

# KY8030-2

### The Industry's Most Popular True 3D Solder Paste Inspection Solution

The KY8030-2 has maintained the industry's leading position as the best-selling True 3D Solder Paste Inspection System since entering the market. Combining Koh Young's patented 3D dual-inspection Moiré projection technology, it effectively eliminates critical shadow and specular reflection challenges other 3D inspection systems simply cannot address.



Best-in-class Measurement
Accuracy and Inspection Reliability



**Active Warp Compensation** 



Automated Solder Paste Dispensing: Auto-Rework



KSMART Solutions: True 3D Measurement-based Process Control System



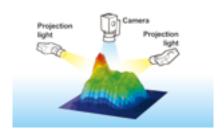
Zero-defect through AI-Powered Koh Young Process Optimizer(KPO)





# Best-in-class Measurement Accuracy and Inspection Reliability

Koh Young's inspection systems have become the industry standard.
 The KY8030-2 features a pioneering True 3D Moiré and dual-direction projection by eliminating shadow and specular reflection challenges without compromising accuracy.

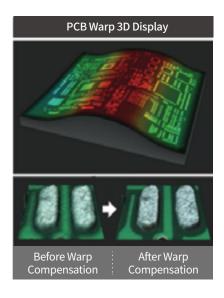




#### **Active Warp Compensation**

Z-tracking 3D compensation

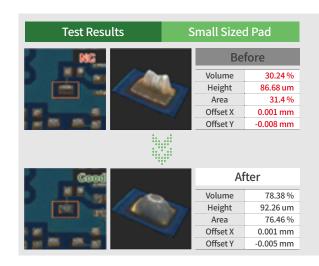
The unique Koh Young warp compensation technology actively calculates and detects any substrate warpage. Using its exclusive 3D imaging and algorithms, Koh Young considers multiple elements like slope, stretch, twist, bow, and shrinkage to guarantee an accurate measurement and to meet the ultimate inspection system criteria.





# **Automated Solder Paste Dispensing: Auto-Rework**

KY8030-2 dispenses solder paste automatically as an optional add-on solution. The high-precision and user-friendly dispensing system helps eliminate costly mistakes due in large part to insufficient solder in open joints, lean fillets, and weak joints. The automatic dispensing option reduces operational costs, improves line efficiency, and strengthens profitability by eliminating board scrap and rework. Once Koh Young's SPI is configured with the Auto-Rework option, it becomes more than an inspection system. It becomes a true process optimizer.





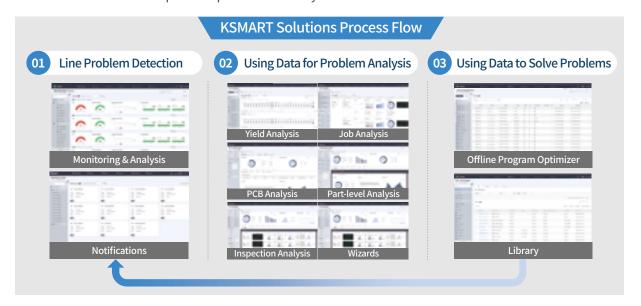


#### KSMART Solutions: True 3D Measurement-based Process Control System

- Koh Young pioneered True 3D measurement technology 20 years ago to create a zero-defect future. This gave rise to KSMART Solutions and its continuous efforts to leverage data and connectivity.
- KSMART Solutions uses Artificial Intelligence to help automate process control while focusing on data management, analysis, and optimization. It collects data from across the factory line for defect detection, real-time optimization, enhanced decisions, and traceability to improve metrics, increase quality, and lower costs by eliminating variance, false calls, and escapes.

#### "KSMART Solutions is the Gateway to a Smart Factory"

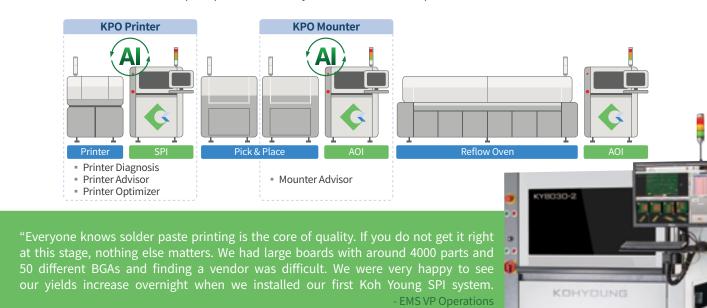
- Converts data into knowledge for effective and quality-driven actions
- Delivers an Al-powered process analysis and optimization tool
- Achieves an autonomous process optimization facility





# Zero-defect through AI-Powered Koh Young Process Optimizer (KPO)

• Koh Young is driven to help customers achieve a Zero-defect print process scenario. The AI-powered Koh Young Process Optimizer (KPO) solution automatically exercises complex algorithms to develop and implement print process improvements. By actively monitoring the print process, KPO sends operators real-time performance diagnostics and threshold alerts – it even implements process change automatically. KPO ensures real-time print process reliability without dedicated experts.



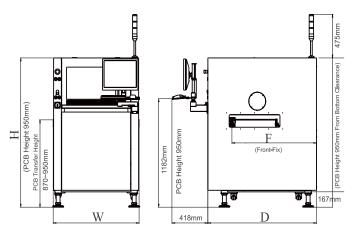
# **Specification**

	Re	quirements		Solutions					
	Solution	to Shadow Proble	n	3D Shadow Free Moiré Technology & Dual Projection					
PCB Warp Compensation					Active Warp Compensation (Z-Tracking)				
	User F	riendly Operation		Renewal GUI, Real Color 3D Image					
Whole-board Foreign Material Inspection					3D Foreign Material Inspection				
Inspection Items	Metrology Cap	ability	Volume, Area, Height, Offset, Bridging, Shape Deformity, Paste Offset, Coplanarity						
	Types of Defects		Insufficient, Excessive, Missing Paste, Bridging, Shape Deformity, Paste Offset, Coplanarity						
KY8030-2 Inspection Performance	Model	Camera & Resolution	FOV Size	Full 3	D Inspection Speed	Minimum Distance Between Pads	Inspection Height (Max & Min)		
	KY8030-2	4M 10um 4M 15um 4M 20um 4M 25um	20 x 20 30 x 30 40 x 40 50 x 50	23.7cn 40.0 cr	m²/sec (0.36 FOV/Sec) m²/sec (0.38 FOV/Sec) m²/sec (0.40 FOV/Sec) m²/sec (0.42 FOV/Sec)	100um 150um 200um 200um	2000um / 450 um 78.7mils / 17.7mils		
	Illumination		IR-RGB Led Dome Styled Illumination (Optional)						
	Max Inspection Size		< FOV						
	Multi-Colored PCB Inspection		Possible						
PCB Handling	Conveyer Width Adjustment		Automatic						
	Conveyer Fix Type		Front / Rear Fixed (Factory Setting)						
Software	Supported Input Format		GERBER Data (274X, 274D), ODB++ (Optional)						
	Programing Software		ePM-SPI						
	Statistical Process Control Tool		SPC Plus  (Histogram, X-bar & R-Chart, X-bar & S-Chart, Cp & Cpk, % Gage R&R / Real Time SPC & Multiple Display / SPC Alarm / Automatic Report from Remote Computer)						
	User-Friendly Operator		Library Manager & KYCAL (Auto Camera Calibration, Auto Illumination Calibration, Auto Height Calibration)						
	Operating System		WINDOWS 10 IoT ENTERPRISE LTSC 2019						
Add-On Solutions	- 1D & 2D Handy Barcode Reader - 1D & 2D Inline Barcode Reader - Auto-Verification - Auto-Rework* - UPS - Standard Calibration Target - Long Board Option		- ODB++ - SPC Plus for Re - Offline SPC Plu - Review Statior		(Monitoring and Analysis, rmote Computer s Station - KPO Printer (Printer Diagnosis, Printer rface		sis, Remote Access, Offline nk Data Analysis, Notification nter Advisor, Printer Optimize		

The above specifications are subject to change without notice. \* Machine dimensions, PCB Size, and clearance will change if the Auto-Rework option is selected.

	ı	И	ı	L	XL					
	Single Lane	Dual Lane	Single Lane	Dual Lane	Single Lane	Dual Lane				
Max. PCB Size (X x Y)	330 x 330mm (12.9 x 12.9in)	Single Mode °		Single Mode °	850 x 690mm (33.4 x 27.1in)	Single Mode				
		330 x 580mm (12.9 x 22.8in)	510 x 510mm	510 x 580mm (20.0 x 22.8in)		850 x 580mm (33.4 x 22.8in)				
		Dual Mode	(20.0 x 20.0 in)	Dual Mode		Dual Mode				
		330 x 325.5mm (12.9 x 12.8in)		510 x 320mm (20.0 x 12.5 in)		850 x 320mm (33.4 x 12.5in)				
Min. PCB Size		50 x 50mm	70 x 70mm (2.7x2.7in)							
PCB Thickness	0.4 ~ 4mm (	0.01 ~ 0.15in)	0.4 ~ 5mm (0	0.01 ~ 0.19in)	0.6 ~ 8mm (0.02 ~ 0.31in)					
Max. PCB Weight	Standard : 2k	g (4.4lbs), Heavy	weight option	: 5kg (11.0lbs)	10kg (22.0lbs)					
Machine Weight	550kg (1212.5lbs)	600kg (1322.7lbs)	600kg (1322.7lbs)	700kg (1543.2lbs)	850kg (1873.9lbs)	900kg (1984.1lbs)				
Bottom Clearance	50mm (1.9in)									
Supplies	220 Vac ± 10%, 50/60Hz , 1 Phase, 5Kgf/cm² (0.45MPa)									
W	820mm	(32.2in)	1000 mn	n (39.3in)	1350mm (53.1in)					
D	1265mm 1445mm (49.8in) (56.8in)		1265mm 1445mm (49.8in) (56.8in)		1445mm (56.8in)					
Н	1627mm (64.0in)									

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One of Please contact us for more information about PCB Sizes.





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