

CP150™

1.5 Meter High-Precision Automation Platform

A Flexible, High Precision Automation Platform

The CP150 delivers future-proof flexibility to any production line by delivering a highly-modular, scalable system that addresses a variety of automation needs.

FEATURES AND BENEFITS

HIGH-FLEXIBILITY

The CP Series allows for a variety of configurations that can support any number of interrelated processes, production speeds, and quality levels. Configure pallet or edge-belt conveyors with a either a reversible left-to-right or right-to-left conveyor flow to optimize your manufacturing processes.

MULTIPLE LEVELS OF AUTOMATION

This platform supports a wide range of processes that range from semi-automatic to fully-automated modes - to help support your manufacturing objectives.

REDEPLOYABLE

Future proof your investment by re-deploying the CP Series workcell for various applications. Common interfaces enables rapid change-over of applications - saving you time and money.

ENHANCED CAPABILITIES

METROLOGY

- Identify Cosmetic Defects, Coating Thickness, Gaps, and Offsets
- High-Speed Multi-Angle Light Triggering

OPTICAL INSPECTION

- Cosmetic Defects
- Coating Defects
- Surface Finishes
- Gaps & Offsets
- Color & Gloss

LAMINATION

- Alignment Repeatability within 10 microns
- Scalable for a Variety of Rigid and Flexible Material Combinations
- Non-Contact “Bernoulli End-Effector” Loading & Unloading
- Automated Planarity Adjustment

KEY FEATURES

- Platforms can be configured in any orientation ensuring optimal support of interrelated processes, production speeds, and quality levels
- Modular z-axis and theta-axis (optional) available
- Multiple vision location options (up-camera or down-camera)
- Standardized mounting flanges and control interfaces
- Quick-change feeder mounting available
- OSHA and ANSI compliant



TECHNICAL SPECS

Footprint	1495mm (w) x 1275mm (D) x 1800mm (H)
	1495mm (w) x 1275mm (D) x 2268mm (H) – With Light Tower
Work Envelope	700mm (X-axis) x 700mm (Y-axis)
Axes of Motion	4 axes (X, Y, Z, T) – Standard 3 axes optional, Up to 16 axis compatible
Z Max. Stroke	100mm – Standard
Theta	360° – Standard
Manipulator Repeatability	X, Y, Z $\pm 25\mu\text{m}$ T $\pm 0.005^\circ$
Manipulator Payload	Rated 3kg, Max. 6 kg (on Z-Axis) – Standard
Utility Requirements	Power 220VAC $\pm 10\%$, 50/60Hz, 25 Amp Air 5.2-6.9 bar, 57 L/min
Product Presentation	Edge Belt Conveyor Pallet Conveyor Manual Load Dual Shuttle Rotary Table
Controls System	Advantech PC with Windows 10 Beckhoff TwinCAT3 Controller ARVIS PC GUI
Electrical I/O	User I/O – 24 VDC, 16 General Purpose Inputs / 16 General Purpose Outputs (NPN) Expansion I/O – 16 Inputs / 16 Outputs per expansion card (NPN) Remote I/O – 20 Inputs / 12 Outputs per Remote card (NPN)
MES Connectivity	Jabil ARVIS Visual Programming Environment
Feeder Slots Available	Feeders (Label, Tape, Reel, Tube) Tray Loader/Unloader Manual Load Stack
Pneumatic	Remote valve bank(s) optional, remote vacuum optional



For additional information, visit jabil.com/precision-automation