Operational Standard Specification

Capacity: Up to 100 pallets per hour without topsheet, depending on wrapping pattern

Film Roll Size: 500mm wide as standard, 750mm optional. Maximum outer diameter roll: 300mm. Film roll core inside diameter 75mm. Film thickness 15-30 micron. Top sheet width 1500, 2000 or 2800mm

Film Carriage: Motorised power pre-stretch 150% - 300% as standard

Rotation Speed: 40rpm 100% duty cycle, 49rpm 50% duty cycle

Load Size: 1500, 2000 or 2800mm pallet diagonal depending on machine size

Load Height: 2750mm max pallet height (conveyor 500mm) without top sheet
2350mm max pallet height (conveyor 500mm) with top sheet

Controls: Programmable Siemens S7 200/300 Series plc with TP27 Operator Interface
Automatic wrap cycle selection of up to 8 different wrapping programmes.
PEC control for load positioning and height detection. Electronic film lay-on-force control using a brushless motor. Film overlap adjustment. Top sheet dispensed centrally on the top of the load

Weight: Mancon 1500 - 2000kg, Mancon 2201 - 2000kg, Mancon 2800 - 2500kg

Other models are available

Transportation: Height 2520mm, Weight 2450kg (2201 model)

Optional Specification

- Top Platen
- Top sheet dispenser with reel lift (Max width)
- Top sheet blow-down coronet
- Infeed Conveyors
- Outfeed Conveyors
- Right Angle Transfers
- Turntables, Pallet Lifts
- Auto Corner Post Application
- Auto Film Carriage Changeover

Electrical Specification

Power Supply: 3 x 415+N+E AC/50Hz

Controls: Programmable Siemens S7 200/300 Series plc with TP27 Operator Interface

Power Protection: 7kW

Air Supply: 6 bar 150 NL/Cycle

Dimensions (mm)

L | 1500 | 2201 | 2800
B | 3150 | 2360 | 1575
A | 3270 | 2730 | 1690

Also Available

- Pal-Rapper Semi-Automatic Turntable Stretch Wrappers
- Rotarap Fully & Semi-Automatic Rotary Arm Stretch Wrappers
- Vortex Fully Automatic Spiral Stretch Wrappers
- Storapal Pallet Dispensers
- LLDPE Stretch and pre-stretched films

Mancon 2201 Technical Specification

High Performance Stretch Wrapping Machine

All specifications are correct at time of print, are for guidance purposes only and subject to change without prior notice.

www.maillis.co.uk
The Mancon 2201 Series

M. J. Maillis UK is proud to introduce a new, very innovative and fast performing Mancon 2201 ring-type of stretch wrapping machine to its portfolio of stretch wrapping equipment.

Incorporating over 20 years of stretch wrapping machinery manufacturing and end-user experience, the Mancon range sets the industry standard for fully automatic stretch wrapping of pallet loads.

M. J. Maillis Group is the leading manufacturer of stretch wrapping equipment with a world-wide reputation for the reliability and strength of its machines. This experience, combined with extensive customer research, forms the foundation of the new Mancon Series, ensuring that the new range has all the features demanded today in a fast moving packaging environment.

Superior Seaming Techniques by Infrared

Patented infrared technology gives a high speed, totally maintenance-free stretch film seaming and film cut off. No sealing wires, Teflon tapes or cut off wires are required. The patented infrared film cut off and seaming gives fast and positive film tail end seaming, leaving no flapping film tails on the load. The Mancon infrared film cut off and seaming system is superior to all other systems currently available.

Carbon Composite Ring Construction

The patented carbon composite ring construction weighs only 26kgs and is designed for faster rotation speeds of up to 45rpm. Due to its light weight, the starting and stopping inertia is controlled more accurately than with heavier steel or alloy rings.

Advanced Controls

Incorporating Siemens S7-200/300 PLC’s as standard, linked to a Siemens TP27 operator interface. This gives a simple and reliable operational view of the stretch wrapping cycle sequence and fault finding. Other makes of PLC’s and operator interfaces can be accommodated to suit specific customer requirements.

The manual film roll change system is designed for ease of use with a forward tilting film roll holder and pivoting gate system through power pre-stretch rollers. Film roll change takes less than one minute.

Easy Film Roll Change Manually

Automatic Film Carriage Changeover

The Mancon 2201 model can also be supplied with 2 film carriages with the semi-automatic film carriage changeover, increasing machine up time. Each film carriage is supplied with a film gripper where the film tail end is attached when changing the film roll.

On the conveyor level there is a robotic film attachment gripper. When the film carriage, with a full roll of film, stops on the low level in front of it, the gripper takes the film tail end from the carriage. The first wrapping sequence will be a single wrapping cycle from the base.

Power Pre-Stretch Film Control

Stretch film usage is minimised by the motorised power pre-stretched film distribution carriage, with the film lay-on-force being controlled by a fast, responsive AC drive system. The lay on force can be varied throughout the wrapping cycle, guaranteeing maximum efficiency together with perfect load containment.

Power pre-stretch film of up to 30µ thickness can be pre-stretched up to 300%, by passing the film through two rollers faced with specially formulated high grip coatings. The surface speed relationship between the rollers dictates the level of pre-stretch applied to the film. The film passes over a floating roller, equipped with an analogue sensor which senses the contours of the pallet. The system then varies the speed at which the film is applied to the pallet, compensating for the corners of the pallet or irregularities in the pallet shape. If required, the pre-programmed values can be changed to compensate for variable palletising patterns and products.

Corner Posts Applied Automatically on the Load

The Mancon 2201 offers the option of fully automatic edge protection application.

Corner post manipulators, at low level, hold the corner reinforcements on the pallet load corners. The wrapping sequence starts from the top of the load. After two revolutions around the top of the load, the manipulators are withdrawn and automatic wrapping and top sheeting sequences are completed around the load with the corner posts in position.

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