

**GKG**



**D-Vis & DL-Vis**  
MULTI-FUNCTION FLUID DISPENSING MACHINE



# SMART & ADVANCED DESIGN

- Adopt new and better motion controlling system with higher Cpk value of 1.33 (4 sigma)
- Compact design with footprint as small as 1 m<sup>2</sup> (D-Vis)
- Designed to have a moderate dispensing area for mobile phone industry
- Minimize the footprint while maximizing the utilization of the effective dispensing area
- Reduce the size of machine without compromising on the weight, thus increasing the machine stability and overall accuracy

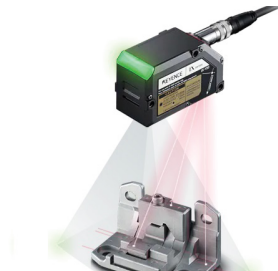


# MULTIPLE POWERFUL FUNCTIONS

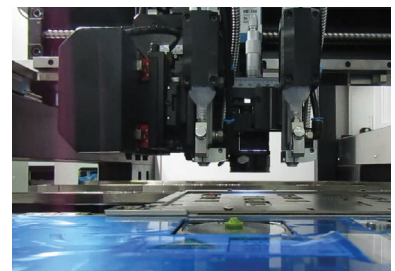
- Various powerful functions to enhance different applications



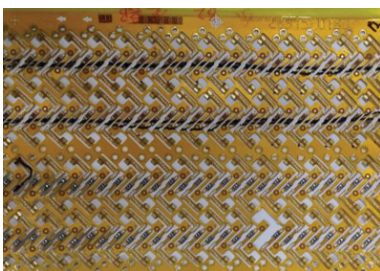
STANDARD X-Y Calibration



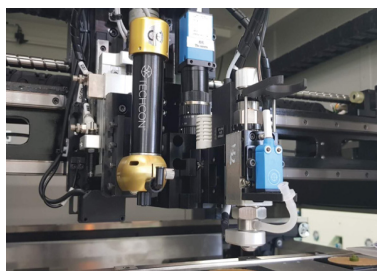
STANDARD Laser Height Sensor



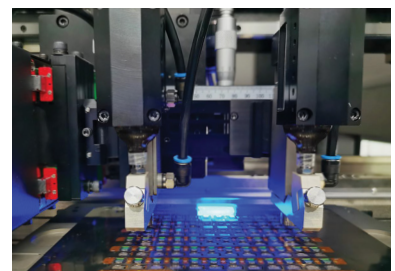
OPTIONAL Active Correction Technology



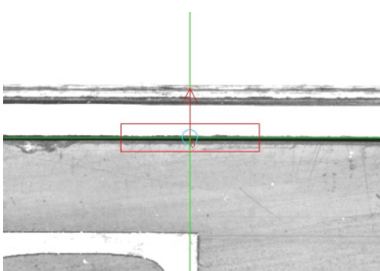
OPTIONAL On-the-Fly Fiducial Mark Capturing



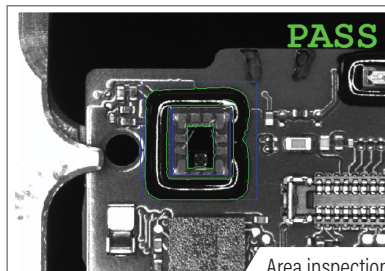
OPTIONAL Dual Valve Structure for Alternative Dispensing



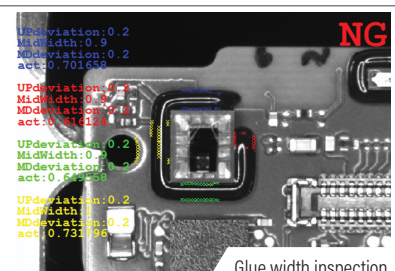
OPTIONAL Dual Valve Structure for Simultaneous Dispensing



OPTIONAL Edge Recognition



OPTIONAL 2D Inspection



OPTIONAL Glue width inspection

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UPdeviation:0.2	MidWidth:0.9
MDdeviation:0.2	act:0.701658
UPdeviation:0.2	MidWidth:0.9
MDdeviation:0.2	act:0.701658
UPdeviation:0.2	MidWidth:0.9
MDdeviation:0.2	act:0.701658
UPdeviation:0.2	MidWidth:0.9
MDdeviation:0.2	act:0.701658



# UPGRADED USER-FRIENDLY

- New software with modular design smoothens operation process
- Idiot-proof system with step-by-step guide for programming
- Industry 4.0 ready with traceability
- Convenient for future development and innovation



# IN-HOUSE VALVE

- Master the core technology to develop and manufacture valves in-house
- Reduce cost and shorten lead time
- Have strategic alliances with the renowned brand, P-MASTER
- Offer a wide range of valve for various applications, including other brands in the market



G3000K  
GKG  
Piezo Jet Valve



V-54HP  
GKG  
High Pressure Valve



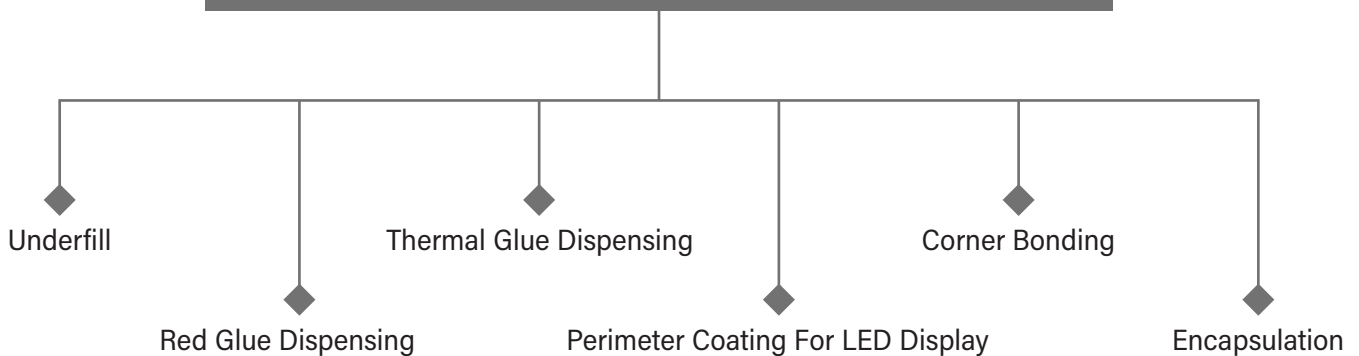
V-Jet 7500  
GKG  
Pneumatic Jet Valve



PV 3200H  
P-MASTER  
Piezoelectric Valve

**STRATEGIC ALLIANCE**

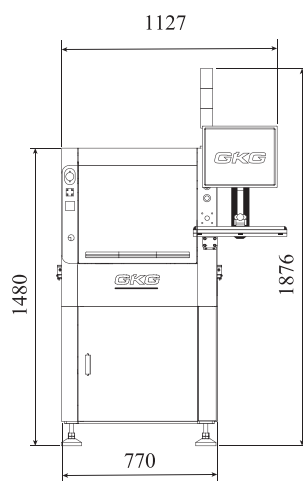
## WIDE RANGE OF VALVE SELECTION FOR DIVERSE APPLICATIONS



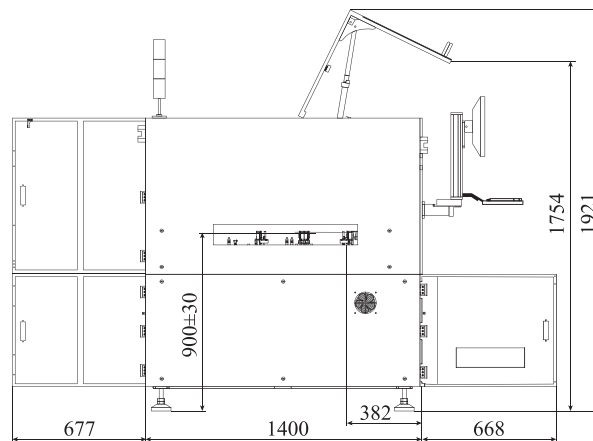
SPECIFICATIONS	Model	D-Vis		DL-Vis	
	Machine Dimension	L770 x W1,400 x H1,480 mm		L980 x W1,500 x H1,500 mm	
Single Lane Dispensing Range	Single valve dispensing: L350 x W550 mm	Dual-valve simultaneous dispensing: L255 x W550 mm		Single valve dispensing: L510 x W686 mm	Dual-valve simultaneous dispensing: L430 x W630 mm
	Rotate and tilt dispensing: L230 x W490 mm	Dual-valve alternative dispensing: L225 x W550 mm		Rotate and tilt dispensing: L405 x W570 mm	Dual-valve alternative dispensing: L400 x W650 mm
Dual Lane Dispensing Range	Single valve dispensing: L350 x W250 mm	Dual-valve simultaneous dispensing: L255 x W250 mm		Single valve dispensing: L510 x W318 mm	Dual-valve simultaneous dispensing: L430 x W290 mm
	Rotate and tilt dispensing: L230 x W220 mm	Dual-valve alternative dispensing: L225 x W250 mm		Rotate and tilt dispensing: L405 x W260 mm	Dual-valve alternative dispensing: L400 x W300 mm
PCB Size	Single Lane: Min L50 x W50 mm, Max L350 x W520 mm	Dual Lane: Min L50 x W50 mm, Max L350 x W 325 mm		Single Lane: Min L50 x W50 mm, Max L510 x W650 mm	Dual Lane: Min L50 x W50 mm, Max L510 x W310 mm
Machine Weight	Approx. 900kg			Approx. 950kg	
Positioning Accuracy	± 30 µm @ 4 sigma (CPK > 1.33)				
Repeat Position Accuracy	± 15 µm @ 4 sigma (CPK > 1.33)				
Motion Driver	Servo motor + Ball screw				
PCB Thickness	0.8 - 6 mm				
Product Weight	≤ 3 kg				
Board Loading Limit	Top: 50 mm; Bottom: 25 mm				
Conveyor Edge Distance	Adjustable (3 - 5 mm)				
Transportation Height	900 ± 30 mm				
Conveyor Direction	Left to right / Right to left				
Conveyor Stage	Belt Transport				
I/O Interface	SMEMA				
Cleaning System	Vacuum Cleaning Glue				
Maximum Speed	1000 mm/s				
FOV	13 x 10 mm				
Air Supply	4-6 Kg/cm <sup>2</sup>				
Power Supply	AC:220±10%, 50/60HZ, 2.5KW				

STANDARD FEATURES	Industrial PC control with Windows 10 OS
	Single-stage conveyor with one or two PCB stop position
	Material volume monitoring & low volume alarm
	Laser height sensor
	XYZ origin calibration function
	Valve temperature regulators
	Air stabilizer
	Auto nozzle vacuum cleaning function
	Small ultrasonic cleaning tank (External)
	Programming by online teaching / CAD file importation (Valve not included)
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OPTIONAL FEATURES	Dual lane conveyor
	Dual-valve structure for simultaneous dispensing
	Dual-valve structure for alternative dispensing
	Valve rotate and tilt function
	Precision material weight calibration system
	Auto nozzle wiping device
	Camera 2D code scanner (Code size: L5 x W5- L18 x W14 mm)
	Internal/ External 2D code scanner (Code size: L5 x W5 - L25 x W15 mm)
	Handheld barcode scanner
	MES (i4.0) software
	IC body recognition function
	Active Correction Technology (ACT)
Bottom heating module	



D-Vis Illustration Drawing



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WEBSITE



LINKTREE



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\*GKG reserves the right to make any changes concerning design or specification of the machine without any prior notice for continuous improvement. (D-Vis & DL-Vis Brochure Version 3.3 2025.04)