



UP TO 138 PALLETS PER HOUR!

Rotomatic

Top range of fully automatic ring wrapping machines with a new construction design intended for integration in conveyor lines. Rotomatic is suitable for plants with very high wrapping capacity, high demand for wrapping quality with guarantee of perfect goods fixing on pallet with minimum stretch foil consumption. The high productivity is achieved by the wrapping technology where a pallet is not rotated, but it is placed on a conveyor and wrapped by high speed rotating foil. During this kind of wrapping, no dynamic forces affect the pallet. For the highest wrapping capacity is the machine equipped with two foil pre-stretching devices.

In a fully automatic regime after a pallet with goods moves into machine's wrapping area is automatically initiated a wrapping cycle. When the cycle is completed, Rotomatic sends a signal about the completion for further processing.



Models Rotomatic are capable to start a wrapping from arbitrary position, which allows fixing of only the top or bottom pallet edge with goods, or fixing only the wrapped goods in the middle of pallet's height. Variety of high quality wrapping styles (simple, crosswise, dust-free, moisture-free, roping etc.) are further improved by welding together the foil end and the last foil layer.

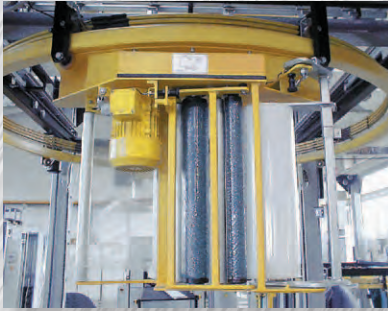
Quality and reliability of the product is achieved by solely own production, using all important pneumatic and electric components from top European manufactures. Construction design is based on experiences from placing and running numerous Rotomatics in extreme conditions such as wet, dusty, hot or frosty. Further experiences gathered over 15 years of machine production are implemented in continuous design improvement delivering the latest technology.

Wrapping machines

ROTOMATIC

Foil pre-stretching device

A digitally controlled single-motor foil pre-stretching device is mechanically pre-stretching stretch foil in available percentages 80%, 120%, 160%, 210%, 250%, 290%. Change of pre-stretch ration is fast and simple operation by changing a gear between the pre-stretching cylinders. Secondary wrapping foil tension may be changed electronically from the control system. The set secondary tension is read during wrapping cycle by a cylinder with an encoder and adjusted to its set value. This tension regulation is also continuously tracking the actual goods dimensions for consistent tension between goods and the pre-stretching device.

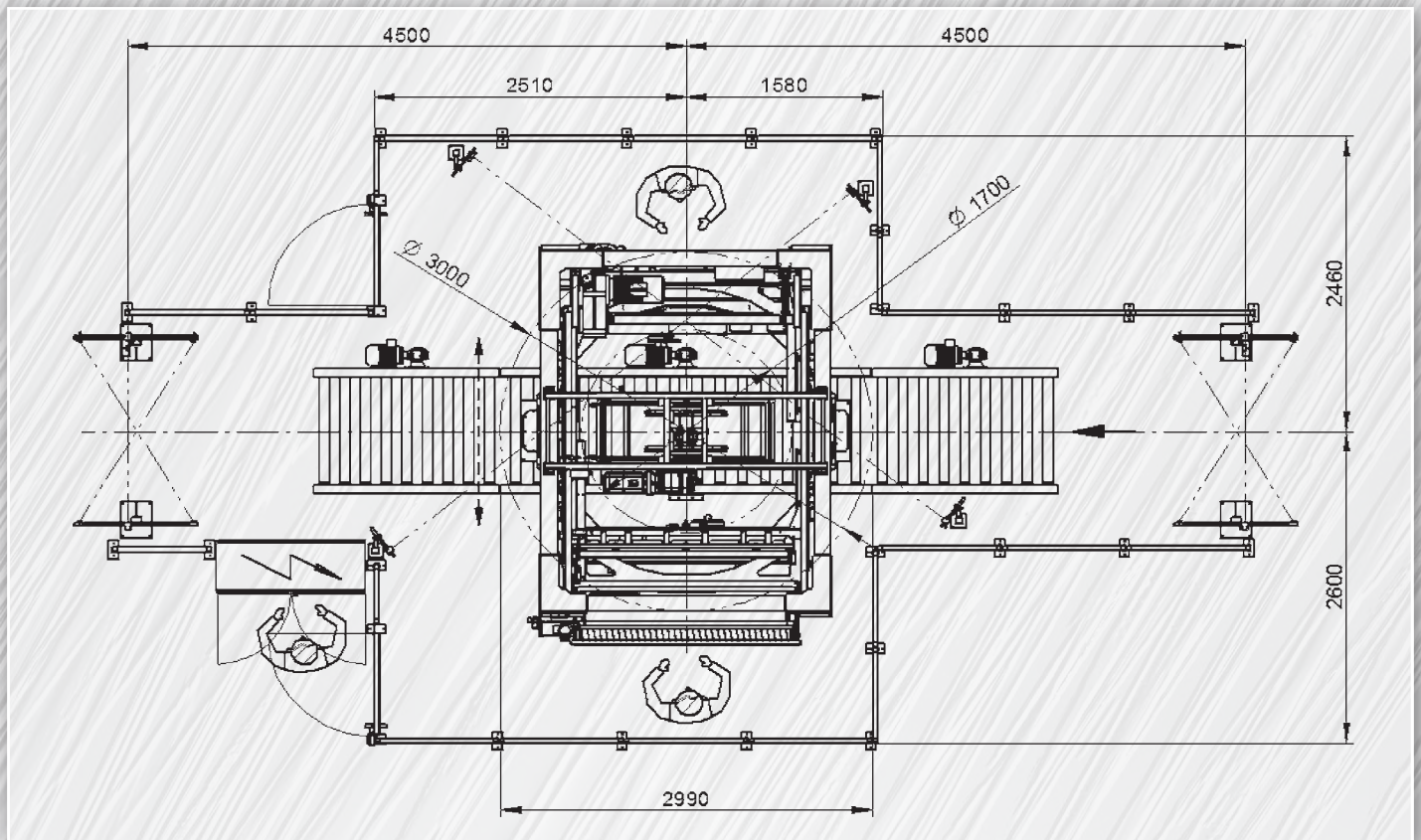


The pre-stretching foil device may be fitted with a foil narrowing (roping) device. This device allows wrapping pallets using on one side narrowed foil (narrowing is partial made upwards). The narrowing allows better bottom foil edge position definition on a pallet. Particularly, in case it is necessary to avoid whole transportation pallet wrapping and provide better goods fixing with the pallet. Note. Lifting device integration in a conveyor is required.

A digitally controlled two-motor foil pre-stretching device is allowing settings adjustment of primary and secondary wrapping foil tension by the control system. The set secondary tension is read during wrapping cycle by a cylinder with an encoder and adjusted to its set value. This tension regulation is also continuously tracking the actual goods dimensions for consistent tension between goods and the pre-stretching device.

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Installation layout (Rotomatic Profi+ Double)



■ FAST WRAPPING ■ ECONOMICAL ■ HIGH QUALITY WRAPPING ■



Control system

The wrapping machine is fitted with a control system (PLC) operated from the operator's panel allowing to save up to 20 wrapping programs. Saving wrapping setting as individual programs allow fast or automatic selection of wrapping type (simple, crosswise, dust-proof, water-proof, wrapping of single strips); the selection of used optional devices; setting of wrapping parameters in its individual stages (prestretching, speed, rotations, etc.) or strengthening of the wrapping at defined wrapping heights.

In fully automatic regime is PLC activated by pallet movement on conveyors or eventually manually from the

wrapping machine's control panel. Errors are reported by the integrated module with recorded faults history allowing easy identification of a reason causing wrapping interruption. Communication with the conveyor line control system is performed via communication signals or Ethernet.

Ending device

Stretch foil end is secured by fitted the device for welding of last two layers and the foil end. Devise process at the same time welding, foil cutting and holding of the loose end for the next wrapping cycle.

Additional equipment

Machine second reference position

Increases machine wrapping capacity in case various heights of goods are wrapped.

Measuring remaining foil

A device measuring remaining foil supply and signaling low foil reserve to be depleted in a short time. Required time for foil change is adjustable and can be set by an operator.

Top-sheet cover applicator

An optional device capable application of a protective foil sheet on the pallet's top. Application can be performed during pallet wrapping known as the dust-proof (under foil layers only) or the water-proof (between foil layers).

Top-sheet air holder

A device for additional air blow on the overlapping top-sheet foil increases its stability from disruptive winds and at the same time allows to increase a wrapping speed.

Top platen device

Mechanism increases stability of wrapped goods by generating a force pushing goods against a pallet. Device is suitable for high, light or unstable wrapped goods. Principle is a mechanical scissor-like device lowered from the top of machine's frame.

Pallet lifting device

This additional device allows under-wrapping of pallets. Before the wrapping cycle starts, a pallet is lifted-up above a conveyor and thus the pallet may be wrapped by foil on its bottom edge. Under-wrapping increases wrapped goods connection with a pallet.

In the case of roping, improved wrapping quality to the top pallet plank is achieved by means of a foil rope (for smooth palletizing in automatic shelf storage systems).

Safety fences (standard version)

Safety fencing prohibits operating personnel from entering wrapping area of the machine. When a safety door is opened, the wrapping cannot be initiated. Opening door during wrapping cycles stops the machine immediately.



Electronic safety equipment

Automatic machines must be equipped with electronic barriers in areas where pallets pass through. Due to that it is not possible to install fences preventing operating personnel entering into areas where automatic movements or wrapping cycles are under way.

Conveyors

As a part of delivery it is possible to supply all conveyors that are necessary for pallets transportation to and from the machine wrapping area.



■ SIMPLE OPERATING ■ FULLY AUTOMATIC ■ RELIABLE FIXATION



Additional equipment	Light	Standard	Profi
Pre-stretch 1MotorDriven	YES	YES	YES
Pre-stretch 1MotorDriven Double	NO	YES	YES
Pre-stretch 2MotorDriven	NO	YES	YES
Foil narrowing (roping) magnetic	NO	YES	YES
Machine second reference position	YES	YES	YES
Measuring remaining foil	NO	YES	YES
Top-sheet cover applicator	YES	YES	YES
Top platen device	YES	YES	YES
Top-sheet air holder	YES	YES	YES
Pallet lifting device	YES	YES	YES
Safety fences	YES	YES	YES
Electronic Safety equipment	YES	YES	YES
Conveyors	YES	YES	YES



Control panel ROTOMATIC

Technical specification	Light	Standard	Standard+	Standard+ Double	Profi	Profi+	Profi+ Double
Max pallet diameter [mm]	1205 x 1250	1205 x 1250	1205 x 1250	1205 x 1250	1205 x 1250	1205 x 1250	1205 x 1250
Min pallet diameter [mm]	600 x 600	600 x 600	600 x 600	600 x 600	600 x 600	600 x 600	600 x 600
Max wrapped goods height [mm]	According to specification						
Min wrapped goods height [mm]	500 (1000 with top-sheet)						
Wrapping capacity up to [pal/hour]	77	83	96	113	104	111	138
Ring speed [1/min]	35	45	45	45	60	60	60
Lift speed [m/s]	0,16	0,21	0,42	0,42	0,27	0,55	0,55
Foil width [mm]	500						
Foil diameter [mm]	250						
Width of top-sheet foil [mm]	1600						
Operating voltage	3x400V, 50Hz						
Max machine input [kVA]	18	23	30	32	30	37	45
Operating air pressure [MPa]	0,6 - 1						
Machine width (without fence) [mm]	3340	3340	3340	3340	3340	3340	3340
Machine length (without fence) [mm]	3000	3000	3000	3000	3000	3000	3000

The above-mentioned wrapping capacity depends on the particular wrapping parameters, goods dimensions and machine specification.

For all Rotomatic models is provided 12-month material warranty.

The manufacturer reserves the right to change technical parameters due to innovation or upgrade.