



UltraMAX™

Advanced Dispensing

GPD Global
Precision Dispensing Systems

SPECIFICATIONS & PERFORMANCE

Work area	355 mm × 355 mm (14 in × 14 in)
Heat	Non-heated system
Accuracy*	±0.012 mm (±.0005 in)
Repeatability (per axis)	±0.008 mm (±.0003 in)
Pump speed*	Up to 1,080,000 dots/hr with jet pump (37,500 components/hr)
Encoder	1 µm, linear
Gantry type	X & Y - linear, Z - rotary
Gantry linear speed	1.5 m/sec (59 in/sec)
Gantry acceleration	2 g or 20 m/s ²
Field of view (camera X,Y)	11 x 8 mm
*With system mapping over standard work area	

CAPABILITY

Media types	Solder paste, SMT adhesive, epoxy
Valve types	Jet, auger, volumetric PCD, Real-Time FPC
Minimum droplet size	Fluid dependent
Minimum dot diameter	350 µm. Contact GPD Global for smaller diameters
Nozzle sizes	75–200 µm jet nozzles and standard needles from 14G-32G
Syringe sizes	5, 10, 30, 55cc

BOARD HANDLING & TRANSPORT

Board thickness	0.5 - 12.5 mm (0.02 in - 0.5 in)
Overboard clearance	25 mm (1 in)
Underboard clearance	25 mm (1 in)
Board edge clearance - top	0 - 5 mm (0.0 in - 0.2 in)
Board edge clearance - bottom	5 mm (0.2 in)
Board transport height (SMEMA)	930 - 975 mm (36.6 in - 38.4 in)
Direction of transport	Left to right, right to left
Maximum board/product weight	10 kg

PUMP COMPATIBILITY	
Solder paste	Jet pump / auger
Underfill	Jet pump / PCD
Staking	Jet pump / auger
SMT glue	Jet pump
Glob top	Jet pump
Dam and fill	Jet pump / auger
*Contact GPD about additional applications	

COMMON APPLICATIONS	
Solder paste	Dots as small as 150 µm
Conductive adhesive	Small volume, complex patterns
SMT adhesive	High speed glue dots
LED encapsulation	Silicone and phosphor mix
Glob top	Silicone and epoxy fills
Potting compounds	Silicone and epoxy fills
*Contact GPD about additional applications	

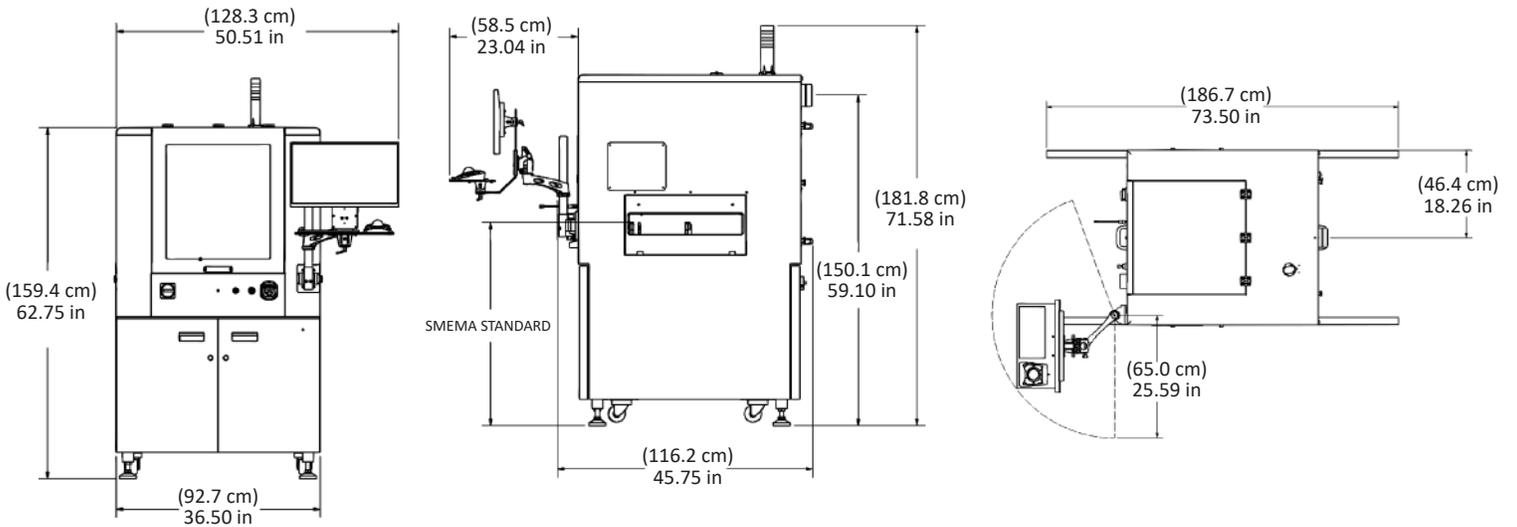
AIR & VENTILATION	
Pressure, clean dry air	552 kPa (80 psi)
Flow rate(max)* = sum of flow for each system present	<ul style="list-style-type: none"> • Machine 113 l/min @ 600 kPa (4CFM @ 87 psi) • Vacuum 113 l/min @ 600 kPa (4CFM @ 87 psi)
Exhaust port diameter (per port)	101.6 mm (4 in)
Flow rate per port	7.079 l/min (250 CFM)
Air fitting thread	¼ in NPT
‡Customer supplies connecting hardware	
‡Customer supplies ducting to exhaust port	

ADD-ON FEATURES	
Process view camera	1 station. View the dispense process at dispense tip on external monitor
Up-looking camera	For nozzle tip inspection
Weight scale	Process/Pump calibration
FPC	Real time process control for pump(s)
UPS	Uninterrupted power. Safely shuts down system in case of power loss
Offline programming	Create, edit, and optimize dispensing programs remotely
Clean-room prep package	Prepares the system for operation in clean-room environments
Extended warranties	Continued protection and service support
Service/Maintenance contracts	Preventive maintenance and priority technical support
Ionizers	For static mitigation
*Contact GPD Global about additional options and features.	

POWER	
Voltage	208-240 VAC, single phase
Frequency	50/60 Hz
Amperage (max)	15 amps @ 230 volts

SOFTWARE
Powered by Windows 11
DFX and Gerber file import
Pre-configured component library
Real-time on-screen process visualization
Bad board exclusion using fiducials and bad marks
Automatic conveyor width adjustment
Built-in optimization & cycle time management tools
SECS/GEM communication compatibility
Intuitive recipe creation with user-friendly programming

DIMENSIONS



GPD Global
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📍 611 Hollingsworth Street,
Grand Junction, CO 81505

☎ +1.970.245.0408

✉ request@gpd-global.com

🏠 www.gpd-global.com

