

## Specifications

### KITS

<b>PACKAGE TYPE</b>	QFP, TQFP, TSOP, SOIC, CSP, BGA, $\mu$ BGA, QFN, WLCSP and others
<b>PACKAGE SIZE</b>	Minimum: 3 mm x 3 mm Maximum: 50 mm x 50 mm
<b>PACKAGE CHANGEOVER</b>	<20 minutes typical
<b>CONTACTORS</b>	Delta Design high-performance contactors or customer-specified contactors

### PLATFORM

<b>MEDIA</b>	JEDEC trays (for other tray types, please consult factory)
<b>INPUT</b>	1 - Automated input position 1 - Automated empty tray storage position 90° device rotation (optional)
<b>SORT</b>	3 - Automated sort positions 3 - Manual sort positions 1 - Automated auxiliary buffer position (optional) 1 - Additional automated or manual sort (optional) 3rd party vision inspection integration (optional) Package 2D ID reading (optional)
<b>TEST SITE</b>	x1 – x8 (standard) x16 (optional) Pitch-x: 32 mm up to 80 mm Pitch-y: 32 mm up to 80 mm Horizontal docking GUI controlled plunge force up to 360 lbf / 163 kgf (optional)

<b>INDEX TIME</b>	x1 to x8: 440 ms to 660 ms x16: 3.0 seconds
<b>THROUGHPUT</b>	Up to 8,600 UPH 8 x 20 tray, 0 second test time
<b>JAM RATE</b>	1 in 10,000 units (consult factory for < 5 mm x 5 mm)
<b>PRODUCTIVITY</b>	Automatic Contactor Cleaning (optional) Auto Restest
<b>TEMPERATURE RANGE</b>	Ambient to +130° C Ambient – uncontrolled +50°C to +130°C – controlled

**THERMAL ACCURACY** Thermal Interface, z19 (optional)

Handler Setpoint (SP)	Device Temp Pre-Plunge	Device Temp In-socket (z19) Typical Expectation	
		x1 - x6	x8 - x16
50°C to 90°C	SP $\pm$ 2°C	SP $\pm$ 2°C	SP $\pm$ 3°C
>90°C to 130°C	SP $\pm$ 3°C	SP $\pm$ 3°C	SP $\pm$ 4°C

**BINNING INTERFACE** Parallel, RS 232, GPIB and P849

### ESD CONTROL

	Standard	Optional RF
Decay	5 s	10 s
Balance	50 V	5 V

### USER INTERFACE

Windows-based, color touchscreen

### AIR REQUIREMENTS

60 - 150 psi, 14 scfm clean dry air  
0.414 - 1.034 MPa, 396 L/min

### POWER REQUIREMENTS

200-240 VAC, 50/60 Hz,  
Single Phase, 30 A  
CE Conformance

### SYSTEM DIMENSIONS

59.8" L x 64.0" D x 62.6" H  
1.52 m x 1.62 m x 1.58 m

Specifications subject to change without notice.  
For detailed performance specifications, please contact Delta Design.



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# DELTA *EDGE*



**AMBIENT/HOT PICK-AND-PLACE HANDLER**



- ▶ x1 to x16 Test Site Configurations
- ▶ 8,600 UPH
- ▶ Chamberless Thermal System
- ▶ 3 x 3mm to 50 x 50mm package handling
- ▶ Automatic Contactor Cleaning