

AV

PALLET WRAPPERS



 **PAGLIERANI**

mechatronics at its best

Paglierani World

Paglierani offers you 10 fundamental benefits for strengthening your business.



SINGLE PARTNER

From a single machine to a complete line, from a simple standard system to a custom solution, Paglierani is your single partner to **reduce costs and risks** in the realisation of a high-performance plant.

99.9% RELIABILITY

Standard machines industrially constructed, almost a century of know-how in the weighing and bagging field are your guarantees of **high-performance and reliable machines**, perfectly **coordinated** with **the upstream and downstream machinery**.



3

EVEN IN AGGRESSIVE ENVIRONMENTS

For use in aggressive environments, the machines are treated with **anti-corrosion painting** cycles and the parts in contact with the product are in **stainless steel**, nuts and bolts included.



4

SAFETY AND REGULATORY COMPLIANCE

Perimeter protection and light curtains guarantee the most complete **extrinsic safety** while **intrinsic safety** is ensured by the machine's construction type.



5

ITALIAN MADE

All Paglierani products are **designed, produced and assembled in Italy**, in our plants. With an all-Italian know-how to guarantee the highest quality level.



6

REFERENCES ALL OVER THE WORLD

Our installations have been improving our customers' business **since 1926**. Almost a century of experience in the field and hundreds of **references across the globe**.



7



8



9



10

PRE-SHIPMENT TESTING

Prior to shipment, all machines are **pre-assembled, connected and tested**. Thus ensuring their proper functioning and high performance. During this procedure, **the customer may attend all tests**.

USER-FRIENDLY & SMART

Machines and complete lines that are **easy to use, quick to clean and simple to maintain**. Constantly monitored remotely with the **on-line service**.

TECHNOLOGY AND SUSTAINABILITY

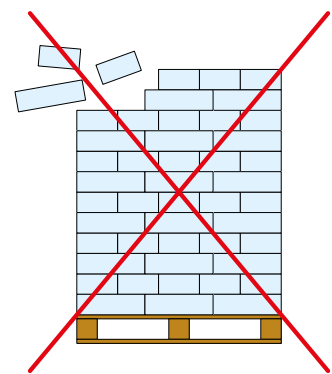
Our machines are designed to guarantee **optimal use of energy** and deliver the highest performance with **minimal consumption**.

ORIGINAL SPARE PARTS. ANYTIME AND ANYWHERE

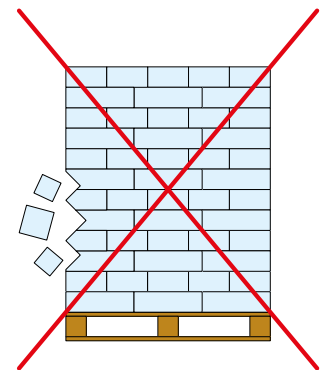
The high and constant availability of original spare parts, **guaranteed for machines' entire lifecycle**, makes Paglierani a totally reliable partner, with **fast deliveries anywhere in the world**. And your business is guaranteed to never stop.

Wrapping of the palletised load guarantees:

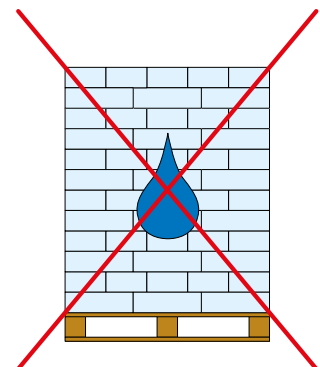
Stability of palletised load during transport and storage.



Protection of palletised load from damage from knocks and collisions.

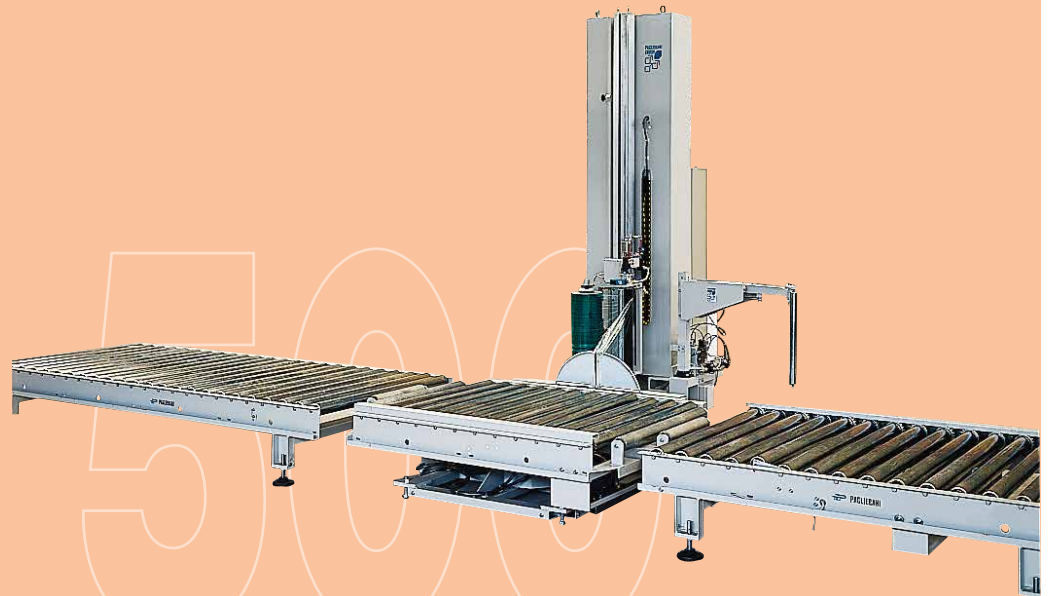


Protection from damp and rain thanks to hooding (optional).



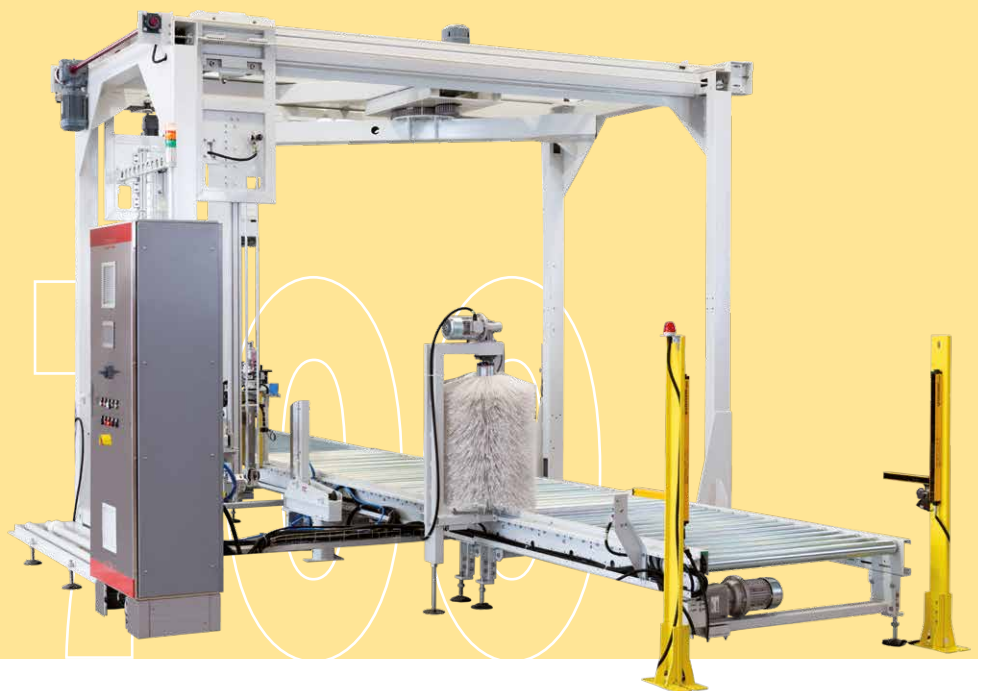
AV 500

- ✓ Fully automatic rotating
- ✓ Pallet wrapper
- ✓ For medium throughputs



AV 700

- ✓ Fully automatic
- ✓ Rotating arm wrapper
- ✓ For high throughputs



AV 500

**ROTATING
PALLET WRAPPER**

MEDIUM THROUGHPUTS

**FULLY
AUTOMATIC**

**WRAPPED PALLET
REMOVAL IN-LINE
OR AT 90 DEGREES**

The AV 500 provides a fully automated wrapping process with medium production rates.

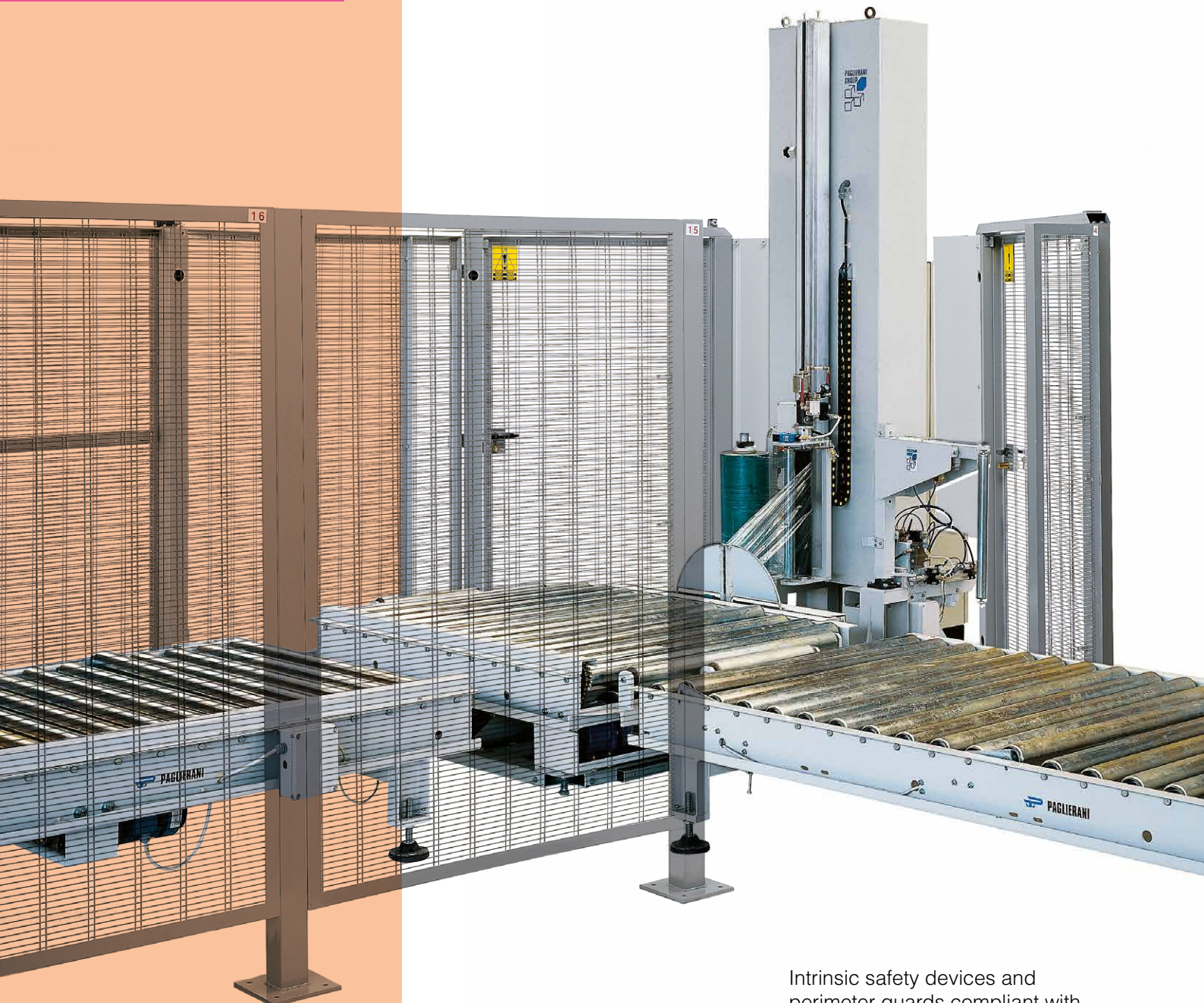
All operations are automatic, with no manual procedures required.

The alarms provided are:

- film breakage
- end of film

Suitable for in-line installation downstream of an automatic palletiser.

The rotating base allows full pallet removal both in-line and at 90 degrees.



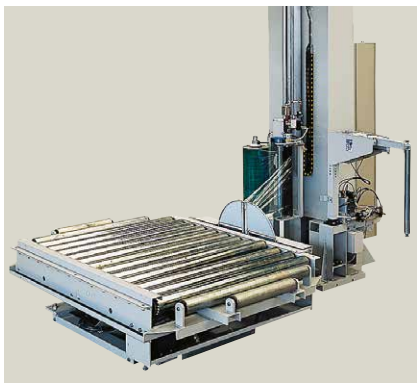
Intrinsic safety devices and perimeter guards compliant with international safety regulations.

GENERAL CHARACTERISTICS

- **Rugged steel frame.**
- **Turntable base** complete with motorised roller bed for automatic full pallet positioning and removal, designed to ensure palletised load stability even at the highest wrapping speeds.

ROTATION SPEED

Speed is controlled by a variable frequency drive (inverter).



- **Reel stand** designed for simple, quick replacement, to minimise machine downtimes.
- **Film tension control** with precise, constant adjustment.
- Variable speed reel **raising and lowering** (with inverter) for adjustment of wrapping "spiral" (film overlap %).

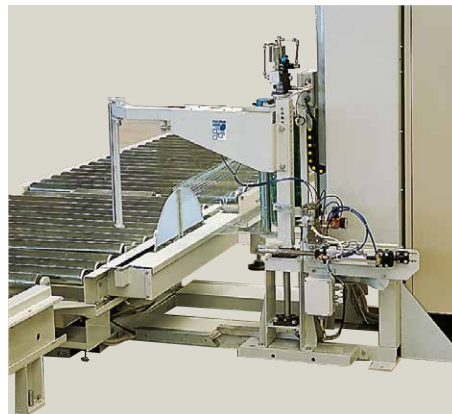


- **Automatic pallet height detection photocell** for "self-regulation" to pallets of different heights.

- **Film retainer and cutting clamp** for automatic gripping of leading edge.



- **Pneumatic arm** for perfect adherence of end of reel, avoiding "tail end" effect.



- **Programmable control unit (PLC)** for control and integration with upstream machine (palletiser).



OPTIONALS

- **Feed roller bed with motorised rollers,** complete with photocell for full pallet detection.

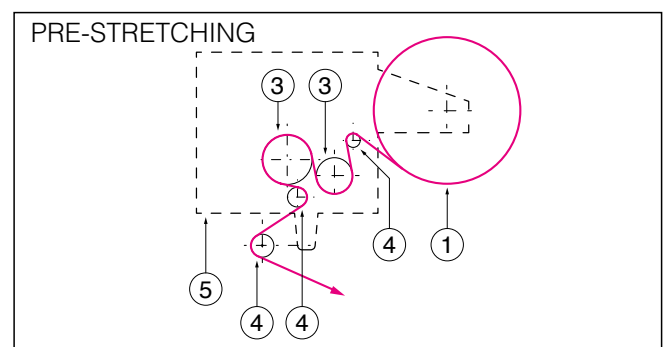
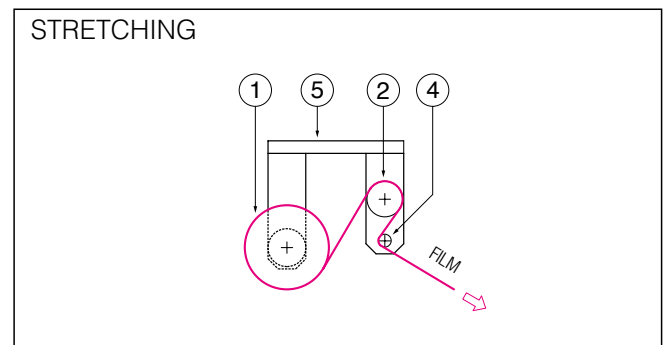


- **Wrapped pallet parking roller bed** (with idle or motorised rollers depending on plant requirements).

Feed roller bed with motorised rollers, complete with photocell for full pallet detection and stopping of upstream machinery when holding space is full.

- **Film pre-stretching,** to 200% (*) before application (particularly recommended for lightweight, fragile palletised loads)

- ① Film reel
- ② Friction roller
- ③ Motorised roller
- ④ Idle roller
- ⑤ Bearing structure



AV 700

ROTARY ARM PALLET WRAPPER

MONOLITHIC STRUCTURE

SMALLER OVERALL SIZE

HIGH PERFORMANCES

**FULLY
AUTOMATIC**

The AV 700 automatic pallet wrapper is simple, rugged and with excellent technical features to deliver high performances.

The monolithic structure minimises assembly costs (the machine is shipped fully assembled) and overall dimensions.

All operations are automated and no manual procedures are required. Alarm functions include:

- film breakage
- end of film

Suitable for in-line installation downstream of an automatic palletiser.

Complete with perimeter guards and intrinsic safety devices compliant with international safety regulations.



GENERAL CHARACTERISTICS

- **Rugged steel frame** (monolithic structure).
- **Rotary arm** supporting the wrapping reel. For the very best performances, rotation speed is controlled by a variable frequency drive (inverter) enabling adjustment of:
 - acceleration ramp (start-up)
 - deceleration ramp (cycle end)
 - wrapping speed.



- **Reel holder device**, mounted on the rotary arm, designed for simple, quick replacement, to minimise machine downtimes.



- **Film tension control** with precise, constant adjustment.
- Variable speed **reel raising and lowering** (with inverter) for adjustment of wrapping "spiral" (film overlap %).
- **Automatic** pallet height **detection photocell** for "self-regulation" to pallets of different heights.

- **Film retainer and cutting clamp**, for automatic gripping of leading edge and cutting on completion of procedure.



- **Pneumatic brush**, installed on palletised load roller conveyor for perfect adherence of end of reel, avoiding "tail end" effect.



- **Operations controlled** via programmable controller (PLC), which also provides integration with upstream machine (palletiser).

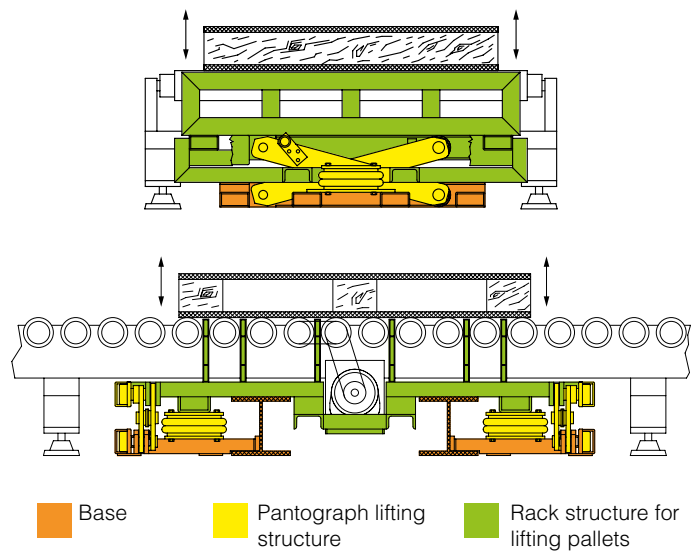


OPTIONALS

- **Feed roller bed with motorised rollers,** complete with photocell for full pallet detection.

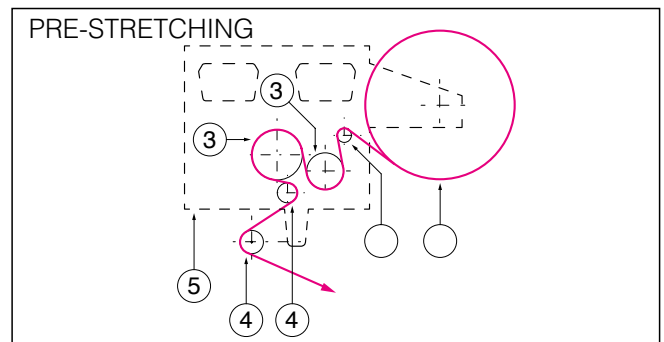
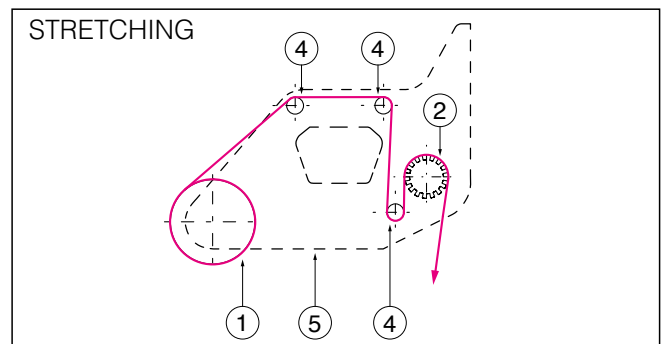
- **Wrapped pallet parking roller bed** (with idle or motorised rollers depending on plant requirements).
Feed roller bed with motorised rollers, complete with photocell for full pallet detection and stopping of upstream machinery when holding space is full.

- **Pneumatic full pallet lifting device** to enable complete wrapping of the base.



- **Film pre-stretching**, to 200% (*) before application (particularly recommended for lightweight, fragile palletised loads, it also allows use of a maxi-reel to increase operating autonomy).

- ① Film reel
- ② Friction roller
- ③ Motorised roller
- ④ Idle roller
- ⑤ Bearing structure



TOP 601

AUTOMATIC PALLET HOODING MACHINE

AV 500 + TOP 601

The TOP 601 can also be retrofitted to complete the AV 500 or AV 700 pallet wrapper.

The pallet hooding machine consists of a free-standing frame which can be installed in front of the AV 500 pallet wrapper, or a device to be incorporated in the structure of the AV 700 wrapper.

This exclusive feature allows **costs to be kept down** without precluding the possibility of future adoption.

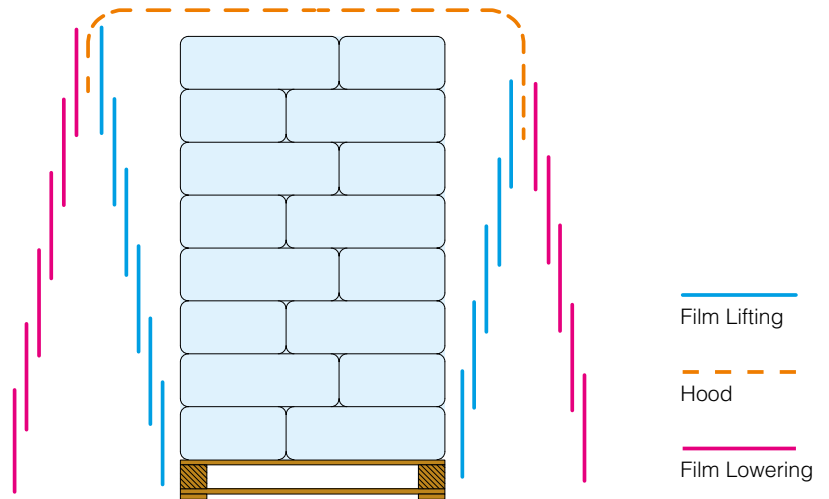


AV 700 + TOP 601



GENERAL CHARACTERISTICS

- The **top of the pallet** is protected through application of a protective hood.



- **Reel stand.**

For quick, easy changing, the reel stand is about 800 mm above floor level (the natural working position corresponding to the height of the full pallet). Raising and lowering is electric, powered by a geared motor. There is a reel end alarm.

Technical specifications

Film on reel
Max. diameter 250 mm
Max. width 1950 mm
Film thickness 80/120 microns
Autonomy 150 pallets*.

* Data vary depending on type of film used and palletised load dimensions.



Version for combination with AV 500



Version for combination with AV 700

GENERAL CHARACTERISTICS

- **Film pulling and application clamps.**

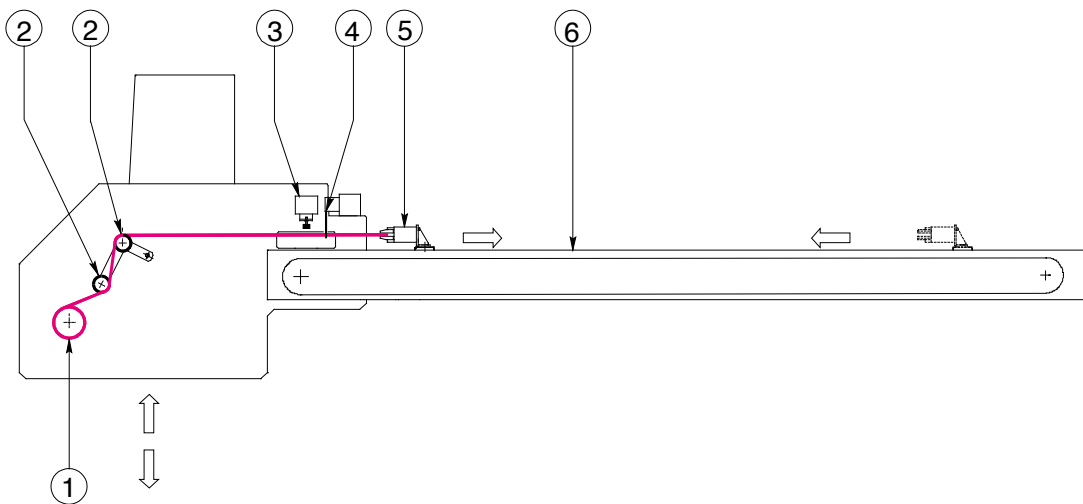
The film (hood) is pulled horizontally by a set of clamps, which grip the leading edge and place it on top of the full pallet.



- **Cutter blade.**


Once unwound, the film is cut by a pneumatically operated longitudinal blade.


- **Automatic pallet height detection photocell** for “self-regulation” to pallets of different heights.



- | | |
|-----------------|--|
| ① Film reel | ④ Cutter blade |
| ② Idle rollers | ⑤ Clamp which grips film and places it on the pallet |
| ③ Film pressers | ⑥ Vertically mobile bearing structure (automatically raised and lowered depending on full pallet dimensions) |

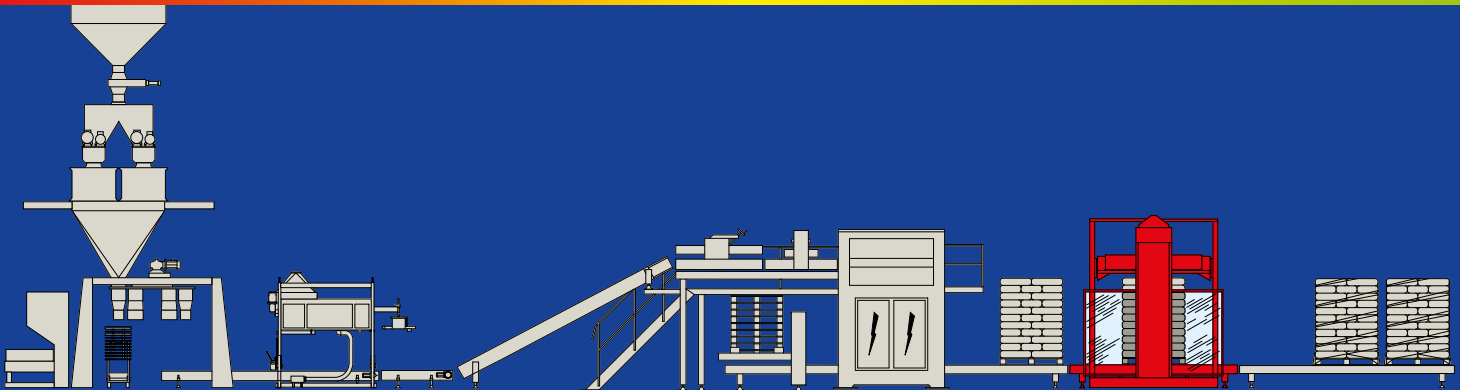
TECHNICAL FEATURES

	MAX PALLETISABLE LOAD	TABLE ROTATION SPEED	FILM ON REEL	CHOICE OF 5 WRAPPING CYCLES	PALLET HEIGHT ABOVE FLOOR
AV 500	1,4 x 1,2 x 2 (h) m 2000 kg	carousel mean rotation speed 7-8 rpm Up to 12 rpm	Max. diameter 250 mm (Stretching) Max. height 500 mm Film thickness 20/30 microns Autonomy 70/80 pallets (*) Maxi-reel diam. 350 mm (Pre-stretching) for autonomy of 125 pallets (*)	2 default 3 customisable to individual preferences	500 mm

	MAX PALLETISABLE LOAD	ARM ROTATION SPEED	FILM ON REEL	CHOICE OF 5 WRAPPING CYCLES	PALLET HEIGHT ABOVE FLOOR
AV 700	1,4 x 1,2 x 2 (h) m 2000 kg	average 10-11 rpm max 20 rpm.	Max. diameter 250 mm (Stretching) Max. height 500 mm Film thickness 20/30 microns Autonomy 70/80 pallets (*) Maxi-reel diam. 350 mm (Pre-stretching) for autonomy of 125 pallets (*)	2 di default 3 customisable to individual preferences	500 mm (Variable from 470 mm to 550 mm)

(*) Data vary depending on type of film used and palletised load dimensions.

PAGLIERANI: A LINE COMPOSED OF STRONG POINTS.





PAGLIERANI

**WEIGHING, PACKING FILLING, PALLETISING &
STRETCH WRAPPING SYSTEMS.**

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