



LM-GL/1300
AUTOMATIC HOTMELT
GLUE MACHINE

YOUR MACHINE PARTNER

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. Movable glue bridge is used instead of fixed sealing bridge used in conventional glue systems. Since the glue bridge is movable, it saves the working area. This glue system is mostly preferred in the foam and quilted panels assembling process. 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.

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

Carcass

GENERAL FEATURES

Optical Sensor at conveyors

Automatic length and width and height recognition

4 guns/16 nozzles are being used at the machine (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



The ROBATECH or NORDSON Hotmelt system is used in the glue bridge. 4 fixed guns /16 nozzles are used. Tank capacity: 30lt. Tank capacity can vary according to our client's request.

STANDARD

Silicon Belt Conveyor

Sealing Bridge

OPSİYON

Mattress Assembly Conveyor with Flipper

Pneumatic Press

Press & Flipper

PVC 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.

Comparison between the existing flippers it saves the working the area since the assembling process is being done in a narrower space.

It flips the mattresses of varying sizes and weights.

Depending on the production requirements

* Mattresses can be flipped and moved back

* Mattresses can be flipped and moved forward

* Or it can be used as a transfer conveyor line, skipping the flipping stage altogether.

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/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.



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/1200 I PVC BELT CONVEYOR

Manuel yatak montaj sistemleri veya otomatik yatak üretim hatları içerisinde transfer konveyörü olarak kullanılmaktadır

Yatak hattı içerisinde tutkal ile yapılan yatak montaj istasyonları hariç her bölümde kullanılabilir

Konveyör üzerinde kullanılan bant 2.7m kalınlığında anti statik yeşil renkli PVC banttır
Şase 3mm özel formda bükülmüş çelik sacdan imal edilmiştir

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/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



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/1300

Machine Size	W:2400 mm L:2500 mm H:2800 mm
Fixed and Zigzag Glue Gun	4 guns 16 nozzles
Max. Line Height	900 mm
Max. Conveyor Speed	20 m/dk
Gluing Capacity	Per Layer and Center Gluing/20 sec
Glue Type	Hotmelt
Max. Mattress Height	500 mm
Electric	380 VAC (III+N+TT)
Air Pressure	6 bar