

Panel Robot Loader / Unloader





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The PRB Panel Robot handler is an excellent choice for the mixed production of single- and double-sided PCB as well for the inner layer production, with or without using slip-sheets. The Machine consists of a pass / pick up conveyor, an intelligent robot head and two cart stations for PCB panels or slip-sheets. Continuous running while changing carts. The essential robot head inside the machine is fully flexible, and can be programmed to the configuration required. The cart system for PCB panels is based on a 55° magazine cart.

The intelligent lift and lock system for the cart makes it possible to use the same cart for different conveyor height. Further there is no adjustment of the suction head required, when changing panel size from batch to batch.

Features

- Continuous operation with dual cart
- Capable of vertical and horizontal motion
- Automatic compensation for panel thickness changes

Options

- Handling of up to 4 carts
- Custom design
- Double Sheet Detector
- Slip sheets

Specifications for PRB

PCB boards		Conveyor		Control	
Min. size	300 x 300 mm	Type	Flatbelt	Main supply	230 VAC / 50 Hz
Max. size	710 x 610 mm	Conveyor height	900 – 940 mm	Consumption	1200 W
Thickness	0.05 – 3.2 mm	Speed	0.75 – 18.m/min	Air supply	8 Bar / 250 l/min
Weight	4000 g	Stroke	4 - 6 min ⁻¹	PLC	OMRON
				Tower light	Red – Yellow – Blue
Individual specifications		PRB 24 x 28	PRB 26 x 32	Machinery	
Conveyor width [mm]		700 mm (inside)	860 mm (inside)	Frame: ITEM aluminium profile system.	
Machine dimensions, l x w x h [mm]				Covers: hardened, tinted glass and white powder-coated aluminium plates.	
Weight [kg]		300 kg	375 kg		