

Inductive Powered Ring

The unique Messersi Saturno ring wrapper uses magnetic induction to power the inner ring, eliminating electrical connections and wearing parts.

Powered through magnetic induction, the Saturno ring design greatly reduces parts usage, downtime and maintenance costs.

The Saturno automatic wrapping machine is suitable for the high-speed wrapping of palletised loads. The machine is available with of 2 or 4 steel columns in which the rotating ring is housed.

Benefits of inductive power:

- No friction between rings
- No slippery power contacts
- Bluetooth® signal exchange (WiFi not required)
- Life time induction function warranty
- World class induction components
- No belts to drive ring
- Very fast, consistent operation



Watch the wrapper in action.

Driven by Induction

Messersi developed this unique solution of using induction technology to transfer power from the non-moving parts to the rotating ring.

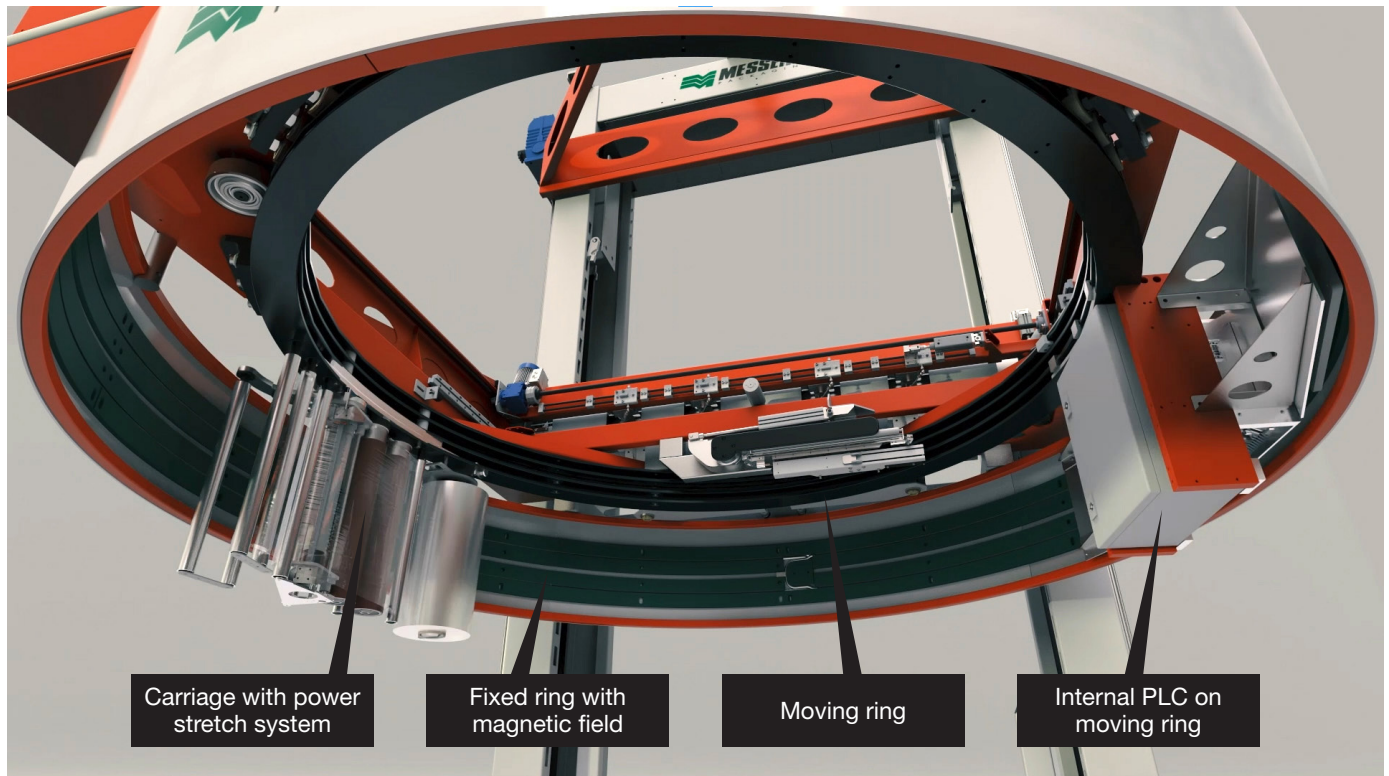
Benefits:

- Reduced number of wearable parts
- Reduced downtime due to maintenance
- Reduced number of components
- Reduced manufacturing costs
- Reduced failures by simplifying the system

How Does it Work?

The magnetic field on the fixed ring is converted into power from receiving plates along the rotating ring. The rotating ring is moved with 2 or 4 (high speed version) rubber wheels driven by geared motors.

The power from the induction system is used for all the components of the moving ring such as the film carriage, sensors, photocells and PLC on board.



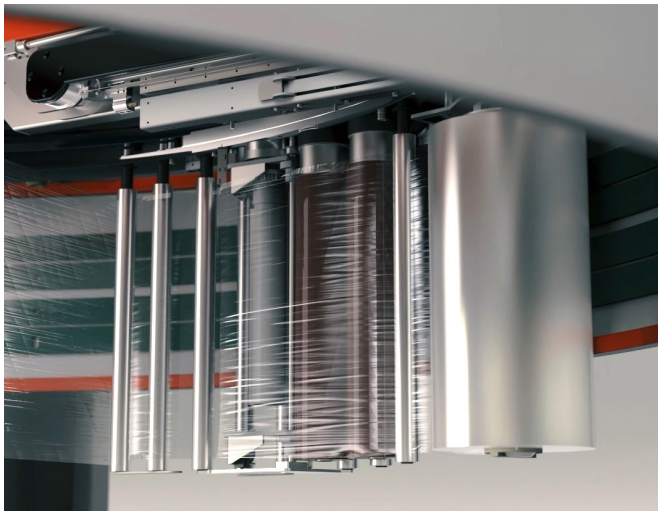
Pre-Stretch System

The Saturno ring wrapper is equipped with a powered pre-stretch device allowing the stretch film to be applied with the right amount of tension and the lowest possible film consumption.

The Saturno model is also available with the double motor powered system for the highest efficiency, highest pre-stretch ratio and most flexible wrapping pattern program.

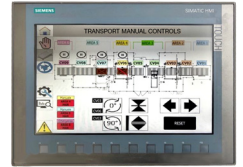
Features and Benefits:

- Impressive pre-stretch ratio, depending on film used (most films can run up to 400 %)
- Variable pre-stretch ratio at different levels during cycle
- Variable tension (“lay-on force”) during wrapping cycle
- All settings are programmed on touch screen without any need to use tools.



User Friendly GUI

The easy to use operations panel uses clear and intuitive messages and icons showing all necessary elements, programs, configurations, alarms, positions, working hours, maintenance instructions, etc.



Bluetooth®

All the signal exchanges between the moving ring and the machine are done by Bluetooth®, removing the need for WiFi. This avoids incorrect signal exchanges and removes the need for a special communication device.



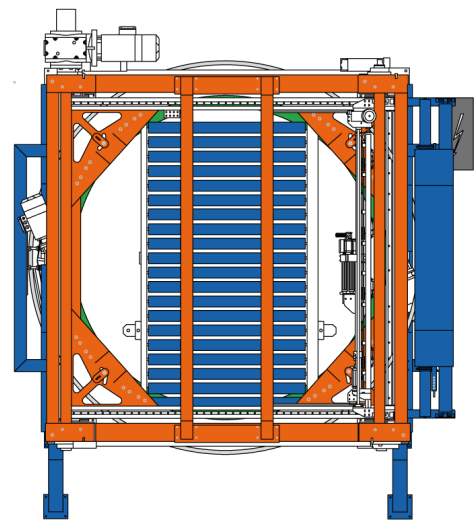
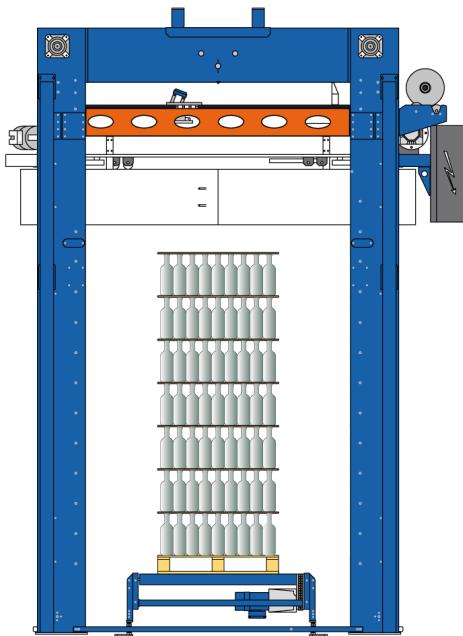
Safety Standards

These features ensure the wrapping zone cannot be entered while the machine is in operation:

1. Safety fences surrounding the machine
2. Security access doors with locking system
3. Safety light barriers with “muting”
4. Control of pneumatic components in case of emergency stops
5. Emergency buttons around the machine
6. Anti-fall system supplied as standard



Variation	2 columns	4 columns
Maximum pallet (diagonal)	1700mm	2800mm
Film thickness	23 μ	23 μ
Internal reel holder diameter	\varnothing 76mm	\varnothing 76mm
Maximum outside reel diameter	250mm	250mm
Reel height	500mm	500mm
Maximum weight coil	18kg	18kg
Power supply	400V - 3 phase + neutral + pe	400V - 3 phase + neutral + pe
Frequency	50Hz	50Hz
Maximum installed power	13kW	16kW
Maximum functioning pressure	6 bar	6 bar
Air consumption	10NI/cycle	10NI/cycle
Suitable film	From 17 to 23 micron, according to the selected pre-stretch (micro-perforated film is also suitable)	
Max production rate	95 pallet/hr (1500mm pallet height - 12 wrappings) (Wrapping rate calculated using standard AUS pallet 1165 x 1165mm using standard 500mm roll width)	
Options	Automatic reel change Top sheet device Film height reduction device Vertical corner protection device Vertical cardboard applicator Motor driven pre-stretch Roping system	



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