

P01 / PACKAGING EQUIPMENT

# Full-Stack PE Wrapping Machine

Horizontal orbital wrapping for complete sandwich panel stacks.



Equipment visualization based on the supplied video. The linked operating video shows the actual equipment; this illustration is not installation or acceptance-test evidence.

Wrap the prepared stack with overlapping PE film before downstream handling and dispatch. The supplied configuration pairs the wrapping unit with two rubber-coated roller conveyors.

| Documented package section | Documented package length | Effective equipment load |
|----------------------------|---------------------------|--------------------------|
| 1,200 x 1,200 mm           | 16,000 mm                 | 3,000 kg                 |

[View product specifications](#) | [Watch the product video](#)

Color Steel Machine | Hebei Pioneer Robot Technology Co., Ltd.  
English product brief | 11 October 2026

# Documented configuration

This brief preserves the values in the owner-supplied manufacturer specification. They describe that configuration, not unrestricted capacity or compatibility for every panel stack.

## Required stack in the source brief

|                |                        |
|----------------|------------------------|
| Width x height | 1,200 x 1,200 mm       |
| Length         | 16,000 mm              |
| Stack weight   | Approximately 2,800 kg |

## Packaging equipment parameters

|                                |                                                             |
|--------------------------------|-------------------------------------------------------------|
| Package width x height         | 1,200 x 1,200 mm                                            |
| Package length                 | 16,000 mm                                                   |
| Product to be packaged         | Composite panels                                            |
| Conveyor speed                 | 5-10 m/min; customization stated in source                  |
| Conveyors                      | Two 16,000 mm rubber-coated roller conveyors; 32 m combined |
| Conveying surface height       | 1,200 mm                                                    |
| Effective load                 | 3,000 kg                                                    |
| Film overlap                   | Adjustable; no numerical limits supplied                    |
| Total power                    | 9 kW                                                        |
| Voltage / frequency            | Three-phase 380 V / 50 Hz                                   |
| Overall dimensions (L x W x H) | 35,000 x 2,500 x 2,600 mm                                   |

**Two different weights:** about 2,800 kg is the requested stack weight; 3,000 kg is the effective equipment load. Conveyor speed is not finished packages per hour. Confirm supports, total stack weight and the actual transfer arrangement.

# Controls and line handover



Equipment-family and stack-wrapping illustrations. Final layout, film and included components follow the agreed project configuration.

## Functions stated in the source

- PLC and variable-frequency control.
- Selectable manual and automatic operating modes.
- Variable-speed adjustment of film overlap.
- Adjustable rotating-ring speed.
- Automatic stop after the entered time.
- Adjustable film feed and discharge tension.
- Independent control cabinet for operation and maintenance.

## After stacking. Before dispatch.

### 1. Prepare the stack

Confirm quantity, alignment, supports, dimensions and total weight.

### 2. Agree the conveyor handover

Check height, travel direction, roller layout, interlocks and transfer responsibility.

### 3. Set the wrapping

Agree PE film, overlap, tension, speed and the stopping sequence.

### 4. Plan finished-stack removal

Confirm end protection, any separate strapping, handling and dispatch responsibility.

This is a wrapping machine, not a stacker or strapping machine. No vacuum pickup or panel-flipping function is stated in this specification.

# Prepare your configuration inquiry

Send these inputs with your production-line drawing. Mark unknown values as TBD rather than assuming a standard machine fits.

## Stack size and weight

Minimum and maximum width, height, length, total weight, panel quantity and panel type.

## Packing supports

Pallets, spacers, edge protection and any other material included in the package dimensions.

## PE film and finish

Film grade, thickness, roll details, overlap, tension and the required end-face protection.

## Production flow

Stack arrival rate, spacing, travel direction and the planned finished-stack removal method.

## Line interfaces

Infeed/discharge heights, roller arrangement, interlocks and handover responsibility.

## Utilities and footprint

Power supply, available floor plan, maintenance access and interface requirements.

## Scope to confirm before quotation

Film grade, film thickness, roll size, numerical ring speed, automatic film cutting, sealing and end-face coverage are not specified in the supplied document. Automatic mode does not by itself confirm unmanned-line operation or compatibility with another machine.

The supplier describes dust protection, compact packing, improved logistics and reduced transport losses/packing costs as intended benefits. No quantified savings or transport-test results are supplied. Rubber-coated rollers are described as surface protection; no absolute scratch-free guarantee is established by this brief.

**Working dimensions:** 1,200 x 1,200 mm is the documented package section, not a verified maximum usable aperture. The 1,200 mm conveyor level is not bundle height; 2,500 / 2,600 mm are external machine width/height, not package clearance. A separate maximum usable package height is unconfirmed. Obtain the usable-passage drawing and written fit review. A requested 1,250 mm height remains 50 mm above the documented package height; the proposed 2.5 m gantry stacking height is not wrapper capacity.

## Product, video and contact

[Product page and configuration inquiry](#)

[Full-stack PE wrapping operating video](#)

[Product download center](#)

### Contact Tony

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Hebei Pioneer Robot Technology Co., Ltd.

Source: owner-supplied Chinese document, "Hebei Pioneer Packing Machine". PE terminology follows the owner's product identification and video. P01 is a website catalogue ID, not a manufacturer model number. Images are equipment visualizations, not factory or acceptance evidence.