AUTOMATIC ORBITAL WRAPPING MACHINE FV350/125

Automatic machine for horizontal packaging with stretchfilm.

Applications:
Packaging, grouping and protection with stretchfilm products like furniture, doors, timber boards, windows, frames, etc.

Working process:
Product arrives automatically until the ring of the wrapping machine through an infeed driven conveyor; the electrical photocell detects the product and the machine wraps it with stretchfilm.
Finally, an outfeed driven conveyor belt push out the product fully wrapped.

Standard equipment:
• Steel frame, painted in grey and base in blue colour
• Ring assembled in the frame, painted in yellow colour.
• Double reel dispenser head; allows to wrap with two reels of stretchfilm for a reinforced wrapping and faster packaging or to wrap with one reel for a simple wrapping; ready to use reels of different width.
• Adjustable stretchfilm tension to fit it to the product.
• Fast changing reels without tools and with self-fixing system.
• Double automatic stretchfilm clamp and cutter system for two reels.
• Automatic stretchfilm threading for reel changing.
• Stopping system to place the reel dispenser head in the exact position for reel changing.
• Adjustable extra wrapping laps in both ends of the product for a higher protection.
• Ring speed controller (driver included) to adjust the stretchfilm overlap onto the product.
• Touch colour screen to program and adjust the machine to the specifications of the product to be wrapped with: Extra wrapping laps in the ends of the product, stretchfilm threading, 6 wrapping programs, warning messages, reels change, only ends wrapping, 6 languages programs, presses on/off, infeed top press up time control, outfeed top press down time control and conveyors stopping time.
• Wrapping programs (6): standard program (wrapping from end to end of the product), bundling program (to wrap product ends only) and four programs else to be issued by the user.
• Backwards conveyors selector and selector product goes through the ring but without wrapping; this option is used in machines which are set up in automatic lines where some products do not need to be wrapped.
• Variable driven conveyors speed to control the wrapping speed or to adjust stretchfilm overlap onto the product.
• Electrical photocell to start the wrapping cycle.
• Device that unable the machine to work while changing the reel for worker safety.
• Ring driver system through trapezoidal belt of low maintenance and wear.
• Control panel and electrical box with: Master switch, power light, warning light, start button, reset button ring speed control, conveyors speed control, emergency stop and touch screen.
• Tower lights to inform status of orbital wrapper.
• Steel packaging around the frame base for transport.
Optional Accessories:
- Infeed & outfeed top pressers - manual fitting.
- Infeed & outfeed top pressers - automatic fitting.
- Rollers side guide - manual fitting.
- Driven conveyor belt W31.5 x L39 in. (other dimensions also available).
- Driven conveyor metal rollers W31.5 x L39 in. (other dimensions also available).
- Driven conveyor chain W31.5 x L39 in (other dimensions also available).
- Driven conveyor belt with pneumatic lift to place corners W39 x L98.5 in.
- Driven conveyor metal rollers "V" shape W47 x L157.5 in.
- Gravity rollers conveyor + tilter system to place product from vertical to horizontal W47 x L60 in.
- Table with driven rollers (3) in triangle with pneumatic lift to wrap round products.
- Table with driven (2) in parallel to wrap round products.
- Hydraulic lift table to centre conveyor belt/rollers vs. ring.
- Short products bridge < 23.5 in.
- Driven conveyor belts (bridge) for short products W45 x L23.5 in.
- Wooden/porex blocks automatic dispenser (includes driven conveyor for short products W45 x L23.5 in.).
- Warning of reel end.
- Safety fences + safety kit.
- Remote technical assistance (via Ethernet).
- No standard machine colour.
- Seafreight wooden crate.
- Seafreight wooden box.
- Manual bubblewrap top dispenser (integrated on machine) for reel up to 47 in.
- Manual bubblewrap floor dispenser for reel up to 47 in.
- Automatic top & bottom bubblewrap reel dispenser up to W55 in.

Includes:
- Welding bar by electrical resistances to join the ends of the top and bottom bubblewrap reels.
- Welding temperature control to adjust the temperature depending on the bubblewrap thickness.
- Top and bottom bubblewrap reel dispenser; top reel to cover top side product length and bottom reel to cover bottom side product length.
- Electrical photocell to start automatically the wrapping cycle.
- Driven feeding of top and bottom bubblewrap reels, to avoid product pulls directly from them.
- Selector to cancel the automatic dispenser and to allow machine wrapping with stretchfilm only.
- Tower lights to inform status of dispenser.

* Mod. with conveyor belts (optional)
  automatic top presses (optional)
  and automatic bubble wrap dispenser (optional).
### Technical specifications:

#### Product to wrap sizes:
- **Maximum / minimum length**: Unlimited / 23.5 in. (15.7 in. with bridge).
- **Other sizes**: Check with graphic.
- **Minimum sizes**: 11.8 x 11.8 x 23.5 in. (L).

#### Recommended conveyor belt specifications:
- **Useful width**: 31.5 in.
- **Length**: 39 in.
- **Working height**: Adjustable.
- **Engine**: 0.496 hp.*
- **Lineal speed**: From 10 fpm up to 40 fpm.
- **Max. weight to convey**: 165 lb / lineal meter.

(*) Speed inverter for inner driven conveyor 1 hp. and exit driven conveyor 1 hp.

#### Electrical equipment:
- **Engine**: 4 hp.
- **Power consumption**: 2.16 hp.
- **Manoeuvre**: 24V c.c.
- **Ring rotation speed**: From 5 to 80 rpm.
- **Speed inverters**: Fuji.
- **Programmable PLC**: Omron.
- **Pneumatic pressure**: 6 bars.
- **Compressed air consumption**: 4.63 psi/cycle.

#### Stretchfilm reel specifications:
- **Width**: 10, 6.5 or 4 in.
- **Thickness**: 90, 120, 140 or 200 gauge.
- **External / internal Ø**: 9 / 1.5 in.
- **Colours**: Transparent / opaque.

#### Installed machine sizes
- Check attached drawing.

#### Packed machine sizes
- 7.9 x 5 x 6.5 ft – 2017 lb.
- 6.2 x 4.5 x 6.2 ft – 1653 lb.

#### Packed film reels sizes
- 3.3 x 3.9 x 6 ft – 1726 lb.

### Technical specifications with automatic bubble wrap / polyethylene dispenser (optional)

#### Electrical equipment:
- **Engine**: 5.42 hp.
- **Power consumption**: 2.43 hp.

#### Welding bar:
- **Width**: 47 in.
- **Electrical resistances**: 10 units.

#### Bubble wrap / Polyethylene reel specifications:
- **Type**: Triple layer reel
- **Width**: 47 in. / 47 in.
- **Length**: 492 ft. / 1312 ft.
- **Ø external**: 31.5 in. / 12 in.

#### Installed machine sizes
- Check attached drawing.

#### Packed machine sizes
- 7.9 x 5 x 6.5 ft – 2017 lb. / 6.2 x 4.5 x 6.2 ft – 1653 lb.

#### Packed film reels sizes
- 3.3 x 4 x 6 ft – 1726 lb.