

PROFILE HANDLING / MECHANICAL TURNOVER

Automatic C/Z Purlin Turnover-Arm Stacker

Model MCZ-Z-400-10 receives formed C, U and Z profiles, positions and grips each part, and builds layered stacks with turnover as required by the stacking sequence.



Equipment illustration from the existing catalogue. Not verified installation, trial or acceptance evidence.

3-13 m

PROFILE LENGTH

100-400 mm

PROFILE WIDTH

1.5-5 mm

MATERIAL THICKNESS

300 kg maximum lifting weight per individual profile

Do not select MCZ-Z-400-10 if any individual profile weighs more than 300 kg. This is a single-piece lifting limit, not a finished-bundle load rating.

Position. Grip. Turn. Stack.

01 Receive and position

Convey the profile to its preset position and locate it before gripping.

02 Place the first layer

Grip and place positioned profiles until the first layer is complete.

03 Turn the following layer

The next-layer sequence includes turnover, gripping and placement.

04 Prepare bundle handover

Adjust columns and layers within the designed range; agree bundle removal.

Sequence summary only - not setup instructions, an approved bundle recipe or a production-rate guarantee.

DOCUMENTED SPECIFICATION

Review the complete section drawing.

Item	Manufacturer-supplied specification
Model / profile family	MCZ-Z-400-10 / C, U and Z
Maximum lifting weight per individual profile	300 kg. Not suitable for individual profiles weighing more than 300 kg.
Profile length	3,000-13,000 mm
Profile width	100-400 mm
Material thickness	1.5-5 mm
Waist height (source terminology)	40-125 mm; identify the corresponding dimension on the section drawing
Overall size (L x W x H)	6,400 x 3,200 x 4,200 mm; length excludes the transition / speed-up conveyor
Machine weight	Approximately 2.5 t
Installed power	7.5 kW
Required air compressor	3 kW compressor with a 100 L tank; supporting facility
Lift and traverse	Gear-and-rack drives; linear rails and guide blocks
Arm synchronisation	Transmission shaft connecting the two arms
Stack columns and layers	Adjustable within the designed range

Prepare your configuration enquiry

Send a dimensioned drawing for every C, U or Z variant; material and coating; minimum and maximum lengths; item weight; incoming orientation and discharge height; observed arrival intervals; layer and bundle sketches; and the finished-bundle removal method.

Selection limit: any individual profile above 300 kg excludes this model. Profiles at or below 300 kg still require review of geometry, tooling and the stacking arrangement. The single-piece lifting limit does not rate finished bundles. Cycle time, bundle load, maximum stack height, air pressure and air consumption are not specified; confirm them separately.

- [View full product specifications](#)
- [Drawing and bundle preparation guide](#)
- [Download the blank project input sheet \(TXT\)](#)

SUPPLIED CONFIGURATION

Structure, drives and controls.

Component	Listed specification / supplier
Frame / crossbeam tubes	250 x 150 x 5 mm / 200 x 100 x 5 mm
Conveyor-frame tube / rollers	100 x 50 x 5 mm / diameter 120 x 480 mm
Linear guide blocks / gear and rack	HIWIN / module 2.5 helical teeth; lift and traverse
Bearings / conveyor chain	Harbin / Ziqiang
Cylinders and solenoid valves	AirTAC (Xingchen Pneumatics), as listed
Traverse reducer	KM488-10-SF130-110, hypoid; 1; Feilande precision transmission
Lift / turnover reducers	GKAB49-SF130-110 / GKAB69-SF130-110; 1 each; Zhejiang Geer
Conveyor variable-frequency motor	GKA39-YVPEJ1.5-4P; 1; Zhejiang Geer
Lift / traverse / turnover servo motors	3,000 W / 2,000 W / 1,300 W; 1 each; VEICHI
PLC	VH100-08080ETN; 1; VEICHI
Drive entries	SD710-5R5A-PA x 3; SD700-8R4D-PA x 1 listed twice; VEICHI
Inverter / touchscreen	Inverter: 1, VEICHI, model unspecified; TPC1031NT: 1, Kunlun Tongtai (MCGS)
Contactor / intermediate relay	CJX2s-4011, DELIXI / DELIXI
Photoelectric / proximity / limit switches	OMRON / Hugong / DELIXI
Circuit breaker / switching power supply	C63, DELIXI / Ming Wei, as named in the source

Unspecified component quantities remain unspecified. Repeated drive entries are retained. Installed power is reproduced separately and is not recalculated from the motor list; confirm the final electrical schedule and order configuration.

Delivery reference: 20 days after receipt of the deposit, subject to separate notification for natural disasters, unexpected power outages or authority-ordered shutdowns. Confirm the current schedule in the quotation and contract.

[Operation video: workshop view](#)

[Operation video: handling-arm view](#)

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Source basis: manufacturer-supplied Export C-profile Stacker specification, plus the supplier-confirmed 300 kg single-piece lifting limit added on 11 October 2026. Product information for configuration review, not an operating manual or acceptance record.