



# FOAMATOMATIC

INTERNATIONAL TECHNOLOGIES

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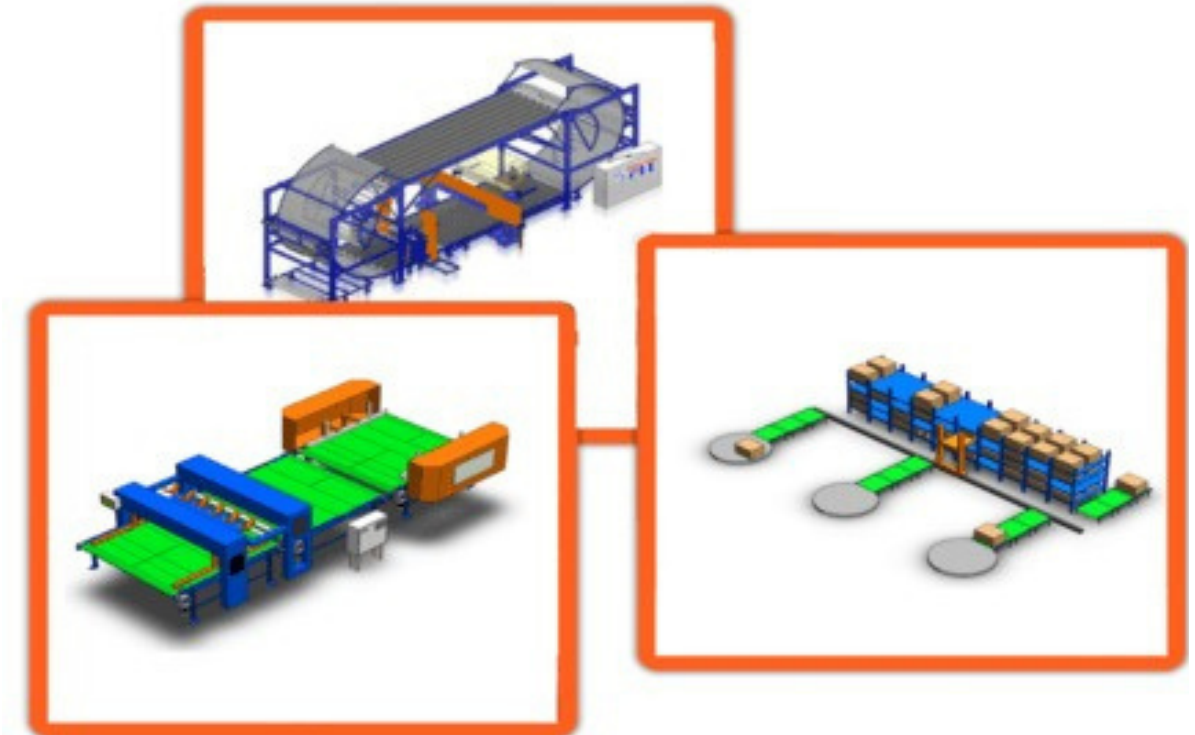
## About us

**Foamatomatic International Technologies Pvt. Ltd. is a dynamic and innovative engineering and automation company specializing in the polyurethane foam and mattress industry.**

**With a commitment to excellence, cutting-edge technology, and a passion for innovation, we have established ourselves as a trusted partner for businesses in this sector.**

**At Foamatomatic International Technologies, we take great pride in our expert team support. Our directors and employees have vast experience in the foam and mattress industries, coming from the same industries, bring a wealth of knowledge and insights that help shape our strategies and solutions. Their firsthand experience enables us to provide expert guidance and support to our clients, as we understand the intricacies of their operations and can anticipate their needs.**

**At Foamatomatic, our mission is to revolutionize the polyurethane foam and mattress industry through state-of-the-art engineering solutions and automation. We aim to enhance efficiency, productivity, and product quality for our clients, ultimately contributing to their success.**





# Product Overview

## *Peeling Machines*

- **Looper machine**
- **Offline Looper**
- **Continuous winder for Looper**
- **Foam roll unloading system**
- **Foam roll loading and transfer system**
- **Roll compression machine**
- **Foam jointing machine**

## *Mattress Machines*

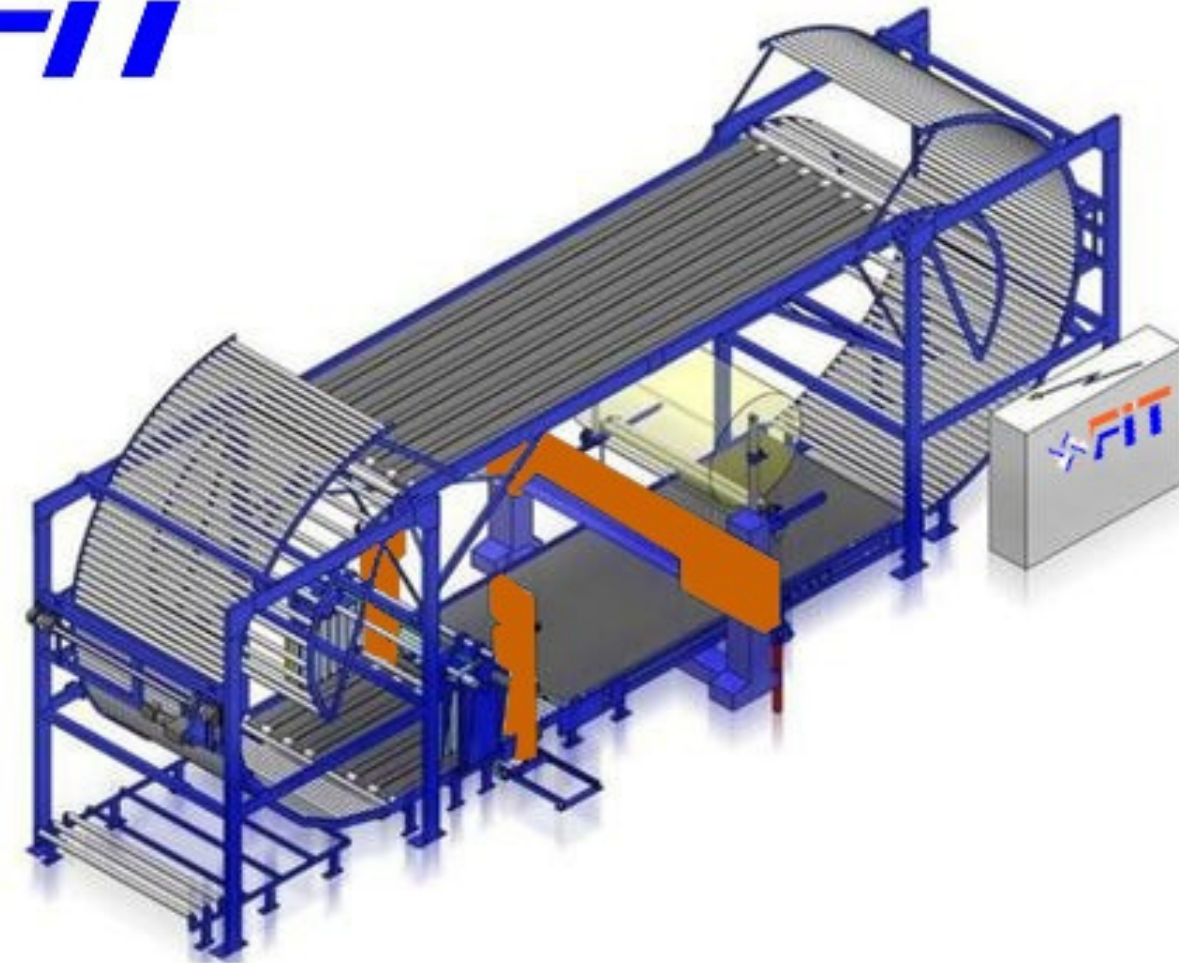
- **Automatic mattress packing machine**
- **Glue spray line**
- **Center/Belly band machine**
- **Quality table and mattress flipper**
- **Mattress pick and place system**
- **Mattress stacker**
- **Mattress filling machine**

## *General Plant Machines*

- **Small block automation**
- **Small block compression machine**
- **Long block weighing system**
- **Foam skin winder**
- **Leftover paper winder for Foaming**
- **Auto silicon spray system for circular**
- **Hydraulic tilter and Pop-up conveyerization**
- **Foam sheet insertion and packing**
- **Chemical tank level automation and control**
- **Compress bailing machine**

## Specification

Block Width	2300 MM
Block Height	1200 MM
Block Length	30/60 Meter
Compressed Air Range	6-8 Bar
Cutting Angle Range	0-6 Degree
Cutting Range	2 MM to 25 MM
Cutting Tolerance	0.2 MM
Knife Size	80X0.6 mm
Max Cutting Speed	120 Meter/Minute *
Max Winding Diameter	2000 MM
Power Supply	415 volt, 3 Phase, 50 Hz



## Looper Machine

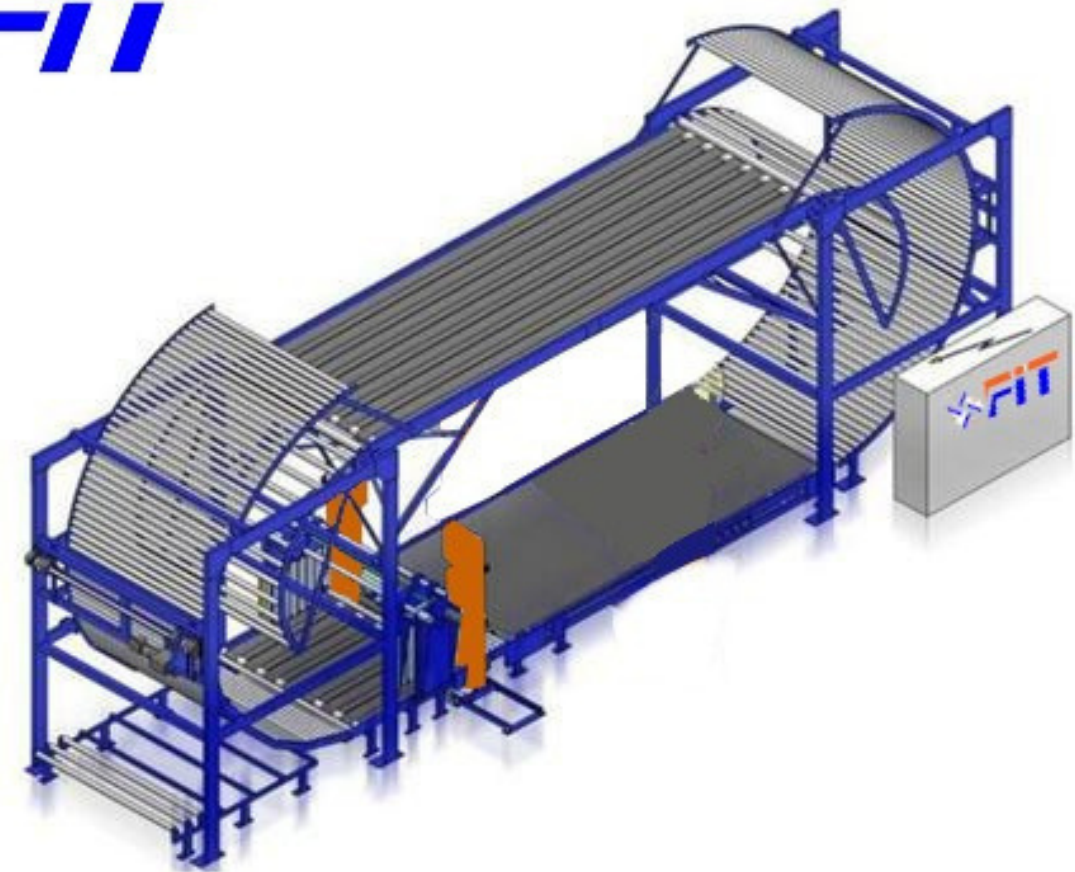
# Description

- First ever Indigenous Looper is designed for splitting of long blocks up to 60 meter in Roll form at a max cutting speed of 120 Meter/minute. \*
- Endlessly glued soft, flexible foam long blocks can be slit to rolls of 2 mm – 25 mm thickness by this machine. Cutting materials PUR foams.
- The machine is equipped with a manual cutting angle adjustment of 0° – 6°.
- The knife is equipped with a grinding unit with cup grinding stones for constant knife sharpening.
- The machine is equipped with a grinding dust extraction unit. A casing contains a ventilator, a dust collector and a dust container.
- An endless band knife running over knife wheels of 750 mm diameter is used as cutting tool. The knife running wheels are smooth and a special knife guiding system positions the knife point exactly.
- “The feeding bridge in the stationary tower is electrically controlled and is used for opening and closing the circular track. It allows the feeding of the block into the long splitting machine. Moveable by motor-driven rope winches.”
- A Block straightner which is adjustable by motor is installed in front of the cutting unit. It is used for an accurate guiding of the block and for fixing the block during the gluing of the long block.
- Machine is equipped with Winding unit with two winding rollers and supporting spindles, max. winding diameter 2.0 m.
- “The circular knife cross cutter is positioned on the platform of the winding unit in order to be able to cut off the foil by motor after the winding process. The foil cutter works with a circular knife which is moved by a motor over the working width.”
- “The machine is controlled by a high-capacity PLC. In conjunction with the latest servo and frequency inverter technology this is an optimal automation solution. All operating controls of the machine are in a control cabinet placed near the cutting unit.”



## Specification

Block Width	2300 MM
Block Height	1200 MM
Block Length	30/60 Meter
Compressed Air Range	6-8 Bar
Power Supply	415 volt, 3 Phase, 50 Hz
Variable Conveyor Speed Rang	0-15 Meter/Minute



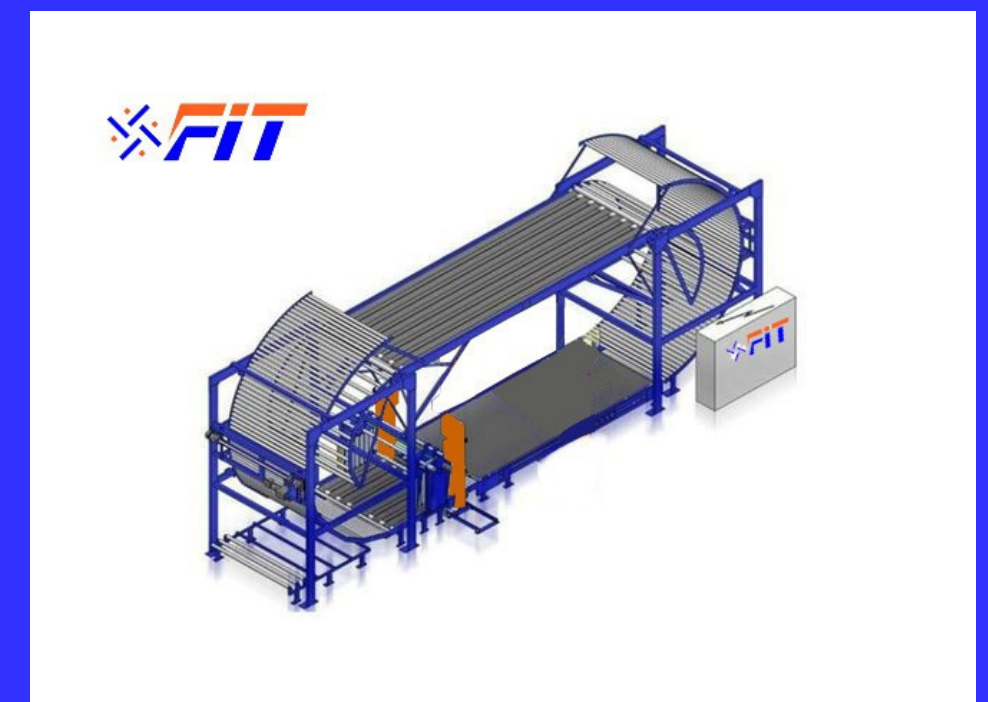
## Offline Looper Machine

# Offline Looper Machine



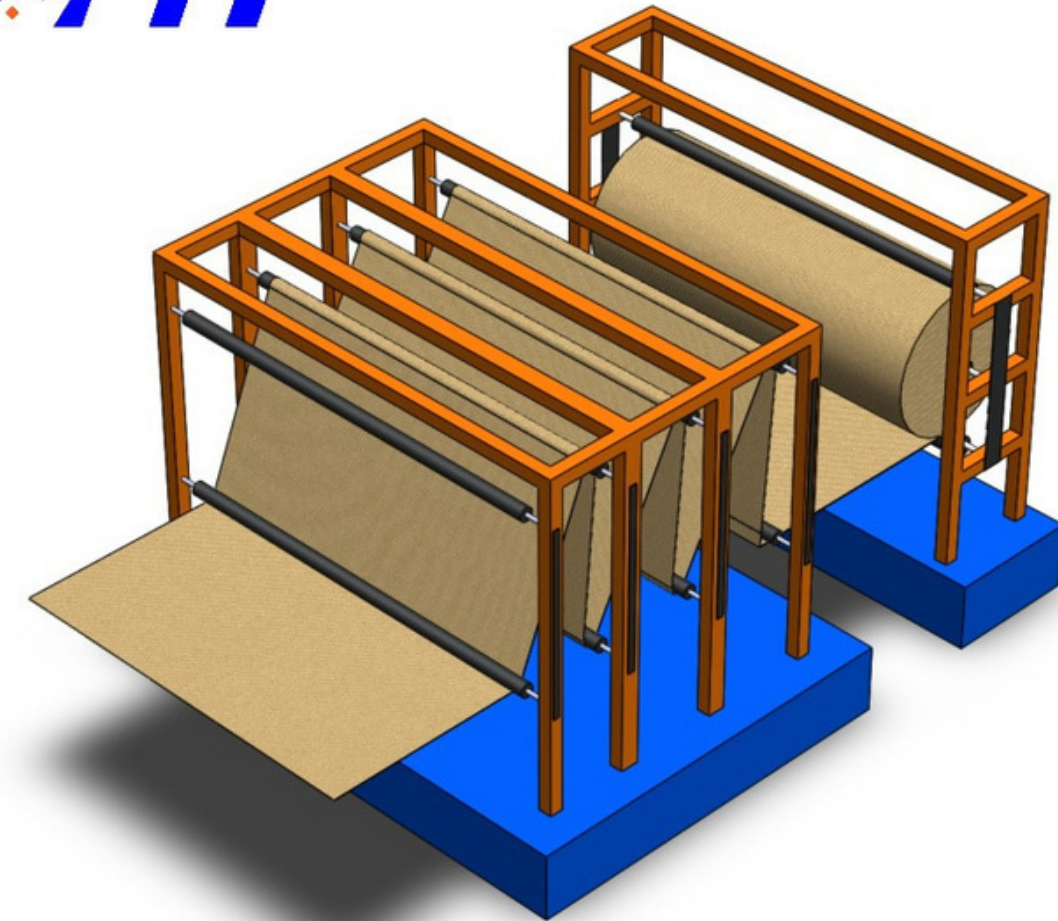
## Description

- This loop is designed to do offline trimming of Longblocks up to 60 meter, An offline trimming system allows for the trimming process to be performed separately from the main production line, which can improve efficiency
- This can save processing time by Half an hour per long block, Estimated 30 to 40 % productivity increase.
- The long block to be Trimmed is fed to the trimming portal by a conveyor system equipped with rollers which is located in two reinforced semi-circular towers
- A motor-driven block straightner installed in front of the trimming unit serves for an accurate block guiding and for trimmmig the block
- Max speed to support fine trimming is 15 Meter/Minute
- Max block weight is 5 ton for 60 meter version



## Specification

Accumulator Height	2500 MM
Accumulator Length	1000 MM
Accumulator Width	2500 MM
Block Width	2300 MM
Block Height	1200 MM
Block Length	30/60 Meter
Compressed Air Range	6-8 Bar
Cutting Range	3 MM to 25 MM *
Cutting Tolerance	0.2 MM
Max Cutting Speed	90 Meter/Minute
Max Winding Diameter	2000 MM
Power Supply	415 volt, 3 Phase, 50 Hz
Roll Changeover Time	10 second

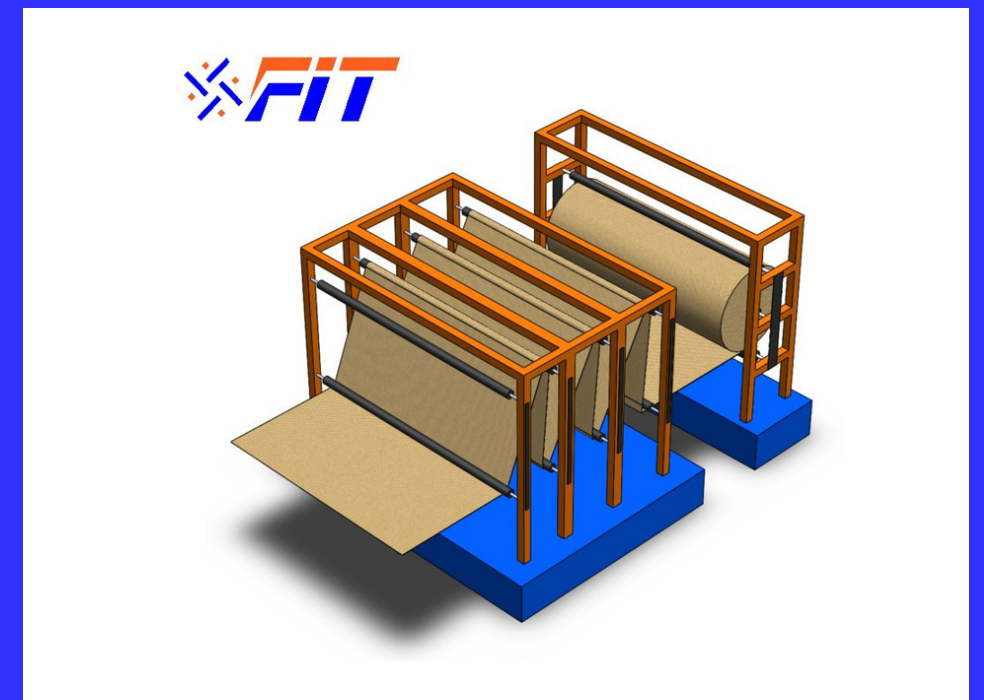


# Continuous Winding At Looper



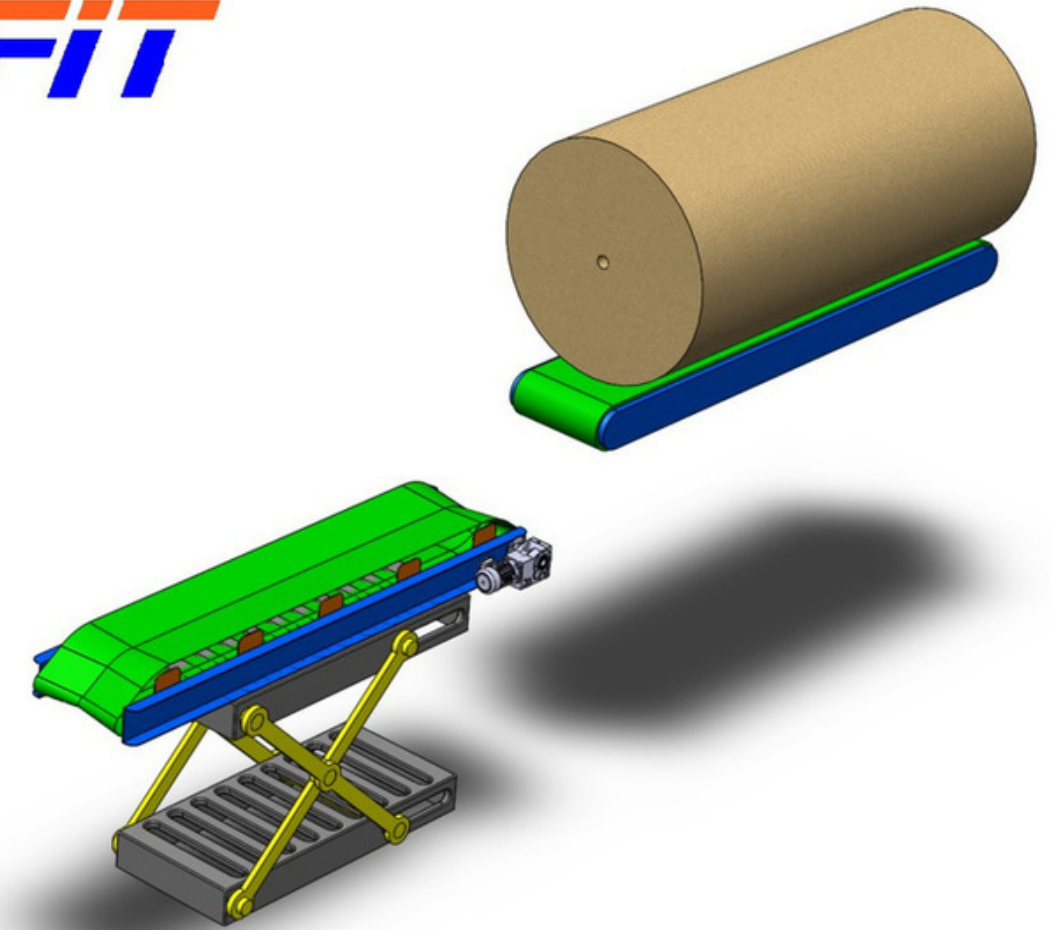
## Description

- A continuous winder is an add-on assembly that can be used to provide a continuous winding operation on an existing Looper machine. The continuous winder can be a valuable addition to a Looper machine.
- The use of a continuous winder can help to eliminate roll changeover time loss on an existing looper machine. A continuous winder allows for the seamless and uninterrupted winding of material, reducing or eliminating the need for roll changeovers. This can help to increase production efficiency and reduce downtime, as there is no longer a need to stop and change out the roll when it runs out.
- Thanks to the special foam accumulator, helpful in accumulating foil during the changeover of foam rolls, potentially reducing downtime and increasing production efficiency (Estimated 10% productivity increase). The foam accumulator helps to ensure a smooth and seamless transfer of the foil material from one roll to the next, minimizing any potential disruptions or delays.
- Yes, a new winder design that does not disturb the original machine can help to eliminate the need for manual roll unloading, potentially reducing the amount of manpower required. This can improve efficiency and make the process more automated.
- The maximum cutting speed of 100 meters per minute refers to the highest speed at which the material can be cut without sacrificing quality or causing damage to the cutting machine.
- A well-designed HMI can also improve the operator's experience by providing an intuitive and user-friendly interface to ensure smooth operation of backed looper and new winder.



## Specification

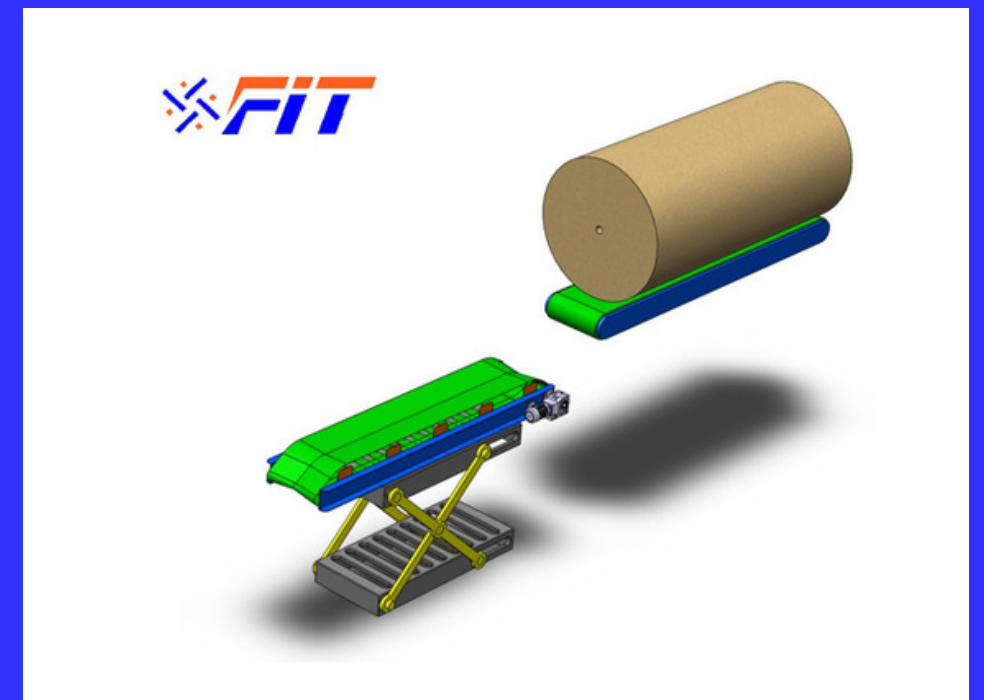
Hydraulic Power Pack	2 HP
Lift Conveyor Max Height	1.8 meter
Lift Conveyor Up-Dn Speed	4 meter /minute
Max Conveyor Speed	10 Meter/Min
Max Roll Width	2300 MM
Max Winding Diameter	2000 MM
Power Supply	415 volt AC, 3 Phase, 50 Hz



# Peeled Roll Unloading System

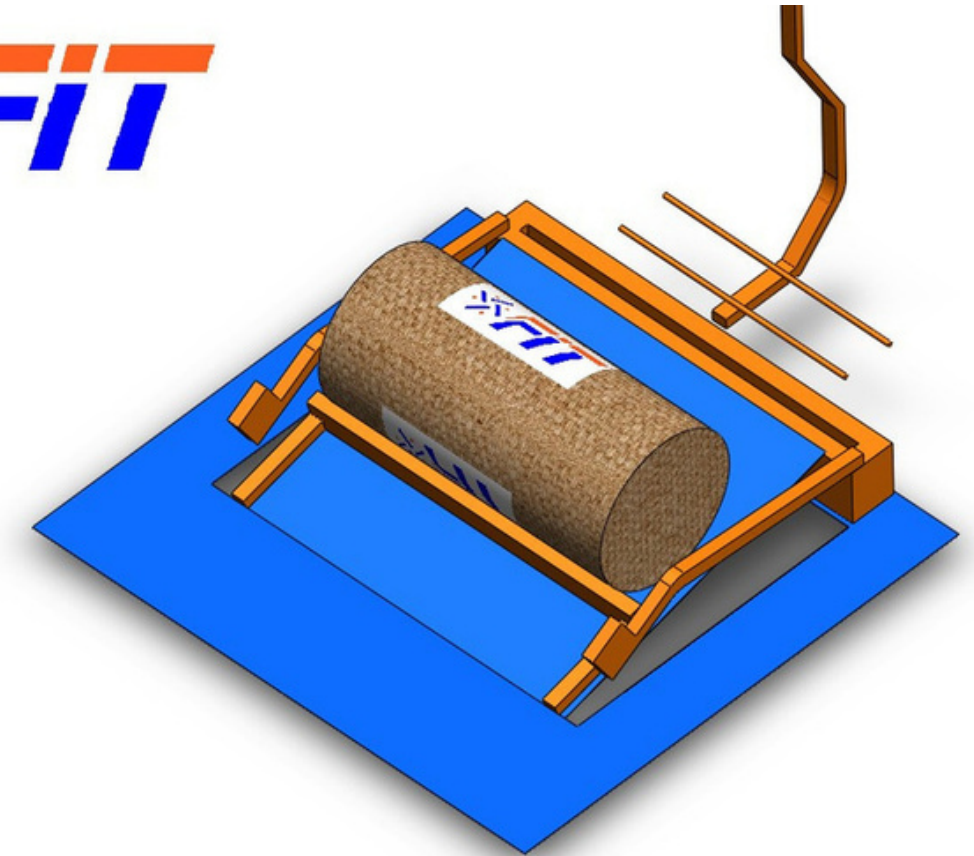
## Description

- This auto roll unloading system is also add -on assembly on your existing Looper machine, the roll can be unloaded from machine winder to floor automatically
- An idler conveyor designed to handle a maximum foam roll diameter of 2 meters can be used to transport large foam rolls with a diameter up to 2 meters. The idler conveyor uses a series of rollers, or idlers, to support the foam rolls and allow them to be moved from one location to another.
- The combination of a hydraulic vertical lift and idler conveyor helps to streamline the process of collecting and moving foam rolls, making it a useful tool for many industrial and manufacturing applications. By lifting and lowering the rolls with ease, the hydraulic vertical lift with inbuilt idler conveyor can help to improve production efficiency and reduce the risk of injury from manual handling.
- A pneumatic stopper equipped with the main conveyor can be used to hold foam rolls and prevent winded rolls from touching existing winding rolls. The pneumatic stopper is actuated by compressed air, which allows it to quickly and precisely hold the foam rolls in place.
- The maximum speed of 5 meters per minute helps to complete the roll unloading cycle efficiently and in a timely manner, ensuring that the main conveyor is available to collect the next foam roll from the winder.



## Specification

Auto Roll Alignment Infront Of Hanger	YES
Capacity Per Hanger	70 KG
Length	Customized
Max Conveyor Speed	5 Meter/Min
Max Roll Diameter To Be Transfered	2000 MM
Max Roll Width	2300 MM
Power Supply	415 volt AC, 3 Phase, 50 Hz
Type	Four wheel Overhead conveyORIZATION
Weight Hanger	22 KG



## Peeled Roll Loading And Transfer System

# Peeled Roll Loading And Transfer System



## Description

- The Foam Roll Loader is designed to lift rolls from the ground and load them onto the transfer system
- The Foam Roll Loader can handle rolls up to 2300 mm in width and provides proper centering of the rolls in line with the hanger of the transfer system.
- The electromechanical pusher provides a gentle push to the foam roll, allowing it to be dropped smoothly into the hanger of the transfer system.
- The transfer system consists of a four-wheel overhead conveyor with multiple hangers to maintain a continuous flow of roll loading and unloading at the destination.
- The hangers can handle a weight of up to 100 kg for the foam rolls, and the self-weight of each hanger is approximately 22 kg.
- To transfer the foam rolls from one location to another safely, the maximum allowed speed of the conveyor system is 5 to 7 meters per minute.



## Specification

Compressed Air Range	6-8 Bar
Cycle Time	2.5 Minute/Roll
Max Roll Dia (Input Material)	2000 MM
Power Supply	415 volt, 3 Phase, 50 Hz
Roll Volume Redction	500-900 mm <sup>3</sup>
Roll Width	2200 MM
Variable Conveyor Speed Range	0-15 Meter/Minute



# Roll Compression Machine

# Roll Compression Machine



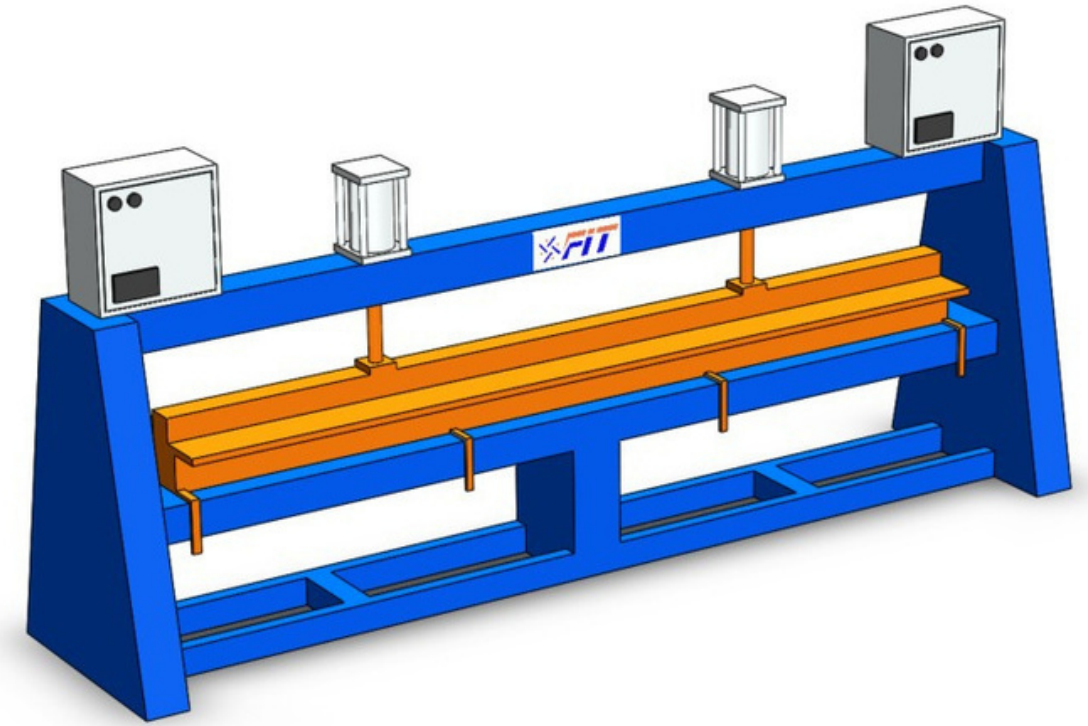
## Description

- Roll compression system for compressing the foam roll
- Belt speed is 20 meter/minute
- Supports foam roll width up to 2200 MM
- Supports foam roll diameter up to 2000 MM
- Reduction of foam roll volume from 500 mm to 900 mm depending on the type of foam.



## Specification

Control Type	Button
Joint Thickness Max	0-20mm
Joint Width Max	2150mm
Total Power	2kw
Warm Up Time Adjustment	Yes



# Foam Jointing Machine

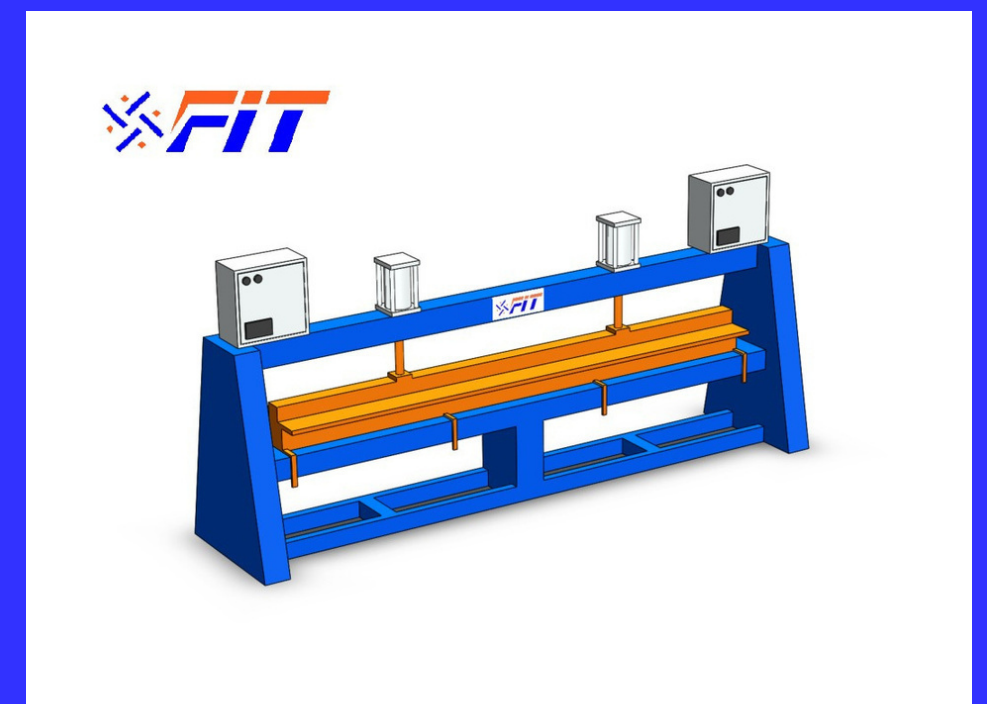


# Foam Jointing Machine



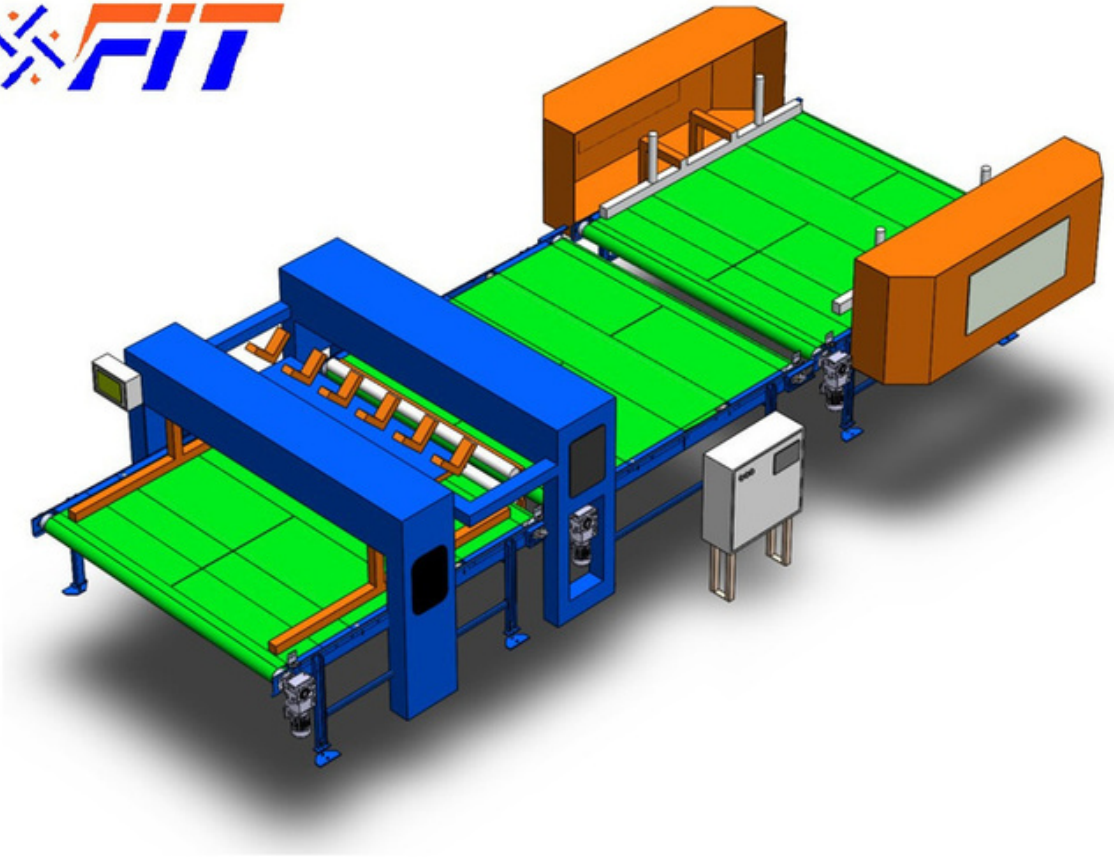
## Description

- This machine joints the foam sheet of up to 20 mm
- It consists impulse heat seal technique and pressure range of 6-8 bar which helps to bond the foam proper.
- Operator can adjust the heating and cooling time with digital timers



## Specification

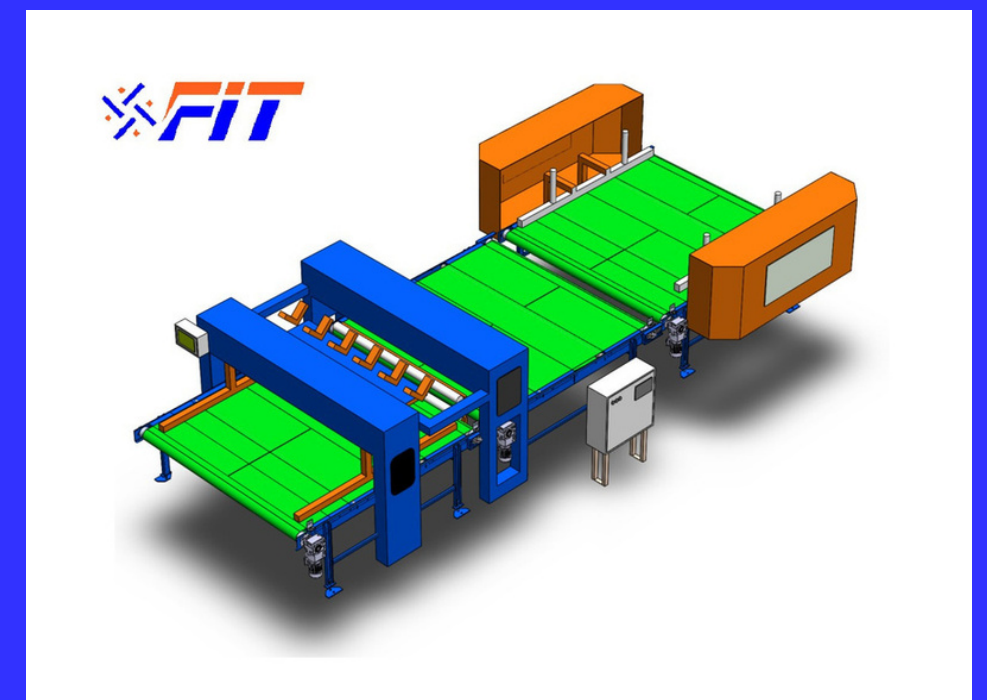
Compressed Air Range	6-8 Bar
Cycle Time	2 mattress/minute
Ldpe Film Thickness	70 -150 Micron
Ldpe Film Width	2520 mm
Maxmattress Size	82X84 Inch
Max. Mattress Height	15 Inch
Min.Mattress Height	2 Inch
Min. Mattress Size	36X60 Inch
Power Supply	415 volt AC, 3 Phase, 50 Hz, 22 KW



# Automatic Mattress Packing Machine

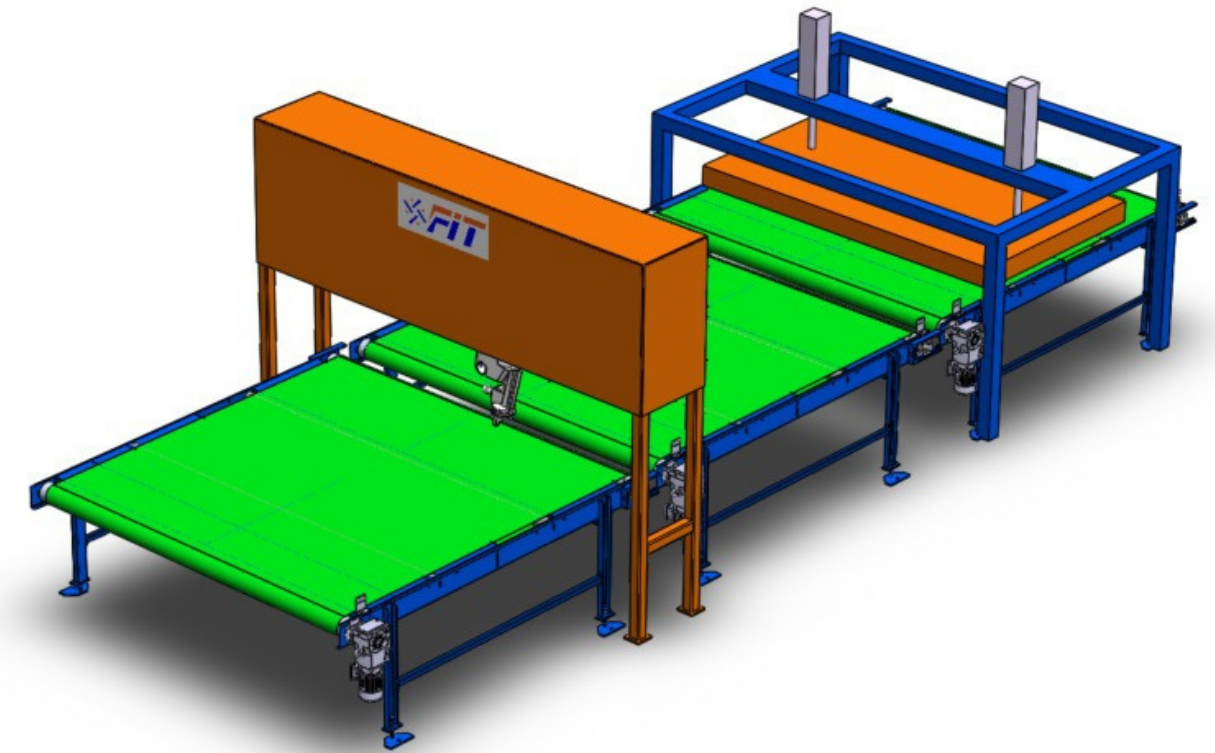
# Description

- **Product Size Range:** The machine can handle mattresses with a maximum size of 82 x 84 Inch and a minimum size of 36X60 Inch.
- **Wrapping Speed:** The machine can wrap up to 2 wraps per minute, indicating a relatively high wrapping efficiency.
- **Self-Adjustment:** The machine is capable of adjusting itself to accommodate different sizes of mattresses. It likely has an automated length-width-height measuring system, allowing it to adapt to various mattress dimensions without manual adjustments.
- **Flexibility:** The machine's high flexibility enables it to pack a wide range of products without the need for frequent adjustments. This feature allows for efficient packaging of different items without significant downtime.
- **Vertical or Horizontal Feeding:** The machine offers the option to feed the mattresses either vertically or horizontally, providing flexibility in accordance with specific requirements.
- **Automatic Side Compression:** The machine employs an automatic side compression system to ensure that the wrapped mattresses are tightly secured with film. This feature helps in maintaining the integrity and stability of the packaged products during transportation.
- **Energy-Saver Cold Sealing Technology:** The machine utilizes an energy-saving cold sealing technology, which eliminates the need for wiring and reduces seal problems commonly associated with heat-sealing methods.
- **Automatic Side Film Trimmers:** The machine includes automatic side film trimmers that cut the excess film from the wrapped mattresses, resulting in neat and tidy packaging.
- **Double Sealing System:** The machine incorporates a standard double sealing system to enhance the security and durability of the wrapped mattresses.
- **Automatic Side Compression System:** In addition to the side compression mentioned earlier, the machine includes an automatic side compression system specifically designed to achieve tight wraps.
- **Unique Plastic Tightening System:** The machine offers a specialized plastic tightening system for products that are not easily compressible. This feature ensures proper wrapping even for items with irregular shapes or sizes.
- **Servo Driven Motion System:** The machine utilizes a servo-driven motion system, which provides precise control and smooth operation during the packaging process.
- **Easy Adaptation and Integration:** The machine can easily adapt to existing production lines and ERP systems, allowing for seamless integration into the manufacturing process.
- **Online Maintenance and Training System:** The machine likely provides an online maintenance and training system, allowing for remote assistance, troubleshooting, and training to ensure optimal performance and efficiency.
- **Quick and Easy Communication:** The machine supports quick and easy communication with existing machines on the production line, facilitating smooth coordination and workflow.



## Specification

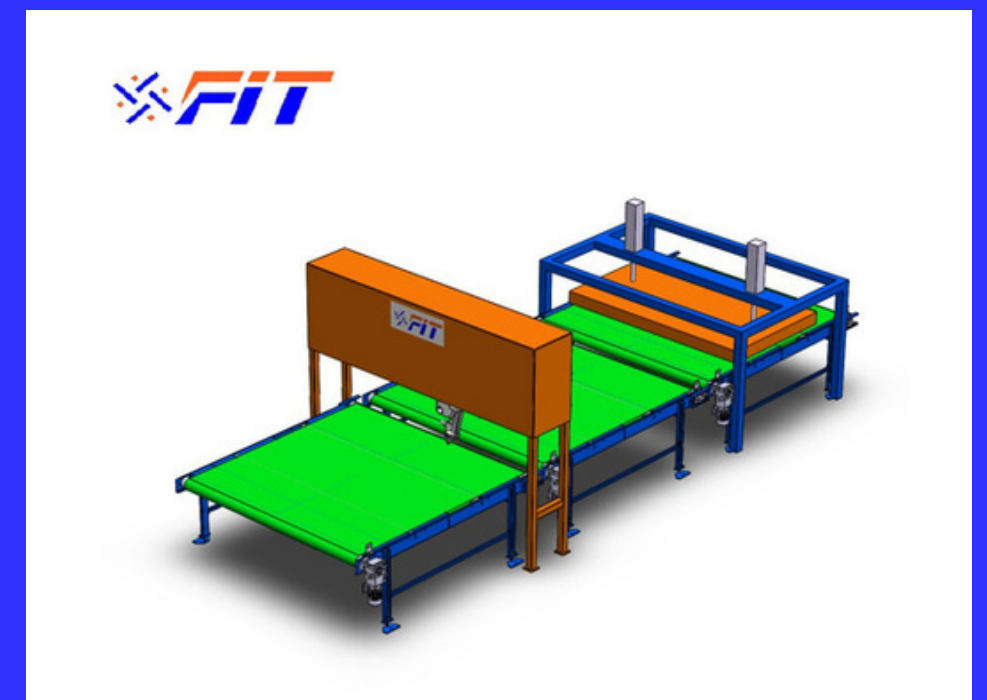
Compressed Air Range	6-8 Bar
Cycle Time	2 mattress/minute
Glue Pattern	Perimeter and center gluing
Glue Type	Solvent based spray
Max Core Size	78X84 Inch
Max. Core Height	12 Inch
Min. Core Height	2 Inch
Min. Core Size	48X36 Inch
Power Supply	415 volt, 3 Phase, 50 Hz, 15 KW



## Glue Spray Line

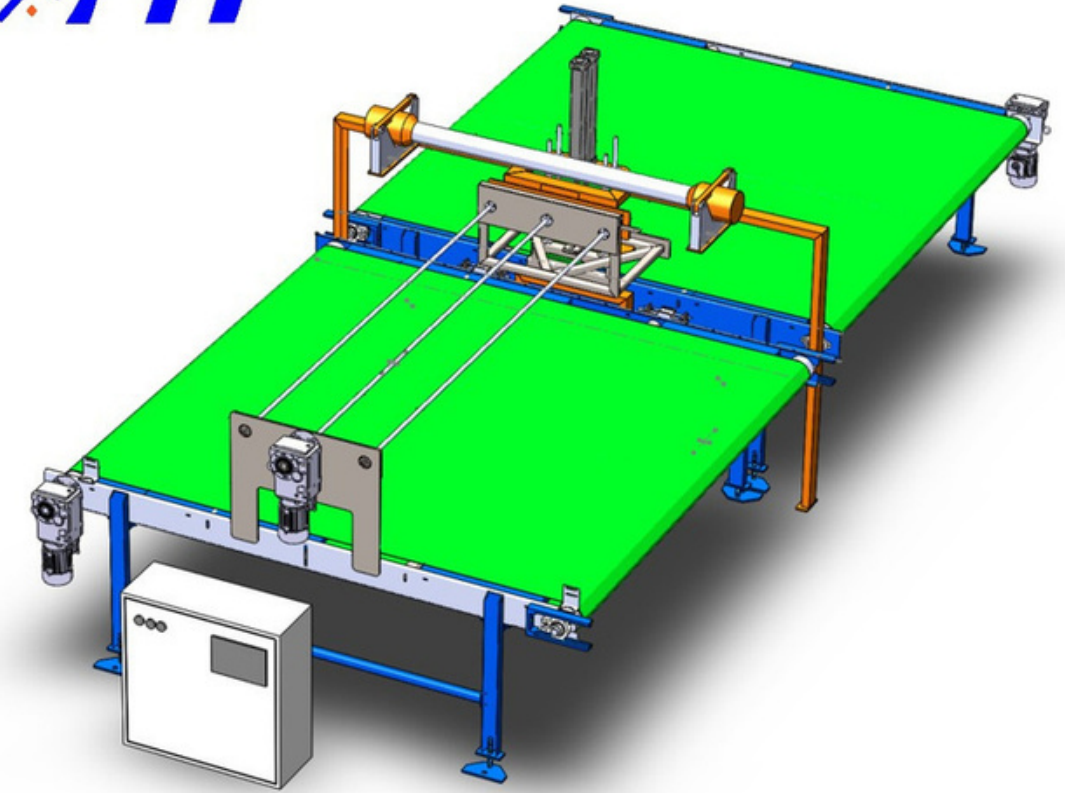
## Description

- Oscillating Center Glue Heads: The machine utilizes oscillating glue heads positioned at the center, ensuring uniform glue application across the mattress surface for improved bonding strength.
- Self-Aligning Infeed Conveyor: The machine features a self-aligning infeed conveyor that automatically adjusts to accommodate different mattress sizes, streamlining the workflow and reducing the need for manual adjustments.
- Enhanced Bonding Strength and Reduced Glue Consumption: The machine incorporates a mattress press, resulting in higher bonding strength between layers while minimizing glue consumption.
- Intermittent Gluing Capability: The machine offers intermittent gluing capability, allowing for precise and controlled application of glue, which further reduces glue consumption while maintaining optimal bonding quality.
- Tailor-Made Projects: The machine can be customized for specific project requirements, ensuring a perfect fit for individual manufacturing needs.
- Self-Detection of Mattress Sizes: The machine is equipped with advanced sensors that can detect the width, length, and height of the mattress automatically, eliminating the need for manual adjustments.
- Advanced Offset System: The machine utilizes an advanced offset system, eliminating the need for adjustments when working with different mattress sizes, thereby reducing human error and mess during operation.
- Servo Motor Driven Conveyors and Glue Guns: The machine incorporates servo motor-driven conveyors and glue guns, providing precise and efficient movement and application of glue for consistent results.
- Laser Sensors for Color Insensitivity: Equipped with laser sensors, the machine is not affected by color variations in the mattresses, ensuring consistent and accurate glue application regardless of the material's color.
- Reliable Control System: The machine is equipped with a reliable control system known for its high efficiency, ensuring smooth operation and precise control throughout the manufacturing process.



## Specification

Compressed Air Range	6-8 Bar
Cycle Time	35 seconds /mattress
Laminated Band Width	100 -500 MM
Ldpe Laminated Band	70 -150 Micron
Maxmattress Size	78X84 Inch
Max. Mattress Height	15 Inch
Min.Mattress Height	3 Inch
Min. Mattress Size	72X36 Inch
Power Supply	415 volt AC, 3 Phase, 50 Hz, 5 KW



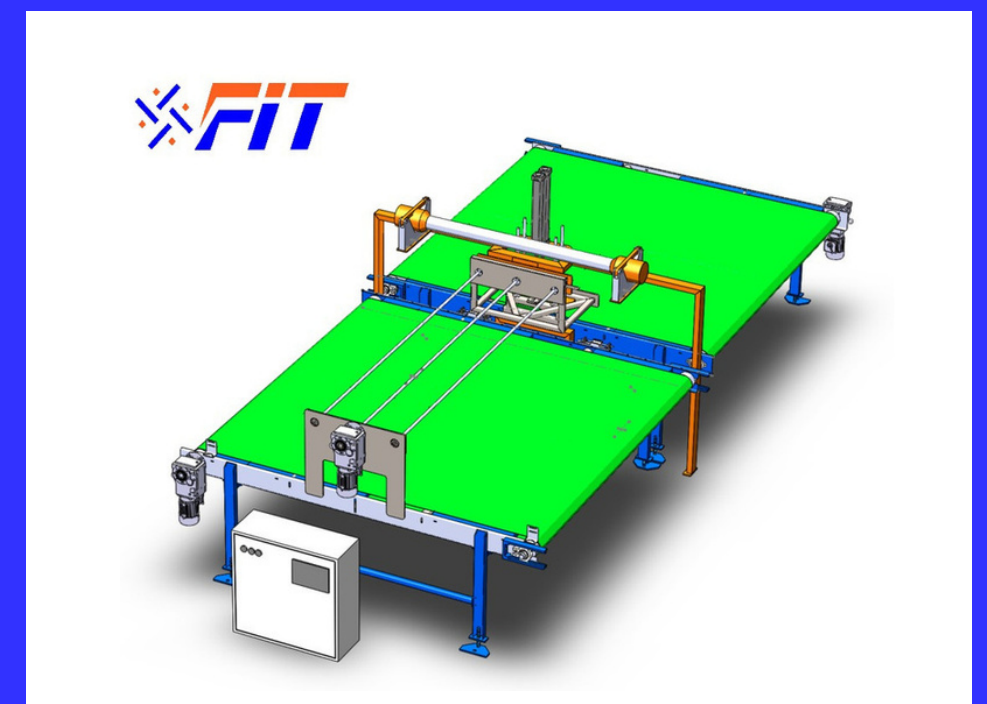
## Center / Belly Band Machine

# Center / Belly Band Machine



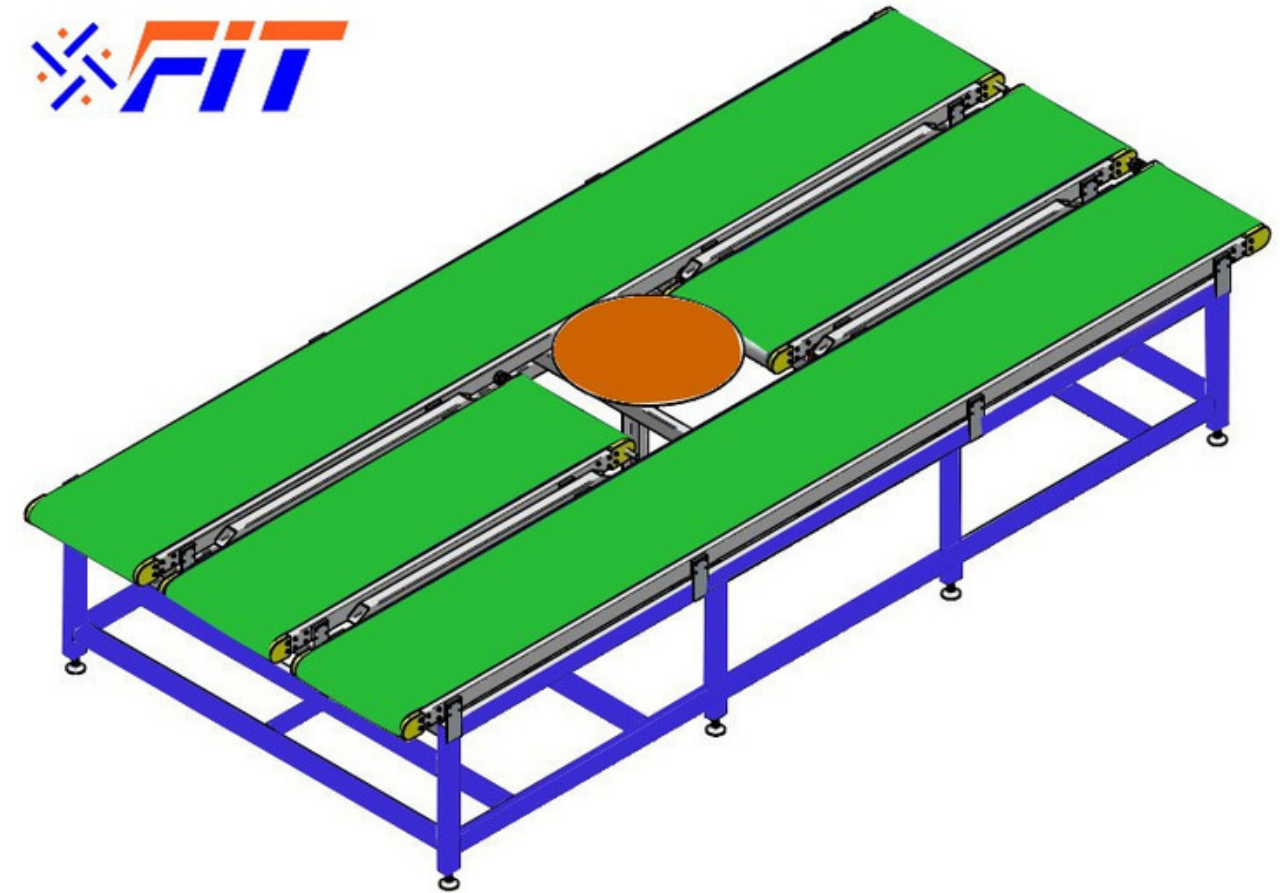
## Description

- Fully Automatic Operation: The Belly Band machine eliminates the need for manual application of belly bands on mattresses by utilizing automated processes.
- Sealing Position: The sealers of the machine are designed to accurately position the belly band on the mattress while ensuring high- quality sealing.
- Operator-Friendly and Integration Capable: The machine is user- friendly and can be easily synchronized with a quality station conveyor, allowing for seamless wrapping of the belly band on quality- approved mattresses.
- Automatic Start and Stop Function: The infeed conveyor of the machine automatically starts and stops based on the availability of mattresses on the conveyor, optimizing the production process.
- Quick Product Changeover: The machine features three belly band holders at a single station, enabling swift changeover between different product ranges, reducing downtime.



## Specification

Air Pressure	6-8 bar
Max Productheight	40 CM
Max Product Size	215X215 CM
Max Product Weight	100 KG
Power Requirement	415 Volt AC, 3 Phase, 50 HZ, 1.5 KW

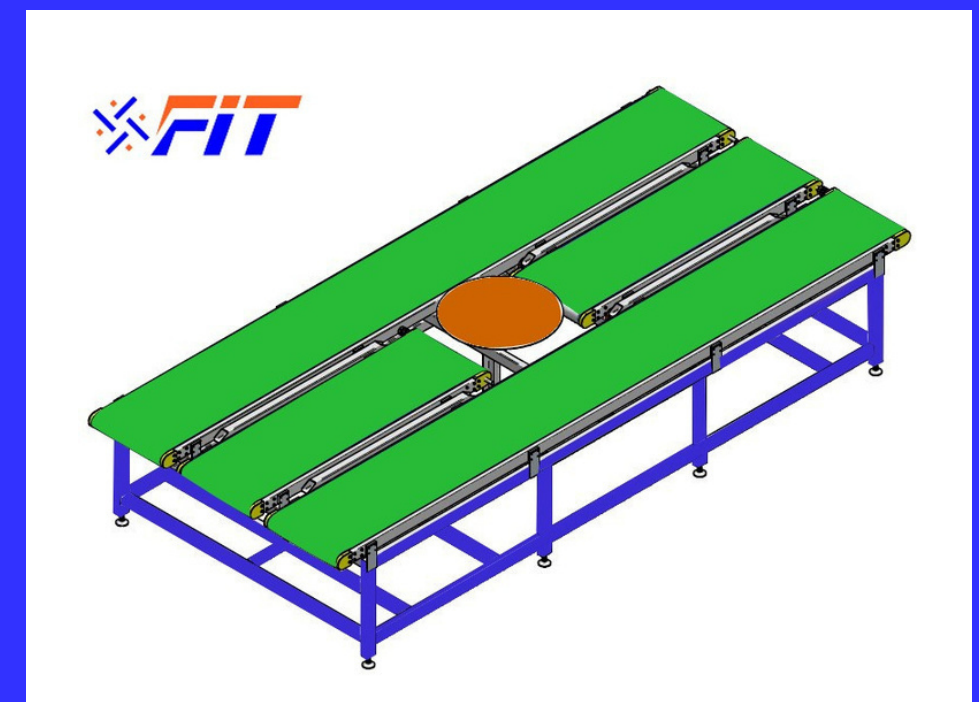


## Quality Table And Mattress Flipper



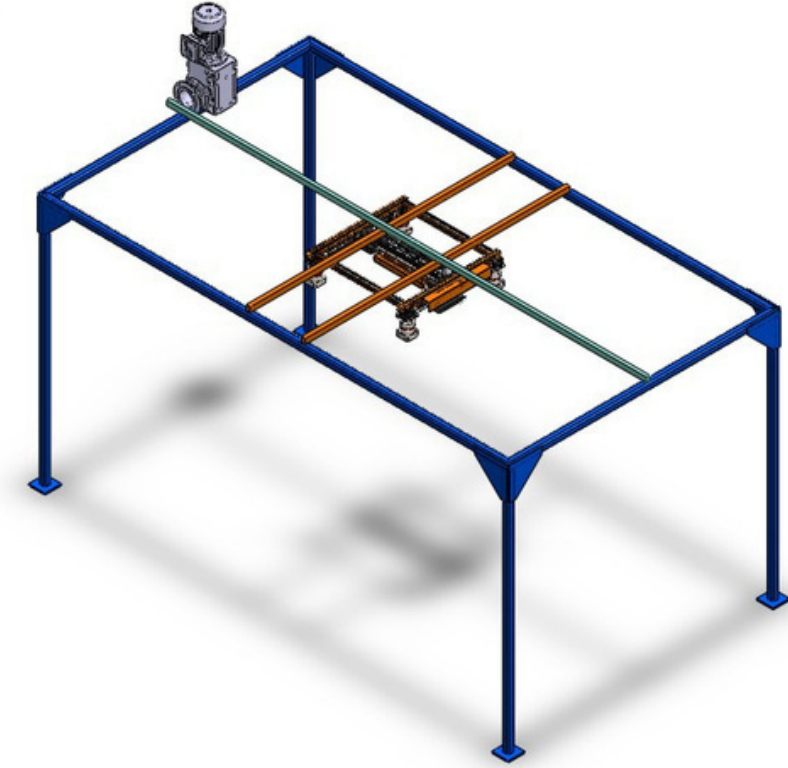
# Description

- Automatic Mattress Centralizing System: The Quality Station machine is equipped with an advanced automated system that ensures precise centralization of mattresses. This feature eliminates the need for manual adjustments and guarantees consistent alignment throughout the production process.
- Able to Integrate into Any Line: The Quality Station machine is designed to seamlessly integrate into various production lines. It is compatible with different manufacturing setups, allowing manufacturers to incorporate it into their existing systems without significant modifications or disruptions.
- 4 Arms Flipping for Smooth Mattress Lowering: With its innovative design, the Quality Station machine is equipped with four arms that facilitate the flipping process. These arms work in unison to ensure a smooth and controlled lowering of the mattresses. By minimizing abrupt movements, the machine helps prevent any potential damage to the mattresses.
- Heavy Duty Conveyor System: The Quality Station machine features a heavy-duty conveyor system that is built to withstand rigorous and demanding production environments. This robust system enables the seamless transportation of mattresses, ensuring efficient workflow and minimizing downtime.
- Heavy Duty Flipper: The flipper mechanism of the Quality Station machine is specifically engineered to handle heavy loads. It is designed to withstand the weight and size of mattresses commonly encountered in mattress manufacturing. This heavy-duty flipper ensures reliable performance and durability over extended periods of use.
- Able to Work with One or Two Operators: The Quality Station machine offers flexibility in terms of operation. It can be efficiently operated by either one or two operators, depending on the production requirements and workflow preferences. This adaptability allows manufacturers to optimize their workforce allocation and maximize productivity.



## Specification

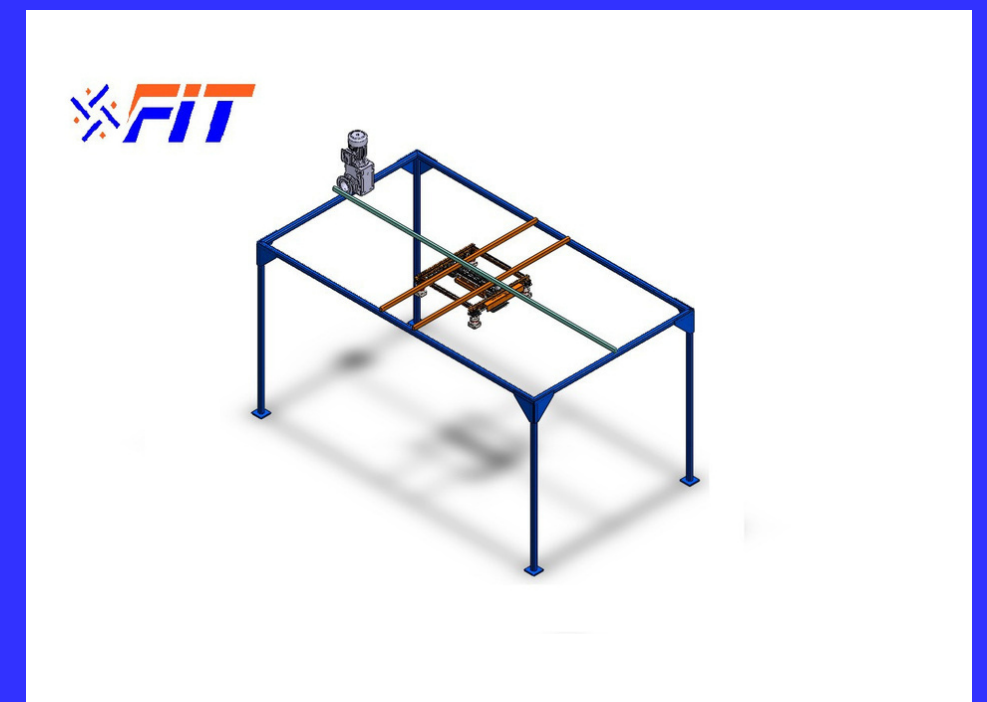
Compressed Air Range	6-8 Bar
Cycle Time	30 Seconds /mattress (Inline with glue line)
Max Core Size	78X72 Inch
Max Weight Core	35 KG
Max. Core Height	8 Inch
Min. Core Height	3 Inch
Min. Core Size	72X36 Inch
Power Supply	415 volt, 3 Phase, 50 Hz, 6 KW
Type Of Grippers	Needle gripper



# Mattress Pick And Place System

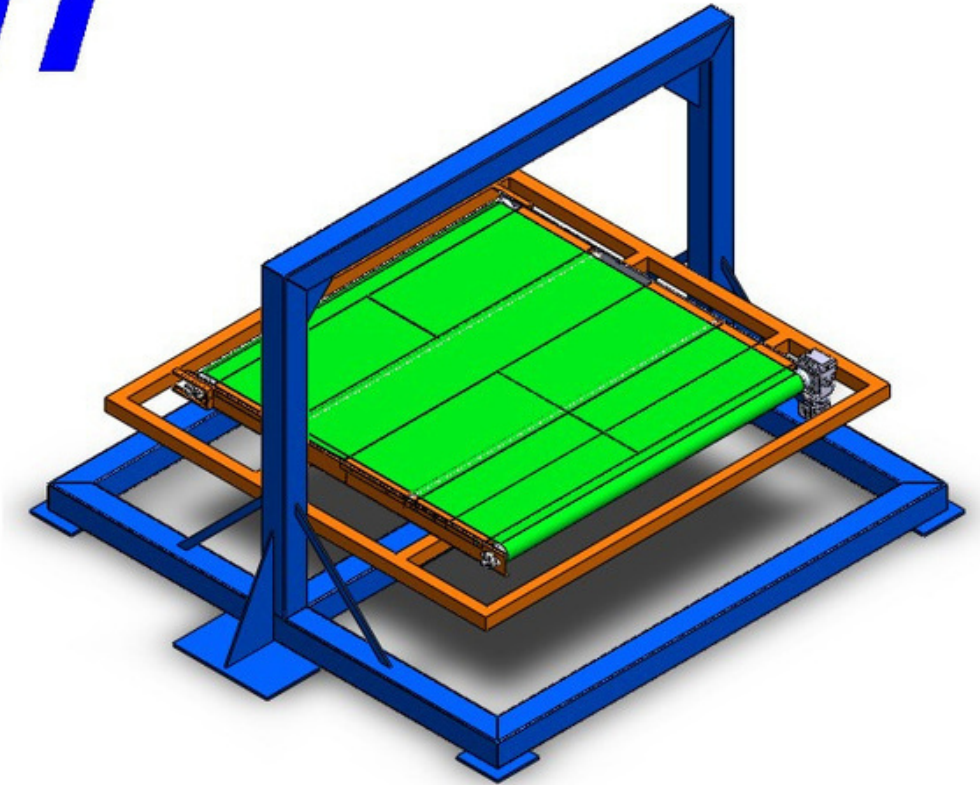
# Description

- Customizable Configuration: The system can be customized according to the specific requirements of each customer, allowing for tailored adjustments and adaptations.
- Cut Sheet Handling and Transfer: The system facilitates efficient pick and place operations for cut sheets, enabling seamless transfer of mattress components from one location to another. This significantly reduces reliance on manual labor, leading to improved productivity and elimination of manual handling risks.
- Integration with Glue Line: The system seamlessly integrates with the glue line, effectively eliminating the need for manual core pasting activities on glue machines. It ensures automatic synchronization, optimizing the overall mattress manufacturing process.
- Automated Precise Alignment: Through its advanced automation capabilities, the system achieves precise alignment of the fresh core onto the pasted core, ensuring a seamless fit without causing any damage or misalignment.
- Single-Operator Efficiency: The add-on system empowers a single operator to manage the entire glue line, including the pick and place system. This consolidated operation minimizes manpower requirements and streamlines the production process. Furthermore, the system can be easily integrated into existing glue lines, enhancing their functionality.
- Flexible HMI for Mattress Size Selection: The system incorporates a Human-Machine Interface (HMI) that offers flexible options for selecting the mattress size. This feature enables smooth pick-up operations using specifically designed needle grippers, tailored to the chosen mattress dimensions.
- Enhanced Operational Speed: The system operates at an accelerated pace, matching the cycle time of your current glue line. This improved speed ensures efficient workflow synchronization, maximizing production output and minimizing bottlenecks in the manufacturing process.
- Indigenous Developed dedicate Needle grippers for foam cut sheets to transfer without damage to the foam.



## Specification

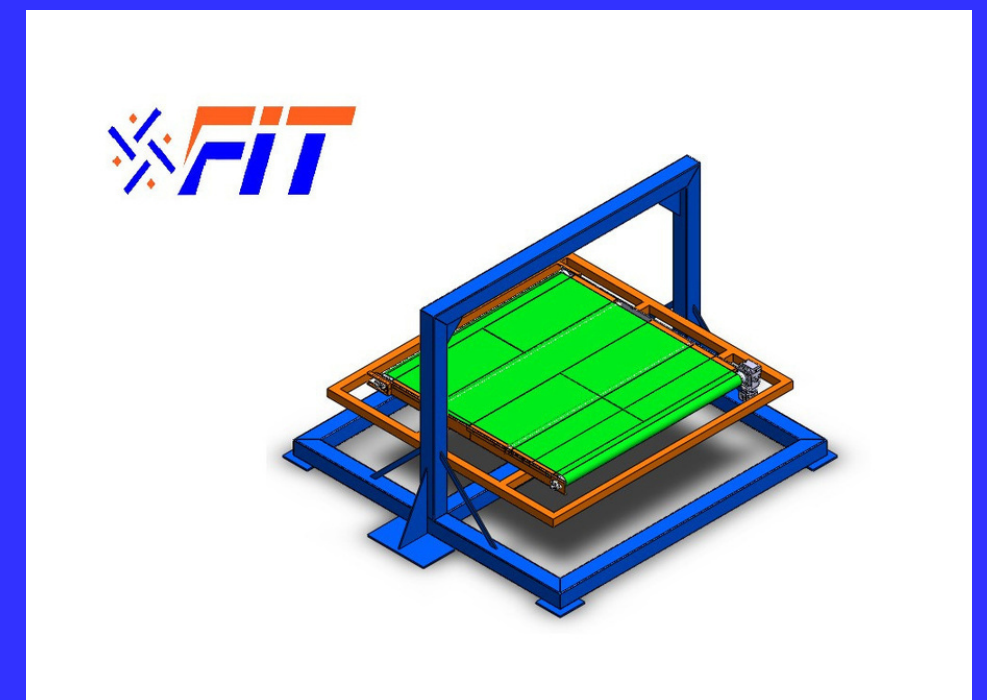
Capacity	30 seconds per stack
Max Productheight	40 CM
Max Product Size	210X210 CM
Max Product Weight	100 KG
Power Requirement	415 Volt AC, 3 Phase, 50 HZ, 5 KW



# Mattress Stacker

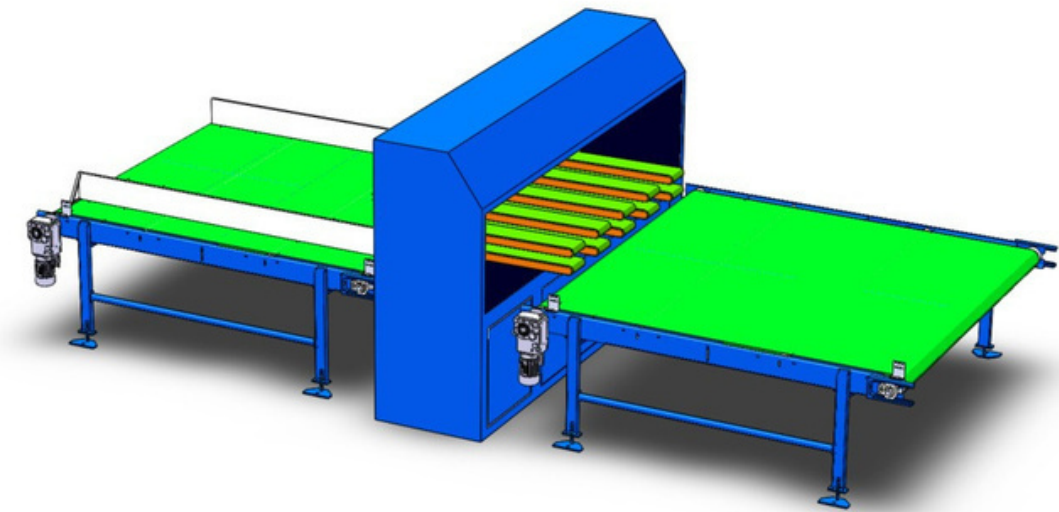
## Description

- **Automated Product Placement on Pallets:** The mattress stacker system offers an efficient and automated way to place mattresses or other products onto pallets, eliminating the need for manual labor and speeding up the stacking process.
- **Optimized Space Utilization:** The system is designed to make the best use of available space by stacking the products in a compact and organized manner. This maximizes storage capacity, simplifies inventory management, and facilitates the movement of products to different areas of production.
- **Operator and Forklift Elimination:** By automating the stacking process, the system eliminates the need for operators or forklifts to manually lift and stack the mattresses. This reduces labor costs, minimizes the risk of injuries or accidents, and improves overall operational safety.
- **Gentle Handling of Products:** The mattress stacker system employs gentle handling mechanisms to ensure the mattresses are stacked without damage. This protects the integrity of the products, preserving their quality and reducing waste.
- **Integration with Conveyor Systems:** The system seamlessly integrates with existing conveyor systems, enabling smooth and continuous movement of mattresses from the production line to the stacker for automated stacking.
- **Precise Positioning and Alignment:** The stacker system utilizes advanced positioning and alignment mechanisms to ensure accurate placement of mattresses on the pallets. This helps maintain stability and uniformity in the stacked loads.
- **High-Speed Stacking:** The system is designed for efficient stacking at high speeds, contributing to increased productivity and throughput in mattress production or distribution facilities.
- **User-Friendly Interface:** The stacker system features a user-friendly interface that allows operators to easily configure stacking parameters, monitor the stacking process, and make adjustments as needed.
- **Safety Sensors and Emergency Stop Features:** The system incorporates safety sensors and emergency stop features to ensure safe operation. These mechanisms detect potential hazards or obstructions and halt the stacking process to prevent accidents.



## Specification

Air Pressure	6-8 bar
Capacity	30 -50 seconds (based on product type & operator skills)
Max Productheight	40 CM
Max Product Size	215X215 CM
Max Product Weight	100 KG
Min Height	10 CM
Min Product Size	80X150 CM
Power Requirement	415 Volt AC, 3 Phase, 50 HZ, 5 KW



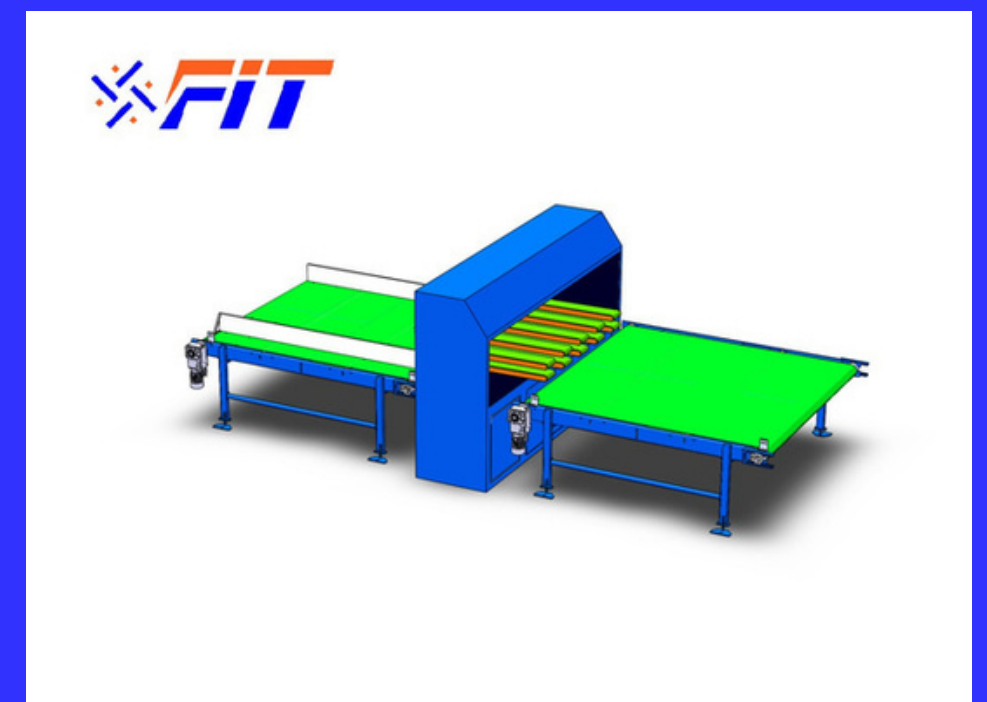
# Mattress Filling Machine

# Mattress Filling Machine



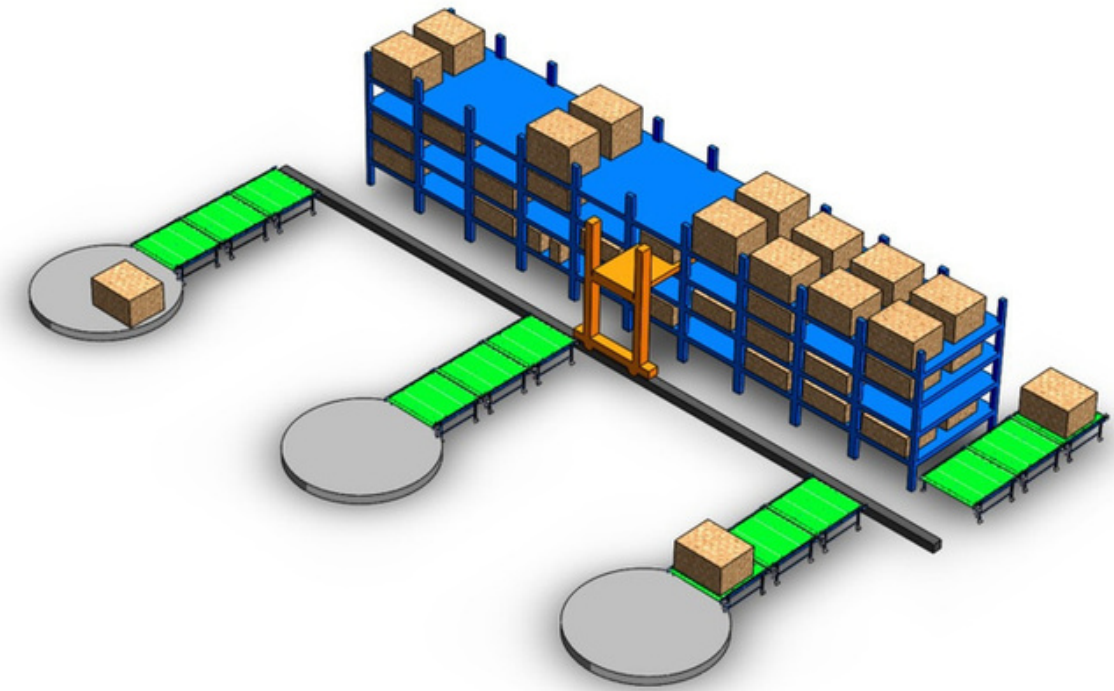
## Description

- Automatic mattress zipper cover filling machine
- Robust conveyORIZED feeding forks for filling heavy mattresses effectively
- Auto width and height adjustment system for mattresses:
- Height adjustment range: 10 cm to 40 cm
- Width adjustment range: 80 cm to 215 cm
- Motorized controls for height and width adjustment
- Heavy-duty conveyORIZED stretching forks for reliable performance
- Mattress and cover protection sensors to prevent product damage
- Automatic height measurement function for enhanced accuracy and efficiency



## Specification

Block Loading To Circular	Through telescopic conveyors
Design	Customized
Max Block Size	78X84 Inch
Pop Up And Stacker	Pneumatic pop-up and electric stacker



# Small Block Automation System

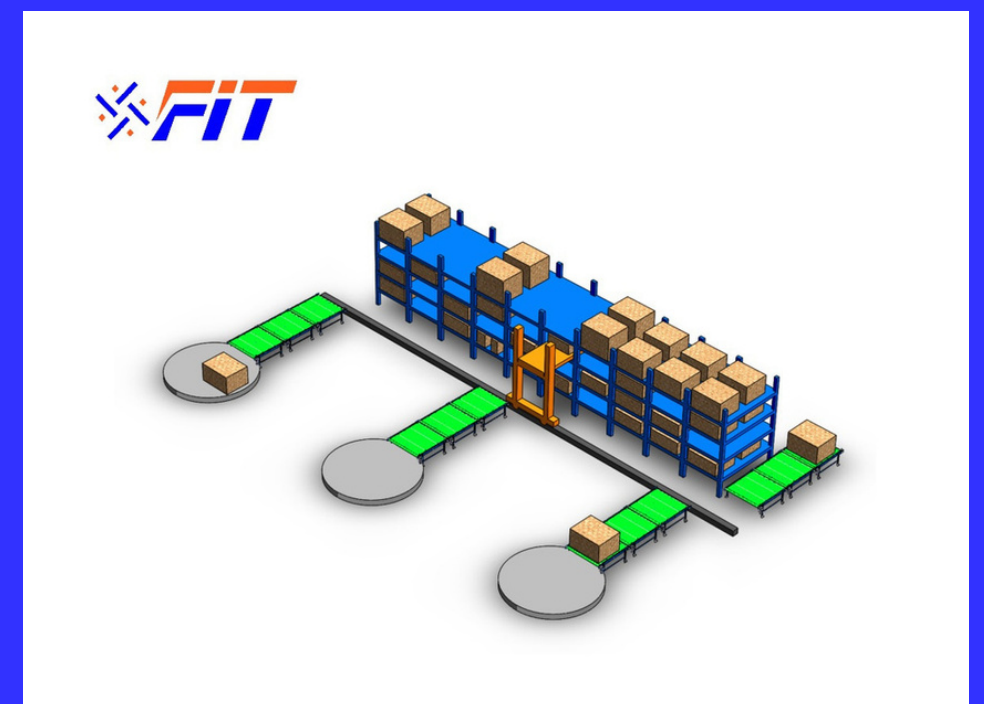


# Small Block Automation System



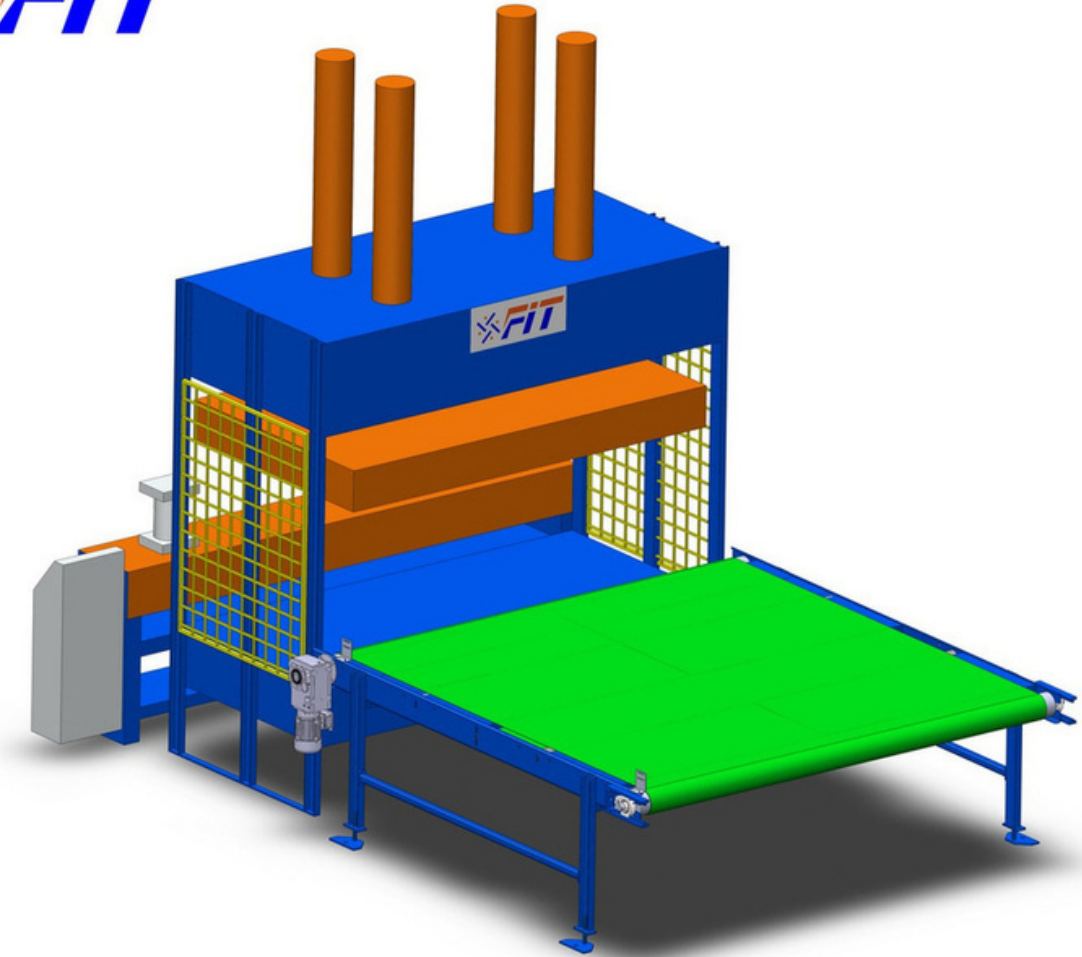
## Description

- Customized solution according to plant layout and requirement of automation.
- Small block system consists of block stacker shuttle , pop-up and telescopic conveyors to feed blocks on circular machines.
- This will help to reduce the touch points and no need to roll out the blocks on floor from vertical cutting to circular machine, results improving yield.



## Specification

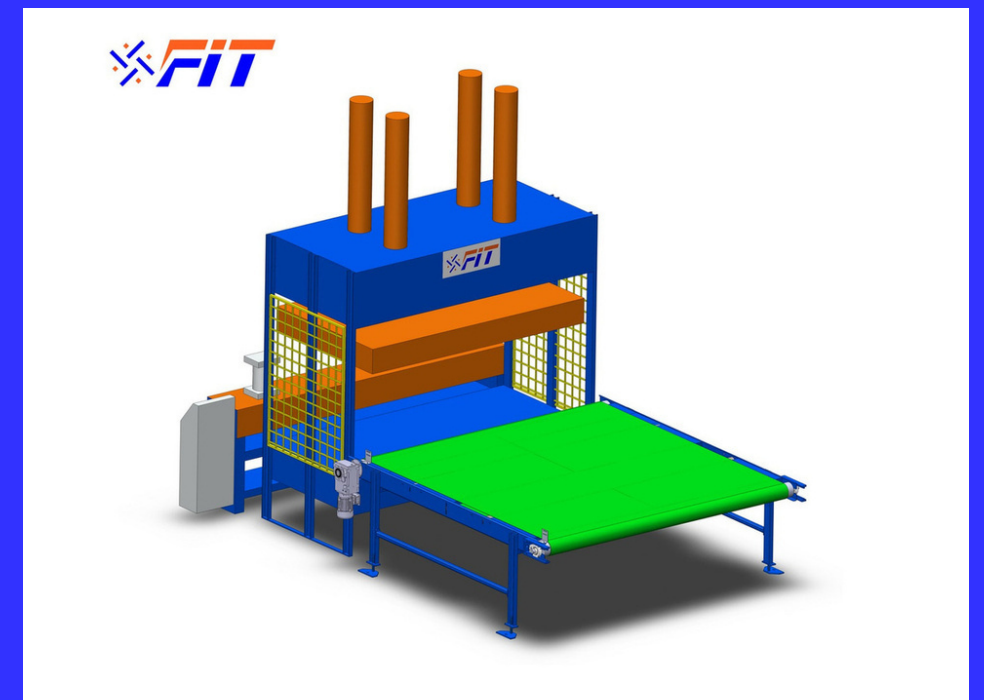
Air Pressure	6-8 Bar
Compression %	65 to 80 % of total height (60 KG/M3)
Ldpe Film Thickness	0.09 MM
Ldpe Film Width	2500 MM
Max Lifting Distance From Base	1350 mm
Max Product Height	1300 MM
Max Product Size	78X84 Inch
Power Supply	415 VAC, 50 Hz , 3 Phase, 60 KW
Pressure	100 T
Worktable Size	2600X2300 MM



# Small Block Compression Machine

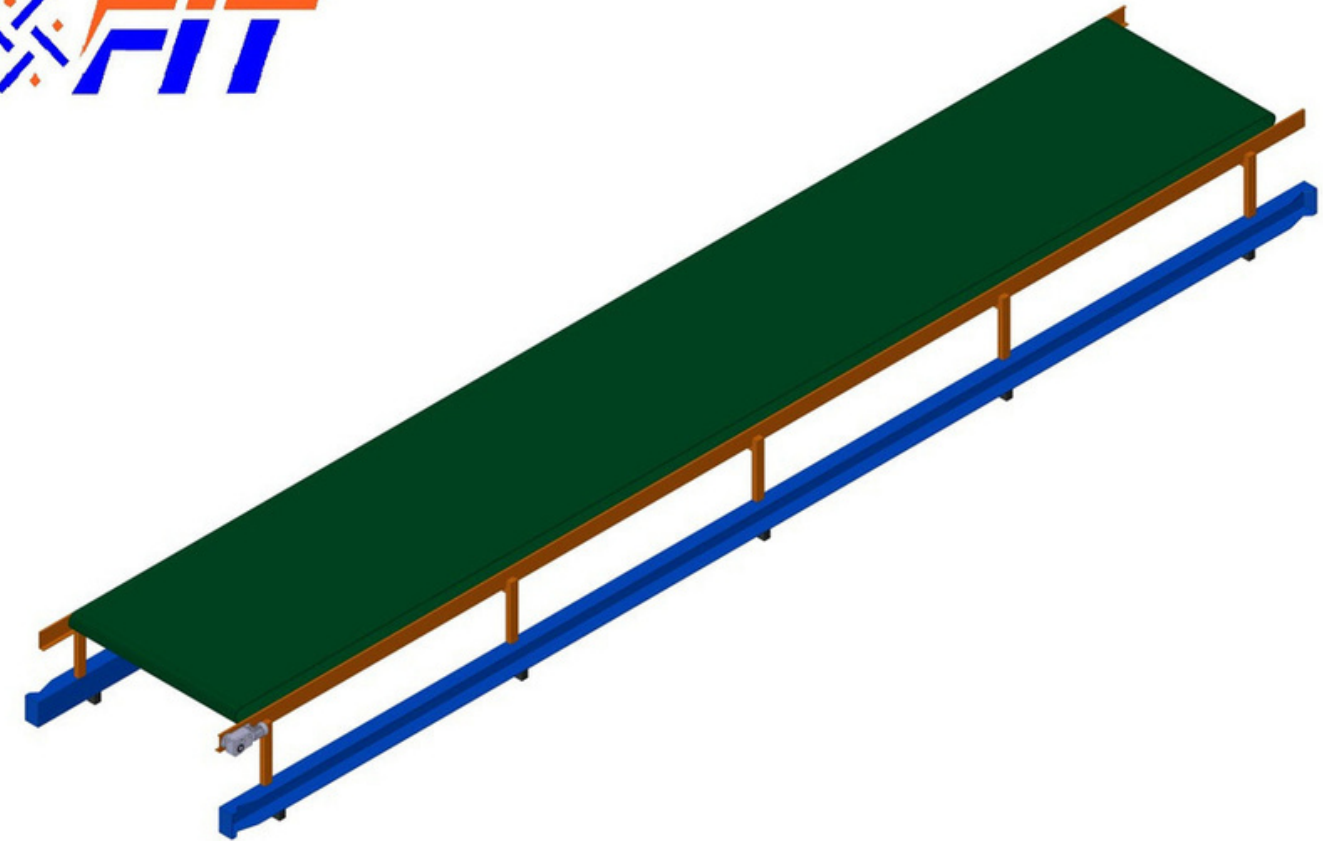
# Description

- Robust Worktable: The foam block compression machine is equipped with a sturdy worktable, providing a spacious area measuring 2600 x 2300 mm for placing and compressing foam blocks.
- Large Foam Block Size Capacity: The machine can accommodate foam blocks with a maximum size of 78 x 84 inches, allowing for compression of relatively large foam products.
- Adjustable Compression Level: The machine offers the flexibility to adjust the compression percentage, ranging from 65% to 80% of the total height of the foam block. This feature enables customization based on specific compression requirements.
- High Pressure Capability: With a pressure capacity of 100 KG/Cm<sup>2</sup> the foam block compression machine can exert substantial force during compression, ensuring effective compaction of foam blocks.
- Suitable Compression Density: The recommended compression density for foam blocks is up to 60 kg/m<sup>3</sup>, which helps achieve the desired compactness and stability of the compressed foam blocks.
- The foam block compression machine is designed to work with LDPE (Low-Density Polyethylene) film. It requires LDPE film with a width of 2500 mm and a thickness of 0.09 mm for effective compression of foam blocks.
- The foam block compression machine operates on a 415 VAC, 50 Hz, 3 Phase power supply, with a power consumption of 60 kW, providing ample energy for the compression process.



## Specification

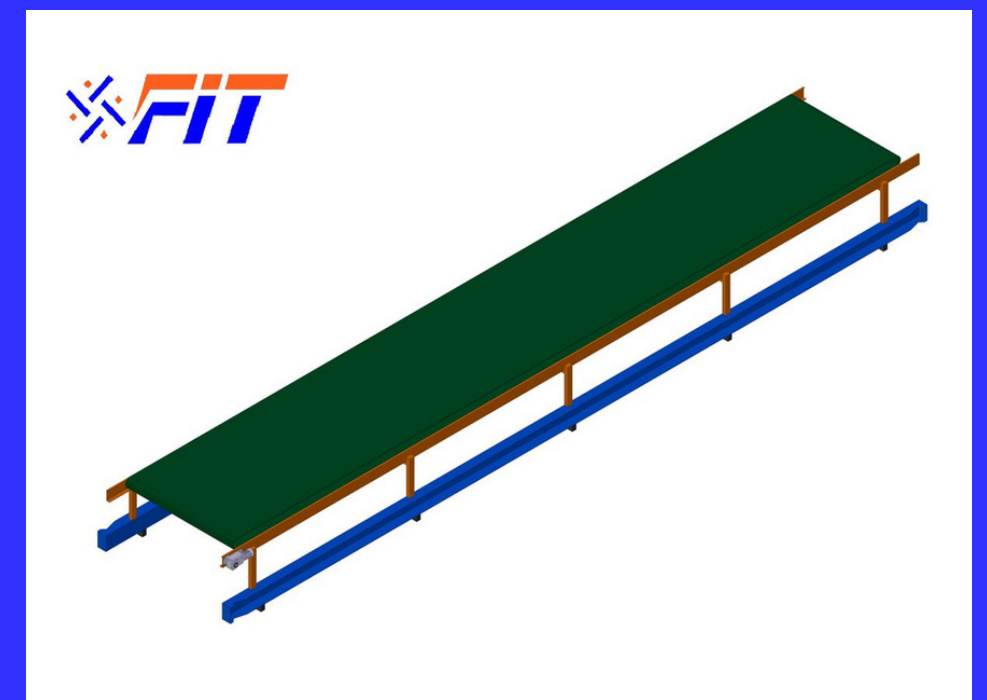
Accuracy	5 KG
Design	Customized
Display	Digital wireless display
Earthing	Separate chemical earth pit is required
Load Cell Footing	10 Ton
Max Product Width	2300 MM
Power Supply	230 Volt AC, 50 Hz
Type	30 Meter/60 Meter



# Long Block Weighing System

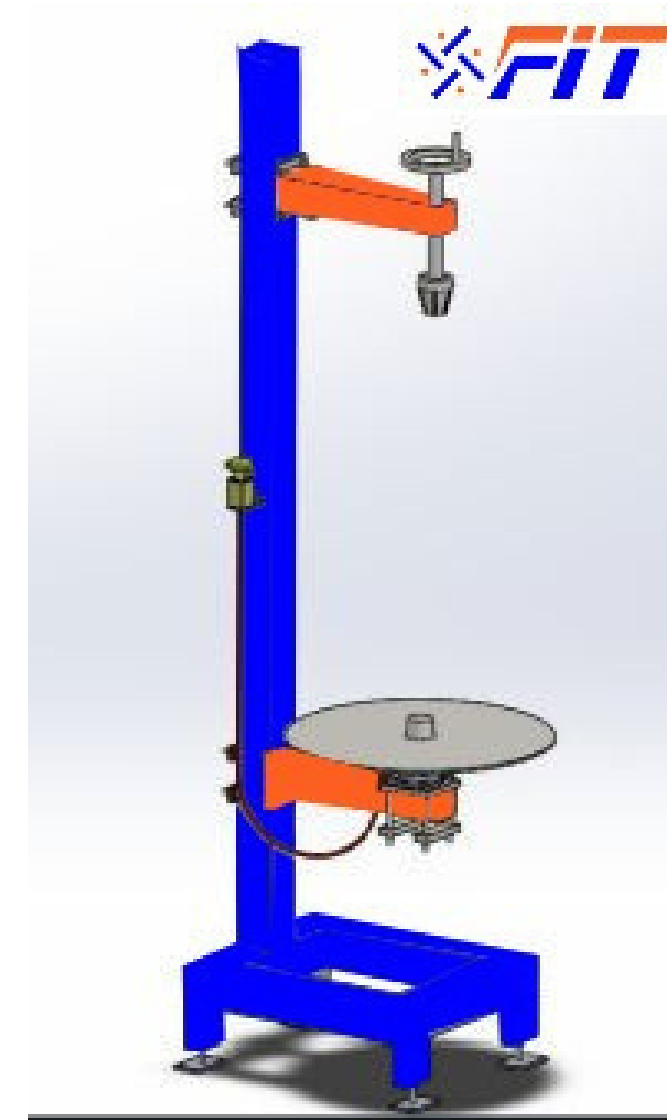
# Description

- High-Performance Load Cells: Incorporates advanced and highly accurate load cells specifically designed for heavy-duty weighing applications in the foam industry.
- Multiple Length Options: Available in two length variations – 30 Meter and 60 Meter– to accommodate different production line layouts and requirements.
- Sturdy Construction: Built with durable materials and a robust structure to withstand the demanding environment of the foam industry and ensure long-term reliability.
- Easy Integration: Designed for seamless integration with existing foam production lines, allowing for efficient and streamlined weighing processes.
- Real-Time Data Monitoring: Provides real-time weight data that can be monitored and recorded, enabling operators to track production metrics and ensure quality control.
- User-Friendly Interface: Features an intuitive and user-friendly interface for easy operation, calibration, and adjustment of weighing parameters.
- Data Logging and Reporting: Offers the capability to store and export weighing data, facilitating traceability, analysis, and reporting for quality assurance purposes.
- Remote Access and Control: Allows remote access and control of the weighing system, enabling operators to monitor and manage the process from a centralized location.
- Error Detection and Alarm System: Equipped with an intelligent error detection system that alerts operators in case of anomalies or deviations from predefined parameters.
- Compliance with Industry Standards: Meets relevant industry standards and regulations, ensuring accuracy, reliability, and safety in foam block weighing operations.
- Scalability: Designed to accommodate future expansions or modifications, providing flexibility to adapt to changing production needs.



## Specification

Block Height	1300 MM
Max Dia Of Skin Roll	1 Meter
Motor Power	0.5 HP
Power Supply	400 V AC, 50 Hz,
Rewinding Speed	Variable
Torque	5 NM
Type	Torque Motor controlled



## Foam Skin Winder

# Foam Skin Winder



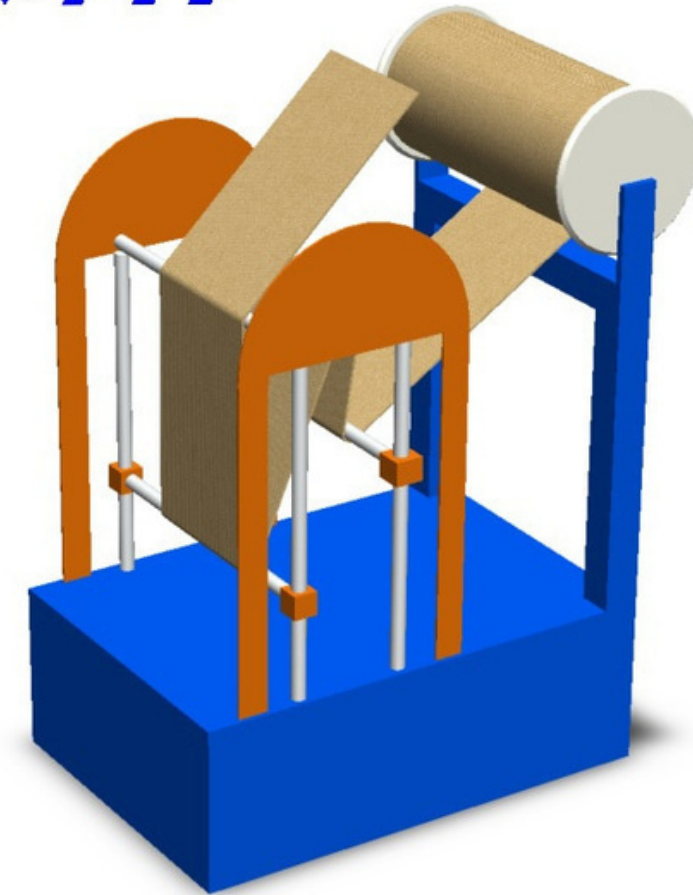
## Description

- Incorporates advanced torque motor to wind the waste foam skin while trimming.
- It can accommodate waste foam skin up to 500 mm diameter, customize options are also available.
- Significantly eliminate the need of manual collection of waste foam skin, results reduction in manpower.
- It can be easily integrated with your existing block trimming system
- Pneumatically operated paper tube holder for ease of work



## Specification

Max Dia Of Paper Roll	500 MM
Motor Power	0.5 HP
Power Supply	415 V AC, 50 Hz,
Rewinding Speed	Variable (Based on type)
Torque	5 NM
Type	Torque Motor controlled/Accumulation
Vfd Controlled	yes



# Paper Winder For Foaming

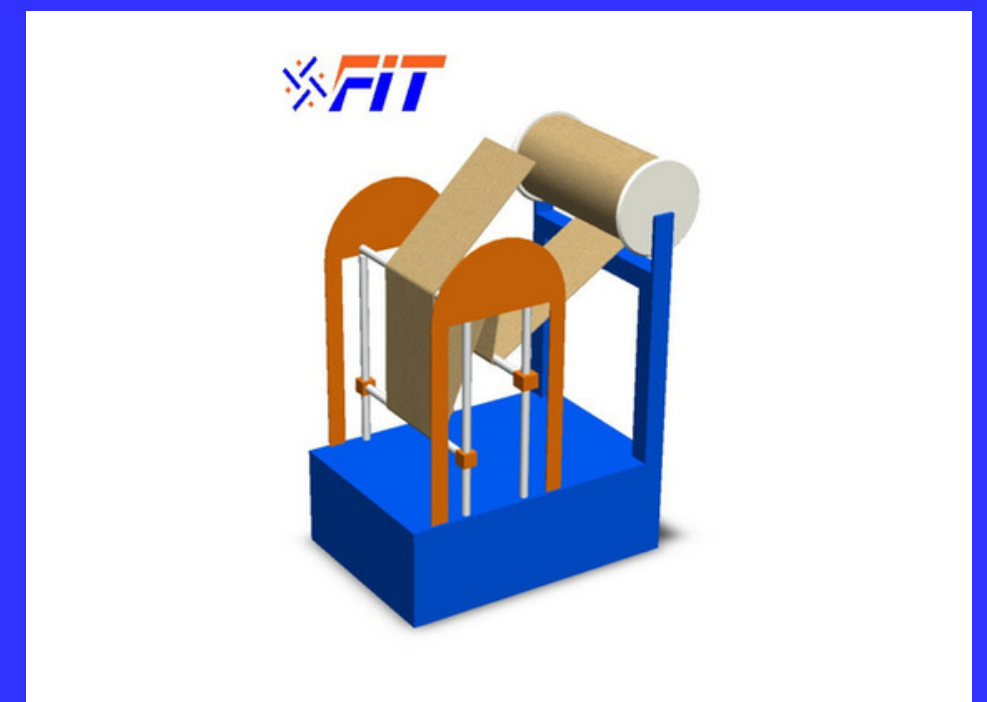


# Paper Winder For Foaming



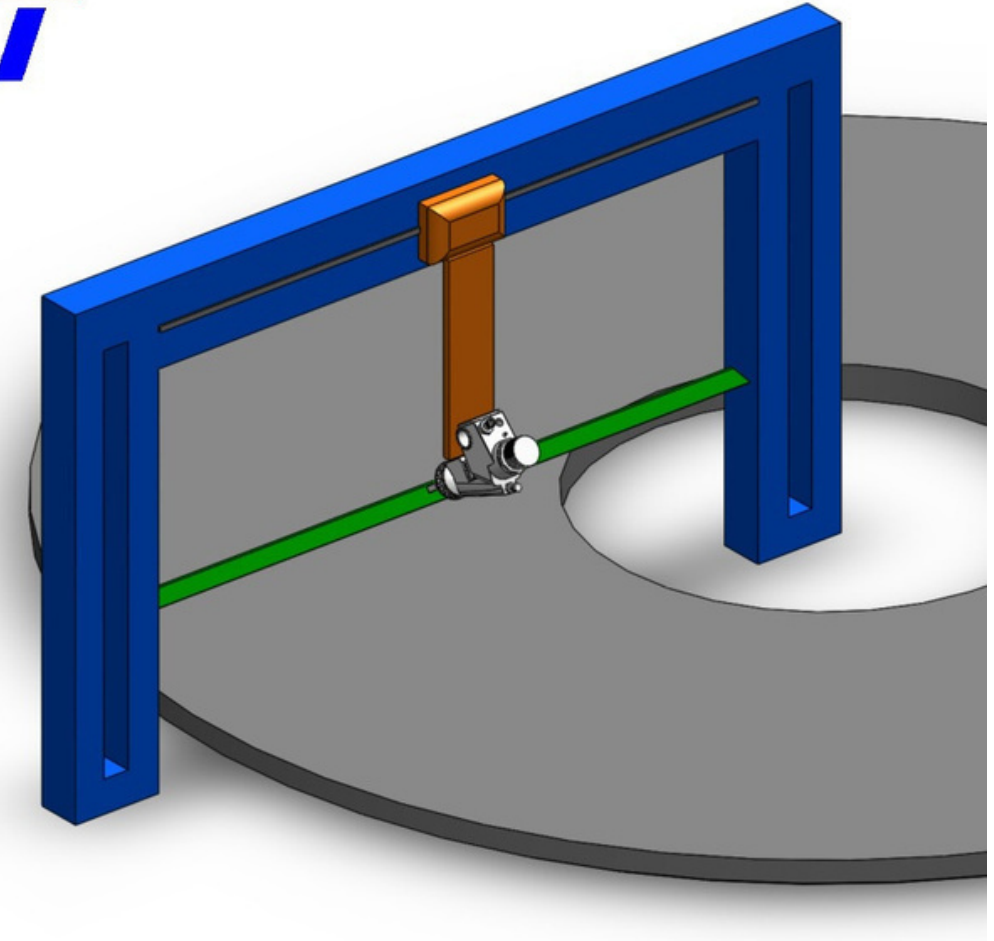
## Description

- Incorporates an small accumulator with small winder to wind the waste
- leftover top paper while foaming. leftover paper range: 25 mm to 300 mm
- Thanks to the accumulator, don't need to adjust the winding speed with respect to any change in your foaming conveyor speed.
- Significantly eliminate the need of manual collection of waste paper, results reduction in manpower and also avoids sudden paper tearing and related foaming failures.
- It can be easily integrated with your existing foaming machine



## Specification

Air Pressure	1-2 Bar for Tank
Auto Spray Gun	0.8 mm Nozzle
Geared Motor	0.5 HP
Max Air Pressure	5-6 Bar for Gun
Power Supply	415 Volt, 50 Hz
Pressurized Silicon Agent Tank	2.5 Litre



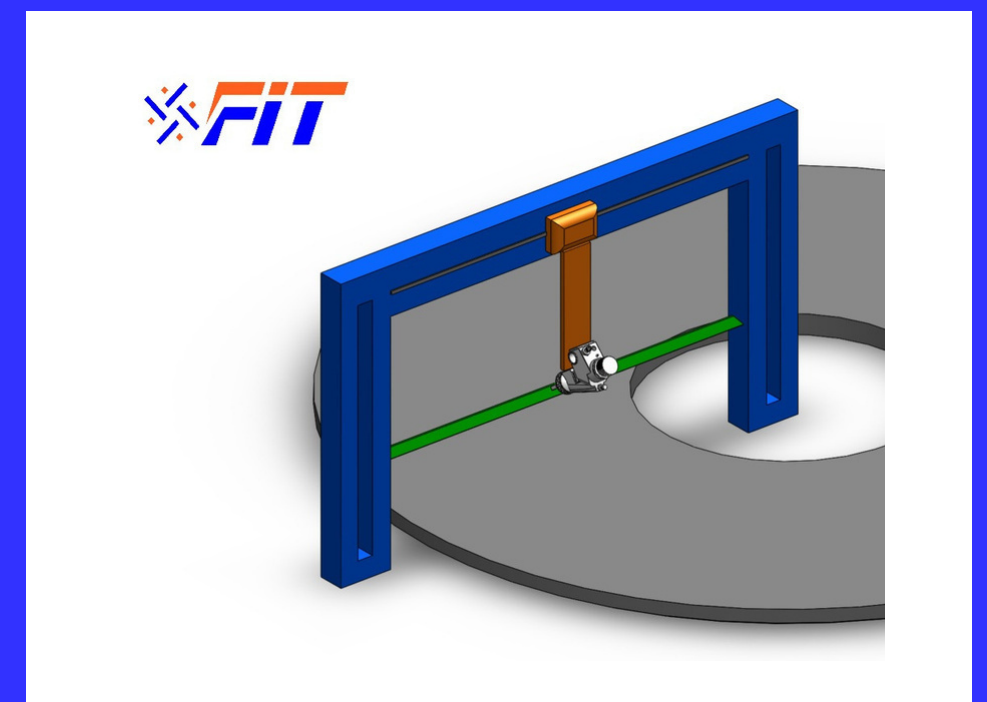
# Auto Silicon Spray System At Circular

# Auto Silicon Spray System At Circular



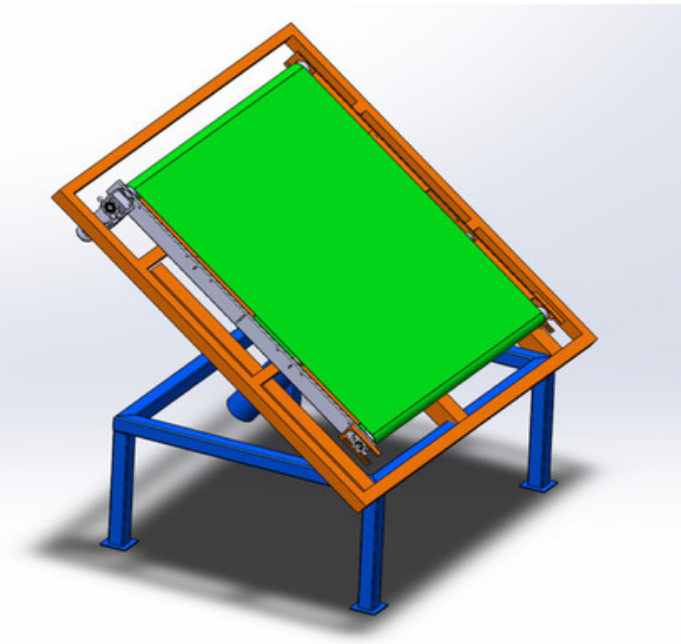
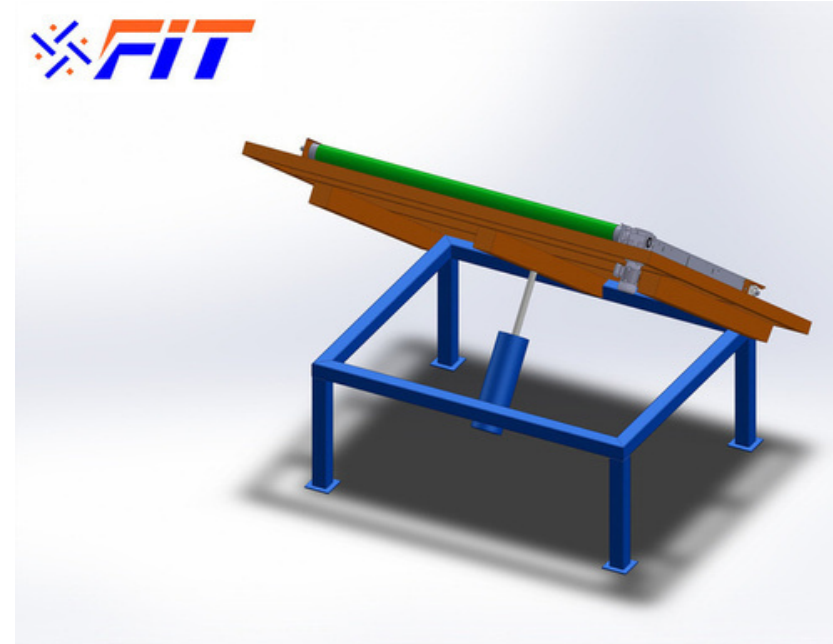
## Description

- Silicon spray system consists of pneumatically operated spray gun and a pressurized tank of 2.5 Litre capacity to store the silicon safely in it.
- The system spray silicon automatically on blade guide for smooth foam cutting operation at circular machines. At any height of the cutting head this system can perfectly spray the silicon on blade guide.
- It can be easily integrated with your existing circular machine to improve the safety of your operators, the operator can spray the siliconas and when required without going near the blade guides.
- It can be controlled directly from the machine panel.



## Specification

Air Pressure	6-8 Bar For Pop-up
Pop-Up Conveyor Size	2500X2500 MM (Cutomize options available)
Power Supply	415 VAC, 3 Phase, 50 Hz
Tilter Angle	80 Degree
Tilter Power Pack	2 HP (Hydraulic)
Tilter Size	2500X2500 MM (Cutomize options available)
Type	Electric/Pneumatic/Hydarulic



# Hydraulic Tilter And Pop-up Conveyrization

# Hydraulic Tilter And Pop-up Conveyrization



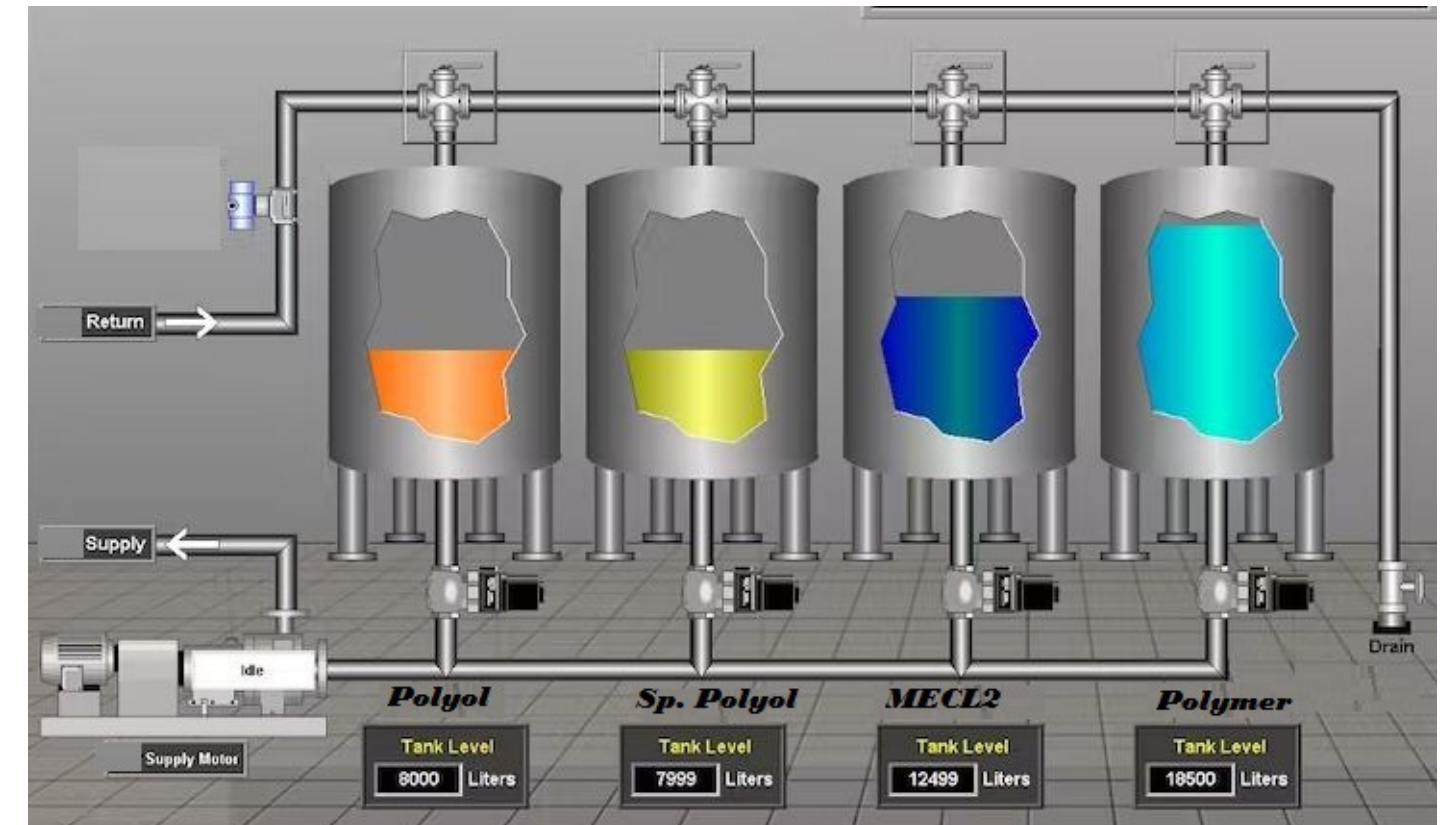
## Description

- Hydraulic tilters are useful in case you operate Goliath cranes for long block handling, or when you need clear space to move blocks/any material in other directions.
- Hydraulic tilters will be used as a bridge between two conveyors and it gives path to the equipment or material as and when required.
- These are easy to operate and able to customize as per the need of customer , tilting range is up to 85 Degree.
- Conveyor length : 2 meter to 5 meter according the layout needs



## Specification

Control Type	Closed loop control
Cut Off System	Low and high level cut off
Display	HMI at Chemical Loading and Foaming machine platform
Temperature Display	Yes
Power Supply	230 Volt AC/ 24 VDC
Type	Loadcell/Transducer



# Chemical Tank Level Automation And Controls

# Chemical Tank Level Automation And Controls



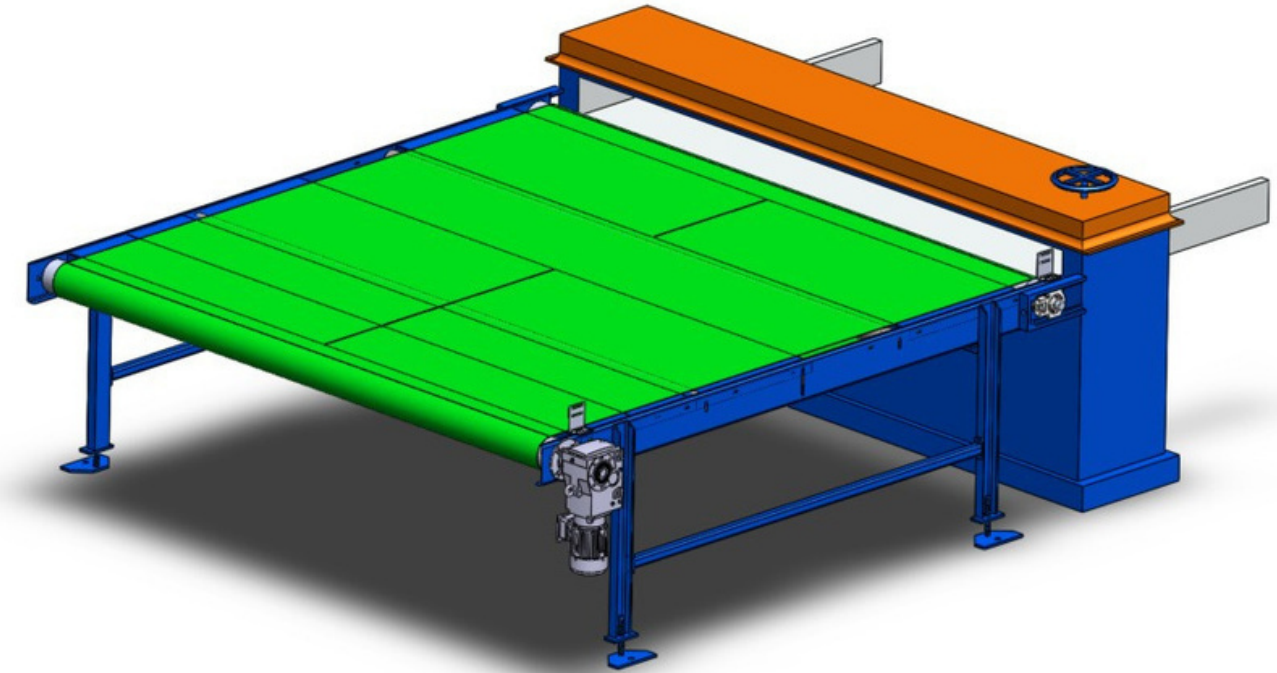
## Description

- System makes you able to track your tank level real time, provides the control to stop overflow and eliminate admission pressure fault in your machine.
- Provides the real time chemical temperature as well.
- The system is able to integrate with local area network and can deliver all required information timely on your phone .
- Precise measurement allows the Foamer to track inventory and control the daily production plan accordingly



## Specification

Air Pressure	6-8 bar
Capacity	30 -40 seconds (based on operator skills)
Max Product Height	20 CM
Max Product Size	48X78 Inches
Max Product Weight	35 KG
Min Height	5 CM
Min Product Size	27X48 Inches
Power Supply	415 Volt AC, 3 Phase, 50 HZ, 5 KW



# Foam Sheet Insertion And Packing System

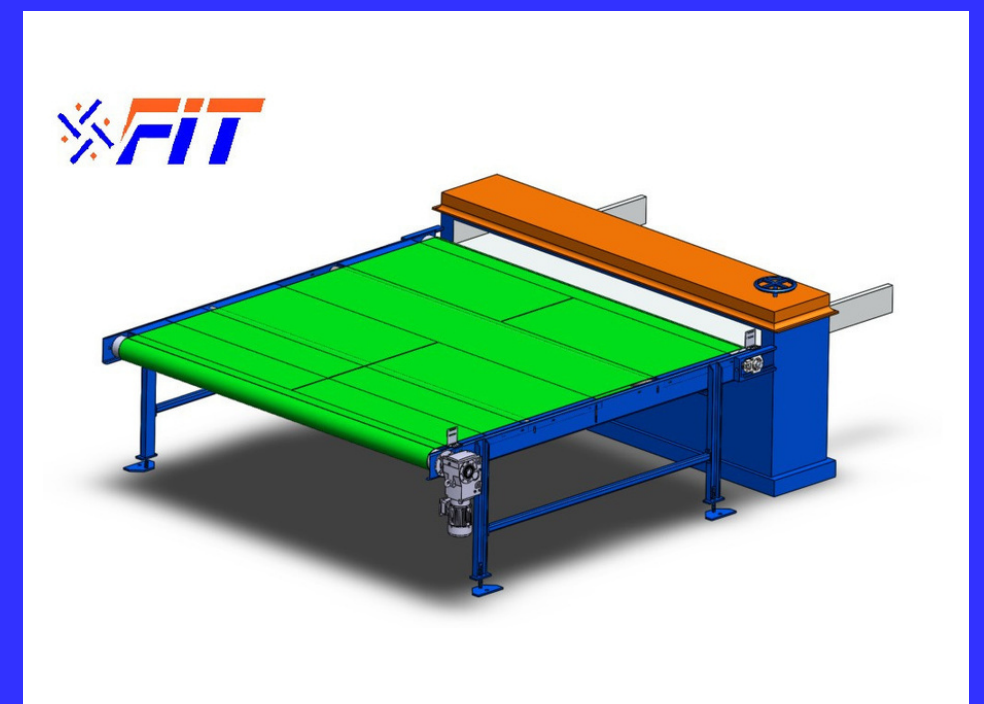


# Foam Sheet Insertion And Packing System



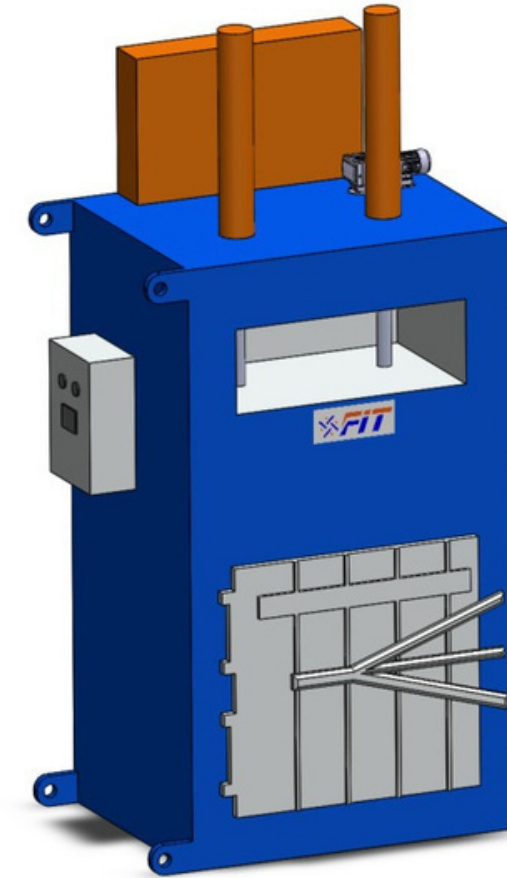
## Description

- Automatic sheet insertion machine
- Robust conveyORIZED feeding forks for filling heavy sheets
- effectively Auto width and height adjustment system for sheets
- Height adjustment range: 5 cm to 20 cm
- Width adjustment range: 27 Inches to 48 Inches
- Motorized controls for height and width adjustment
- Heavy- duty conveyORIZED stretching forks for reliable performance
- Mattress and cover protection sensors to prevent product damage



## Specification

Control Type:	Automatic Electric Control.
Lifting Space:	0 ~ 800mm
Maxworking Size:	L2100mm*W600mm*H1100mm
Oil Hydraulic Pressure:	60Ton
Oil Tank Capacity:	300L
Total Motor Power:	7.5kw
Weight Of Bails	100 KG
Working Efficiency:	25 ~ 30 Bails/8Hours
Working Speed:	0 ~ 15m/min



# Compress Bailing Machine

# Compress Bailing Machine

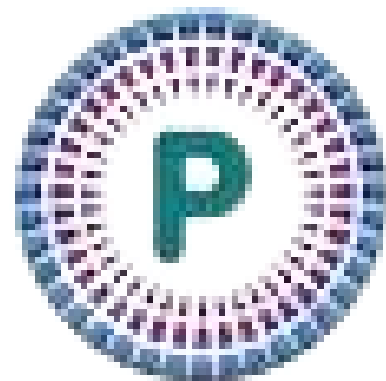


## Description

- Compress bailing machine prepared bails of scrap foam to save space and reduce transport cost
- Operator can easily operate the machine through a control panel provided near the machine
- Max pressure range is 60 Ton and the machine can prepare up to 100 KG bails
- A pneumatic strapping gun is provided to seal the strap to secure the bail in compressed state.



# Our Reference



PAPA FOAMS





# Our Services

## Plant Layouts

- **Optimal Plant Design** : Tailoring the plant layout to maximize efficiency and productivity in foam and mattress production.
- **Space Utilization** : Analyzing and recommending ways to make the best use of available space for machinery, storage, and workflow.
- **Ergonomics and Safety** : Ensuring that the plant layout promotes a safe and comfortable working environment for employee.
- **Material Flow Optimization** : Designing layouts that streamline the movement of materials, minimizing bottlenecks and delays.
- **Expansion Planning** : Assisting in planning for future growth and expansion, allowing for seamless scalability.
- **Scope of Automation** : Figuring out possible automation to reduce manpower and offers way-out to optimize the overall processes.

## Green Field & Brown Field Projects

### Green Field Projects(New Facility Construction):

- Site Selection
- Facility Design
- Technology Integration

### Brown Field Projects(Existing Facility Upgrades):

- Production Optimization
- Equipment Upgrades
- Cost Efficiency



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THANK YOU!

