

Technical Data Sheet (V-1.0)

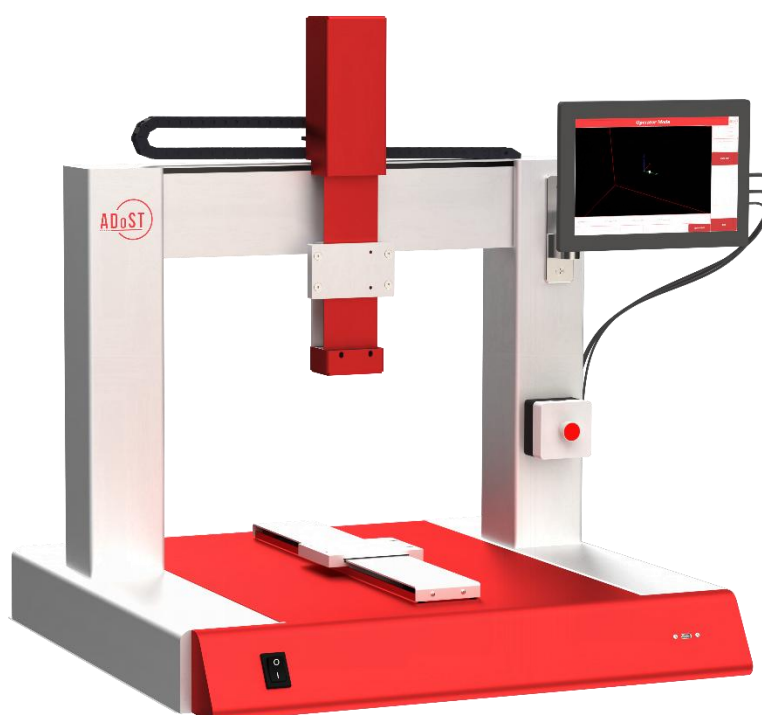
ADoST 3X-RDS1

An automated Robot for fast & precise dispensing of adhesives and sealants.

19th June 2025

Product Description

The ADoST 3X-RDS1 Robo is a desktop robotic system designed for automated & precision dispensing of adhesives and sealants to enhance their application efficiency. This robot features a high precision control system with 3 axis (X, Y & Z) allowing flexible and controlled movement within a defined work area. This setup ensures consistent and accurate dispensing, making it ideal for manufacturing processes where high speed and precision application are the requirements. The robot can be programmed through a digital teach pad to handle various patterns, speeds, and dispensing rates, enhancing productivity and repeatability in production tasks.



Industry Applications

ADoST 3X-RDS1 Benchtop Robo is designed to be used with single or two component adhesives and sealants in industries including but not limited to.

- Automotive
- Medical Devices
- Electronics

Product Features

- Easy to program touch screen Teachpad.
- Teachpad mounted on manipulative stand.
- High speed movement.
- Consistency, Precision and Reliability.
- USB Port for Data backup.
- High-efficiency production with reduced manpower
- Optimized dispensing with negligible waste
- High-speed operation for dots or lines application.

Technical Data

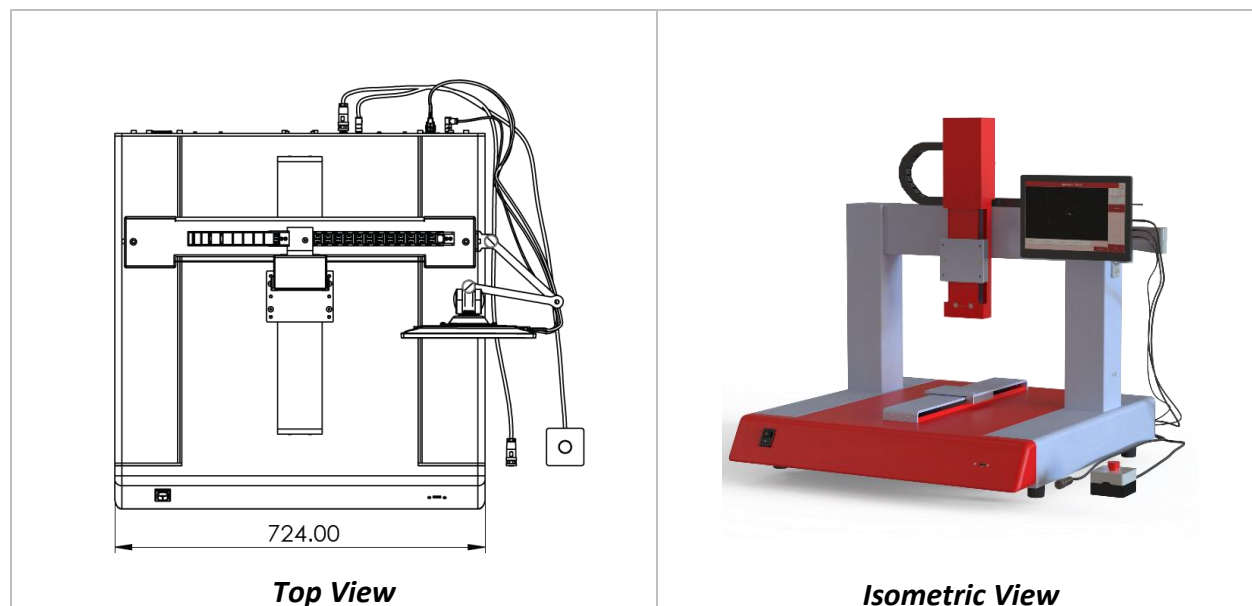
Model no	ADoST 3X-RDS1
Bed size	400mm x 400mm x 160mm
Operational range	372mm x 392mm x 112mm
Outer Dimension	724mm x 735mm x 800mm
Drive Mechanism	Belt Drive/lead screw drive
Maximum Object Height	160mm
Power requirement	230 VAC, 50Hz 10A
Axes of Movement	3-axis (X, Y, Z) motion for precise positioning
Repeatability in each axis	+/- 0.01mm
Resolution in each axis	0.001mm
Maximum Pay Load, Tool	4 kg
Maximum Pay Load, Application Object	10kg
Net Weight	30 kg
Maximum Speed (x, y, z)	800 mm/sec, 800 mm/sec, 100 mm/sec
Operational method	Teach Pad
Operating Temperature	0°C to 40°C.
Operating Humidity	10% to 80% RH (non-condensing).
Data Storage	Robo Memory storage/USB backup
Display	10.1-inch HD capacitive touch screen, LCD

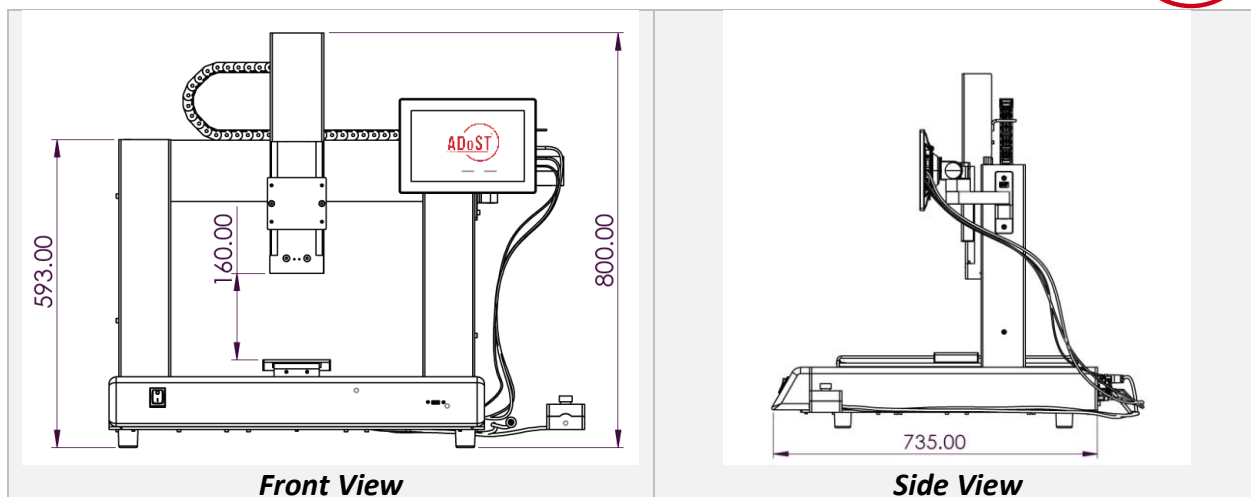
System Includes

- Robo
- Operation manual (only soft copy)

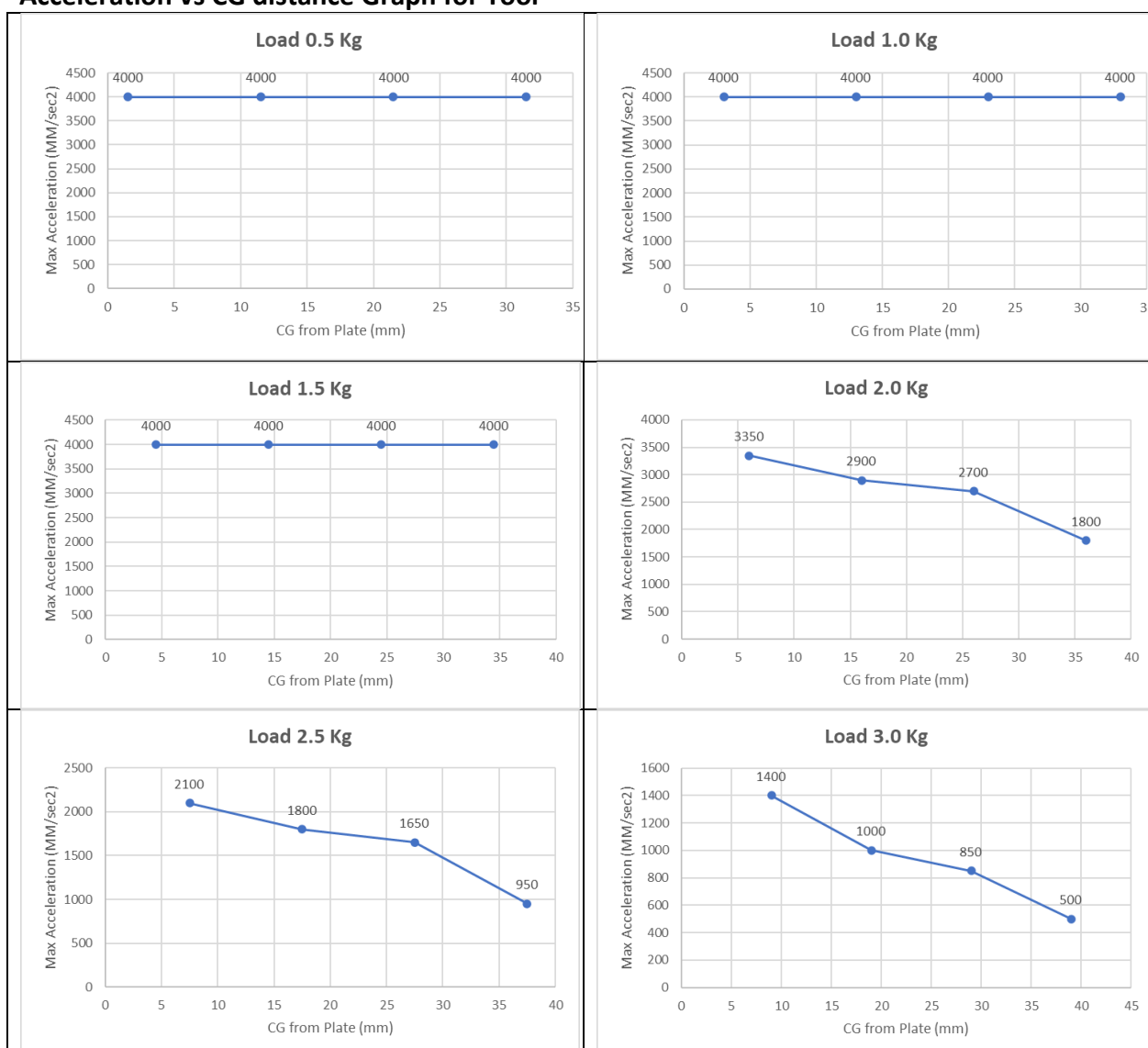
Detailed Dimensions

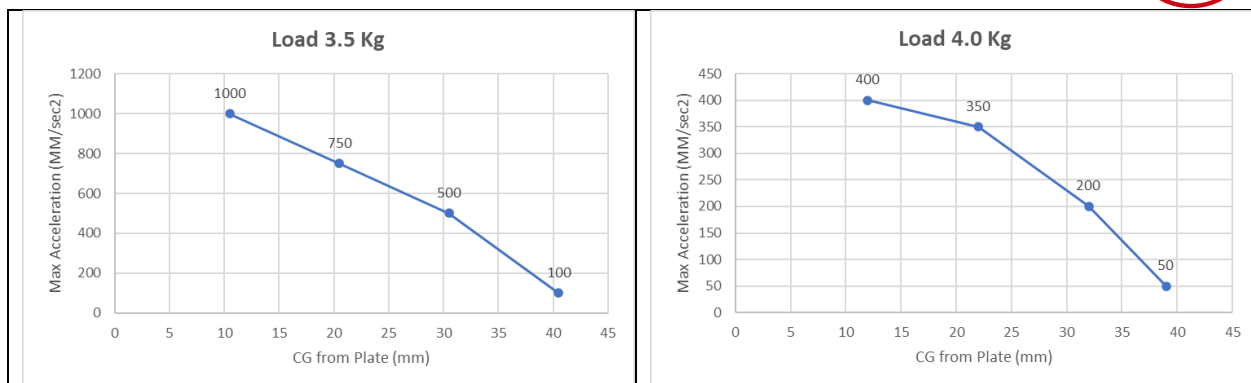
All dimensions are in mm.



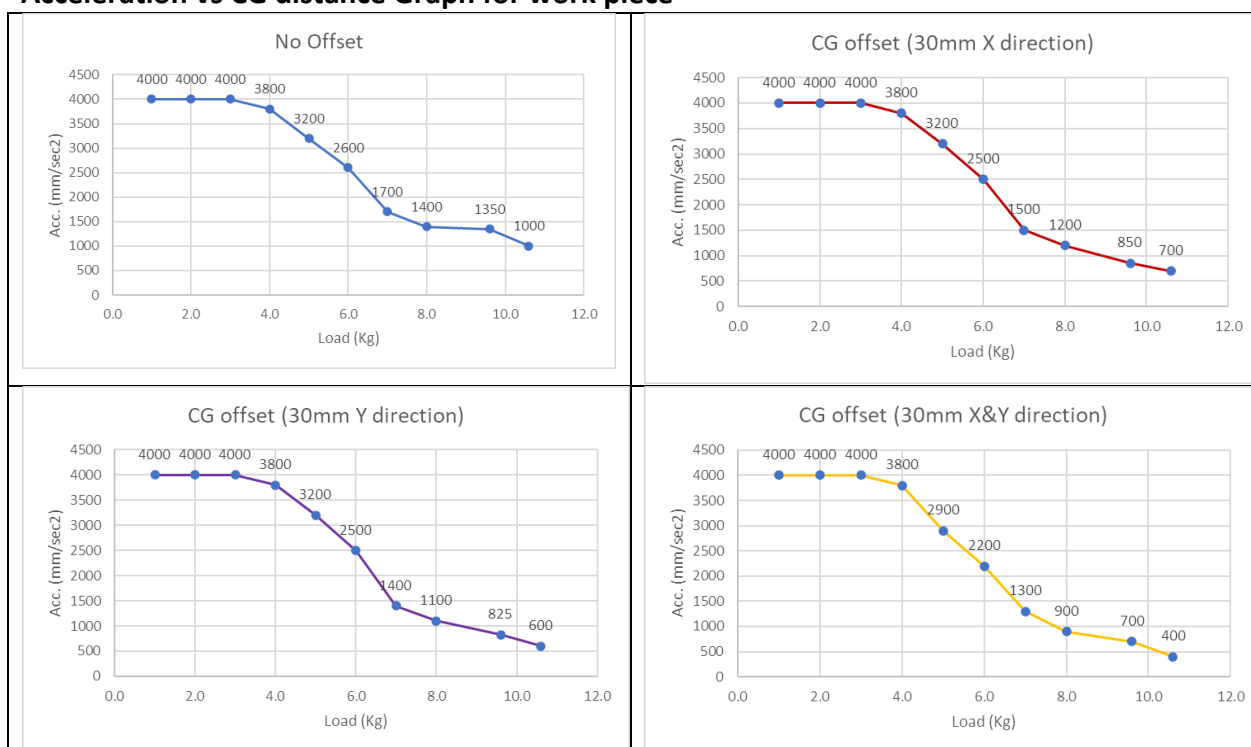


Acceleration vs CG distance Graph for Tool





Acceleration vs CG distance Graph for work piece



Warranty

ADoST 3X-RDS1 Benchtop Robo is guaranteed against any defects in workmanship and material for a period of one year from the date of supply.

Customization

All ADoST dispensing equipment are designed to be flexible and specific customization may be possible against customer requests at added cost. However, only ADoST's R&D team is authorized to issue written confirmation/acceptance of any customization.

Disclaimer

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