

Desktop Robot Series

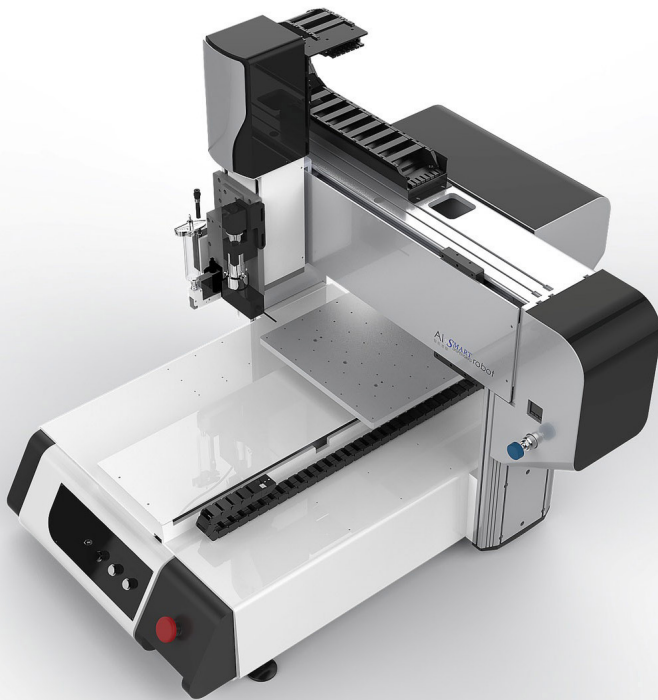
Advanced Dispensing Desktop Robot



The Desktop Robot Series is designed to deliver accuracy and reliability. Its desktop robots are robust, fast and accurate in performance.

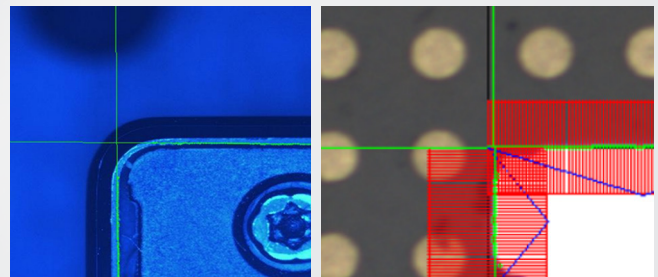
ACCURATE AND RELIABLE HARDWARE DESIGN

All desk top robots are designed for high accuracy and long term reliability through using high quality components and machined parts. Both the A and B series are applicable for used in development, prototyping as well as production.



SUPREME VISION ALIGNMENT TECHNOLOGY

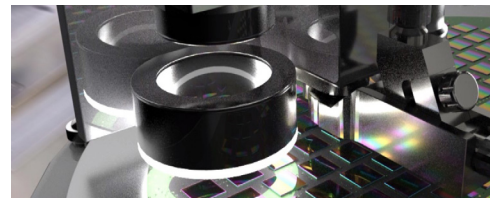
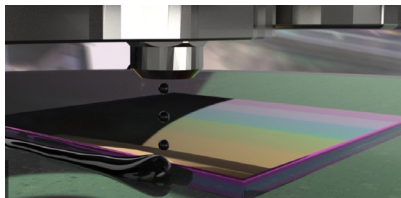
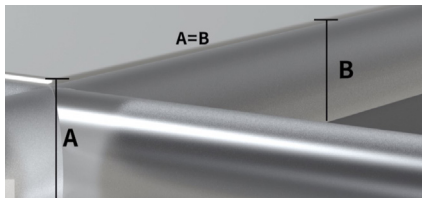
In addition to typical corner finder or template comparison, Stream Vision software filters can handle difficult image processing to ensure precise alignment.



ADVANCED VISION SOFTWARE

Integrating sophisticated motion control, vision alignment and AOI, K&S dispensing software **V2K** major features include :

- CAD file input and dispensing route auto editing and optimization
- Fast global alignment for panelized PCB
- Intuitive user interface for quick direct teaching
- Vision algorithms and image filters for critical vision alignment
- Synchronized dispensing and motion speed to ensure the consistent dispensing height at the start, the end and the crossing point.
- Automatic dispensing weight measurement and calibration
- Fiducial on fly
- Height detection on fly for 3D
- Remote teaching
- 5 axis motion control on Z axis
- Post dispensing AOI



VERSATILE DISPENSING APPLICATORS FOR ALL PRECISION APPLICATIONS

Different fluids and applications need different dispensing applicators to meet the challenge of watery, thick or streaming materials for wide range of dot sizes, line width and dispensing heights.

- Piezo jet valve for high speed jetting
- Progressive Cavity Pump (PCP) for precision high viscosity contact dispensing
- Deposition pump for < 100µm dispensing
- Solder paste jetting valve
- Thin film ultrasonic spray coater
- 10:1 high precision mixing and dispensing
- High precision air spray

OPTIONS

- Laser height detection for high reflection glass
- Universal nozzle cleaning device
- Micro scale for dispensing weight calibration
- low fluid level detection
- 1:1~10:1 high precision mixing and dispensing systems

Model 400 Series Robot Specifications :

- X-Y-Z Max Travel: 400mm x 400mm x 100mm
- X-Y Dispensing Area: 300mm x 300mm
- Dimensions(mm): 840(W) x 900(D) x 808(H)
- Robot Weight: ~150 kg
- XYZ Speed(mm/sec): 1000, 1000, 200mm/sec
- XY Acceleration(mm/sec²): 0.5G, 0.5G
- Repeatability(XYZ ±µm): ±5µm

Stream Vision Software :

- Infinite nested recognitions
- TemplateMatch-including(rotation)
- Corner Finder
- Dispenser Type
- Counter Mode
- Jet Mode
- Channel Filter