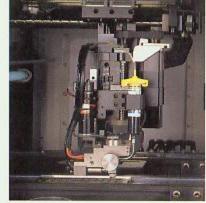




Future Dispenser System

The FDS Series technology to high volume IC packaging applications. Specifically designed to provide closed- loop control of key process parameters for IN-LINE IC encapsulation,

the FDS-1500 platform assures reliable dispensing performance for glob top, dam and fill, cavity fill, underfill and other critical dispensing application in IC package assembly.



Process Step

Loader & Unloader

Loader & Unloader

Underfill & Topfill

Working Zone

Underfill & Topfill



Loader & Unloader



Loader & Unloader

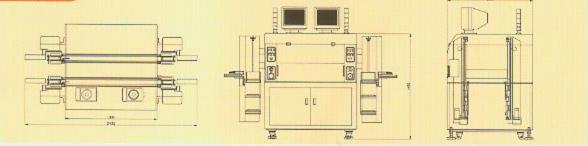
Underfill & Topfill

Underfill & Topfill

Specification

Apply package	μ BGA (Underfill), EBGA (Dam)
Dispense material specification	Material-Epoxy, silicon, Phenol
	Viscosity-5,000 to 1,500,000cps @ 25°C
	Catridge-5cc, 10cc, 30cc, 50cc option 150cc
Magazine dimension	50 × 150 × 144~100 × 260 × 160 (width × length × height)mm
Carrier Type	AUER boats, lead frames or customer's option
Carrier Size	$50 \times 150 \times 0.2t \sim 100 \times 200 \times 2t$ (width × length × height)mm
Machi	
Machine dimension	2,432×1,200×1,480 (W×D×H/mm)
Power Requirements	AC220V, 50/60Hz, 2.2KW
Air Pressure	690Kpa, 6.9 Bar, 28 liters/mim(100 psi, 3 SCFM)
Weight	1,400 kg
Loader & unloader	No. of Magazine 12ea/set
	Up/down:AC servo motor
Conveyor	Speed-Maximum 600mm/s (23.6 in./s)
	Manual handing adjustment. Repeatability: ±0.15mm
Dispensing	Pattern writing. New patten program: maximum less than 30min
Head unit	2 head unit
Dispensing pump	Rotary positive displacement pump & Linear pump
Dispensing accuracy	±0.1mm
Height sensor type & accuracy	Laser sensor type, ±0.01mm (0.001mm Resolution)
X-Y-Z Position accuracy (Substrate / Units type all)	±0.025mm (±0.001 In)
X-Y-Z Position Repeatability (Substrate / Units type all)	±0.02mm (±0.001 In)
Vision accuracy	±0.013mm (±0.0005 ln)
Vision recognition time (sec/unit)	0.3(sec)
Temperature Management	Needle Heater Ambient to 50°C with ±2°C. Resolution 0.1°C
Temperature Control	Closed-loop PID controllers
Operating System	Windows NT Environment

System Layout



#Specifications are subject to change without notice for improvement.

