



MAX Dispense System

Non-Heated, High Precision Dispenser

- **Work Area:** up to 14.1" x 12"
- **Pump Capability:** Up to Two Pumps
- **Heat Capability:** No

MAX dispense system

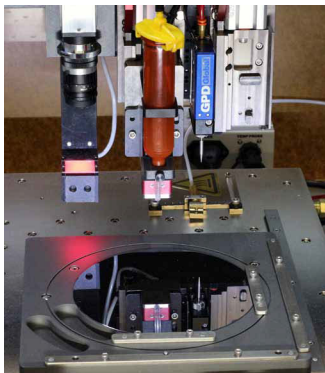
is a compact, high accuracy system designed for today's advanced applications. Up to two different pumps may be mounted on the MAX Series, making it an outstandingly flexible solution for your production environment needs.

The rock-solid unibody Zanite frame ensures all systems meet our stringent accuracy specifications of $\pm 0.001"$ (± 0.025 mm). All systems are calibrated with our Contour Mapping™ process. This process maps gantry motion to a known glass plate, compensating for slight positional changes over the entire work area. This calibration process can easily be done in the field.

GPD Global's universal tool mounting design uses our tool-less Taper Lock™ system, so pump removal and mounting is fast and easy.

Accommodates a variety of pumps. Meet all your dispensing needs with MAX Series and any of GPD Global's pump families: the Volumetric Pump (PCD), the Precision Auger Pump, and the Jetting Pump (NCM5000). For low viscosity/volumetric repeatability applications, use our Volumetric Pump. For pastes and glues, use our Precision Auger Pump. For high speed dispensing of low-to-mid viscosity materials, use our Jetting Pump.

Real Time Process Control System (FPC). Coupling our real time FPC accessory with a Precision Auger Pump further enhances dispense performance.



The exclusive and powerful FLOWare® software gives you exceptional control over all aspects of the dispense process. Programming is performed using a user interface and camera system, or it may be imported from various sources.

Common Applications

Dispense Material	Application
Solder Paste	Dots as small as 150 μ m.
Conductive Adhesive	Small volume, complex patterns.
SMT Adhesive	High speed glue dots.
LED Encapsulation	Silicone and phosphor mix.
Potting Compounds	Silicone or epoxy fills.

* Contact GPD Global about additional applications.

Standard Features

- Tool-less Mounting for Single Pump
- Computer-controlled Syringe Pressure
- Automatic Backlit XYZ Nozzle Calibration
- Contact Surface Sensing
- Automatic Nozzle Cleaning
- Automatic Digital Vision Alignment
- Red/Blue Illuminator for Camera
- FLOWare® Operating Software

Add-On Options

Common Options*	Description
2nd Dispense Station	Enables a second dispense pump to be mounted.
Process View Camera	1 or 2 stations. View the dispense process at dispense tip on external monitor.
ClearVu™ Vision	Programmable zoom and focus camera.
Laser	Non-contact surface sensing.
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.

* Contact GPD Global about additional options and features.



MAX Dispense System

Pump Compatibility

Application	Pumps / Accessories
Paste, glue, adhesive.	Precision Auger Pump
High speed, low viscosity.	Jetting Pump (NCM5000)
No drip, volumetric repeatability.	Volumetric Pump (PCD)
Real time process control.	Fluid Pressure Control (FPC)

Specifications

Capacity

Dispense pumps Up to 2 pumps
Heat Non-heated system

Performance

Accuracy* ± 0.0254 mm (± 0.001 "")
Repeatability (per axis) ± 0.0152 mm (± 0.0006 "")
Speed Up to 45,000+ DPH w/NCM5000 Jetting Pump
Linear Speed 69 cm/sec (27"/sec)
*With system mapping over standard work area.

Dimensions & Weight

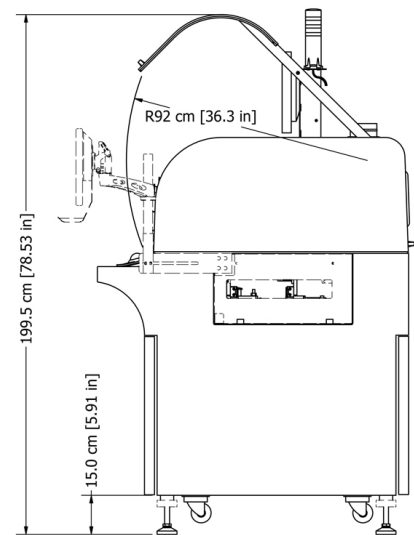
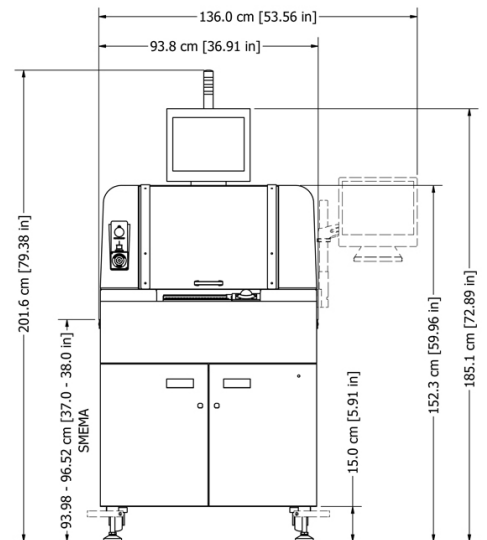
Work Area (X, Y, height):
2 pump stations 31 x 31 x 8 cm (12" x 12" x 3.25")
1 pump station 36 x 31 x 8 cm (14.1" x 12" x 3.25")
Footprint (W x D x H) 94 x 119 x 199 cm (36.9" x 47" x 78.5")
Crated Weight (approximate) 1021 kg (2,250 lbs)
Crated Dimensions (W x D x H) 137.5 x 160 x 183 cm (51" x 63" x 72")

Power

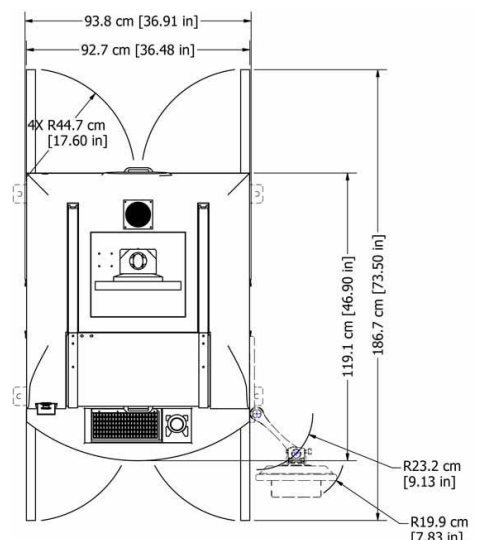
Voltage 120 Volts AC or 230 Volts AC
Frequency 50/60 Hz
Amperage (maximum) 10 amps @ 120 Volts or 5 amps @ 230 Volts
Use dedicated external circuit breaker/fusing or properly rated branch fusing.

Air & Ventilation

Pressure, clean dry air 552 kPa (80 psi)
Flow rate (maximum) = sum of flow for each system present:
Machine 113 l/min @ 600 kPa (4 CFM @ 87 psi)
Optional vacuum system 113 l/min @ 600 kPa (4 CFM @ 87 psi)
Air Fitting Thread† 1/4" NPT
Exhaust port diameter per port‡ 101.6 mm (4")
Ventilation flow rate per port 7,079 l/min (250 CFM)
†Customer supplies connection hardware.
‡Customer supplies ducting to exhaust port.



Vertical dimensions are adjustable ± 1.00 " (± 2.54 cm).
*Optional swivel-style monitor with adjustable arm.



Left-to-Right direction of flow is standard; however
Right-to-Left is configurable at time of order.

GPD Global
Precision Dispensing Systems

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