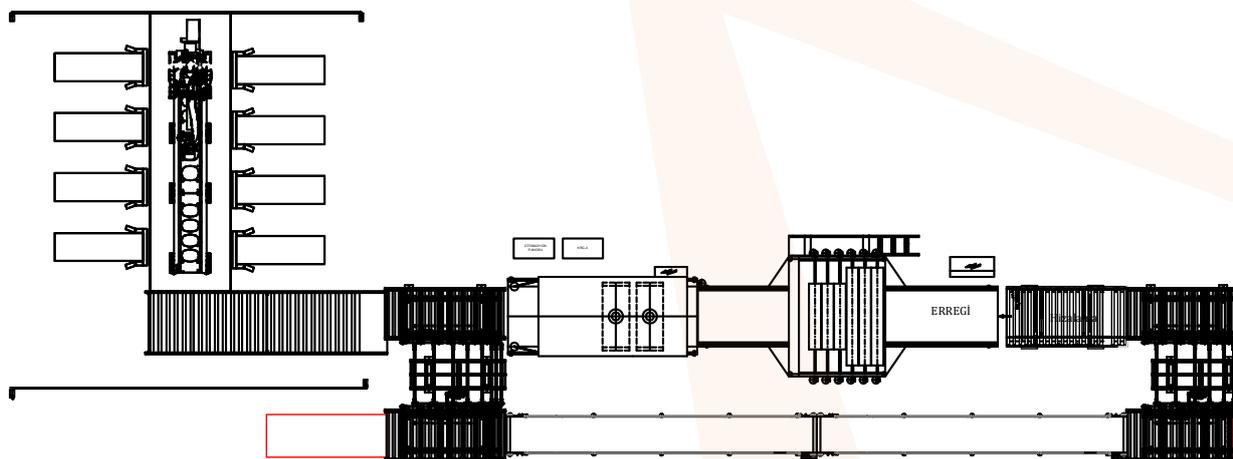
The barcodes of the products always facing outward is achieved through the algorithm programmed in the robot.

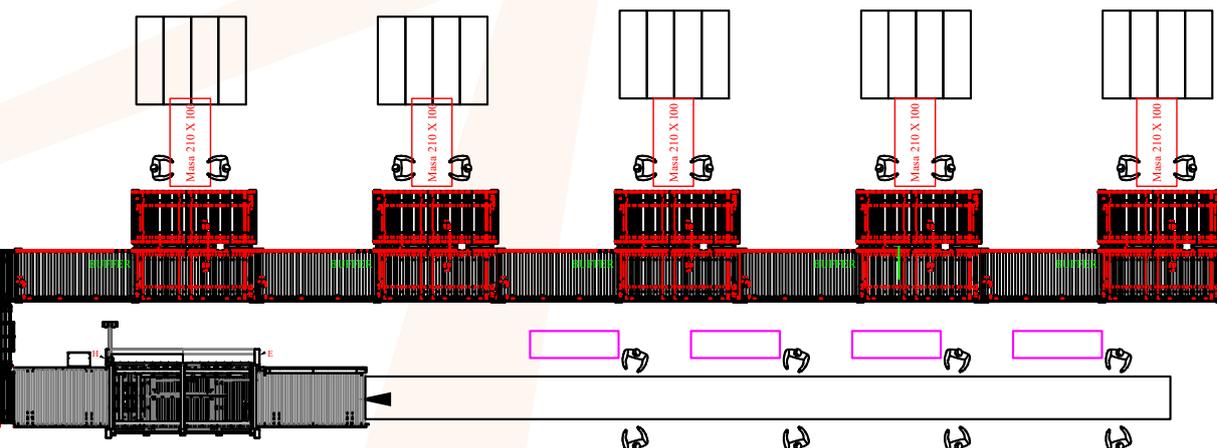
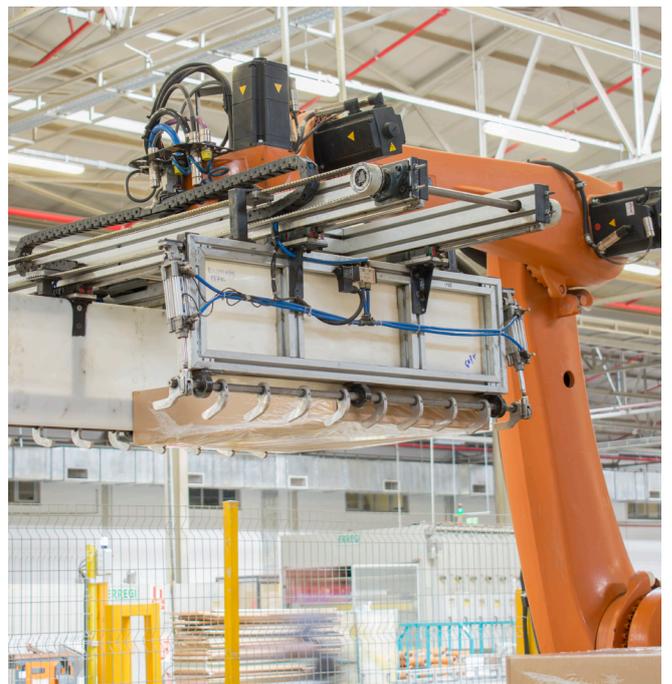
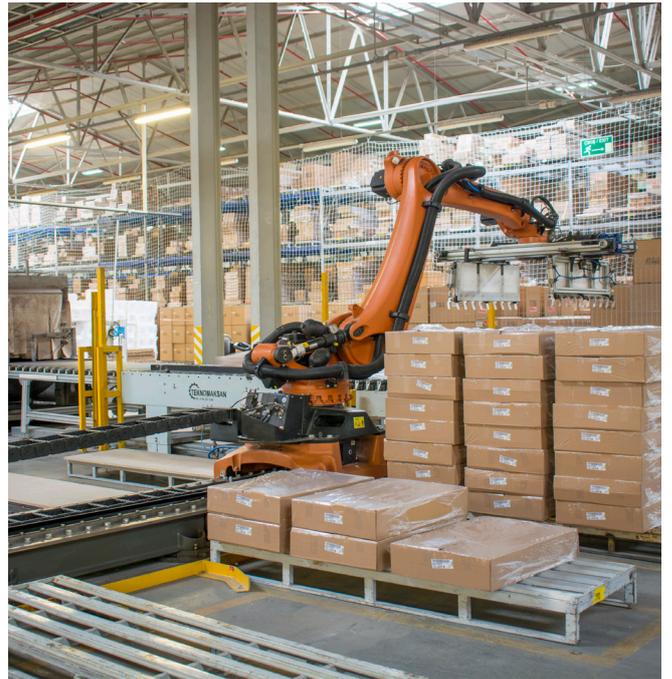
Packing Line	
Technical Data	
WorkPiece Lenght (Min-Max mm)	500mm ~ 3000mm
WorkPiece Widht (Min-Max mm)	200mm ~ 1250mm
WorkPiece Thickness (Min-Max mm)	20mm ~ 250mm
WorkPiece Weight (Max Kg)	60 kg
Working Height	835 - 950mm
Stack Height Max*	1300mm
Loading and Unloading Cycle Time**	5 cycle/min
Stacking Patterns***	1-1, 1-2, 1-3, 1-4

* Please Contact with us for Stcking Height

** The speed may change according to product dimensions and stacking shape

*** Please Contact with us for Stacking Options





Application
Video







Technical Specifications

It is an Automatic Four-Edge Banding Line. Products fed through the long edge, either singularly or in multiples, by a robot, are edge banded on all four edges using MEKEM Conveyors, Divider system, and conical rotations with the assistance of MEKEM Traffic Control software.

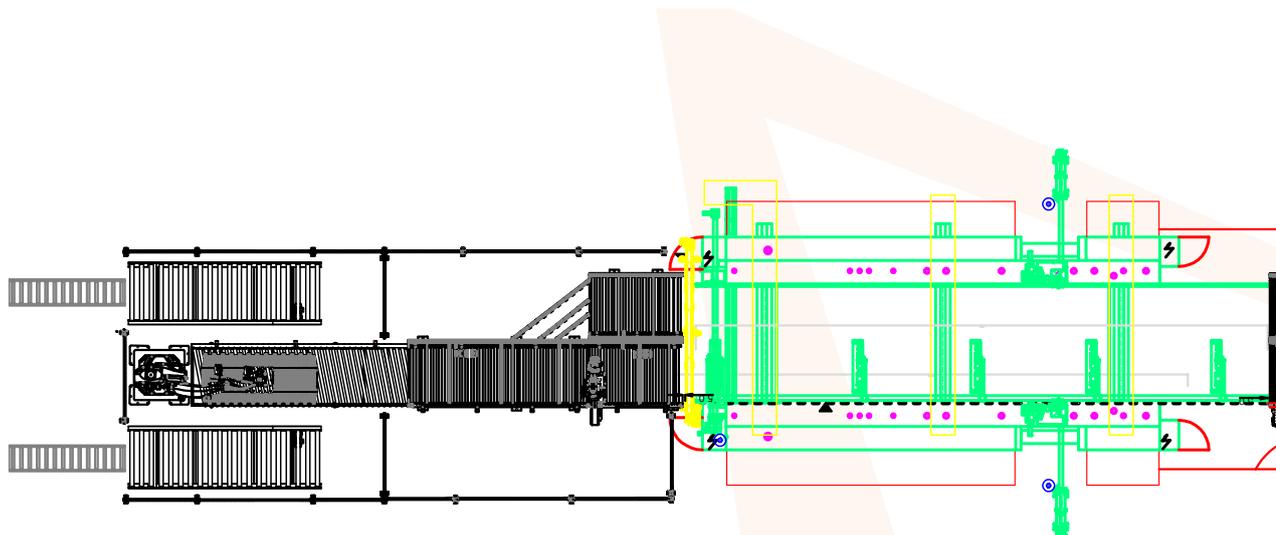
The finished products are stacked using the stacking robot at the end of the line and discharged from the system.

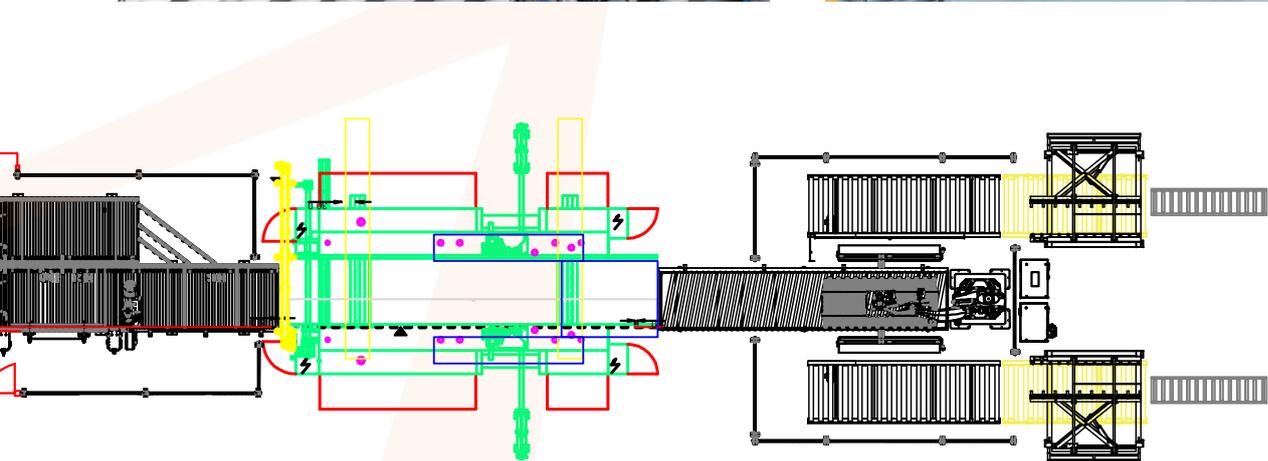
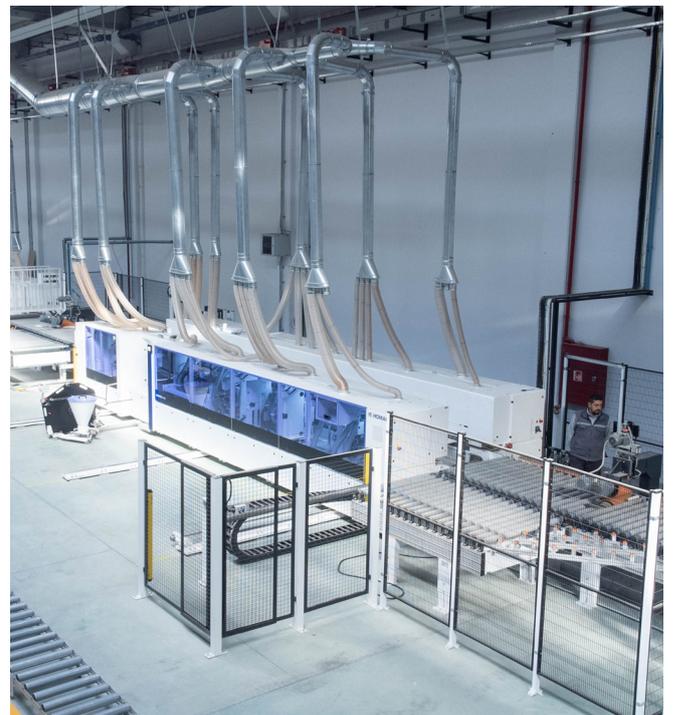
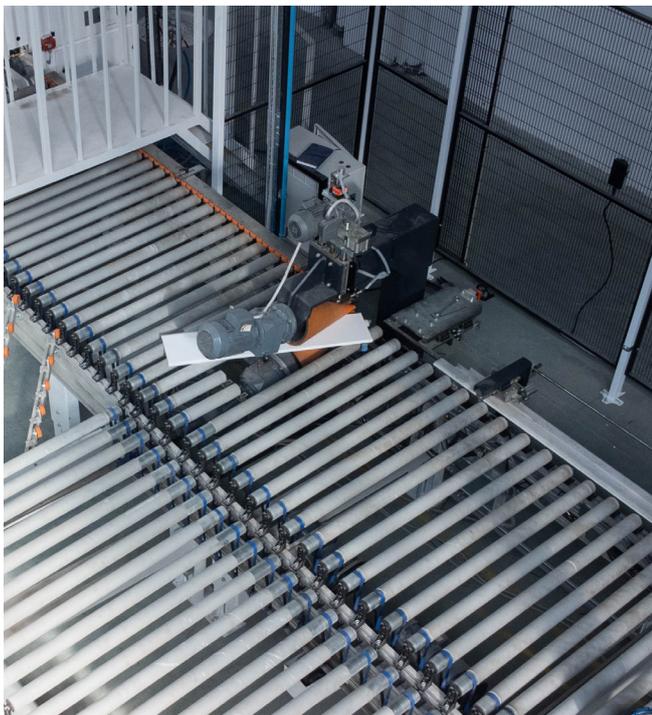
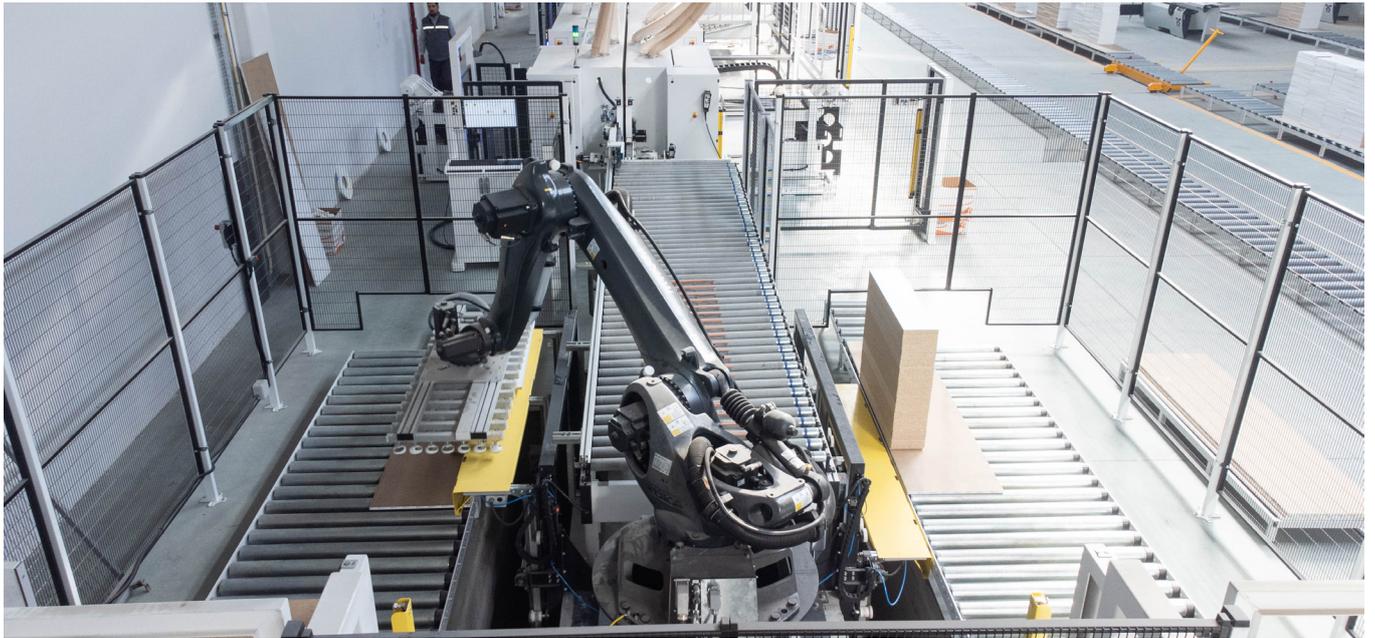
Full Edge Banding Line	
Technical Data	
WorkPiece Length (Min-Max mm)	240mm ~ 2400mm
WorkPiece Widht (Min-Max mm)	300mm ~ 1000mm
WorkPiece Thickness (Min-Max mm)	10mm ~ 60mm
WorkPiece Weight (Max Kg)	60 kg
Working Height	835 - 950mm
Stack Height Max*	1300mm
Loading and Unloading Cycle Time**	10 ~ 14 cycle/min
Stacking Patterns***	1-1, 1-2, 1-3, 1-4 / 2-1, 2-2, 2-3, 2-4
Surface	Painted, Coated

* Please Contact with us for Stcking Height

** The speed may change according to product dimensions and stacking shape

*** Please Contact with us for Stacking Options





Application
Video



Technical Specifications

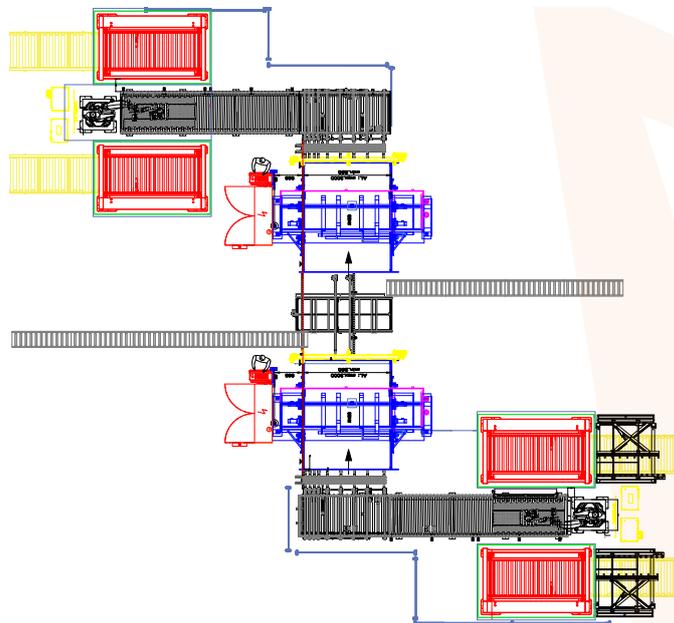
- The automatic horizontal drilling line is the Feed and Discharge system.
- Products are placed onto conveyors with the help of a robot, feeding the hole drilling machines, and processed parts are stacked using a robot in this system.
- Thanks to the ability of robots to work in dual zones, they can continuously feed and unload products without stopping. It can work with either a dual drilling machine or a single drilling machine.
- If there are two drilling machines in the system, these drilling machines can work separately.

Full Automatic Horizontal Drilling Line	
Technical Data	
WorkPiece Length (Min-Max mm)	240mm ~ 2400mm
WorkPiece Widht (Min-Max mm)	200mm ~ 1000mm
WorkPiece Thickness (Min-Max mm)	10mm ~ 60mm
WorkPiece Weight (Max Kg)	60 kg
Working Height	835 - 950mm
Stack Height Max*	1300mm
Robot Cycle Time**	10 ~ 14 cycle/min
Loading and Unloading Cycle Time**	9 ~ 20 cycle/min
Stacking Patterns***	1-1, 1-2, 1-3, 1-4 / 2-1, 2-2, 2-3, 2-4
Surface	Painted, Coated

* Please Contact with us for Stcking Height

** The speed may change according to product dimensions and stacking shape

*** Please Contact with us for Stacking Options





Application
Video



Technical Specifications

The products on the pallet, which are created in a chaotic order with different widths, lengths and the same thickness, can be fed to the machines that will process in a certain order, with the algorithm developed by Mekem.

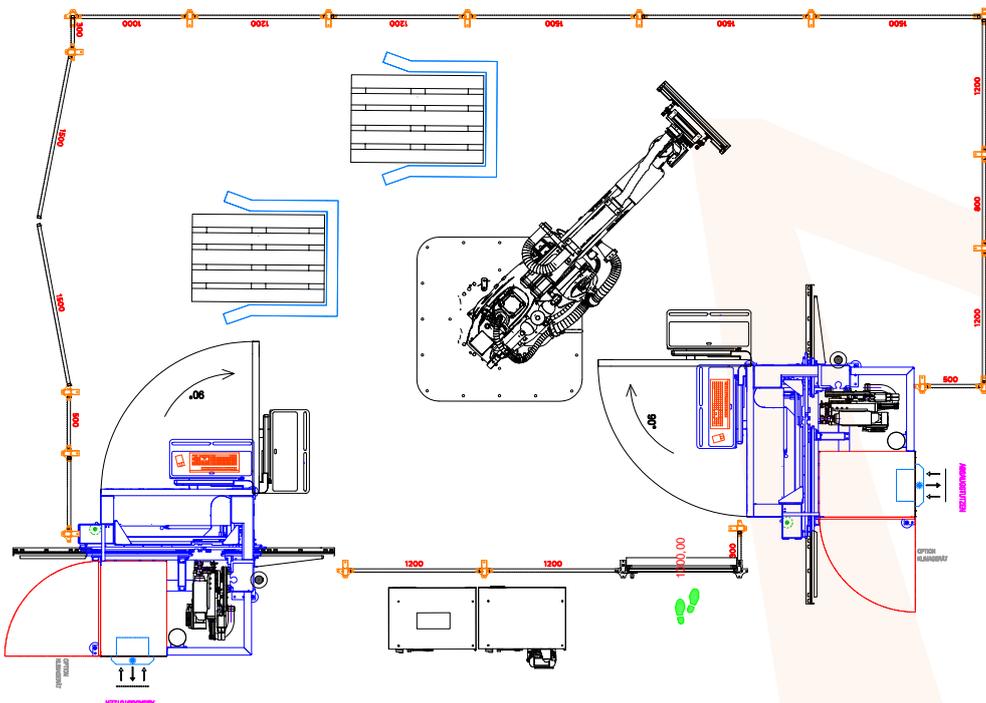
Products fed in a chaotic manner are processed in the relevant machine and then stacked in a specific order onto a single pallet by a robot.

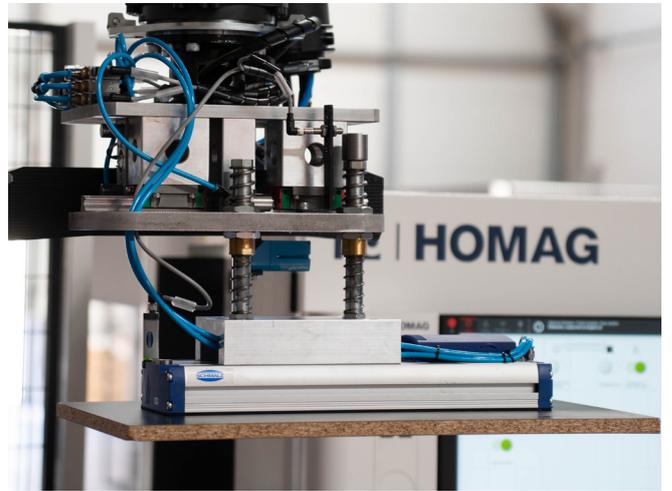
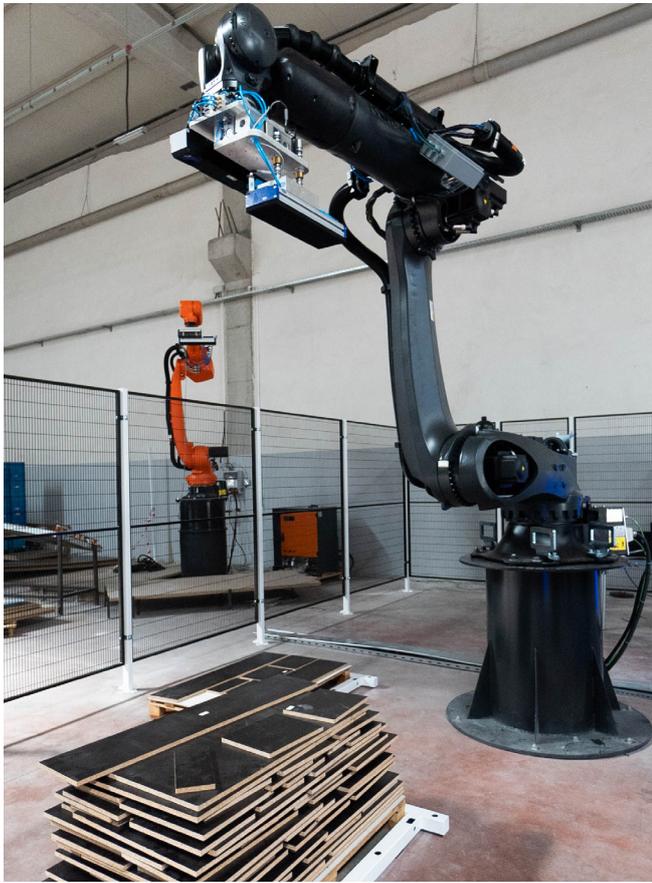
In this way, it is possible to work with products of different sizes at the same time, and a flexible production system is provided to the manufacturer.

Robotic Chaotic Feeding and Palletizing	
Technical Data	
WorkPiece Length (Min-Max mm)	300mm ~ 2500mm
WorkPiece Width (Min-Max mm)	200mm ~ 850mm
WorkPiece Thickness (Min-Max mm)	10mm ~ 60mm
WorkPiece Weight (Max Kg)	40 kg
Working Height	835 - 950mm
Stack Height Max*	1300mm
Loading and Unloading Cycle Time**	2 cycle/min
Surface	Painted, Coated

* Please Contact with us for Stcking Height

** The speed may change according to product dimensions and stacking shape





Application
Video

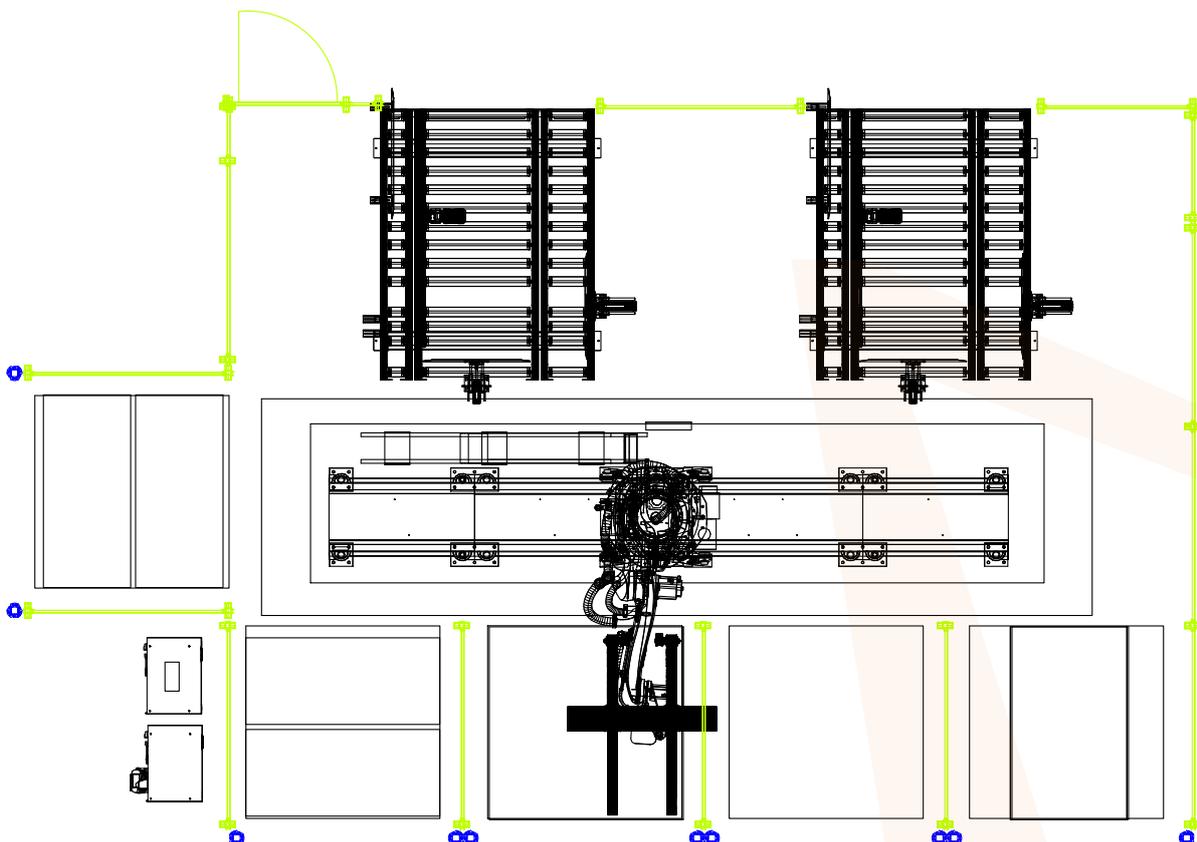


Technical Specifications

Products of different types and sizes coming from two lines are taken from the conveyor using specially designed conveyors and grippers by Mekem, and then stacked on five or more pallets, as desired. The number of pallets and the length of the slider can vary based on the product diversity. The products can be stacked both on top of each other and using a locking system.

Mattress Line	
Technical Data	
WorkPiece Length (Min-Max mm)	1800mm ~ 2000mm
WorkPiece Widht (Min-Max mm)	700mm ~ 2000mm
WorkPiece Thickness (Min-Max mm)	220mm ~ 360mm
WorkPiece Weight (Max Kg)	55 kg
Working Height	835 - 950mm
Stack Height Max*	2000mm
Robot Cycle Time**	3 cycle/min
Loading and Unloading Cycle Time**	9 ~ 20 cycle/min
Stacking Patterns***	1-1, 2-2

* Please Contact with us for Stcking Height





Application
Video







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