



Enhanced Capabilities

Metrology

- Identify Cosmetic Defects, Coating Thickness, Gaps, and Offsets
- High-Speed Multi-Angle Light Triggering
- Custom AI Defect Generation Software

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

CP150

1.5 Meter 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.

Product 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 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.



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



Specs	
Machine Footprint	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • 4 axes (X, Y, Z, T) – Standard • 3 axes optional, Up to 16 axis compatible
Z Max. Stroke	100mm – Standard
Theta	360° – Standard
Manipulator Payload	Rated 3kg, Max. 6 kg (on Z-Axis) – Standard
Manipulator Repeatability	<ul style="list-style-type: none"> • X, Y, Z ±25µm • T ±0.005°
Utility Requirements	Power 220VAC ±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
Feeder Slots Available	Feeders (Label, Tape, Reel, Tube), Tray Loader/Unloader, Manual Load Stack
Electrical I/O	<ul style="list-style-type: none"> • 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)
Pneumatic	Remote valve bank(s) optional, remote vacuum optional
MES Connectivity	Jabil ARVIS Visual Programming Environment
Controls	<ul style="list-style-type: none"> • Advantech PC with Windows 10 • Beckhoff TwinCAT3 Controller • ARVIS PC GUI

For over 40 years, Jabil Chad Automation's unparalleled expertise in advanced automated assembly and precision alignment has helped the world's top companies efficiently manufacture the next generation of semiconductors, mobile and optical devices, and consumer electronics.

**For more information visit
www.chadautomation.com**