PIERI
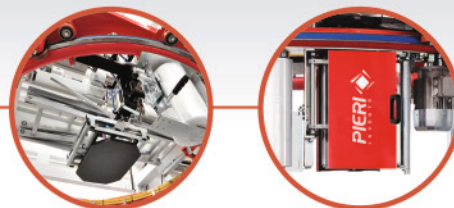
Automatic wrapping machines
and handling systems

▶ AVR 400 FLEXA

The **AVR 400 FLEXA** is PIERI's high performance ring machine with great flexibility. The rotating ring technology and the clamp unit built into the mobile frame allow starting and ending the wrapping cycle at any height of the load. The mighty framework and the special design concept are the answer to high-speed applications up to 100 p/h.
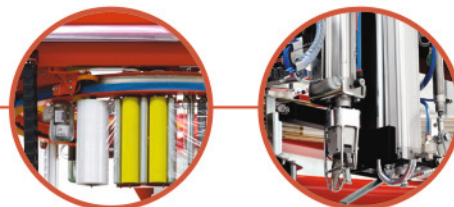
As standard equipment:
• Motorized pre-stretch carriage mod. AVS 240 up to 240%. The smooth release of the film is controlled by a dynamo, which also guarantee the constant tension spread on the load. For each wrapping cycle, the operator can modify all the pre-stretch parameters to maximize the stability and the protection of the palletized load.
• **ecoMATRIX** the patented tuck-in device for threading the film tail inside the last wrap. The perfect green solution for automatic warehouse, LGV/AGV or perforated film applications.

As an option:
• Electronic pre-stretch carriage mod. PEM-Duo:
The pre-stretching percentage, obtained through the different speed of the 2 motors on the carriage, will be setting up from the HMI **(min. 80% - max. 350%)** and permits to minimize the film consumption.

AVR 400 FLEXA TS is PIERI's high performance ring machine integrated with top sheet cover device. The integrated top sheet dispenser **TS** allows the automatic positioning of polyethylene sheet over the top of the palletized loads for the waterproof and dustproof protection.

▶ FLEXA GO

The **FLEXA GO** is PIERI's new ring wrapping machine. **FLEXA GO** is the answer to our customers' needs in terms of compactness, versatility and efficiency. Compactness means a solid mainframe and a renewed design able to meet the limited space requests. Versatility means **FLEXA GO** meets a wide range of pallet dimensions from 400x400 mm to 1100x1200 mm. Efficiency is the response to quality and high productivity.

As standard equipment:
• Electronic pre-stretch carriage mod. PEM-Duo:
The pre-stretching percentage, obtained through the different speed of the 2 motors on the carriage, will be setting up from the HMI **(min. 120% - max. 450%)**. For each program and for each wrapping cycle, the operator can modify all the pre-stretch parameters to maximize the stability and the protection of the palletized load.
• Cutting & sealing clamp mod. PZCB2: The clamp unit cuts and seals pre-stretch film at the end of wrapping cycle. The sealing system never encounters the product; in fact, it acts against a hidden contrast bar.
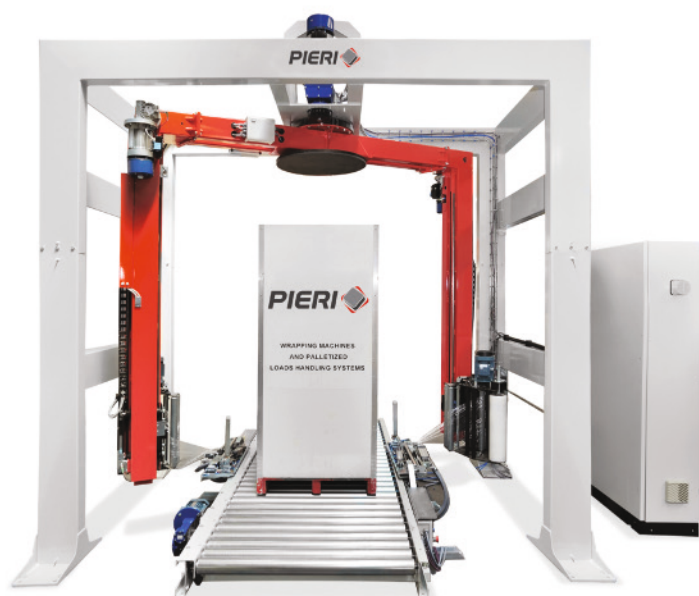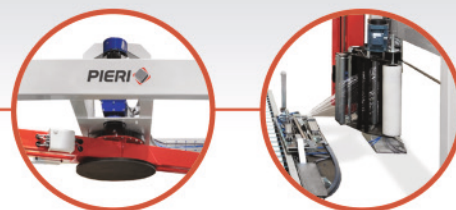
As an option:
• **ecoMATRIX** the patented tuck-in device for threading the film tail inside the last wrap. The perfect green solution for automatic warehouse, LGV/AGV or perforated film applications.

FLEXA GO TS is PIERI's high performance ring machine integrated with top sheet cover device. The integrated top sheet dispenser **TS** allows the automatic positioning of polyethylene sheet over the top of the palletized loads for the waterproof and dustproof protection.

AUTOMATIC ARM WRAPPING MACHINES

▶ SILVER TWIN

The **SILVER TWIN** is PIERI's double arm wrapping machine, the highest performing machine in terms of speed. The double arm is the ideal solution for intense productivity up to 130 p/h. The high efficiency of the machine and the reliable structure provide high productivity.

As standard equipment:
• Double motorized pre-stretch carriages mod. MS-Pro up to 250%. The pre-stretch carriage system together with 7 customized programs guarantee perfect stability to the loads.
• Double cutting & sealing clamp mod. PZCB2: The clamp unit cuts and seals pre-stretch film at the end of wrapping cycle. The sealing system never encounters the product; in fact, it acts against a hidden contrast bar.

As an option:
• Double electronic pre-stretch carriages mod. PEM-Duo: The pre-stretching percentage, obtained through the different speed of the 2 motors on the carriage, will be setting up from the HMI **(min. 120% - max. 500%)**. For each program and for each wrapping cycle, the operator can modify all the pre-stretch parameters to maximize the stability and the protection of the palletized load

▶ SILVER AGILE - SILVER GO - SILVER FAST

SILVER AGILE, SILVER GO and **SILVER FAST** are PIERI's single arm wrapping machines. The machine's design is customizable for different customers' requests: pallet dimensions and different pallet heights. In terms of productivity, **SILVER AGILE** (up to 40 p/h) is the entry model of this range, **SILVER GO** (up to 60 p/h) and **SILVER FAST** (up to 80 p/h) can reach higher productivity.

As standard equipment:
• Motorized pre-stretch carriage mod. MS-Pro up to 250%. The pre-stretch carriage system together with 7 customized programs guarantee perfect stability to the loads.
• Cutting & sealing clamp mod. PZCB2: The clamp unit cuts and seals pre-stretch film at the end of wrapping cycle. The sealing system never encounters the product; in fact, it acts against a hidden contrast bar.
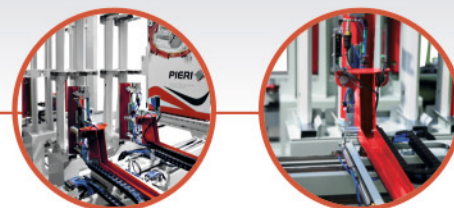
As an option:
• Electronic pre-stretch carriage mod. PEM-Duo: The pre-stretching percentage, obtained through the different speed of the 2 motors on the carriage, will be setting up from the HMI **(min. 120% - max. 500%)**.
• **ecoMATRIX** the patented tuck-in device for threading the film tail inside the last wrap.

SILVER GO TS and **SILVER FAST TS** are PIERI's arm wrapping machines with integrated top sheet cover device. The integrated top sheet dispenser **TS** allows the automatic positioning of polyethylene sheet over the top of the palletized loads for the waterproof and dustproof protection.

SPECIAL AUTOMATIC ARM WRAPPING MACHINE

▸ SILVER GO CAD - SILVER FAST CAD

SILVER GO CAD and **SILVER FAST CAD** are PIERI's arm wrapping machines with a Cardboard corner protection Applicator Device. The automatic device **CAD** permits the protection of the four corners of the product. The automatic device **CAD** composed by:
• N. 8 corner warehouses divided by n. 2 warehouses for each corner of the product. It is possible to manage 2 different corner dimensions.
• N. 4 grippers allow picking-up, by a vacuum system, the card corners from the warehouse and applying them on the product.

As standard equipment:
• Motorized pre-stretch carriage mod. MS-Pro up to 250%. The pre-stretch carriage system together with 7 customized programs guarantee perfect stability to the loads.
• Cutting & sealing clamp mod. PZCB2: The clamp unit cuts and seals pre-stretch film at the end of wrapping cycle. The sealing system never encounters the product; in fact, it acts against a hidden contrast bar.

As an option:
• Electronic pre-stretch carriage mod. PEM-Duo: The pre-stretching percentage, obtained through the different speed of the 2 motors on the carriage, will be setting up from the HMI **(min. 120% - max. 500%)**. For each program and for each wrapping cycle, the operator can modify all the pre-stretch parameters to maximize the stability and the protection of the palletized load.

SEMIAUTOMATIC WRAPPING MACHINE

▸ SILVER WAVE

SILVER WAVE is PIERI's semi-automatic arm machine. **SILVER WAVE** is a stand-alone system and it represents the perfect solution for pallets with unstable loads. The loading will be inside the machine with the forklift or pallet truck. The operator will start the automatic wrapping cycle with a remote control.
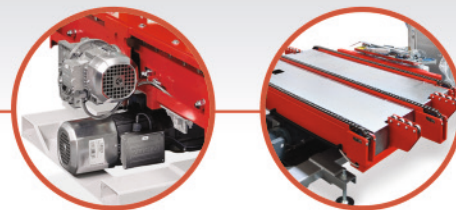
As standard equipment:
• Motorized pre-stretch carriage mod. M1

As an option:
• Motorized pre-stretch carriage mod. MS-Pro up to 200%.
• Cutting & sealing clamp mod. PZCB2: The clamp unit allows the automatic ending of the wrapping cycle, cutting and sealing the pre-stretch film at the end of wrapping cycle.

AUTOMATIC TURNTABLE WRAPPING MACHINE

▸ EASY ROUND

The PIERI's turntable wrapping machine **EASY ROUND** is a plug-and-play machine because it is composed of a rotating turntable (rollers or chains) and an integrated electric panel for a quick installation. Able to reach up to 30 p/h and up to 2000 Kg of load, **EASY ROUND** is the ideal wrapping machine for customers that need to reduce the machine's footprint. Due to the different wrapping system of **EASY ROUND** it is possible to provide a different configuration of the machine to allow the loading or the unloading of the pallets at 90°, rather than in line.

As standard equipment:
• Motorized pre-stretch carriage mod. MS-Pro up to 200%.
• Cutting & sealing clamp mod. PZCB2: The clamp unit cuts and seals pre-stretch film at the end of wrapping cycle.
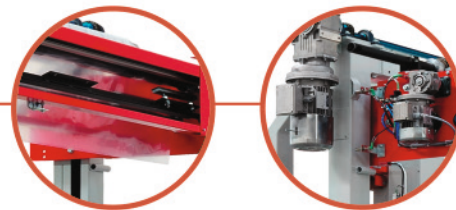
As an option:
• Electronic pre-stretch carriage mod. PEM-Duo: The pre-stretching percentage, obtained through the different speed of the 2 motors on the carriage, will be setting up from the HMI **(min. 120% - max. 500%).**
• **ecoMATRIX** the patented tuck-in device for threading the film tail inside the last wrap. The perfect green solution for automatic warehouse, LGV/AGV or perforated film applications.

EASY ROUND TS is PIERI's turntable wrapping machine with integrated top sheet cover device. The integrated top sheet dispenser **TS** allows the automatic positioning of polyethylene sheet over the top of the palletized loads for the waterproof and dustproof protection.

IN-LINE TOP SHEET APPLICATOR

▸ STF 203

The in-line top sheet applicator **STF203** is suitable for all PIERI machines. The **STF203**, located before the wrapping machine, allows laying a sheet of polyethylene film on the top of the palletized load. This device permits to protect the load from moisture and dust. The quantity of film to lay on the load is automatically detected through photocells.
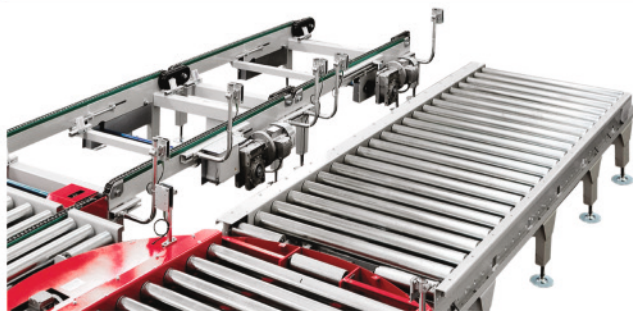
As optional:
• Motorized hoist for lifting and handling the polyethylene film reel to assist reel replacement operations.

PIERI represents one of the most renowned companies in the packaging market. Our focus is to design and to produce end-of-line solutions for palletized loads. Relationships of more than 40 years with our clients constitutes a contribution in terms of experience and quality that has allowed us to increase the know-how and passion for our work. PIERI's turnkey solution is able to satisfy a wide range of different customers' need and request. Additionally, PIERI provides integrated solutions for existing lines and complete solutions for new projects.

ROLLER CONVEYORS - CHAIN CONVEYORS

PIERI designs and manufactures motorized roller and chain conveyors. PIERI's **ROLLER CONVEYORS/CHAIN CONVEYORS** are customizable on each customers' request.
Roller conveyors are available in different dimensions, with different diameter, pitch and width.
Chain conveyors can be made of 2 to 5 strands of chains.
On request, PIERI can offer roller conveyors/chain conveyors from floor level up to 1000 mm. Its galvanized steel profile frame and its height-adjustable galvanized feet ensure stability and robustness.

SHUTTLE

The **SHUTTLE** is the PIERI's automatic conveying system for the transportation of the pallets.
This type of conveying system is a roller conveyor on wheels running on rails that allows the transport of the palletized loads.
This system will be installed within a protective fences and light barriers area.

TURNTABLE STATION - ROLLER/CHAIN EXCHANGER

The **TURNTABLE STATION** and **ROLLER/CHAIN EXCHANGER** enable the palletized loads to change direction. The turntable station consists of a roller conveyors or chain conveyors able to rotate on its axis allowing the 90° exit of the palletized loads without changing the pallet orientation in the transport direction.
While, the roller/chain exchanger combines the characteristics of both roller and chain conveyors in the same position. This allows the 90° exit of the palletized loads to change the pallet orientation in the transport direction

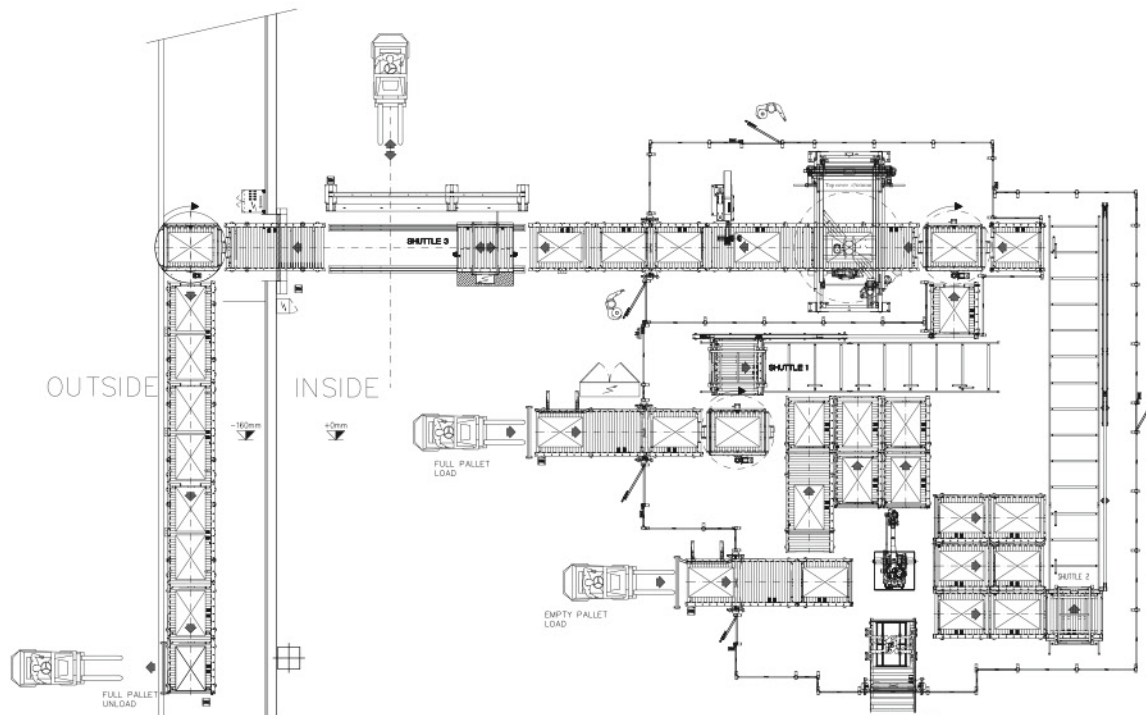## EMPTY PALLET DISPENSER - PALLET STACKER

The **EMPTY PALLET DISPENSER** satisfies on one side the requirement of depositing empty pallets and on the other feeding pallets for the production line. The operator will deposit empty pallets in the warehouse and the automatic device, equipped with conveyors, will dispense the pallets to the production line. The capacity of the system is up to 12 pallets.

The **PALLET STACKER** allows stacking one pallet on top of another pallet. This device automatically lifts (by 2 or 4 forks) the pallet and positions it on top of the following pallet. Available for empty pallet and palletized loads.
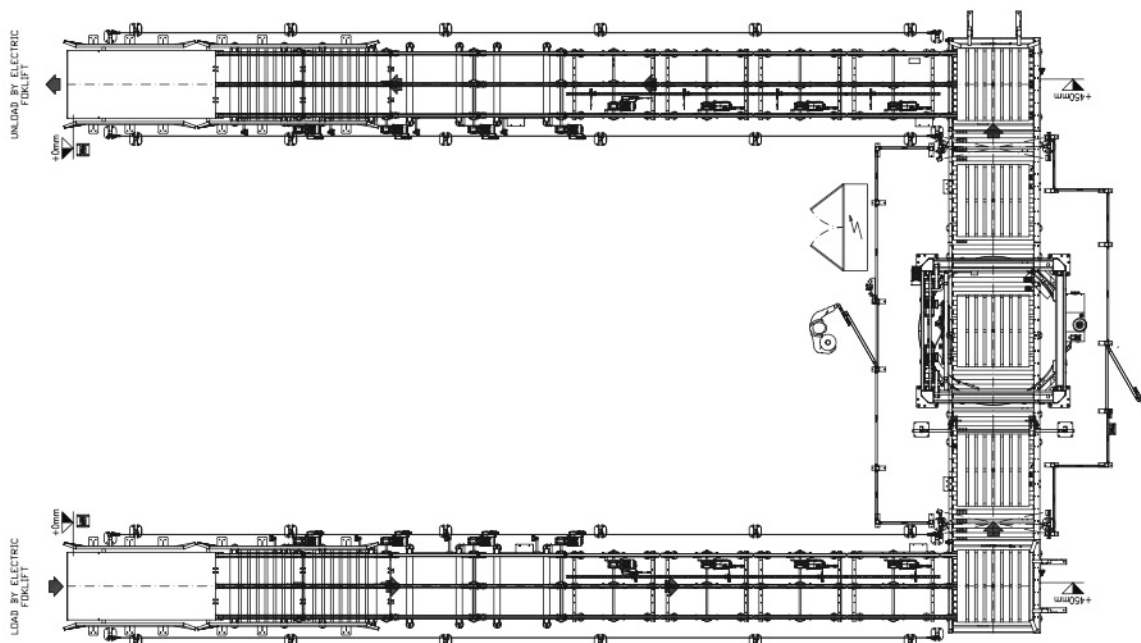
AUTOMATIC LINES

▸ END-OF-LINE SOLUTION

PIERI's handling system solution comprising of an empty pallet dispenser, shuttle conveyors, roller conveyors, turntable stations, automatic arm wrapping machine with integrated top sheet dispenser mod. **SILVER FAST TS**, perimeter guarding and light barriers.

▸ STAND-ALONE SOLUTION

PIERI's handling system solution comprising of 3 chains conveyors from height 80 mm to 450 mm, roller/chain exchanger, roller conveyors, automatic ring wrapping machine mod. **FLEXA GO**, perimeter guarding and light barriers.

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