



Packaging Machinery & Systems  
made for you



Automatic Rotary Arm  
Pallet Wrapper

**ARM 3500**

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## STANDARD MACHINE TECHNICAL CHARACTERISTICS

- Powered pre-stretch carriage 300% with anti-entanglement and roping system.
- Load height detection by photocell (Optional: detection by ultrasounds for black loads).
- Rotary arm transmission by sprocket.
- Reel carriage transmission by ½ chain.
- Soft start and indexed stop with **SCHNEIDER** speed inverter.
- 3ALL feature: clamping, cutting and dolly heat sealing.
- Wrapping cycles counter.
- Independently adjustable top & bottom reinforcement wraps.
- Independently adjustable roping system to reinforce the load.
- Light and sound indicators for functioning signals and alarms.
- Controlled by **PLC SIEMENS**.
- Panel control with touch screen.
- Production: **± 50 pallets/hour** (variable depending on the characteristics of the load, number of wraps, etc.)
- 10 customizable programs by the user: starting, upper and final wraps, overlapping lapse, roping, etc.

### Options

- Central powered roller conveyor (optional)
- 1.800 mm high safety fences with access doors and photocells for anti-intrusion for the infeed and outfeed of the load with muting alarms (optional)
- Pallets lift table to wrap the load and the pallet (optional)

### Motorized pre-stretch carriage

Powered pre-stretch carriage 300% with anti-entanglement and roping system (Optional: 150%, 200%, 400% pre-stretch)

Motorized pre-stretch 300% with roping system and electronic regulation (optional)

**Roping system:** this feature provides a rope which can be programmed at different heights of the load to reinforce and stabilize the pallet. Recommended for unstable loads or loads in layers.



### 3ALL system

Thanks to this system, the 3 independent external mechanical elements are replaced and integrated in just one single unit, which performs the same 3 functions: clamping, cutting and dolly heat sealing.

Also, a rope in the film is made in the final stage, which allows the heat sealing of any kind of film (stretchable, microperforated, etc.) and with any thickness, thus avoiding the loose tail of film which appears without this system.

This system also avoids its mechanical maintenance, as it does not have any obstacles.



### No minimum wrapping height required

Thanks to the combination of the different features in the 3ALL system, there is no minimum load height required to wrap the complete pallet down to the bottom deck board.



### Lift table (Optional)

In order to wrap the load along with the pallet, the option of the lift table is recommended in order to raise the pallet completely.

It is located under the central powered rollers conveyor. A fixed structure to the lift table goes in between the rollers to raise the load.



### Control panel and electrical enclosure

#### Touch control screen

The wrapper has a user-friendly and intuitive touch control screen which facilitates the operations and settings of the machine. All possible parameters are programmed, as well as the movements and interconnections. Different user profiles can be set through password access.



#### Electronic control

The wrapper is controlled by a **Siemens PLC** which is integrated in an electrical board, which makes its future maintenance and spare parts replacement much easier and cost-saving, in comparison with different electronical boards offered by other manufacturers.

#### Electrical enclosure

It is coupled to the wrapper column to centralize inside all the interconnections and to ease its transportation.

The cabinet, besides the own connections of the machine, has enough space for additional interconnections, such as for conveyors, palletizers, etc.



## OPTIONS AND ACCESSORIES



### Powered top platen

It holds the load at the top of the pallet without deforming it while the pallet is being wrapped avoiding the risk of the product collapse.

### Top Cover Dispenser TDM1800 (Optional)

Accessory which allows to dispense a cover of film to do a complete wrapping. Depending on the position and the functioning cycle of the machine, the wrapping will provide a dust or rain protection.



### Special environments (explosive environments, corrosion, sub-zero, ...)

We have experience and we can provide proven solutions for explosive environments (ATEX), corrosive environments (Stainless Steel) or sub-zero temperatures (down to -30 °C).

Examples of automatic pallet wrapping lines with the model ARM3500



Automatic pallet wrapping line with:

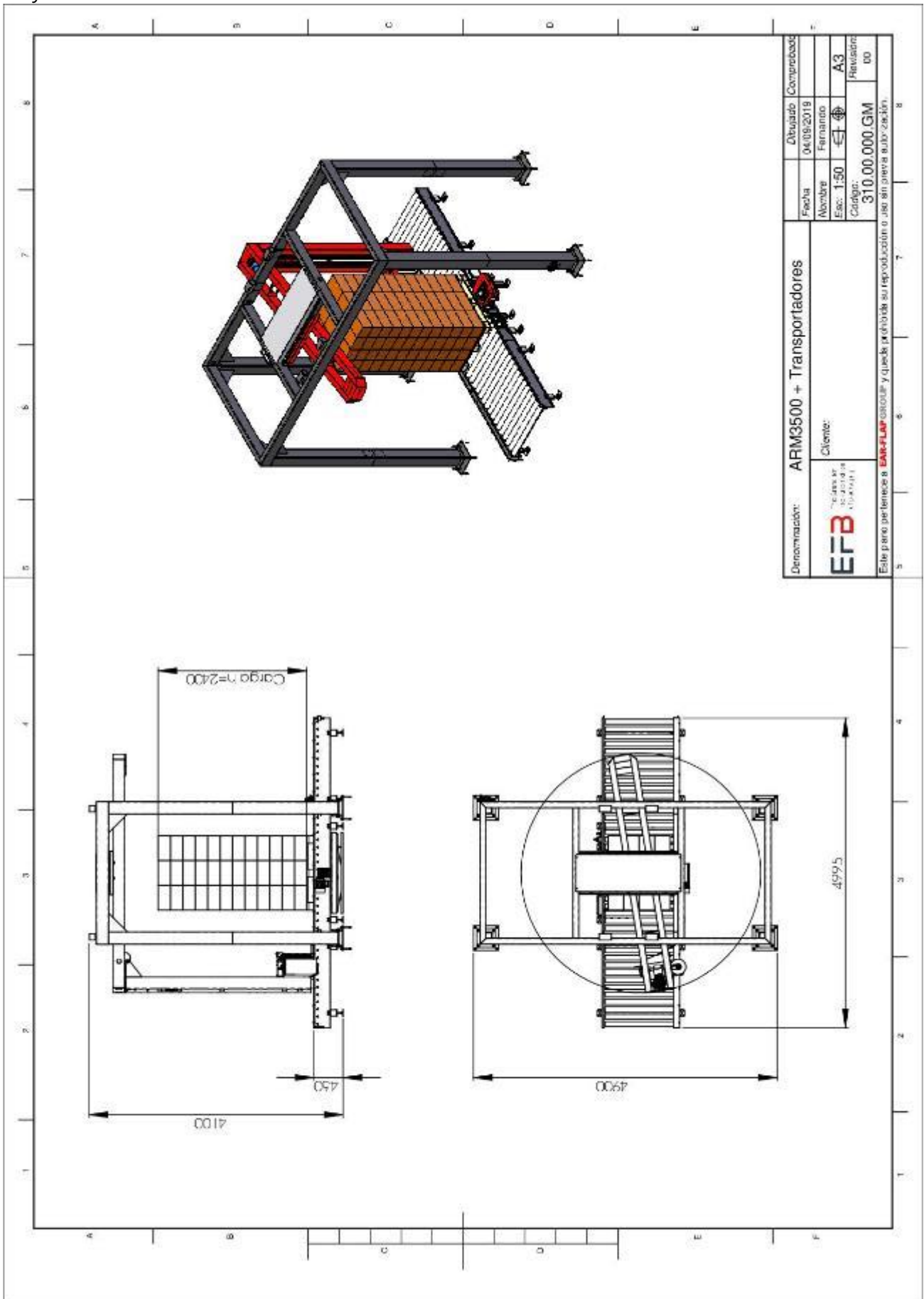
- Automatic pallet wrapper model ARM3500
- Central motorized rollers conveyor
- Pallets lift table
- Infeed and outfeed motorized rollers conveyors.
- Turntable with motorized rollers conveyor.
- Safety fences.
- Muting safety barriers.

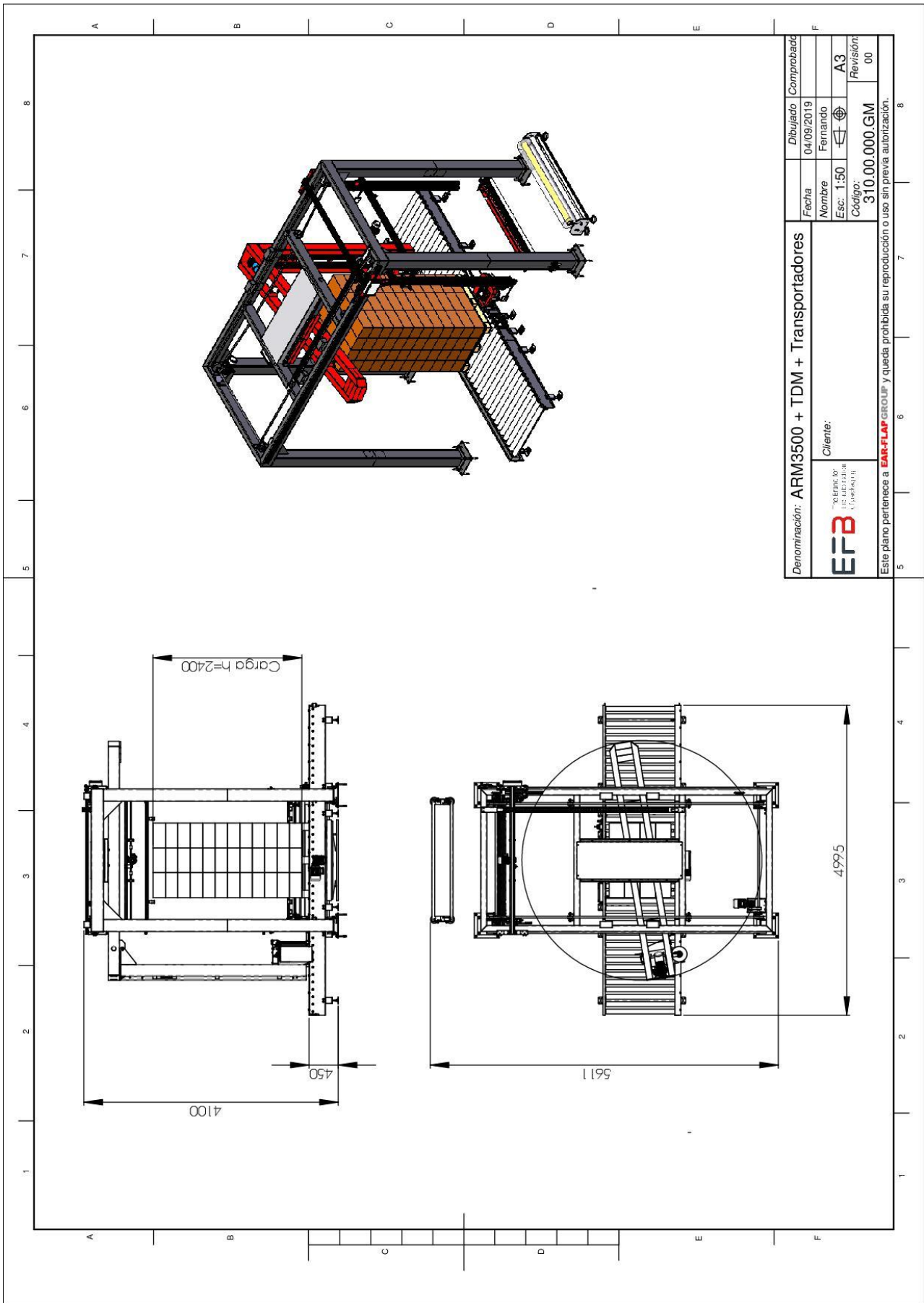


<b>Stretchable film specifications</b>	
External Ø:	240 ± 250 mm
Inside Ø:	76 mm
Reel height:	500 mm
Thickness:	17 – 50 µ
Max. weight:	20 kg
<b>Electric features</b>	
Electrical power:	400 V III + N + TT 50 Hz
Installed power:	4.5 Kw
Electrical protection:	IP 54
Wiring protection:	Hose and/or tray
Compliant with	EN 60 204-1, EN 60 617
<b>Pneumatic features</b>	
Compressed air infeed:	6 bar
Compressed air consumption:	10 l / cycle + 60 l/blown sec.
<b>Other characteristics</b>	
Noise level:	70 dB (A)
<b>Standard main components</b>	
HMI:	LCD touch screen
PLC:	SIEMENS
Pneumatic component:	SMC
Frequency inverters:	SCHNEIDER
Motors and gearmotors:	TRANSTECNO or similar
Other elements or brands on request (it can add an extra cost)	
<b>Colors</b>	
RAL fixed parts:	7016 (Dark Grey)
RAL moving parts:	3020 (Red)
RAL protections:	Fence: 9011 (Black), Posts: 1018 (Yellow)
Other colors on request (it can add an extra cost)	

<b>Technical features</b>	<b>Standard</b>
Maximum height	2.400 mm (consult for other heights)
Pallet maximum dimensions	Up to 1.200 x 1.000 mm (consult for other dimensions )
Film carriage	Pre-stretch 300% with rope system
Soft start/stop with frequency inverter	Standard
Load height detection by photocell	Standard (consult other options)

### Layout of the standard machine





Denominación: ARM3500 + TDM + Transportadores		Fecha	Dibujado	Comprobado
Cliente:		04/09/2019	Fernando	
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