

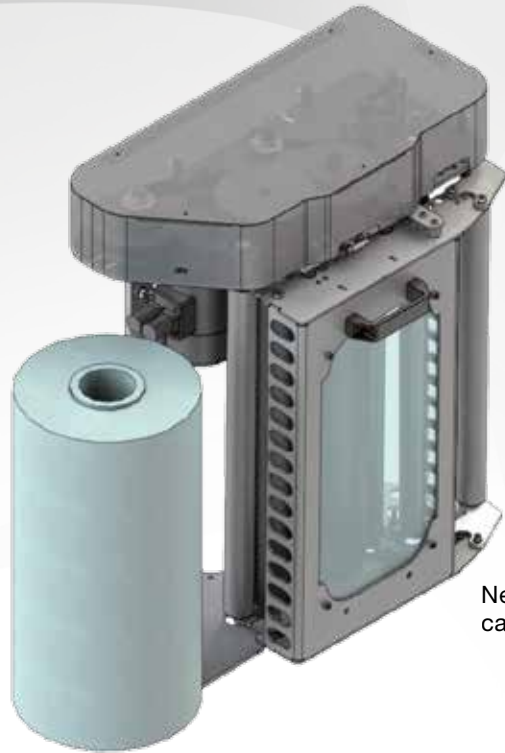


SIAT

M. J. MAILLIS GROUP

Automatic Wrapping

Mancon
RA-Range
WS-Range
MFP - MFB
AVO ORB
AVO-T



New VIKING carriage



RA-RANGE



MANCON



AVO ORB

Mancon Range

All the machines of this range are made with strong and robust tubular steel frame with four telescopic supports (legs) and equipped with stiffening ribs on the feet and on the points of maximum stress (computation of the structure finite element Cosmos).

Thanks to their standard carbon fiber ring (patent M.J. Maillis Group), Mancon models are capable of reaching high speeds with a low level of inertia.



On Mancon range models it is possible to determine the required PLr.

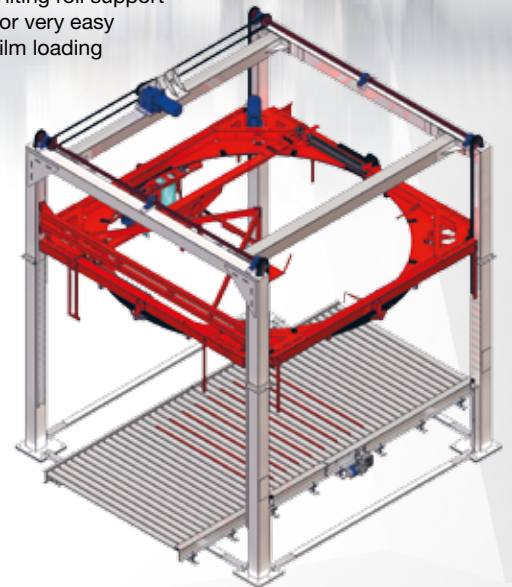


Key Features

- Electrical distribution rotating Wampfler 6 rails industrial system and signal transmission by certified Phoenix Contact Bluetooth®.
- Values obtained by mechanically stretching with pairs of pulleys to ensure repeatability in time. Available values from 20% to 400%.
- Three kits supplied as standard: values chosen by the customer. Locking system of the door of the stretch carriage with "No Thread" to maximize operator's actions. Spindle-holder with an opening angle of 40° for a perfect ergonomic position of the operator.
- Automatic pallet height reading photocell.
- The stretch carriage is fitted with a low-inertia motor (servomotor Lenze) controlled by vectorial inverter to ensure an absolutely constant value on film consumption.
- Treatment film end with welding infrared (patent M.J. Maillis Group) to ensure a pallet without any tape of film tail and a perfect welding of the whole film.
- Wiring with Profibus fieldbus modules distributed.
- Electrical control panel with Siemens® S7 300 PLC (optional Allen Bradley® brand) and Proface display operator interface. Other brands on request.
- The machine has 15 programs freely customizable.
- The machines are fully configurable with many additional options. Please ask for any further detail may you need.



Tilting roll support for very easy film loading



Technical features	Mancon 1710		Mancon 2265		Mancon 2800a		Mancon 3500	
	std.	maxima	std.	maxima	std.	maxima	std.	maxima
Maximum pallet diagonal	1710	1650	2265	2150	2800	2700	3600	3500
Max rotation speed (rpm)	50 rpm		40 rpm		32 rpm		25 rpm	
N° of pre-stretch carriages	One (std) Two (option)	Two	One (std) Two (option)	Two	One (std) Two (option)	Two	One (std) Two (option)	Two
Ergonomic (no thread) film roll loading	standard for all the machines models							
Available pre-stretch ratios	from 20% up to 400%							
N° of seaming unit/s	One	Two	One	Two	One	Two	One	Two
Type of film sealing	Infrared seaming (std) or hot wire welding-cutting system (option)							
Integrated Top Sheet (waterproof)	Optional	n/a	Optional	n/a	Optional	n/a	Optional	n/a
External Top Sheet (dustproof)	Optional							
Motorised Pantograph top press	Optional							
Motorised Film Roping device	Optional							
Pneumatic Pallet lifter	Optional							
Integrated automatic corner applicator	Optional							
No-Lube System (for food industry)	Optional							

for more details:



RA-Range

The RA machine is a fully automatic rotary arm pallet stretch wrapping machine.

The machine, suitable for medium to high production rates, has been designed for unstable loads and can be installed at the end of any automated production line or as stand-alone unit, with integrated in-feed and out-feed conveyors. The RA machines have a state-of-the-art power pre-stretch unit, which combines fixed pre-stretch options up to 300% with precise lay-on force control. Thanks to this combination, the end user will be able to obtain a compact and high quality pallet packaging.

The clarity of touch-screen control unit ensures flexibility and high functionality: easy set-up, fault-finding function and manual control of any part of the machine. The machine parameters are simply set by the operator entering the required pallets per hour and film overlap. The machine can be equipped with a film seaming unit and different other options. Safety is provided by mechanical guarding with one interlocked door and light guards on the in-feed and out-feed areas. The machine is in compliance with all european standards and is CE certified.



RA & WS range can be equipped with the New PW-VIKING carriage



model:	Maximum pallet mm	Diagonal mm
RA13-11	1300 x 1100	1710
RA14-14	1400 x 1400	1980
RA16-16	1600 x 1600	2265
RA18-18	1800 x 1800	2545
RA20-20	2000 x 2000	2830
RA26-26 DL	2600 x 2600	3675

Key features:

Stretch film roll dimensions (mm)	500 (W) x 300 (ø) x 76 (ø Optional 750)
Top sheet roll width	from 1200mm up to 2400mm
Rotation speed	up to 34rpm (depending on model)
Capacity	up to 80 pallet/hour depending on wrapping pattern and machine model
Film tension (lay on force)	completely adjustable from HMI on each program step
Control	by Siemens® S7-1200 / S7 - 300 PLC with color touch-screen Panel

Touch screen detail



Standard pre-stretch PW Carriage



External Top Cover Units (optional)



New compact welding clamp

PATENTED

for more details:



WS-Range

WS-46 & WS-47

Automatic turntable pallet wrapping machine range

for more details:



The WS 46/47 models are fully automatic rotating turntable stretch wrapping machines.

These machines are designed for low to medium duty wrapping applications. WS46/47 machines are available in different configurations, with the possibility of 90° pallet in-feed and out-feed mode.



PATENTED



Touch screen detail

The integrated roller conveyor with narrow pitch rollers ensures a safe and smooth movement of all types of pallet. The WS 46/47 machines are fitted with state-of-the-art motorized MAILLIS PW spool carriage for up to 300% pre-stretch and easy film insertion (No Thread®). Machines also include, as standard, clamping,

cutting and brushing unit for stretch film treatment at the end of cycles. The WS range models are equipped with Siemens® PLC and touch screen HMI for more intuitive control and advanced features.

On WS range models it is possible to determine the required PL.



Strong "crown bearing" for turntable support and drives



PW carriage - Motorized roping system

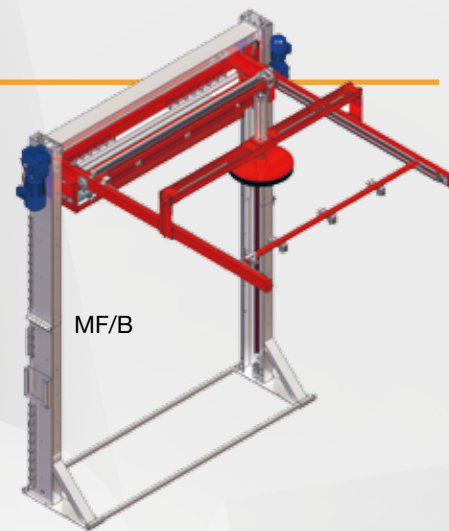
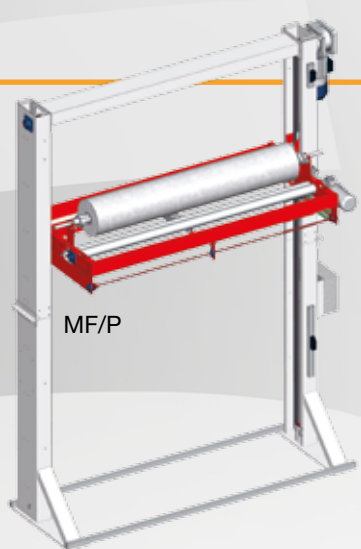
MFP-MFB

The MF/B is a top sheet dispenser designed to unroll a polythene film sheet and to apply it on the top of the load.

The unwinding process of the coil is performed by pneumatic clamps (mechanically moved). The loads height is detected by photocells, allowing a complete automation of the machine. The coil can be charged at the feet of the machine or alternatively on the unwinding frame.

The MF/P model is a bridge top sheet dispenser conceived to be installed across conveyor lines. It is designed to unroll a polythene film sheet on the top of every type of load while the pallet passes by conveyors.

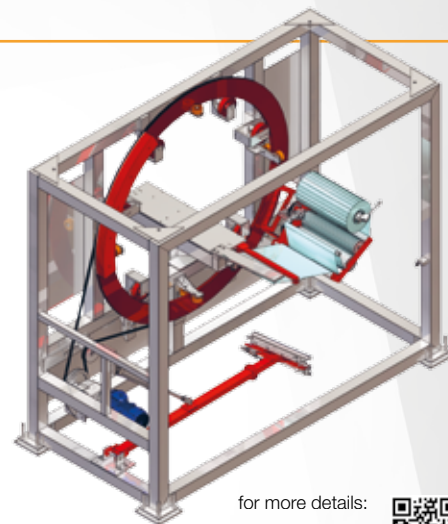
for more details:



AVO-ORB

The AVO/ORB model is an automatic orbital rotating ring wrapping machine.

It is ideal to be integrated into fully automatic lines with conveyors. The machine wraps small and big packages in spiroidal pattern. The pre-stretch ratio is electronically adjustable from 0 to 300%. Adjustable film overlapping and reinforcement at specific points of the package are just some of the functions of this machine. It can also be equipped with two pressure units to hold light loads during the wrapping cycle.



for more details:

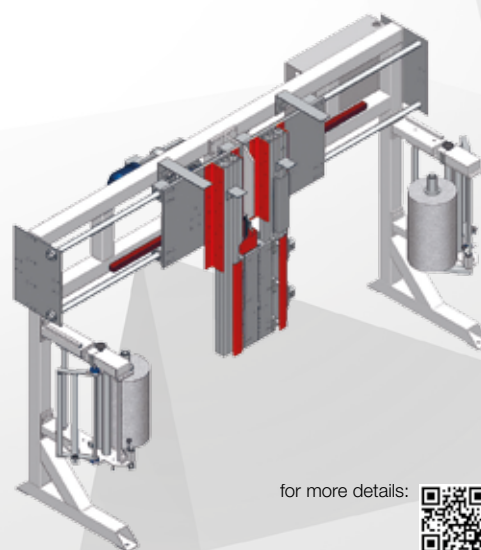


AVO-T

The AVO/T model is a banner applicator wrapping machine.

It is ideal for applying either standard polythene film or printed banner with logos or messages around the perimeter of the load.

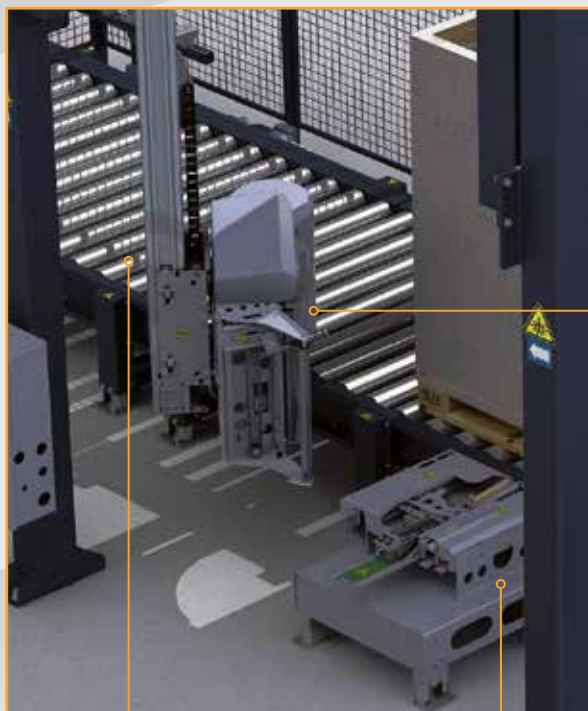
Wrapping cycle: after the pallet in-feed, two reel holder carriages move through pulleys driven by motor and clutches. During the spinning, these adjust the film tension. The pallet moves through machine dragging the film and once pallet gets out, welding bars close and the film is cut and welded.



for more details:



Components detail



The new PW-VIKING carriage provides the most advanced and reliable pre-stretch technology.

The PW-VIKING carriage has two servo-motors controlled by vectorial inverters, allowing the end users to adjust electronically the pre-stretch ratio.

The two controllers are connected to the PLC by Bluetooth®.

All communication is sent via Bluetooth® wireless technology with less wear and tear; fewer parts need to be replaced on the rotating collector.



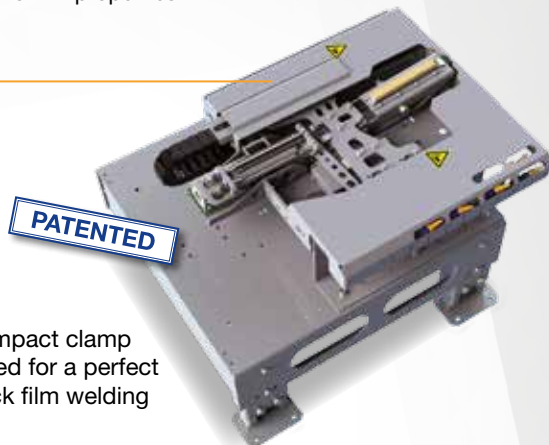
Bluetooth® connection combined with high performance Wulftec Blue Rollers® ensures the best pre-stretch reliability in the market (from 10% up to 400%).

This innovative carriage will allow end users to have total control of all wrapping parameters. In this way, extraordinary resistance and optimal holding force of the film can be easily achieved according to palletized product features and film properties, at the lowest possible film consumption.

PW Viking innovative software allows automatic pre-stretch adjustment at the optimal ratio according to film properties.



Motorized rollers conveyor



New compact clamp developed for a perfect and quick film welding

Automatic lines

