CP 150
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.

JABIL
The most technologically advanced and trusted manufacturing solutions provider

CP 150
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 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
- Custom AI Defect Generation Software

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

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

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**CP150**

**A FLEXIBLE, HIGH-PRECISION AUTOMATION SOLUTION**

**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 | - 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 Payload | Rated 3kg, Max. 6 kg (on Z-Axis) – Standard |
| Manipulator Repeatability | 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   | - 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         | - Advantech PC with Windows 10  
|                  | - Beckhoff TwinCAT3 Controller  
|                  | - ARVIS PC GUI |

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