



## Bench-Top Dispensing Robot

Techcon bench-top dispensing robots are easy to program, simple to operate, and compatible with all valve types and controllers. These versatile dispensing platforms deliver consistent, high performance dispensing results, at an affordable price

Designed and configured specifically for fluid dispensing applications, Techcon robots provide total control over fluid placement, from beads, arcs, and circles to repeated timed dots. Programming is simple via teach pendant.

From a general assembly manufacturer looking to automate an existing dispensing application, to an engineer designing a production process from scratch, Techcon dispensing robots offer unsurpassed value in automated precision fluid dispensing.

The bench-top dispensing robot series are available in 3 platforms:

TSR2202(E): 200 mm X 200 mm working area

TSR2302(E): 300 mm X 300 mm working area

TSR2402(E): 400 mm X 400 mm working area

### Key Features & Benefits

- Easy to program and simple to operate
- Programmable interface via teach pendant (TSR-TPENDANT-2)
- Fast - increase productivity
- Compatible with all Techcon syringes, valves, and jet dispensing systems
- Suitable for a wide range of fluid dispensing applications
- Rugged and reliable construction

### Typical Applications

- Solder paste dispensing
- Form-in-place gasketing
- Filling
- Potting
- Encapsulation
- Bonding
- Coating

| Features                     |                   | TSR2202(E)                      | TSR2302(E)         | TSR2402(E)         |
|------------------------------|-------------------|---------------------------------|--------------------|--------------------|
| Input Voltage                |                   | 110 VAC 50/60 HZ                |                    |                    |
| Input Voltage (E version)    |                   | 220 V AC 50/60 HZ               |                    |                    |
| Power Consumption            |                   | 150 W                           | 200 W              | 200 W              |
| Motor                        |                   | 2-phase stepper                 |                    |                    |
| Drive Mechanism              |                   | Belt                            |                    |                    |
| Number of Controllable Axes  |                   | 3-Axis                          |                    |                    |
| Moving Range                 | X axis            | 200 mm                          | 300 mm             | 400 mm             |
|                              | Y axis            | 200 mm                          | 300 mm             | 400 mm             |
|                              | Z axis            | 50 mm                           | 100 mm             | 100 mm             |
| Speed Range                  | X/Y axis          | 0.1~600 mm/sec                  | 0.1~800 mm/sec     | 0.1~800 mm/sec     |
|                              | Z axis            | 0.1~300 mm/sec                  | 0.1~300 mm/sec     | 0.1~300 mm/sec     |
| Repeatability Accuracy       | X/Y/Z axis        | +/-0.01 mm                      |                    |                    |
| Resolution                   | X/Y/Z axis        | 0.01 mm                         |                    |                    |
| Loading Weight               | Tool              | 5 kg                            | 8 kg               | 8 kg               |
|                              | Head              | 2 kg                            | 5 kg               | 5 kg               |
| Storage for Processing Files |                   | Max 255 files, Max 60000 points |                    |                    |
| Processing Files             |                   | Max 128 files                   |                    |                    |
| Working Ambient              | Temperature       | 0~40 °C                         |                    |                    |
|                              | Relative Humidity | 20%~90% (no condensation)       |                    |                    |
| Dimensions (H x W x D)       |                   | 467 x 320 x 336 mm              | 653 x 484 x 552 mm | 628 x 584 x 650 mm |
| Unit Weight                  |                   | 23 kg                           | 43 kg              | 48 kg              |

**Techcon Corporate Headquarters**  
 10800 Valley View Street, Cypress  
 California, 90630, USA.  
 Tel: 1-714-230-2398  
 E-mail: oemorders@okinternational.com

**Techcon European Corporate Office**  
 Eagle Close, Chandler's Ford Industrial Estate,  
 Eastleigh, Hampshire, SO53 4NF, UK.  
 Tel: +44 2380 489 100  
 E-mail: europe-orders@okinternational.com

Or visit [www.techcon.com](http://www.techcon.com)