

# Island Series

## Benchtop Manufacturing System

*High Quality, Entry Level Robot for Simple, Repetitive Automation*

### Simplify dispensing with the GPD Global® Island Series dispense platforms.

Compact, easy-to-use systems that can be configured with all of GPD Global® dispense pumps including the impressive PCD Series for continuously volumetric dispensing over a wide range of fluids.

Island Series robots may be configured with the full range of GPD Global dispense pumps: PCD Volumetric, Precision Auger, NCM5000 jetting, and time pressure. Each system can control a single dispense pump or multiples of the same pump if the system is configured with a tandem mount. The adjustable tandem mount allows multiples of the same type of pump to be used at the same time to increase throughput. The mount is adjustable in pitch and yaw to accurately locate the dispense tips for pallet or strip dispensing.



The Island Series work table can be configured with a simple plate and mounting holes for your own fixturing, or an adjustable set of tooling can be provided with the work table. For extra stability or to hold product flat during dispensing, the work table is available with vacuum. A heated work table is also available for applications that benefit from elevated temperatures. Either way, Island Series systems can handle a wide range of products. Work area sizes range from 300 mm x 400 mm x 100 mm (11.8" x 15.75" x 3.9") up to 400 mm x 400 mm x 100 mm (15.75" x 15.75" x 3.9").

Programming of the Island Series is accomplished entirely with the hand-held, touch screen controller or, for larger data viewing, a PC can be attached. Programming with the touch screen is very easy and intuitive.



Simple features such as dots, lines, arcs, circles, pallets, etc. are available to make programming simple. Each segment of a pattern can include the dispense parameters such as dispense speed, dispense time, dispense height, etc. adjusted for the perfect dispense process. **You can be creating and running programs within an hour of installation.** Once programs are created, they are saved to the internal memory of the system and can be easily selected from the touch screen. Up to 99 programs can be stored in the system.

Programs are initiated by pressing a start button on the front of the system or by pressing Cycle on the touch screen. For ease of cycle counting and batches, the system can be set to run a certain number of units and then notify the operator at the end of the cycle.

The Island Series is designed to be an accurate, reliable platform for complex-to-simple dispensing tasks. Each system is built to last with its high quality materials and can be easily adapted to other applications or dispense pumps.



*Island 3S4 Series with  
GPD Global® PCD4 Pump  
and Controller*

**GPD Global**  
Precision Dispensing Systems

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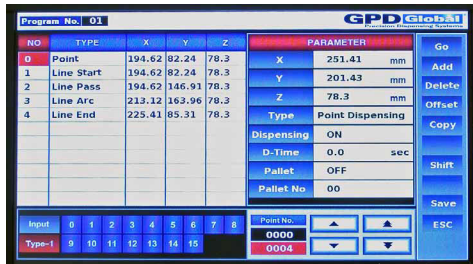
# Island Series - Benchtop Manufacturing

## Easy to Use Touch Screen Programming

User-friendly interface. Easily select operations.



Easy to read and edit.



## Specifications

Specification	Island 3S4	Island 4S4
Range of Operation (X, Y)	300 mm x 400 mm (11.8" x 15.75")	400 mm x 400 mm (15.75" x 15.75")
Range of Operation (Z)	100 mm (4")	
Speed (X, Y)	500 mm/sec (20"/sec)	
Speed (Z)	200 mm/sec (8"/sec)	
Acceleration	0.5G	
Repeatability (X, Y)	± 0.05 mm (± 0.002")	
Repeatability (Z)	0.02 mm (±0.0007")	
Max. Product Weight (Table)	11 kg (24 lb)	
Max. Pump/Tool Weight (Z)	5 kg (11 lb)	
Pump/Tool capacity	1, Tandem operation available	
Program Method	Touch screen, PC	
Operating Control	Touch screen, PC, Front Panel	
Drive System	Micro Stepping Motor	
User Input/Output	System I/O: 4/5 User I/O: 16/15	
Program Capacity	100 programs with 1,000 Steps/Program	
Dimensions (W x D x H)	600 mm x 802 mm x 825 mm (23.6" x 31.6" x 32.5")	700 mm x 802 mm x 825 mm (27.6" x 31.6" x 32.5")
Power	110 V, 50/60 Hz	
Weight (approximate)	77 kg (170 lb)	86 kg (190 lb)

## Pump Compatibility

Application	Pumps
Low-to-mid viscosity, LED Encapsulation, gasketing, area fills.	Volumetric Pump (PCD)
Mid-to-high viscosity and abrasive fluids. Glues, conductive and non-conductive adhesives, solder pastes.	Precision Auger Pump
Low-to-mid viscosity. Underfill, Chip On Board Encapsulation, SMT Glue, UV Glues	Jetting Pump (NCM5000)
Full range of fluid viscosities.	Time Pressure