

S03 / MECHANICAL STACKING / ENGLISH PRODUCT BRIEF

Automatic Floor Deck Turnover Stacker

Mechanical receiving, turnover and stacking for profiled floor-deck sheets.



Equipment concept image supplied in the product presentation. Reference illustration only - not an installation photograph, machine trial or customer-project record.

Opposed mechanical turning arms and receiving rollers support the handling sequence shown in the source presentation. Four servo axes are listed. This is not a vacuum suction-cup stacker.

Presentation-listed length	Width entries	Nominal cycle
6-12 m	575 / 600 mm	Approx. 25 s

Width definitions and cycle conditions require drawing and line review. These figures are not a blanket compatibility approval or guaranteed production output.

[View the product](#) | [Prepare selection inputs](#)

Color Steel Machine | Hebei Pioneer Robot Technology Co., Ltd.
Issued 11 October 2026. S03 is a website catalogue ID, not a confirmed manufacturer model number.

Presentation specifications

The original product-page values are retained below. Apply them only to the reviewed configuration; do not use them as universal sheet, tooling or site limits.

Machine size	2,100 x 2,300 x 4,500 mm
Moving-arm length	1,500 mm
Roller conveyor	10,000 mm long x 500 mm wide
Power supply	220 / 380 V / 50 Hz
Air supply	0.5-0.8 MPa
Environment	-20 to 40 °C; altitude below 2,000 m

Controls and components stated in the source

- Wecon VC1 PLC and touch screen.
- Wecon lift, rotation and translation servos.
- Sanmen Taili roller motor.
- Wecon inverter and Impro RV reducer.

Selection boundaries

575 / 600 mm: the source does not establish which entry is overall sheet width or effective cover width. Provide both dimensions separately on the actual rib and edge-lap drawing.

Approx. 25 s: this is a nominal presentation cycle, not verified line output. Review sheet length, arrival intervals, turnover sequence and full-stack exchange conditions.

Lifting weight and stack height: a maximum single-sheet lifting weight and maximum completed-stack height are not confirmed in this brief. Obtain written configuration-specific limits; no C/Z or vacuum-gantry rating is applied here.

From the sheet to the handover

1. Identify the profile

Send rib geometry, edge laps, gauge, coating and separately labelled overall and effective cover widths.

2. Define the faces

Label Face A and Face B, incoming upward face and travel direction, then sketch the required completed-stack orientation. No layer pattern is prescribed by this brief.

3. Review mechanical handling

Provide the receiving-line layout and discharge height for review of rollers, mechanical turnover and actual sheet geometry. Tooling and contact arrangements remain configuration-specific.

4. Agree the full-stack handover

State sheet count, supports, orientation, removal method and next-process owner. Bundling, strapping and automatic stack removal are not assumed included.

Prepare a configuration enquiry

Send actual drawing references and revision, material thickness, length range, individual sheet weight and its evidence basis, face sequence, surface requirements, line arrival timing, discharge layout and finished-stack handover. Mark unknown values as TBD.

Downloads and next steps

[Download the blank profile-stacking input sheet](#)

[Read the floor-deck selection guide](#)

[Start a floor-deck configuration enquiry](#)

[Browse product downloads](#)

The shared TXT contains separate C/Z and floor-deck sections. Use the floor-deck section; C/Z model and weight limits are not this machine's specifications. Downloading a file does not submit an enquiry.

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Hebei Pioneer Robot Technology Co., Ltd.

Source basis: the existing manufacturer-presentation-backed floor-deck product page and its selection-input guide, reviewed 11 October 2026. This is a product and enquiry brief, not an operating manual, engineering layout, safety protocol, compatibility approval or acceptance record. No confirmed product operation video is supplied in this brochure.