FILTER SOLUTION

Design, Supply & Support

One Stop Solution to your Filters Production

PLRS-400

Full-auto Filter Cartoning Machine

Features

- **Versatile Design.** Designed for multi-carton-size, small-batch production, supporting box sizes from 20 × 20 × 60 mm to 120 × 120 × 280 mm.
- **Compact & Cost-Effective.** Small footprint and low running cost, ideal for space-limited workshops.
- **Efficient Format Change.** Quick mold changeover reduces downtime when switching specifications.
- **Hygienic Construction.** Main body is made of SUS304 stainless steel, easy to clean and corrosion-resistant.
- **Intelligent Control.** Equipped with an advanced PLC system and 5.7-inch color touchscreen for easy parameter setting and adjustment.
- **Stable Performance.** Runs at 20–60 boxes/min, with low noise (< 80 dB) and a reliable air supply system (0.5–0.8 MPa).

Applications

The PLRS-400 is mainly used for automatic carton packaging of fuel filters, oil filters, and other small industrial components. It is suitable for:

- Filter manufacturers with multi-specification, small-batch production needs.
- Packaging lines requiring flexible format changes and efficient operation.
- Industries needing hygienic and durable packaging equipment, such as automotive filtration and industrial component manufacturing.
- Both manual feeding and automated lines, with integration available for robotic feeding systems.

Specification

- **Product Name:** PLRS-400
- **Production Speed:** 20–60 boxes/minute
- **Maximum Box Dimensions (L × W × H):** 120 × 120 × 280 mm
- **Minimum Box Dimensions (L × W × H):** 20 × 20 × 60 mm
- **Power:** 1/4 hp, 15:1, 1.5 kW/hour
- **Power Supply:** Single-phase 220 V, 50/60 Hz
- **Machine Noise:** < 80 dB
- **Air Supply:** 0.5–0.8 MPa
- **Air Consumption:** 260 L/min
- **External Dimensions (L × W × H):** 1250 × 1700 × 1350 mm
- **Total Weight:** 500 kg
- **Disc Diameter:** 800 mm
- **Main Body Material:** SUS304 stainless steel

Packaging Process

- Push the box into the star wheel
- Fold the lower small flap
- Press both lower big flaps
- Flatten both lower big flaps
- Product drops into the box (manual feeding or automatic robotic feeding available)
- Fold the upper small flap
- Press both upper big flaps
- Flatten both upper big flaps
- Push the finished product out

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