

## nozzle cleaning robot NCR-F1



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.

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## TECHNICALSHEET OF NCR-F1 NOZZLE CLEANER

### 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.



### Barcode 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.



### Sliding Check

Determine whether the nozzle slid rod is good by sliding check unit. save the data and put the defective nozzles 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.



### Imaging Examination

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



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### Perfect Storage Capability

Store up to 1278 nozzles, can be used as a nozzle warehouse. variety working mode are available.

ITEM	DESCRIPTION	SPECIFICATION	
Suitable Mounter	FUJI NXT&AIM nozzles	Fuji NXT&AIMEX	
Size of machine	Width*length*height	500mm*1000mm*1420mm	
Weight	Machine net weight	350KG	
Nozzle Station	H24&H08/H12 Nozzle station	Directly put these nozzle stations into NCR-F1 nozzle cleaner	
Nozzle Application	2D inspection&cleaning for Special nozzle	Standard Nozzles for H24 &H08/H12	
Nozzle Diameter	2D inspection&cleaning for large nozzle	Range of Nozzle Diameter : $\Phi$ 0.2~5.0	
Handling Tray	Cleaning Tray(CT)	H08/H12	CT: 45pcs/Tray; ST: 54pcs/Tray
	Storage Tray(ST)	H24	CT: 63pcs/Tray; ST: 71pcs/Tray
Qty of Nozzle Station	Maximum Nozzle Stations	3 Nozzle Stations ( Do not mix and match different types of nozzle stations )	
Nozzle Storage Box	Automatic setting	Maximum 18 Storage Tray for H08/H12 and H24	
Pick Unit	Structure	X, Y, Z, Q-axis and Nozzle Inspection	
	Recognize	Fixed Opto 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	
Sliding Resistance Check	Recognize	Force Transductor	
Judgment Mode	QR Code	Fixed Camera	
	Nozzle Plugging	2 Flowmeters for different diameter nozzles, Measure negative flow.	
	Notch and Dirt of Nozzle	Image Processing for Nozzle Tip	
	Sliding Resistance	Load Measurement by Force Transductor	
Pneumatic	Pressure	0.35-0.5Mpa	
	Consumption	46L/min	
Electric Power	Supply Voltage	Single Phase/220v	
Cycle Time	Initiative Inspection	Nozzle check(2D)	76S
	Transplanting to Cleaning Tray	Total 63 nozzles	137S
	Nozzle Cleaning	Total 63 nozzles	124S
	Checking after cleaning&Transplanting	Total 63 nozzles	1098S

## PRODUCT ATTACHMENTS

01



24 Head Nozzle Storage Tray

02



12/08 Head Nozzle Storage Tray

03



24 Head Cleaning Tray

04



12/08 Head Cleaning Tray

05



12/08 Head Nozzle Station

06



24 Head Nozzle Station