

DEK 265 GSX



Machine Features and Specifications:

BOARD HANDLING	
Minimum Size	20 x 38 mm (2.74 x 1.5 in.)
Minimum Size	510 x 508 mm (20 x 20 in)
Size Tolerance	± 0.3 mm (0.012 in.)
Thickness	0.2 – 6.4 mm (0.02 – 0.25 in.)
Warpage	1% of board diagonally up to maximum of 8 mm (0.3 in.) thickness, including board.
Underside Component Clearance	3 – 25 mm programmable (0.12 – 1 in.)
Transport	Maximum 3.5 mm (0.15 in.) board edge for belt feed
Transport Speed	500 mm/sec (19.0 in./sec) nominally
Feed Direction	Selectable pass thru or single ended, from left or right
Rail Justification	Front fixed or Rear fixed (factory set)
Interface	SMEMA and all major placement machines
Interface Height Configurable	820 – 980 mm (32 – 38.5 in.)
Width Adjustment	Programmable 38 – 510 mm (1.75 – 20 in.)
Tooling	Fully adjustable over board range
Registration	Vision
VISION PARAMETERS	
Recognition method	Synthetic shape recognition or correlation
Fiducials	2 or 3 off Fiducials
Fiducial size	0.5 – 3.5 mm (0.02 – 0.14 in.)
Camera system	Motorised telecentric X Y single camera
Fiducial location	Anywhere on board self teach/co-ordinate entry
Fiducial teach	Shape and dimension parameter entry
Align calibration	Fully automatic (look up/down optics)
Operator control	Integrated with printer control
PRINT PARAMETERS	
Screen frames:	DEK/MPM: 736 X 736 X 38/40 MM (29 X 29 X 1.6 in.) (external) Printing to within side of frame = 75mm 249/UIC: 584 x 584 x 25mm (23 x 23 x 1in.) (external) 508 x 508mm (20 x 20) (internal) FUJI 4000: 580 x 800 x 28mm (22.8 x 31.5 x 1.1 in) (external) 510 x 730mm (20 x 28.7in) (internal) SANYO: 650 x 550 25mm (25.5 x 21.6 x 1in) (external) 570 x 470mm (22.4 x 18.5in) (internal)
Print Image	Front, center or rear
Print area	510 x 489 mm (20 x 19.25 in.) max, with DEK screen frame
Print stroke	56 – 566 mm (2.2 – 22.3 in)
Print speed	2 – 150 mm/sec (0.08 – 5.9 in/sec)
Print pressure	0 – 20 kg (0 – 44 lbs)
Print gap	0 – 6 mm (0 – 0.24 in)
PCB stencil separation speed	0.1 – 20 mm/sec (0.04 – 0.79 in/sec) for first 3mm (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
Screen changeover	Motorised, front loading with auto positioning and clamping
Screen adjustment	X/Y range +/- 10mm (+/- 0.4 in.) accuracy +/- 4 micron. Theta range +/- 1.75° accuracy, +/- 0.001°
Paste dispense	Programmable every 1 – 100 cycles, standard 1kg cartridge; programmable volume, frequency and position.
Screen cleaning	Programmable 0 – 200 cycle and for 1 to 4 wipes
GENERAL PARAMETERS	
Accuracy	+/- 25 microns at Fiducial Dry at 6 sigma, Wet at 3 sigma
Cycle time	16 sec + process variables
Set-up time	Less than 5 minutes
Changeover Time	Less than 2 min.
CONTROL SYSTEM	
Hardware	All solid state microcomputer control, low voltage dc power control
Operator Interface	Video screen and keyboard, user friendly menu commands, metric or imperial units, built in diagnostics and help prompts
Parameter storage	Universal parameter recall on power up. Built in hard disk storage 3.5in. floppy disk PC compatibility
Communications	Serial Interface to SECSII for parameters and management information
Management	Logging to local disk of time related faults and selected events
Password protection	Password protection in addition to the keyswitch, will prevent unauthorized access to Parameter Editing, Diagnostics and DOS
OPERATION	
Temperature	10 - 35°C
Humidity	30 – 90% Relative Humidity (non condensing)
Power supply	Selectable 100, 110, 200, 210, 220, 240V (+/- 10%), 50/60Hz
Power consumption	Max. 3kW
Electrical standard	Generally in accordance with EN 60 204 Part 1 : 1985
Safety standard	Generally in accordance with BS 5304 : 1988
Air supply	4 – 8 bars (60 – 120psi). 5.0 Litres/min (0.2cfm)
Dimensions	1405 x 1314mm (50.6 x 51.7 in), Height 1460mm (57.4in)
Weight	Approx. 900kg (1980lbs). Shipping 1000kg (2200lbs).
OPTIONAL SPECIFICATION	
Temperature cooling unit	Cooling of printhead temperature to a controlled level, within range 17 - 30°C
Environmental control	Control of Printhead temperature and humidity:- Set point Temperature- 22-28°C (+/- 1°C) Set point Humidity- 30-70% relative humidity (+/- 5%) Air velocity- Unrestricted: 12 metres/sec (+/- 2.0) average Across working area: 0.3 m/sec (+/-0.1) av. Ambient environment- Temperature 15-35°C Humidity 20-90% (see Appendix A at rear of manual)
Autoflex tooling	Fully programmable pin matrix to support boards
Manuflex tooling	Dedicated pin matrix with manual setting for board support
Vacuum boxes	Dedicated vacuum boxes for special applications
Dedicated Plate	Dedicated 'flat plate' support without vacuum
Auto screen changer	2 position unit that enables one screen to be held in readiness for automatic screen change
Product Bar code reader	Enables bar code to be read on board.
Screen Bar code reader	Enables bar code to be read on screen.
Up/down line interface	Available for most configuration subject to factory confirmation
Wet screen clean	Programmable combination of wet and dry cycles in conjunction with standard screen cleaning unit. Reservoir capacity 400cc (0.7 pts)