

Technical Data Sheet (V-1.0)

ADoST PPS-PRO

A semi-automatic pressure-time dispenser for low to medium viscous adhesives

26th May 2025

Product Description

ADoST PPS-PRO is an electro-pneumatically operated semi-automatic pressure-time system designed and developed to apply fixed volume of adhesive in a high-speed assembly line. ADoST PPS-PRO offers the industry leading repeatability and advanced features in dispensing single component adhesives. The system operates in both manual and timed modes, offering the flexibility to meet varying user needs. The volume of adhesive to be dispensed can be preset by adjusting the input pressure and dispense time. It includes a high performing non-contact low-level indicator for timely bottle changeovers, drop counter and operator lock-out features that enhances digital control and reduces manual intervention leading to little or no manual errors.

The system is designed to accommodate products packaged in 250ml, 500ml and 2L bottles. It can be supplied with an optional automatic part sensing and dispensing and its advanced features allow it to be integrated with desktop robots to fully automate gluing operations.



Applications

ADoST PPS-PRO is designed to be used to dispense low to medium viscous products such as:

- Cyanoacrylate adhesives
- Anaerobic adhesives
- Ultraviolet (UV) curing adhesives

Product Features

- Offers both timer and manual mode
- Provides repeatable dose within +/- 0.005gm (tested with low viscous materials).
- Minimum dispensing shot size 0.007gm.
- Programmable up to 50 in numbers.
- Low level indicator.
- Slide valve for quick charging and exhaust
- Sensor for part detection (optional)
- Settings are password protected
- 4.3" user-friendly digital display

Technical Data

Model Number	ADoST-PPS-PRO-CY-23-2P	ADoST-PPS-PRO-AN-46-6P	ADoST-PPS-PRO-UV-46-6P
Power Supply	Min:100 VAC, Nominal:230 VAC, Max 275VAC		
Size (Metric)	MCU (300X196X138mm), SCU (500X453X350mm)		
Weight	18 Kg		
Ambient temperature range	10°C to +45°C		
Response time	0.02s		
Usage	Indoor use		
Operating Air Pressure	2 Bar (Max.)	6 Bar (Max.)	
Minimum Dispense Size	0.007gm (low viscous)	0.018gm (medium viscous)	
Accuracy	+/-0.005gm		
Pinch Tube ID	2mm	4mm	
Recommended adhesive	Cyanoacrylate Adhesive	Anaerobic Adhesive	UV Adhesive

System Includes

- Pressure Pot with base plate
- Emergency Switch
- MCU
- Foot Switch
- 6mm pneumatic pipe of ½ meter
- 8, 10 and 12mm hose connectors
- SCU
- Required pneumatic and electrical connectors
- Pinch Valve
- Pinch Valve Stand
- Operation manual (only soft copy)
- Bottle Holder (250ml,500ml,2L)

Accessories (Separate Purchase)

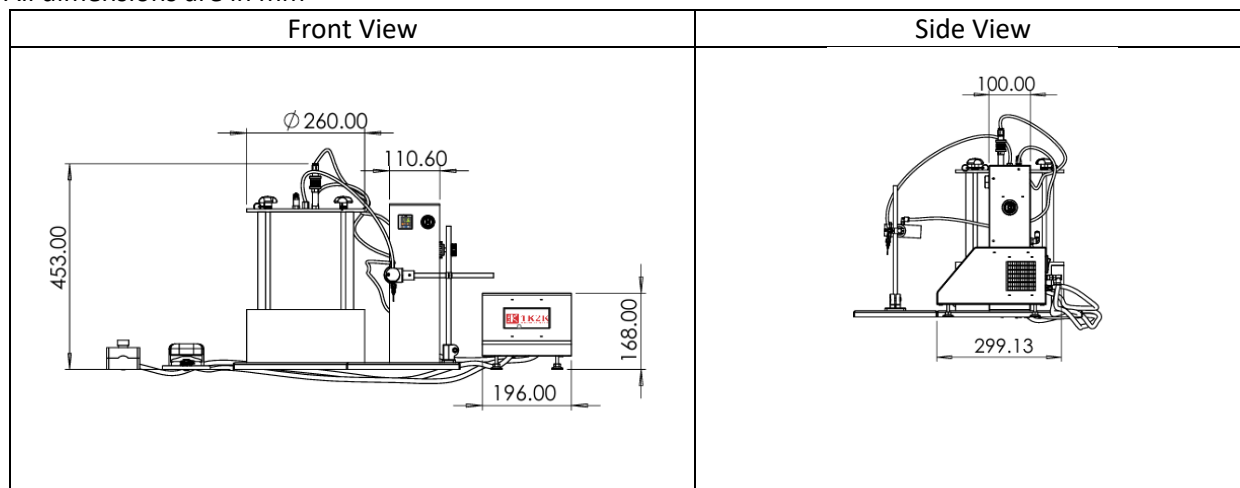
- Pen
- Part Sensor
- Pen Stand

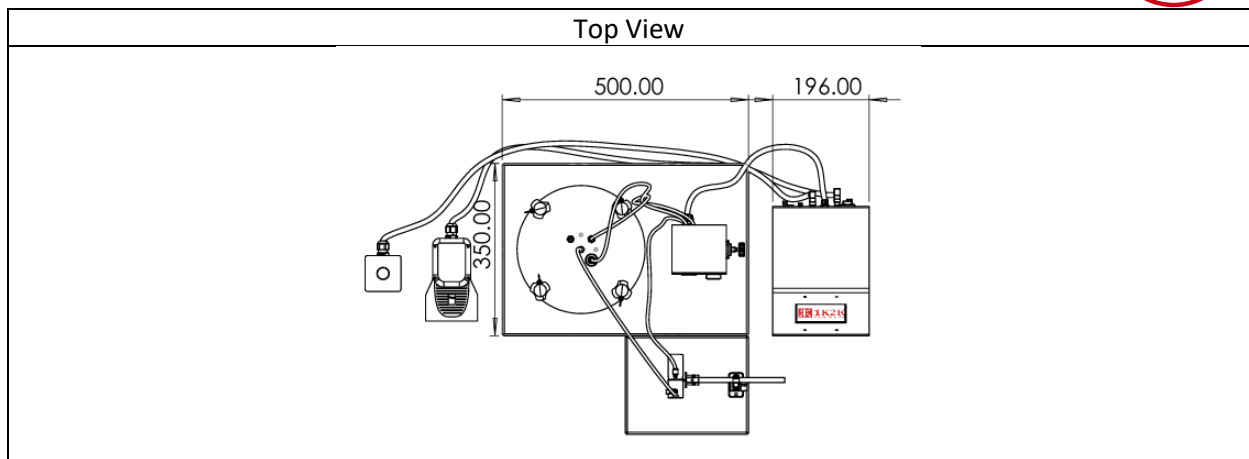
Consumables (Separate Purchase)

- Pinch Tube
- Nozzle
- Pinch Tube Luer barb connector

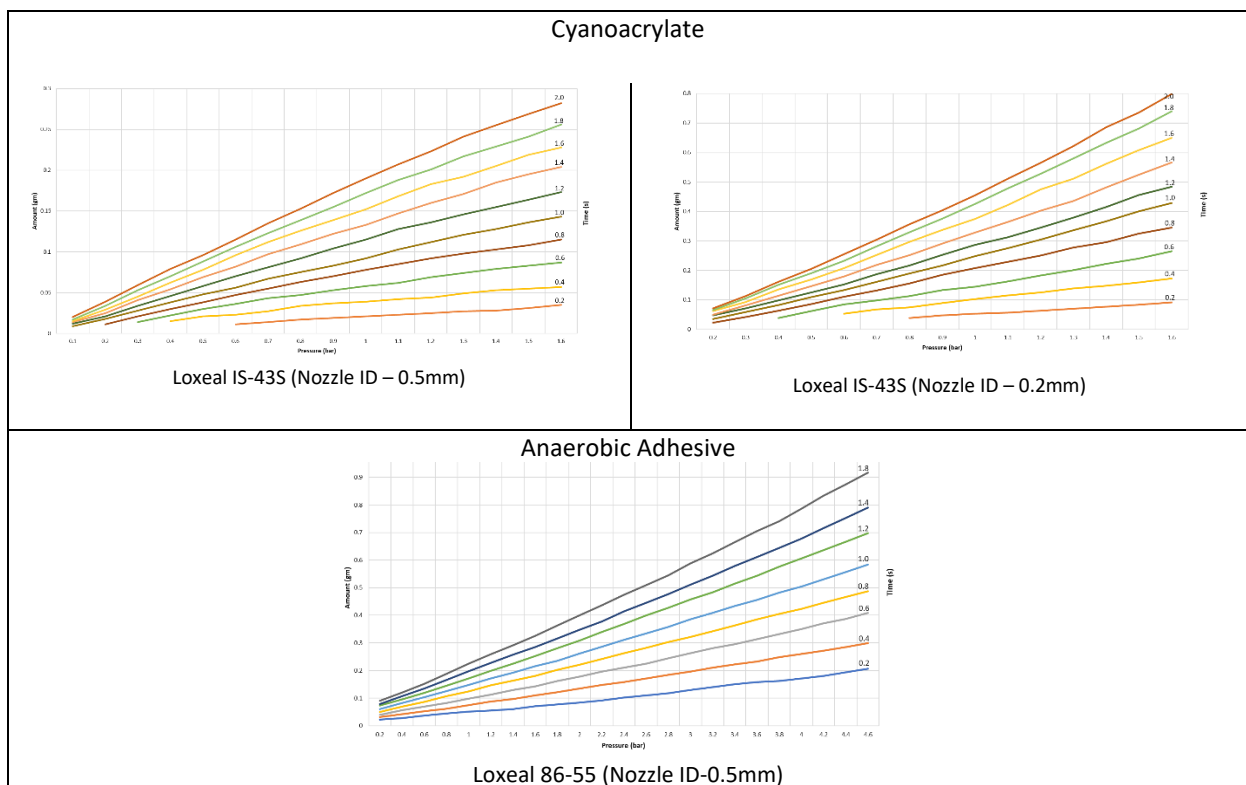
Detailed Dimensions

All dimensions are in mm

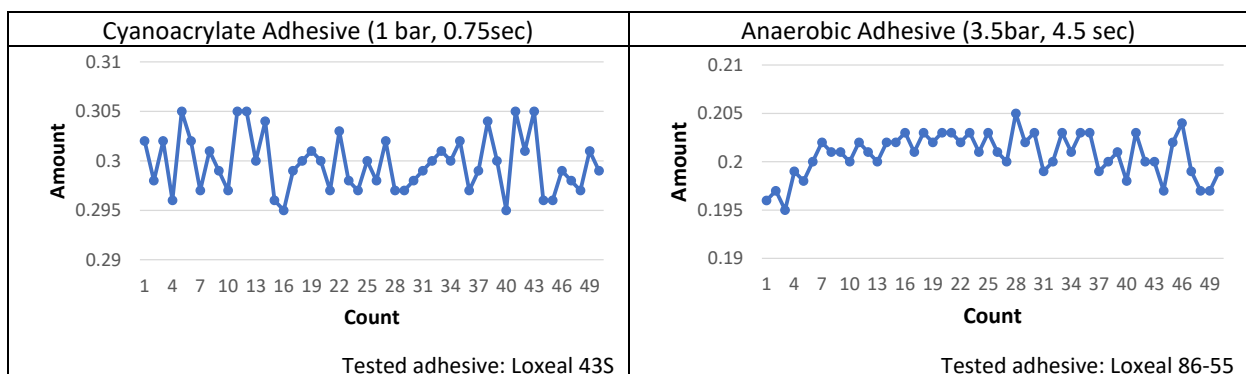




Pressure-Time volume graph



Repeatability Graph



Note: All the tests are performed under lab conditions



Warranty

ADoST PPS-PRO 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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