

SCARA Robot Applications



Summary (概述)

3C products are computer, communication and consumer electronics. Communication mainly refers to mobile phones, while consumer electronics include digital cameras, televisions, electronic dictionaries, video players, etc. The 3C industry chain system is very large. Take mobile phones as an example, there are nearly 20 kinds of components.

3C manufacturing industry is huge, with a large number of labor, repeated work and automation application, which can save labor and shorten the production cycle. In recent years, the growth rate of automation related functional components of electronic manufacturing equipment is on the rise, and the demand for automation upgrading is obvious.

laptop assembly

laptop LOGO double vision fit

PCB Coding loading and unloading

electronic material sorting

phone box accessories adhesive

- Laptop Assembly**

Project name:	Laptop touchpad PCB and vision assembly		
Robot Model:	AR5215	The number of robots:	8
Peripheral equipment:	AVS1100 vision system	Number of external devices:	8
Efficiency Beat:	Line efficiency 12S / table	Precision machine equipment:	± 0.025mm
Saving labor:	10 people	Customer Type:	Integrators face of terminal business
Project Description:	<p>1. PCB mounting station: J2 axis of the camera to take pictures, the previous settings in accordance with the template matching to be identified within the PCB mounting feed tray, after reclaiming, the second tooling is positioned to be in place to run straight module, visual assembly.</p> <p>2. The touch panel mounting stations: a conveyor belt to transport the touchpad reclaimer bit, the received signal crawling robot, the robot moves to the machine frame after photographing reclaimer identification hole, the mounting hole detection assembly .</p>		
Equipment advantages:	<p>1. Beat line efficiency 25%.</p> <p>2. Saving staff station 10, 2 years recovery costs, equipment life more than 5 years.</p> <p>3. High precision machine equipment, high device reliability, improve product yield of 2.5%.</p>		
Equipment picture (attached live video)			

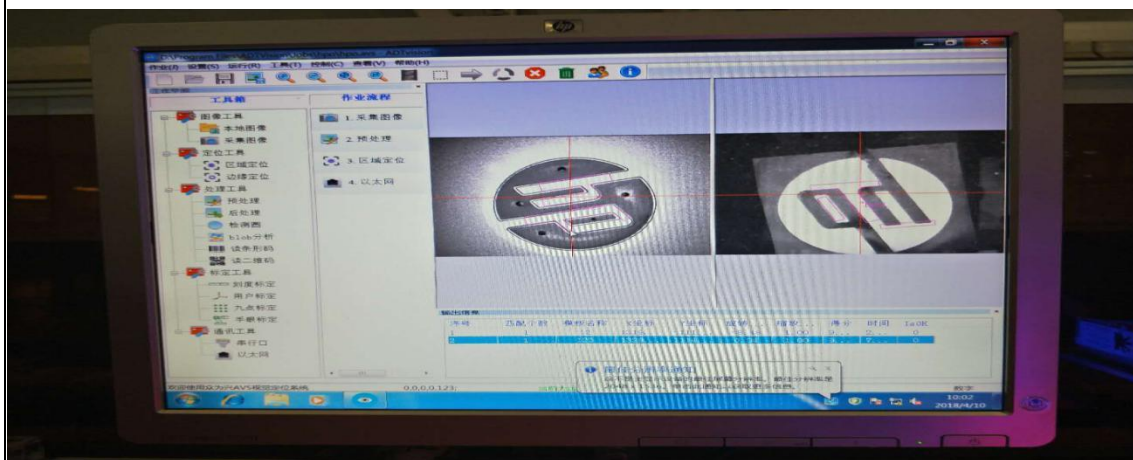
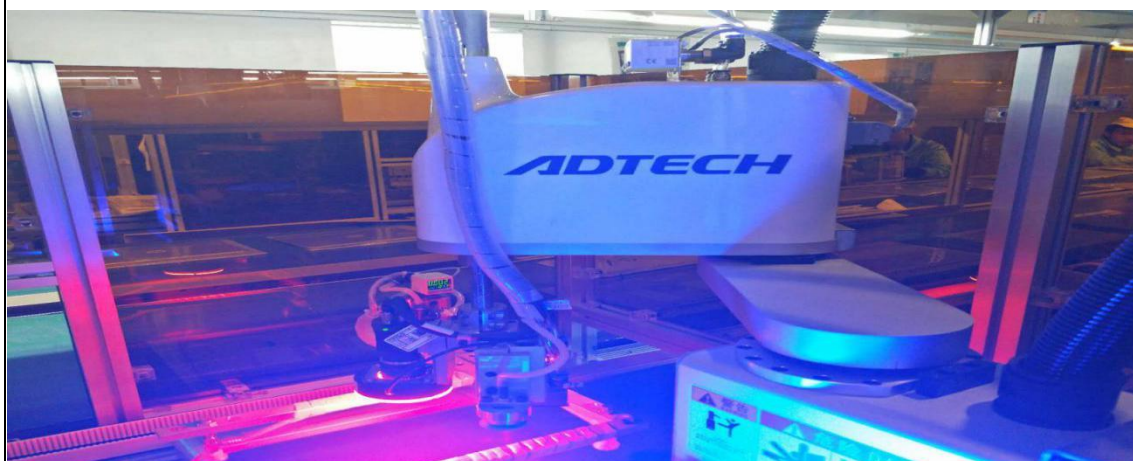


- **laptop LOGO double vision fit**

project name:	Notebook LOGO double vision fit		
Robot Model:	AR5215	The number of robots:	1
peripheral equipment:	AVS3200	Number of external devices:	1
Efficiency Beat:	Overall efficiency 12s	Precision machine equipment:	± 0.025mm
Saving labor:	2 people	Customer Type:	Integrators face of terminal business

<p>Project Description:</p>	<p>1. The basic process: feeding a fixed bit takes LOGO, to tear the tear backsize adhesive station, the adhesive tear LOGO irregularities (flip camera to take pictures affect accuracy) on the nozzle, the secondary platform to the discharge, then a rigid suction jig suction fed flip still camera to take pictures, photographs obtained with a tool to build a dynamic point coordinate position, to the discharge point of a dynamic camera mounted on the J4 axis bonded bit notebook cover positioning were photographed, using flip camera built tools to fix fit.</p>
<p>Equipment advantages:</p>	<p>1. Save labor, increase production efficiency. 2. Pass rate for incoming (notebook cover) can have the effect of a visual inspection, higher accuracy than manual inspection. 3. With respect to the stability and accuracy of artificial bonded are higher.</p>

Equipment picture (attached live video)



- **PCB Coding loading and unloading)**

Project name:	Unloading PCB Coding		
Robot Model:	AR6520	The number of robots:	3
peripheral equipment:	Sucker fixture	Number of external devices:	3
Efficiency Beat:	50 / min	Precision machine equipment:	± 0.05mm
Saving labor:	3 people	Customer Type:	Integrators
Project Description:	<p>Duplex PCB to the robot, after Coding visual screening or to the NG OK to the robot, into the robot corresponding to a respective filling level.</p> <p>1. Customer accuracy requirements: (Visual Coding printer is positioned, the robot will be placed in tray material can) millimeter.</p> <p>2. Customer tempo: 50 or more per minute (robots wait Coding complete loading and unloading).</p>		
Equipment advantages:	<p>1. Replace Imported robot brand cost-effective upgrade 25%.</p> <p>2. save staff station 10, 2 years recovery costs, equipment life more than 5 years.</p>		
Equipment picture (attached live video)			



- **electronic material sorting**

Project name:	Electronic materials sorting		
Robot Model:	AR4215	The number of robots:	40
Peripheral equipment:	Sucker fixture	Number of external devices:	40
Efficiency Beat:	60 / minute	Precision machine equipment:	± 0.025mm
Saving labor:	40 people	Customer Type:	Integrators

<p>Project Description:</p>	<p>Shock vibration plate material, to the robot vision camera position information electronic materials, robot waiting on material flow dividing plate, a plurality of sets of material information and transmitting the current status information of the index plate.</p> <p>Customer accuracy: $\pm 0.025\text{mm}$.</p> <p>Customer rhythm: the whole 60 or more per minute.</p>
<p>Equipment advantages:</p>	<ol style="list-style-type: none"> 1. Replace Imported robot brand cost-effective upgrade 25%. 2. save staff station 40, 2 years recovery costs, equipment life more than 5 years.

Equipment picture (attached live video)



- **phone box accessories adhesive**

<p>Project name:</p>	<p>Phone box adhesive materials</p>
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Robot Model:	AR4215	The number of robots:	6
Peripheral equipment:	AVSvisual system	Number of external devices:	6
Efficiency Beat:	Line efficiency5s/station	Precision machine equipment:	± 0.1mm
Saving labor:	12people	Customer Type:	Integrators face of terminal business
Project Description:	<p>After six robot is feeding through the feeding mechanism in place to feed a robot position signal, the robot to feed mechanism that reclaimer, after the establishment of the template according to flip the camera before correction. After correcting the pipeline waiting for the phone box to send a robot to the robot attached to a material level signal robot, robot discharge flip camera correction tools. Continuous cycle.</p>		
Equipment advantages:	<ol style="list-style-type: none"> 1、 The accuracy of the line equipment to achieve customer paste material required accuracy, high device reliability, product yield of 98%. 2、 Saving station staff12Or so,1Can be recovered in cost, the life of equipment in more than 5 years. 3、 5 increased line efficiency0%. 4、 Replacement of materials as long as the changes corresponding visual templates and discharge points you can achieve different adhesive materials. 		
Equipment picture (attached live video)			

