

# Electronics Test and Handling

## PreciseFlex 3400 and PreciseFlex c10 robots with IntelliGuide

Are your testing operations and productivity constrained by lack of available labor?

### Keep Your Testers Running

Automating the loading and unloading of electronics testers ensures predictable, consistent production. Robotic loading also runs consistently around the clock.

### Scale Production with Existing Staff

Increase testing capacity by augmenting your staff and enabling them to perform higher value work.

### Scale within Existing Floorspace

Brooks robots enable the highest workspace density available, with 30+% space savings.

### Get to Production Faster

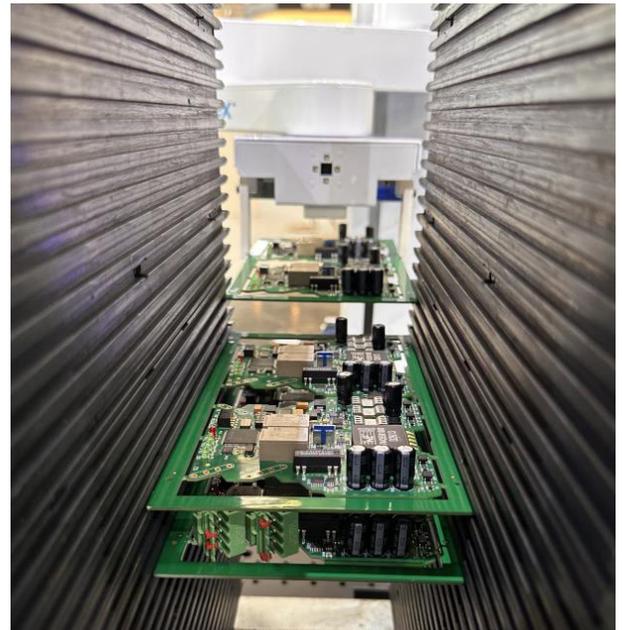
Brooks robots with embedded vision significantly reduce time required for system design, installation, and deployment.

### Zero-Defects Production

Brooks robots run unattended and reduce failures caused by people handling electronics. Connectivity to testers and MES systems ensures chain-of-custody.

### Testing Methods

PreciseFlex robots are used to load and unload machines for various testing processes, including In-Circuit, Functional and Burn-In testing. They are also used in handling and transfer operations.



### Key Benefits

- Fast, easy deployment unlocks the best ROI
- Eliminate time consuming teaching for simple and complex applications alike
- Traceability built-in; scan barcodes during tests
- Automatically adapt to roll-up carts with racks or magazines

### Award Winning Solution

The PreciseFlex 3400 robot with IntelliGuide has received awards from Global SMT and Mexico EMS publications.

- Global SMT Award, Munich, Nov 2023
- MEXICO EMS Award, Guadalajara, Oct 2023
- Circuits Assembly NPI Award, Anaheim, April 2024

# Electronics Test and Handling

## Product Highlights



### Recommended Robots

PreciseFlex 3400 Robot, available with Collaborative Linear Rail  
 PreciseFlex c10 Robot

### Specifications

#### Payload

|                  |       |
|------------------|-------|
| PreciseFlex 3400 | 3 kg  |
| PreciseFlex c10  | 10 kg |

See the following datasheets for more details

- PreciseFlex 3400
- PreciseFlex c10
- IntelliGuide Vision
- IntelliGuide Servo

### IntelliGuide v23

**Cameras** Forward Looking and Downward Looking

**Resolution** Resolution: 5MP, H:2592, V:1944

**Gripping Force** 23N

**Gripper Stroke** 60 mm

**Payload** 1.0 kg

### IntelliGuide v60

**Cameras** Forward Looking and Downward Looking

**Resolution** Resolution: 5MP, H:2592, V:1944

**Gripping Force** 60N

**Gripper Stroke** 40 mm

**Payload** 3.0 kg (1.9 kg when equipped on PreciseFlex 3400)

### Functions

#### XY Compliance:

Allow guide pins and chamfers to guide the robot onto locating pins. Floats horizontal links while Z-axis lowers boards, panels or modules into fixtures.

#### Z-Height Detect:

Use the Z-axis as a force sensor to determine stack size of boards, components and other parts.

### Advanced Functions (with IntelliGuide Vision)

#### Auto-Teach:

Let IntelliGuide automatically teach single locations like test fixtures or arrays of locations such as magazines, racks or carriers.

#### Part Alignment:

Locate boards, panels or modules in trays, magazines or racks.

#### Barcode Reading:

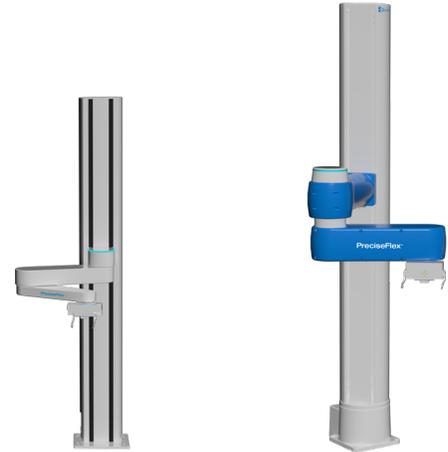
Read 1D and 2D barcodes. See IntelliGuide Vision datasheet.

### Options

- Collaborative Linear Rail for PreciseFlex 3400 robot
- IntelliGuide v23, s23 and s23D (Dual Gripper)
- IntelliGuide v60 and s60
- Auto-Teach Labels for quick start (with IntelliGuide Vision)

### Software

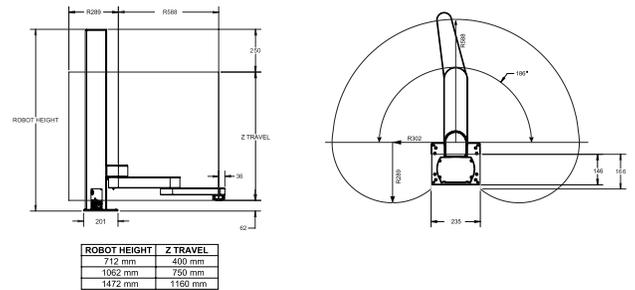
- Programming via Guidance Development Studio (GDS)
- Compatible with Guidance Programming Language (GPL)
- Compatible with TCS API



PreciseFlex 3400 Robot with IntelliGuide v23

PreciseFlex c10 Robot with IntelliGuide v60

## PreciseFlex 3400 Work Envelope



## PreciseFlex c10 Work Envelope

