

COBOT PALLETIZING • SERIES PRODUCT

P29.5 palletizing unit

Compact plug and play palletizing, built on the Fairino FR20 collaborative robot with palletizing software fully developed in-house by TMC.



20 kg

MAX PRODUCT WEIGHT

5-6

BOXES PER MINUTE

2

PALLET POSITIONS

2.1 m

STACKING HEIGHT

230 V

STANDARD PLUG

The P29.5 picks your boxes from a fixed pick position and stacks them on one or two euro pallets, each with its own stacking pattern. **Set up a new product in minutes** on the 17 inch touchscreen: the wizard builds the sequence,

fills the pallet for maximum load and keeps labels facing outward. Plug it into a standard 230 V socket, connect compressed air, and palletize.

Why the P29.5

Everything you need to palletize, nothing you do not.

Two pallets, one robot

Two pallet positions, one on each side. Exchange a full pallet while production continues: the unit pauses when you enter the safety zone and resumes automatically when you leave.

Software by TMC

Fully in-house palletizing software on a Windows IPC with 17 inch touchscreen. Wizard-based setup, auto fill, alternating layers, label positioning and an unlimited number of stored programs.

Safe without fencing

Three safety scanners monitor the area around the unit. It stops automatically when a person comes too close and resumes automatically when the area is clear. CE compliant.

Grip you can trust

Vacuum suction cup gripper with digital vacuum monitoring on every box. If the vacuum drops during a movement, the unit stops immediately, so no box is ever dropped unnoticed.

Fits through every door

The stainless steel pallet stops fold onto the base frame, shrinking the whole unit to one euro pallet footprint, about 2 m high. Move it with a forklift or pallet truck, no floor anchoring needed.

Plug and play

Installed and started by your own team: 230 V standard plug, 6 bar dry compressed air, M8 connections for your product sensors. Manual and training videos included, remote support during business hours.

ROBOT & PERFORMANCE

Robot	Fairino FR20, 6 axes
Payload / reach	20 kg / 1854 mm
Max product weight	20 kg, stable products
Capacity	up to 5-6 boxes per minute
Boxes	flat, even top surface

PALLETS & FOOTPRINT

Pallet size	800 × 1200 mm
Pallet positions	2, one per side
Stacking height	max 2.1 m incl. pallet
Footprint	approx. 2400 × 1200 mm
Transport size	1 euro pallet, approx. 2 m high

INSTALLATION

Power	230 V, standard plug
Compressed air	6 bar, dry
Infeed	by customer, M8 sensor inputs
Setup	plug and play
Warranty	1 year

Product infeed to be provided by the customer. Full technical details in the P29.5 specification sheet.