

DEK ELA Specifications

Be sure and call or [e-mail](#) regarding this screen print inventory.

Board Handling

Minimum Size: 40mm x 50mm Maximum Size: 510mm x 508mm (20 in. x 20 in.)

Maximum Weight: 1 kg size Tolerance: +/- 0.3mm (0.012 in.)

Thickness: 0.4mm – 6.0mm (0.02 in. – 0.25 in.)

Underside Component: 3mm – 42mm programmable Clearance

Transport: Maximum 3.5mm (0.15 in.) of clearance along Board edge for belt feed

Transport Speed: 400mm/sec (19.0 in./sec) nominally

Feed Direction: Selectable: Left to right, right to left, left to left, right to right

Rail Justification : Front Rail Fixed Interface :

SMEMA and all major placement machines Interface Height: 820mm – 980mm (32 in. – 38.5 in.)

Configurable Width Adjustment: Programmable 45mm –508.55 (1.75 in. – 20 in.) In 0.1 mm increments

Tooling: Fully adjustable over board range

Registration/Alignment: Vision recognition alignment Tooling Pin Height: 81.0mm, +0.0mm, -0.02mm

Vision Parameter

Recognition Method: Synthetic shape or video model recognition

Fiducials: 2 fiducial + non vision mode

Fiducial Size: 0.5mm –3mm (0.02 in. – 0.14 in.)

Camera System: Single telecentric XY camera Fiducial

Location: Anywhere on board self teach/co-ordinate entry (Simultaneous look up/down optics)

Fiducial Teach: Shape and dimension parameter entry

Align Calibration: Fully automatic

Operator Control: Integrated with Printer Control Vision System Hardware:
Cognex 8100 Vision

Print Parameters Screen Frames: DEK 265 Print Image: Front or center image, programmable

Print Area: 510 mm x 489 mm (20 in. x 19.25 in.) max (With DEK screen frame Print Stroke: 56 mm – 566 mm (2.2 in. –22.3 in.)

Print Speed: 2 mm/sec –150 mm/sec (0.08 in./sec –5.9 in.sec)

Print Pressure: 0 kg – 20 kg (0 lbs – 44 lbs)

Print Gap: 0 mm – 6 mm (0 in. –0.24 in.)

PCB Stencil Separation: 0.1 mm/sec – 20 mm/sec (0.04 in./sec-0.79 in./sec
0 Speed: from 0 mm to 3 mm (0.12in.) from stencil

Print Modes: Print/print double squeegee; flood/print; print flood

Squeegee Types: Single trailing with flood bar; double trailing or Diamond, various sizes (see DOES sheet for options and sizes)

Screen Changeover: Manual Screen Adjustment X/Y range: +/- 10 mm (+- 0.4 in.), accuracy +/- 1- Micron. Theta range: +/- 1.75°, accuracy +/-0.001°

Paste Dispense: Standard 1 kg cartridge: programmable volume, Frequency and position (0.5 kg optional)

Screen Cleaning: Fully programmable wet, dry and combination

Options, plus Vacuum option, with Auto cleaning .