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Easy · Efficient · Universal

GLUE DISPENSER
智能点胶机
GLUE COATER
智能涂覆机

广州慧炬智能科技有限公司
Guangzhou Vissee Technology Co.,Ltd.

CONTACT US

广州慧炬智能科技有限公司

GUANGZHOU VISEE TECHNOLOGY CO., LTD.

地址(Addr.): 广州市黄埔区开源大道188号莱迪科技园4栋1单元901

901, building 4-1, No. 188, Kaiyuan road, Huangpu district, Guangzhou, China

电话(Tel.): +86-155 0988 9965

邮箱(Mail): vissee.cn@aliyun.com

网站(Website): www.vissee-tech.com

苏州子公司

Suzhou subsidiary

地址(Addr.): 苏州市吴江经济开发区长安路520号6号楼

Building 6, No. 520, Changan road, WuJiang

Tel.: +86-186 6228 0767

上海办公室

Shanghai Office

地址(Addr.): 上海市松江区新桥镇新届路1号10栋B207

B207, Building 10, No. 1, Xinjie Road, Xinqiao, Songjiang District, ShangHai

Tel.: +86-135 0181 1400

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VISION 5-Axis Online Glue Dispenser

Online 5-axis intelligent dispenser based on vision & robot online tracking technology. With accurate real-time tracking, it can track objects for dispensing without stopping the line, making its installation simple and stable; The independently developed dispensing system based on image programming subverts the programming mode of the traditional teaching dispenser and can achieve what you see is what you get. It can be applied to the scene of belt production line to realize the production of small batches and multiple varieties, and truly let customers experience the charm of intelligent equipment.

- 1

Simple Programming
visual programming, WYSIWYG, with a variety of process instructions and without tedious robot teaching operations.
- 2

Strong Universatlity
5-axis motion system, enable dispensing glue dynamically with free valve angle and direction, applicable to most products and scenarios, with strong universality.
- 3

Quick Installation
no need to cut off the original product line, nondestructive, minimum import cost.
- 4

High Speed & Efficiency
online visual tracking glue dispensing ensures high efficiency.
- 5

High Fusion
self developed robot controller and visual dispensing system, integrate robot and vision into one system. Accuracy and stability.

5-Axis gantry system for rail conveyer, free valve angle, free valve direction, independent developed motion control algorithm, smooth and efficient.



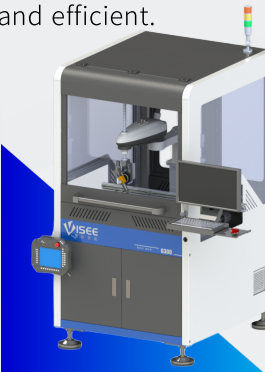
G200-F5
Online 5-Axis Gantry System for Rail

5-Axis cantilever system for belt conveyer, easy and nondestructive installing besides the conveyer, make vision and robot tracking dispensing possible.



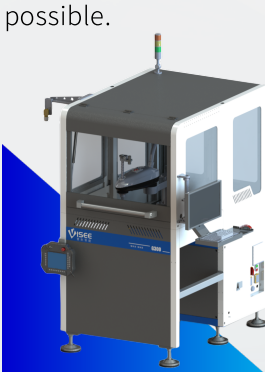
G200-T5
Online 5-Axis Cantilever System for Belt

Real 5-Axis SCARA robot system for rail conveyer, free valve angle, free valve direction, independent developed motion control algorithm, smooth and efficient.



G300-F5
Online 5-Axis Robot System for Rail

5-Axis SCARA robot system for belt conveyer, easy and nondestructive installing besides the conveyer, make vision and robot tracking dispensing possible.



G300-T5
Online 5-Axis Robot System for Belt

Glue Dispenser Specification

Main	Param	G200-F5		G300-F5	G200-T5	G300-T5
Type	Motion	Cantilever 5-Axis	Scara Robot 5-Axis		Cantilever 5-Axis	Scara Robot 5-Axis
	Installation	Rail Conveyer linkage			Beside Belt Conveyer(Nondestructive)	
PCBA Spec.	Size	Valve 0°: 500*450mm	Valve 0°: 500*400mm	Valve 0°: 600*450mm	Valve 0°: 500*400mm	
		Valve 15°: 460*450mm	Valve 15°: 450*380mm	Valve 15°: 500*450mm	Valve 15°: 450*380mm	
		Valve 30°: 390*430mm	Valve 30°: 380*350mm	Valve 30°: 450*430mm	Valve 30°: 380*350mm	
		Valve 60°: 270*370mm	Valve 60°: 270*300mm	Valve 60°: 340*370mm	Valve 60°: 270*300mm	
	Thickness	≤7mm				
	Part Height	≤100mm				
Vision Spec.	Camera	Tracking: 500W Pixels Industrial Camera, Fixed: 2000W Pixels Industrial Camera				
	Lens	16mm focal length(default), 12mm optional				
Dispensing System	Programming	Support vision programming and teaching programming				
	Working Mode	Fixed Position Dispensing			Online tracking(default), Fixed Position	
	Path	Point, Line, Polyline, Arc, space Line, space Z-line, Space spiral				
	Path Lib.	Supported				
	Glue Type	RTV Silicone adhesives, and other Semi fluid adhesives				
	Valve	Pneumatic Valve, Optional: Jet valve, striker valve, piezoelectric valve, screw valve, etc				
	Tray dispensing	Optinal(additional in-hand camera needed)				
Efficiency &Accuracy	Accuracy	Fixed Position: ≤0.1mm			Tracking Dispensing: ≤0.5mm	
	Speed	0.7-1.5s/point(Depending on glue and machine spec.)				
Software system	OS	Ubuntu 18.04 LTS 64bit				
	PC	CPU: Intel i5 Desktop CPU , 4G DDR, 128G SSD, NetworkS: GigE RJ45 * 3, Wifi				
Others	Size & Weight	L1080*W1300*H1900, 550kg	L995*W1400*H1850, 550kg	L995*W1400*H1850 , 450kg	L995*W1400*H1850 , 450kg	
	Conveyer Height	900±50mm	900±50mm	750/900±50mm	750/900±50mm	
	Power	10A, AC220V, 50Hz				
	Air	0.4-1Mpa				

*pumps are optional according to adhesive spec.

Comparison	Traditional Dispenser	VISEE Smart Dispenser
Prog. Method	manually teach points one by one, complicated and very slow	visial programming on image, easy and fast
Prog. Time	5~10 minutes/point	1 minute/point
Universatlity	4-aixs/fixed dispensing angle, poor versatility	5-axis dynamic angle while tracking, strong versatility
Efficiency	offline or fixed dispensing, low efficiency	online tracking, non-stop, high efficiency
Installation	product line adjusting needed, difficult to install	side mounted, non-destructive, and easy installing

VISION 4/5-Axis Online Glue Coater

Online 5-axis intelligent coating machine is based on vision & robot online tracking technology. With full-scale object matching algorithm, no need to move to locate marks, gets higher efficiency. Real-time object tracking, dynamic angle of spray valve, makes it supports dispensing on moving belt conveyor, to meet the requirements of product tilt and multi-angle accurate coating.

- 1

Simple Programming
visual programing, with coating path auto generating and without tedious robot teaching operations, more intelligent.

2

Strong Universatlity
5-axis robot system, with spray valve dynamical adjusting, applicable to most products and scenarios, with strong universality.

3

Quick Install
no need to cut off the original product line, nondestructive, minimum import cost.

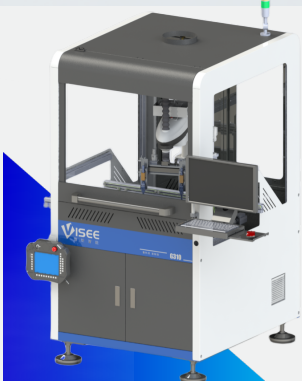
4

High Speed & Efficiency
5-axis robot system, with coating valve dynamical adjusting, applicable to most products and scenarios, with strong universality.

5

High Fusion
self developed robot controller and visual coating system, integrate robot and vision into one system. Accuracy and stability.
- 
- Vision Programming
Gantry System for big size PCB
For rail conveyers
3/4/5 axes optional
- Vision Programming
Scara robot System
For rail conveyers
4/5 axes optional
- Support tracking coating
Vision Programming
Scara Robot System
For belt conveyers
4/5 axes optional
- *G210&G310-F series support 1 or 2 spray valves, or 2 spray valves with distance adjusting.
*G310-T just supports 1 spray valve.
- ## G210 Series

Online Gantry System for Rail
- 
- ## G310-F Series

Online Robot System for Rail
- 
- ## G310-T Series

Online Robot System for Belt
- 
- # Glue Coater Specification
- | Main | Param | G210-F | G310-F | G310-T |
|----------------------|-----------------|--|-----------------------------|--------------------------------------|
| Type | Motion | Cantilever 3/4/5-Axis | Scara Robot 4/5-Axis | Scara Robot 4/5-Axis |
| | Installation | Rail Conveyer linkage | Rail Conveyer linkage | Rail/Belt Conveyers |
| PCBA Spec. | Size | Default: 50*50mm-450*450mm, customization needed for bigger size PCBAs. | | |
| | Thickness | ≤7mm | | |
| | Part Height | ≤100mm | | |
| Vision Spec. | Camera | 2000W Pixels Industrial Camera | | 500W Pixels Industrial Camera |
| | Lens | 16mm Focal Length (Default) , 12mm optional | | |
| Dispensing System | Programming | Support vision programming and teaching programming | | |
| | Working Mode | Fixed Position | | Tracking/Fixed Position |
| | Path | Point, Line, Polyline, Arc | | |
| | Path Lib. | Supported | | |
| | Glue Type | UV Adhesive, Waterproof adhesive, etc. | | |
| | Valve Type | Atomized Wide Spray Valve, Atomized Needle Valve, Atomized Conical Spray Valve, etc. | | |
| | Tray dispensing | Optional(additional in-hand camera needed) | | |
| Efficiency &Accuracy | Accuracy | Repetitive positioning accuracy ± 0.02mm | | |
| | Speed | ≤1000mm/s | | |
| Software System | OS | Ubuntu 18.04 LTS 64bit | | |
| | PC | CPU: Intel i5 Desktop CPU, 4G DDR, 128G SSD, Networks: GigE RJ45*3, Wifi | | |
| Others | Size & Weight | (L*W*H)1080*1284*1900, 550kg | (L*W*H)994*1400*1850, 450kg | L995*W1400*H1850 , 450kg |
| | Conveyer Height | 900±50mm | 900±50mm | Rail: 900±50mm
Belt: 750/900±50mm |
| | Power | 10A, AC220V, 50Hz | | |
| | Air | 0.4-0.7Mpa | | |
- *G310-T can be installed beside the belt conveyor without modifications.
- | Comparison | Traditional Coater | VISEE Smart Coater |
|---------------|--|--|
| Prog. Method | manually teach points one by one, complicated and very slow | visial programming on image, easy and fast |
| Prog. Time | 2~3 hours/board | 5~15 minutes/board |
| Universatlity | rail line, requiring board edge or fixture, vertically coating, poor versatility | support belt line, no board edge or fixture need, 5-axis multi angle coating, high versatility |
| Efficiency | offline or fixed coating, low efficiency | support online tracking, non-stop, high efficiency |
| Installation | product line adjusting needed, difficult to install | side mounted, non-destructive, low installing difficulty |