

VISUAL INSPECTION



EQUIPMENT TECHNICAL PARAMETER

南京翰洋智能设备有限公司
NANJING HANYOO PHARMATECH CO., LTD.







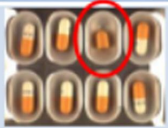







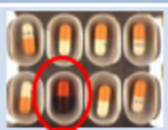










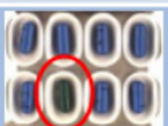
VISUAL INSPECTION













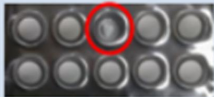











































BRIEF INTRODUCTION OF BLISTER ON-LINE INSPECTION SYSTEM

Inspection System Program	A machine vision inspection program for images developed by a Ph.D. studying in France. Meanwhile, in order to cope with new projects, the company has a long-term and solid cooperation with many foreign higher research centers.	
Hardware Configuration Detection range Inspection System Program	Self-developed and assembled industrial-grade control computer	
	Imported German Eimage Precision Camera	
	Germany imported Siemens programmable control system (PLC)	
Hardware Configuration	capsules	Missing grain, missing cap, set cap, double grain
	pill	Missing grain, missing >25%, double grain



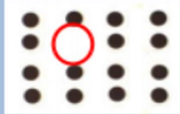

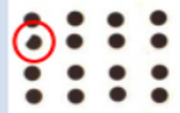




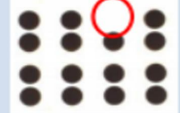




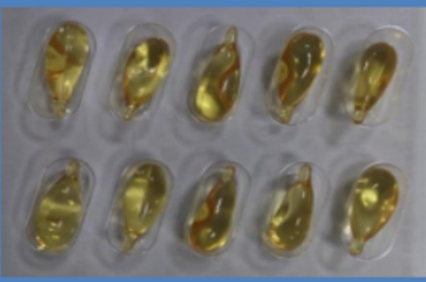




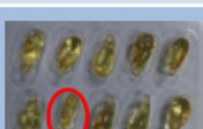



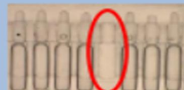



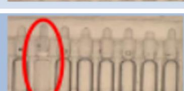
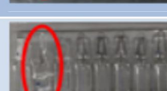
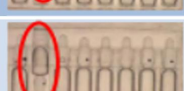
ALUMINUM ALUMINUM TESTING

Test Sample	Defect Type	Defect Pictures	Inspection Pictures	Testing Standards
 <p>#1 Orange and White Capsules</p>	Grainless			No capsule inside the vesicle
	half-grain			Capsule without body
	Hatless			Capsule without capsule
	Capped			Capsule double capsule
	Double			Multiple capsules in a single vesicle
	color difference			Mixing of different colored capsules
 <p>#1 Blue Monochrome Capsule</p>	Grainless			No capsule inside the vesicle
	half-grain			Capsule without body
	Hatless			Capsule double capsule
	Double			Multiple capsules in a single vesicle
	color difference			Mixing of different colored capsules

Test Sample	Defect Type	Defect Pictures	Inspection Pictures	Testing Standards
 8mm White Pictures	Aberrant			No pills in the vesicle
	Defective			Defects $\geq 25\%$
	double grain			Multiple pills within the vesicle
	Speckled			Spots $\geq 2\text{mm}$ in diameter
	color difference			Mixed with different color tablets
 11mm White Pictures	Aberrant			No pills in the vesicle
	Defective			Defects $\geq 25\%$
	double grain			Multiple pills within the vesicle
	Speckled			Spots $\geq 2\text{mm}$ in diameter
	color difference			Mixed with different color tablets
 17*7mm Oval white	Defective			No pills in the vesicle
	Granule			Defects $\geq 25\%$
	Double-gained			Multiple pills within the vesicle

Test Sample	Defect Type	Defect Pictures	Inspection Pictures	Testing Standards
 <p>13mm blue triangular coated tablets</p>	Aberrant			No pills in the eye of the bubble
	Defective			One corner missing
	double grain			Multiple tablets in blister
	speckled			Worn out coating
 <p>8mm Blue*Red Discs</p>	Aberrant			No pills in the vesicle
	Defective			Defects $\geq 25\%$
	double grain			Multiple pills in the blister
	odor			Two pills in the wrong blister
 <p>vial</p>	Missing Bottle			No vials inside the blisters
	missing cap			Missing cap
	upside down			Vial upside down

ALUMINUM PLASTIC TESTING

Test Sample	Defect Type	Defect Pictures	Inspection Pictures	Testing Standards
 8mm white discs	Missing Bottle			No pills in the vesicle
	missing cap			Defects \geq 25%
	upside down			Multiple tablets within the vesicle
 11mm white discs	Missing Bottle			No pills in the vesicle
	missing cap			Defects \geq 25%
	upside down			Multiple tablets within the vesicle
 Softgels Cod Liver Oil	Missing Bottle			No capsule inside the vesicle
	Upside down			Multiple capsules within a vesicle Capsules
	Deflated grain			Shriveled capsule
 Ampoules	Vial			No pill bottle inside the bubble eye
	Notch			Vial without head
	Broken			Vial broken
	Upside down			Orientation reversed

DETAILS OF TESTING EQUIPMENT

Isolation of industrial controllers from chassis

Material: 1.5mm thick food grade milky white PVC plate

Principle: The isolation plate is placed in the middle of the industrial control machine and the internal testing chassis, which better prevents dust from entering into the control chassis. This cycle completes the automatic assembly of the iodophor cap and the liquid injection function.

PHOTO GALLERY



Main view of baffle



Side view of baffle



Top view of baffle



Elevation view of baffle

Cover Seal

Material: 10*1mm (width*thickness) high-temperature resistant, waterproof and dustproof foam rubber strips

Principle: To cover the gap in the chassis, to prevent dust from entering the control chassis from the gap.

PHOTO GALLERY



Black Wire Dust Seal



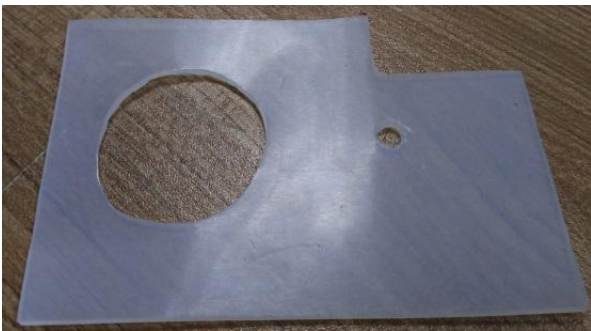
Dust seal detail

Camera Hole Dust Protection

Material: 2mm thick food-grade silicone sheet

Principle: Ensure that the lens is not obstructed at the same time can effectively prevent dust into the control chassis

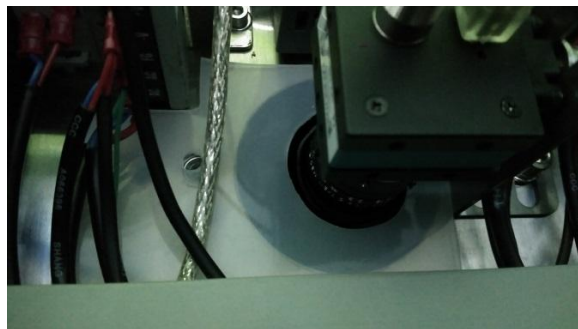
PHOTO GALLERY



Top view of silicone baffle



Silicone baffle detail



Installation effect diagram



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