nozzle cleaning robot NCR-P1

There is no need to manually remove the suction nozzle from the suction nozzle station and clean it. After cleaning, it can be placed in the suction nozzle station.

There is no need to manually visually inspect the condition of the suction nozzle or start production to discover poor suction nozzle.

Defective suction nozzles are classified according to their causes, and there is a documented record of nozzle scrapping.

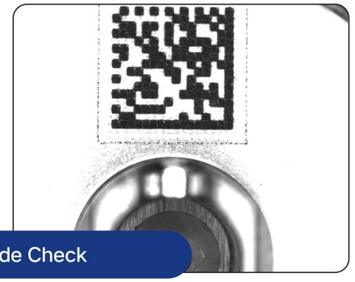
Automatically generate cleaning operation reports to audit whether the required cleaning cycle is implemented through MES interconnection management of nozzle inventory, and to query and trace the status of each nozzle.

Shenzhen BaiChuan Electronics Co., Ltd.
Sally Chen&WhatsApp :+86-13302916851
WeChat:113511152
sallychen@szbcelectronics.com www.szbcelectronics.com
Address： Xianglong Building, Heping Road, Longhua District, Shenzhen,China 518109

Substitute Manual Operation

No need to remove the nozzles from nozzle station,directly put the station together with nozzles into machine,automatic complete the cleaning and inspection operations.

QR code Check

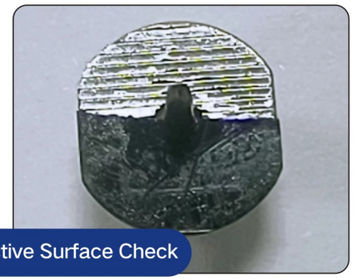


Identify the nozzles by reading the QR code.

Flow Check

Through the nozzle flow check unit, check and judge the nozzle status, save the result and store the defective nozzles separately.

Reflective Surface Check

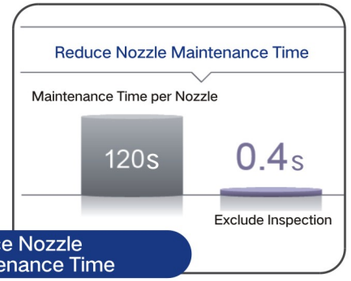


Determine the reflective surfacesave the data and puhe defective nozzles separately

Imaging Examination

Read the image of the nozzle tip,determine whether the nozzle is damaged,save the data and place the defective nozzle separately.

Reduce Nozzle Maintenance Time



The average maintenance time has reduced from 120s to 0.4s per nozzle(excluding inspection),which can save expensive labor cost and improve the efficiency of maintenance.

Perfect Storage Capability

Store up to 846 nozzles , can be used as a nozzle warehouse.variety working mode are available.

TECHNICAL SPECIFICATIONS TECHNICAL DATA

ITEM	DESCRIPTION	SPECIFICATION	
Suitable Mounter	Panasonic nozzles	NPM	
Size of machine	Width*length*height	500mm*1000mm*1420mm	
Weight	Machine net weight	350KG	
Nozzle Station	8 head,12 head and 16 head	Directly put these nozzle stations into NCR-P1 nozzle cleaner	
Nozzle Application	2D inspection&cleaning for Special nozzle	8 head,12 head and 16 head	
Nozzle Diameter	2D inspection&cleaning for large nozzle	Standard nozzle from 276s to 240cs	
Handling Tray	Cleaning Tray(CT) Storage Tray(ST)	8 head	Cleaning Tray:18/Storage Tray:12
		12 head and 16 head	Cleaning Tray:49/Storage Tray:47
		8 head, 12 head and 16 heaf	Maximum 49 nozzles per cleaning tray, maximum storage capability is 846 nozzles.
Qty of Nozzle Station	Maximum Nozzle Stations	3 Nozzle Stations(16 nozzle holes for 8 head,32 nozzle holes for 12 head, and 64 nozzle holes for 16 head.)	
Pick Unit	Structure	X、Y、Z, Q-axis and Nozzle Inspection	
	Recognize	Fixed point camera	
Cleaning	Structure	Y-axis	
	Cleaning Method	High Pressure Spray	
Cleanout Fluid	Kind	Industrial Distilled Water	
	Container Capability	6L	
Image Handling	Recognize	OFC Light Source Camera	
Judgment Mode	QR Code	Image checking and handling by fixed point camera	
	Nozzle Plugging	Measure the negative flow of nozzle by flowmeter	
	Notch and Dirt of Nozzle	Image Processing for Nozzle Tip	
Pneumatic	Pressure	0.35-0.5Mpa	
	Consumption	46L/min	
Electric Power	Supply Voltage	Single phase 220 voltage, 50Hz	
Cycle Time	Initiative Inspection	Nozzle check(2D)	59 seconds
	Transplanting to Cleaning Tray	Total 49 nozzles	107 seconds
	Nozzle Cleaning	Total 49 nozzles	96 seconds
	Checking after cleaning&Tansplanting	Total 49 nozzles	654 seconds

ACCESSORIES

01

12/16 Head Nozzle Storage Tray

02

8 Head Nozzle Storage Tray

03

12/16 Head Cleaning Tray

04

8 Head Cleaning Tray

05

8/12/16 Head Mixed cleaning tray

06

12/16 Head Nozzle Station

07

8 Head Nozzle Station