



Application Kit: **Dispensing**

Automates the precise application of adhesives, sealants, lubricants, and other fluids. Ideal for improving quality, reducing material waste, and achieving consistent application across parts and assemblies.

IDEAL USE CASES:

- Clinical sample handling
- Automated test tube transfer or sorting
- PCR plate loading/unloading
- Reagent dispensing setups
- Diagnostic device assembly
- LIMS-connected workflows

WHAT YOU NEED:

Cobot Arm: 6-axis collaborative robot with appropriate reach and payload (5–10kg)

Dispensing System: Pneumatic or electric dispenser (syringe, cartridge, or valve-based)

Fluid Reservoir: Pressure tank or cartridge holder with regulator and tubing

Path Programming Software: Dispense path editor (2D/3D curves, start/stop points, variable flow control)

Drip Prevention System: Retract valve or blow-off feature to stop stringing or dripping

Part Fixture or Workstation: Custom or adjustable jig to hold workpieces in position

Vision or Sensor Add-on: (Optional) Camera or laser sensor for part edge detection

Safety Equipment (Optional): Scanner or light curtain if deployed near operators

Training & Setup: 1 day on-site setup and calibration + 4 hours remote support

SPECIFICATIONS:

Dispense Materials: Glues, epoxies, silicones, lubricants, UV-cure resins

Line Width Tolerance: ± 0.1 mm (application dependent)

Cycle Time: 3–10 seconds per part or pattern

Reach: 900–1300 mm

Repeatability: ± 0.03 mm

Power Requirements: 110–240V AC (air supply if pneumatic system used)

PACKAGING OPTIONS:

Standard: Cobot, pneumatic syringe dispenser, manual fixture

Plus: Adds path programming software and fluid pressure tank

Premium: Includes advanced valve system, vision edge detection, and safety scanner

