

## HORIZON SCREEN PRINTERS

### 4265 HORIZON.01 4265 HORIZON.02



Universal's 4265 Horizon series of screen printers gives you maximum control over the capabilities and total cost of your pre-placement equipment. Highly configurable, Universal's Horizon machines introduce uniquely flexible options, allowing you to precisely tailor your solution to fit your needs and your budget.

Choose the 10-second cycle time Horizon.01 or the 12.5-second cycle time Horizon.02 (cycle time upgrade available). Then, building on the base Horizon configuration, you can optimize your solution to deliver the precise level of throughput and automation you need to meet your production mix and volume requirements, at precisely the right price.

#### Powerful Horizon options package

- Cycle time upgrade: 10 seconds for Horizon.02 or 8 seconds for Horizon.01
- Multiflex or vacuum tooling
- FormFlex tooling options
- Adjustable stencil mount (standard on Horizon.01)
- Board clamp regulator
- Squeegee options, programmable paste dispenser up to 1 kg
- ProFlow® direct material imaging
- Paper USC, optional paper widths
- Vortex USC with filtration options
- Basic and advanced vision inspection: board and stencil packages
- SPC software, offline editing, and remote changeover
- DEKNET Ethernet LAN package + SECSII/GEM

#### Screen Frames Specification

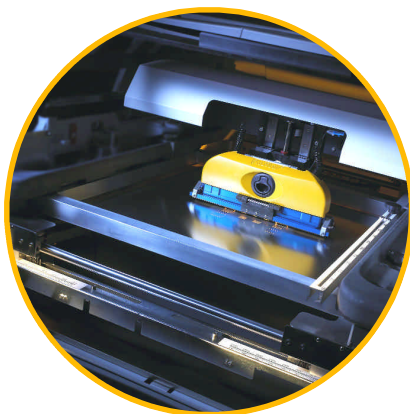
	Type	External (w x l x t)	Internal (w x l)
Standard	DEK 265	736 x 736 x 38/40 mm (29 x 29")	660 x 660 mm (26 x 26")
Optional Chase Adapters	DEK 260	585 x 585 x 38 mm (23 x 23")	508 x 508 mm (20 x 20")
	Sanyo	550 x 650 x 38 mm (22 x 26")	
Optional Screen Adapters	All common stencil sizes available: Sanyo, Ekra, Fuji, Panasonic, MPM etc.		
Image Position	Center, front, custom		

#### Board Handling Specification

Minimum Size	40 x 50 mm (1.6 x 2")
Maximum Size	510 x 508 mm (20 x 20") [620 x 508 mm (24 x 20")]*
Thickness	0.2 – 6 mm
Warpage	Up to 8 mm including PCB thickness
Underside Component Clearance	Programmable 3 – 42 mm
Transport Conveyors	Programmable motorized
Transport Direction	Left to right, right to left, left to left, right to right
Interface Protocols	All popular interfaces available
Board Location	Patented over-the-top clamps, edge clamping*, vacuum*, foil-less clamps with vacuum*
Registration	Fully automatic vision

#### Process Parameters Specification

Print Speed	2 – 150 mm/sec
Print Pressure	0 – 20 kg programmable (closed loop feedback)*
Print Gap	0 – 6 mm
Stencil Separation	Speed: 0.1 – 20 mm/sec
	Distance: 0 – 3 mm
Print Modes	ProFlow, print print, print flood, flood print, adhesive
Paste Knead	Programmable: number, period, on demand



**Vision Specification**

Vision System	Cognex 8100 Vision System
Camera Lighting	Software controlled programmable lighting
Fiducials	2 or 3
Fiducial Types	Synthetic fiducial library or unique pattern recognition
Fiducial Size	0.5 – 3 mm
Fiducial Position	Anywhere on PCB
Fiducial Error Recovery	Auto lighting adjustment, auto fiducial search, smart fiducial

**Performance Specification**

Alignment	Stencil to Board Repeatability 1.6 CPK @ ±25µm
Cycle Time	Horizon.01, 10 seconds, 8 seconds* Horizon.02, 12.5 seconds, 10 seconds*
Product Changeover	2 minutes#
New Product Setup	<10 minutes

**Operator Interface Specification**

Hardware	Horizon.01 Color VGA touch screen display, keyboard, and mouse Horizon.02 Flat panel display with IR-linked keyboard, and mouse
Software Operating System	Windows NT®
Manuals	Electronically on CD-ROM, hard copies available*

**Certification Specification**

CE	89/392/EEC, 89/336/EEC, 73/23/EEC, subsequent amendments
ETL	UL 1950, 3rd Edition 1995, CAN/CSA C22.2 No 950-95

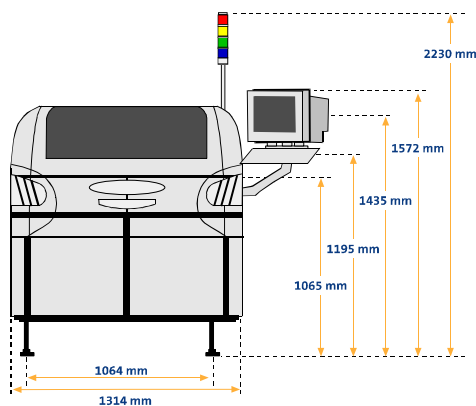
**Services Specification**

Power Supply	100, 110, 120, 200, 210, 210, 220, 230, 240 volt single phase 50/60Hz
Current	110V - 16 amps, 120V - 15 amps, 200 - 220V - 8 amps, 220 - 240V - 7 amps
Air	Clean dry air 5-8 bar (60-120 psi) at 5 liters/min

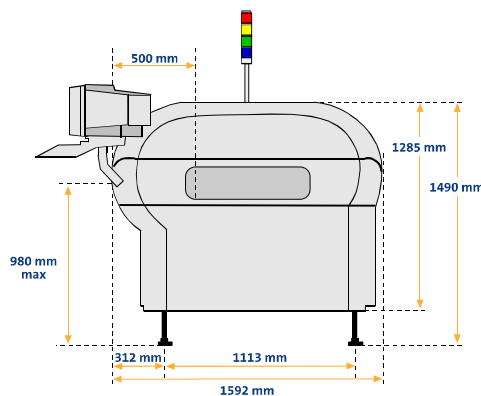
**Shipping Information**

Shipping Information	Specification
Approx. Weight	900 kg
Approx. Dimensions	1314 x 1325 x 1592 mm (51.7" x 52.1" x 62.6")

\* options, # timed using AutoFlex



**4265H FRONT VIEW**



**4265H SIDE VIEW (RIGHT)**

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