



LM-GL/1100
AUTOMATIC HOTMELT GLUE
MACHINE

MAKİNA PARTNERİNİZ

This system is running automatically with length, width and height of the mattress recognition
In general, Nordson, Robatec.. etc gluing unit is used optionally. Total electrical power is 4 kW

APPLICATION AREA

Mattress Industry

MATERIALS

Foam
Quilted Panel
Felt
Carcass

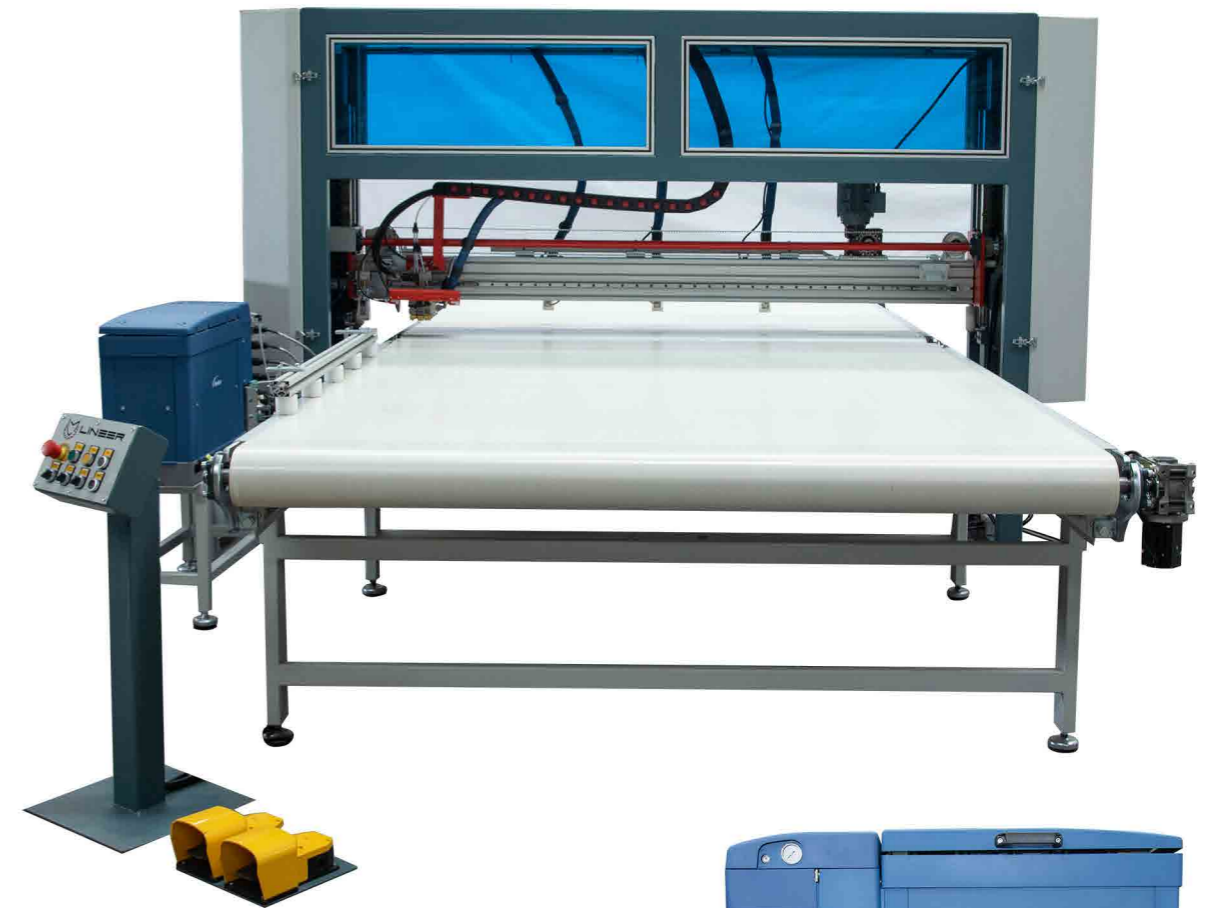
GENERAL FEATURES

Optical Sensor at conveyors
Edge-alignment gluing system is being running by servo motor that edge-gap is automatically adjustable. (app. gluing time: 20 seconds)
Automatic length and width and height recognition
6 guns/36 nozzles are being used at the machine. (edge and center gluing)
Pocket spring, carcass, felt, foam, quilted panel are glued at different gluing styles through touch screen/buttons
High efficiency during the gluing process
It is easy to adapt to any production line
Can be serviced online
Maximum product width size: 2100 mm

Glue is an essential part of mattress manufacturing and as today mattress gluing system is getting more popular to maximize the worker health, increased production efficiency as well as the hygiene in the working area and mattresses

The hotmelt as a raw material has been using in mattress gluing system to keep material and foam from shifting so it maintains the integrity of the mattress

Mattress gluing system helps you to apply one component hotmelt evenly onto the layers of foam such as foam, felt and quilting panels
Advanced glue amount control system makes you apply right amount of glue onto each mattress component. By keeping the glue amount consistent and correct level to control



NOTE: The ROBATECH or NORDSON Hotmelt system is used in the glue bridge. 3 fixed and 3 Moving, total 6 guns /24 nozzles are used. Tank capacity: 30lt. Tank capacity can vary according to our client's request



STANDARD

Silicon Belt Conveyor
Hotmelt Bridge
Pedal System (foot or portable)

OPTIONS

Assembly Conveyor with Flipper
Pneumatic Press Conveyor
Press & Flipper Conveyor
PVC Belt Conveyor
Automatic Product Feeding System
Automatic Product Alignment Conveyor

DETAILED EQUIPMENT INFORMATION LM-CON/1900 I ASSEMBLY CONVEYOR WITH FLIPPER

This conveyor is used to assemble the mattress on the line
With its' flipper unit, it can flipper the mattress to carry out the assembling process on both sides
With its flexible and ergonomic working principle, it flips the mattresses of varying sizes and weights
Since the bands on the conveyor are made of silicone, it prevents adhesive sticking and is easy to clean
Forward-back and flipping the mattress can be done with a button by the operator
2 operator works at the machine

It saves the working the area since the assembling process is being done in a narrower space.
This conveyor is used to assemble the mattress on the line

With its' flipper unit, it can flipper the mattress to carry out the assembling process on both sides
With its flexible and ergonomic working principle, it flips the mattresses of varying sizes and weights without requiring any adjustment
As mattresses are held by pneumatic arms, any risk of deformation during flipping is prevented
With the help of its sensors, it can detect automatically whether there is a mattress in the machine

The safety barrier surrounding the machine provides a safe working environment
Features a long-life Festo pneumatic system with low air consumption



LM-CON/1300 I PNEUMATIC PRESS CONVEYOR

The pneumatic conveyor line features advanced sealing for finished or semi-finished mattresses, thus ensuring the fail-safe manufacture of more durable mattresses
With its flexible and ergonomic working principle, this conveyor presses various-sized mattresses properly

It measures the length of the mattress thanks to the sensors locating on it and presses the mattress in a centered way
The upper press table can equal out the pressure thanks to a rack and gear

It presses mattresses with various sizes and weights without requiring any adjustment

According to production requirement;
* After pressing the mattress, it can move it back
* After pressing the mattress, it can move it forward
* Or it can be used as a transfer conveyor line, skipping the pressing stage altogether

Following the gluing process, it presses the mattress with 1000 kg pressure; so it improves the sealing process of the mattresses and enables solid mattress production

With its sensors, it detects automatically whether there is a mattress or not and by measuring the length of the mattress, it enables the pressing process at the center of the mattress
The safety barrier surrounding the machine provides a safe working environment
Can be serviced online

Features a long-life Festo pneumatic system with low air consumption

LM-CON/1400 I PRESS & FLIPPER CONVEYOR

This machine is used to flip finished or semi-finished products automatically after the pressing process. The advantage is that pressing and flipping can be conducted in a single machine
With its flexible and ergonomic working principle, it can press and flip mattresses of varying sizes and weights

It can press and flip mattresses of varying sizes and weights without requiring any adjustment

Depending on the production requirements:
*Mattresses can be pressed and moved forward
*or backward
*Mattresses can be pressed, flipped, and reversed
*Mattresses can be pressed, flipped, and moved forward
*Or it can be used as a transfer conveyor line, skipping the pressing/flipping stage altogether
By flipping the mattress during pressing, any risk of damage is avoided

Once the gluing process is complete, the mattresses are pressed with 500 kg of pressure to improve the sealing process and ensure a more robust product
With its sensors, it detects automatically whether there is a mattress or not

The safety barrier surrounding the machine provides a safe working environment
Can be serviced online

Features a long-life Festo pneumatic system with low air consumption



LM-CON/1200I PVC BELT CONVEYOR

Used as a transfer conveyor line at manual mattress assembly systems and automatic mattress production lines

This conveyor line can be used for all mattress production processes apart from gluing stages

The conveyor uses a 2.7 m thick, anti-static, green PVC belt

The chassis is made of 3 mm specially-bended steel sheet

The conveyor drive and idler drum are made of Ø140 mm seamless drawn pipe

The conveyor speed is 20 m/min and speed adjustment are available

The conveyor belt must be stretched between four points to allow for better adjustment

A coupled reducer system has been used in the driving drum

The conveyor can be operated in manual or automatic mode



LM-CON/1100 I SILICON BELT CONVEYOR

Used as a transfer conveyor line at manual mattress assembly systems and automatic mattress production lines
It should be used at the inlet & exit conveyor manual gluing lines as well the areas that run a high risk of glue contamination on the belt
The cleaning process is simplified due to the silicone coating on the conveyor belt
2 mm silicone coated anti-static band
The chassis is made of 3 mm especially bended steel sheet



The conveyor drive and idler drum are made of Ø140 mm seamless drawn pipe
The conveyor speed is 20 m/min and speed adjustment are available
The conveyor belt must be stretched between four points to allow for better adjustment
A coupled reducer system has been used in the driving drum
The conveyor can be operated in manual or automatic mode



AUTOMATIC FEEDING SYSTEM

The system feeds the felt and the foam according to the entered beforehand prescription without requiring any operator

AUTOMATIC PRODUCT ALIGNMENT CONVEYOR

In order to feed the gluing line, this conveyor is being used to align the products automatically such as felt and foam. The error rate has been minimized thanks to its' automatic alignment features



TECHNICAL DATA

LM-GL/1100

Machine Size	W:3200 mm L:5000 mm H:2400 mm
Line Height	900 mm
Max Conveyor Speed	20 m/minute
Capacity	Per product layer gluing/20 sec
Glue Type	Hotmelt
Max. Mattress Height	500 mm
Movable Glue Gun	3 guns 18 nozzles
Fixed and Zigzag Glue Gun	3 guns 18 nozzles
Electric	380 VAC (III+N+TT)
Compressed Air	6 bar