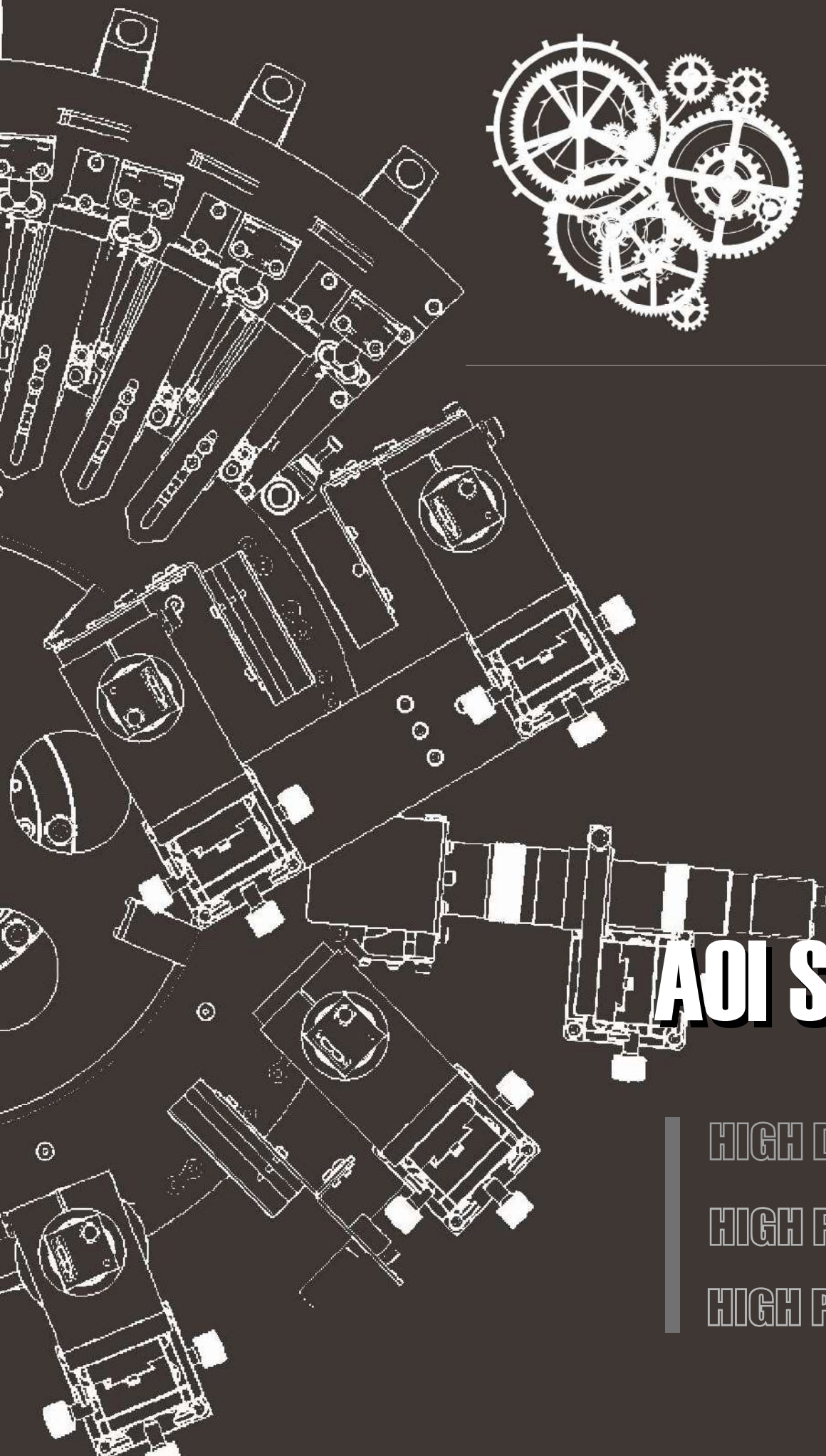


2020

SORTING MACHINE



AOI SOLUTION

HIGH DEFECTION

HIGH PERFORMANCE

HIGH PRECISION



DING CHEN TEK

DCTEK.COM.TW

- Optical Inspection Project -

I. Components : Spring

- 車用彈簧片檢測

II. Plastic Injection

- 塑膠射出檢測

III. Stamping Parts : Chain

- 金屬鍊片檢測

IV. Computer Lock

- 金屬圓環電腦鎖頭檢測

V. Passive Components : Inductor

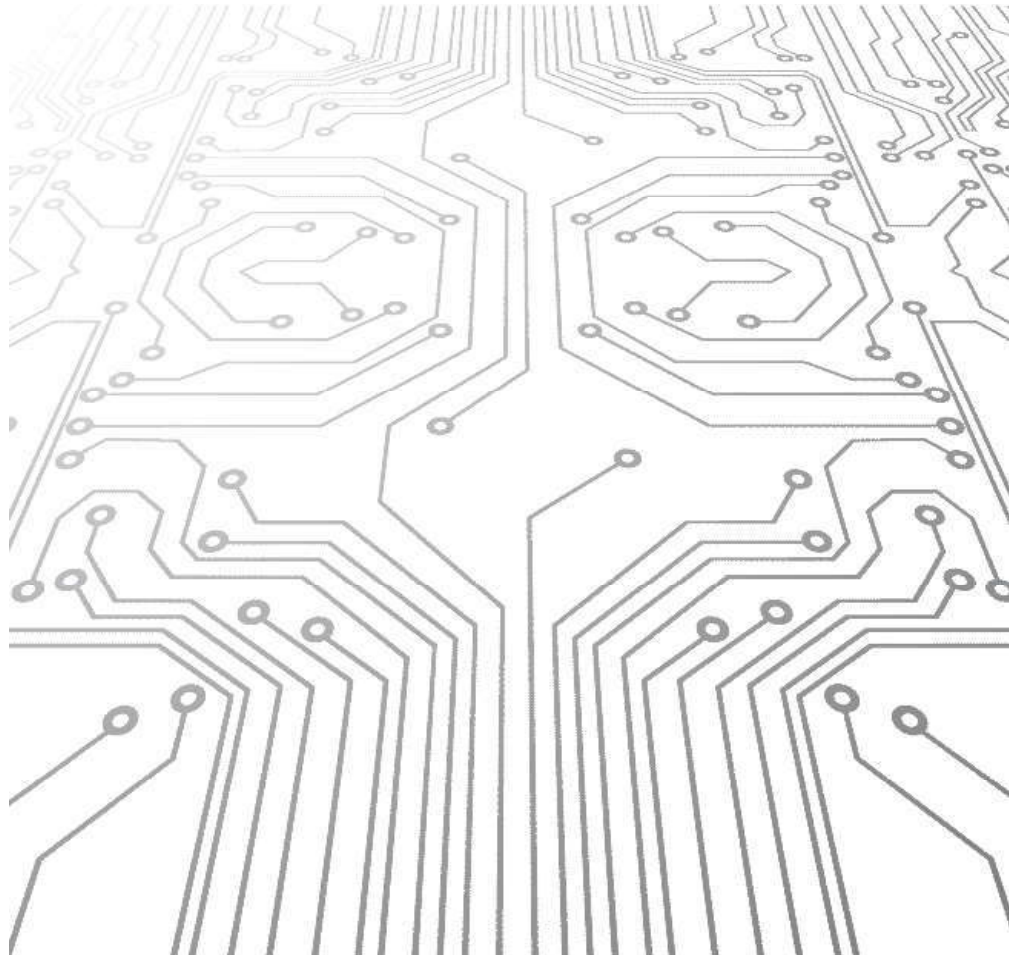
- 繞線電桿檢測

VI. Fastener : Screw

- 螺絲螺帽檢測

VII. Instance

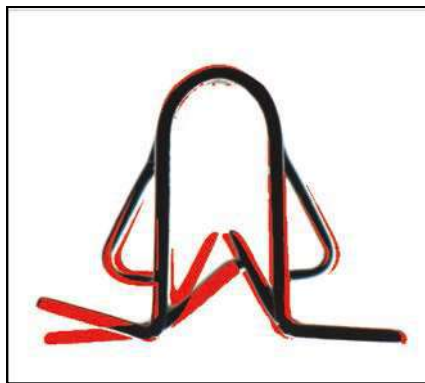
產品目錄



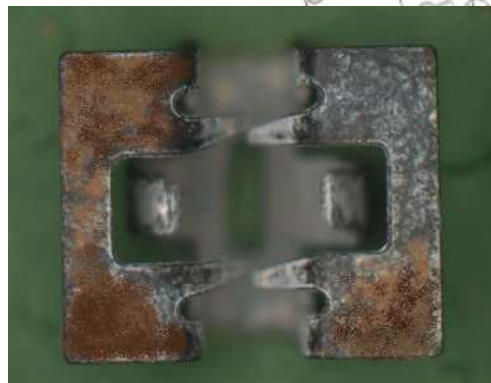
Components : Spring

◇ 車用彈簧片檢測 ◇

變形檢測



生鏽檢測



Defect Filter Specification

Defect Size(High / Width/Area)
Defect Gray Value
Defect Stander Number

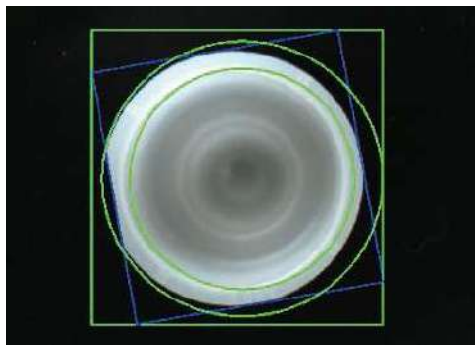
Machine Specification

Power Input	AC 220V 50/60 Hz · 2 KVA
Air Input	0.5 MPa or higher
Image resolution	30 um/pixel
FOV	1 mm x 1 mm ~ 50 mm x 50 mm
Inspection Items	Pole size · User Defined Items
Productivity	100 ~ 300 unit/min
Sorting Bins	2 ~ 3 Bins
Dimensions	860 mm x 860 mm x 1965 mm (W x D x H)
Weight	450 kg
Camera	1 ~ 5 USB Camera · 1.3M
Computer	Win10 x64 Professional
UPS Protection	Yes

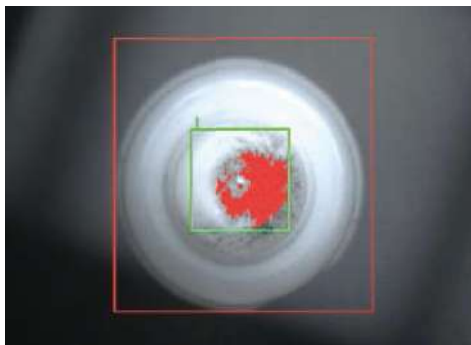
Plastic Injection

◇ 塑膠射出檢測 ◇

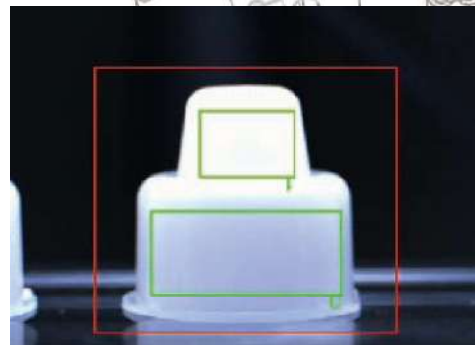
圓形定位



髒污檢測



側面檢測



Defect Filter Specification

Defect Size(High / Width/Area)
Defect Gray Value
Defect Stander Number

Machine Specification

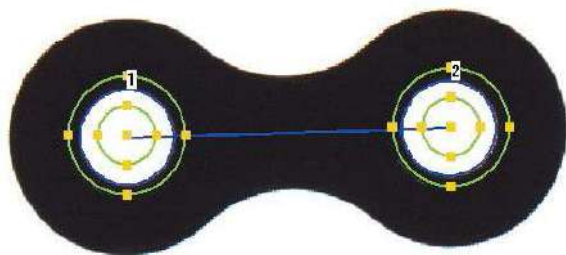
Power Input	AC 220V 50/60 Hz · 2 KVA
Air Input	0.4 MPa or higher
Image resolution	2.1 um/pixel ~ 13 um/pixel
FOV	1 mm x 1 mm ~ 50 mm x 50 mm
Inspection Items	Pole size · User Defined Items
Productivity	500 ~ 1000 unit/min
Sorting Bins	2 ~ 3 Bins
Dimensions	1060 mm x 1060 mm x 1965 mm (W x D x H)
Weight	450 kg
Camera	1 ~ 4 USB Camera · 1.3M
Computer	Win10 x64 Professional
UPS Protection	Yes



Stamping Parts : Chain

◇ 沖壓件:鏈片 ◇

尺寸量測



LOGO識別



Defect Filter Specification

Defect Size(High / Width/Area)
Logo Classification
Distance Measure

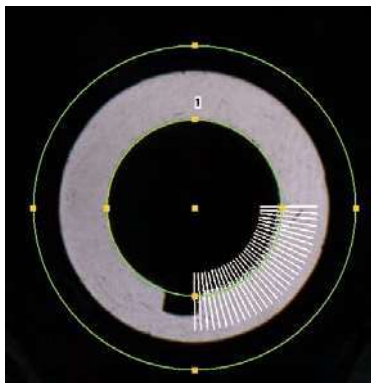
Machine Specification

Power Input	AC 220V 50/60 Hz · 2 KVA
Air Input	0.5 MPa or higher
Image resolution	2.1 um/pixel ~ 13 um/pixel
FOV	1 mm x 1 mm ~ 50 mm x 50 mm
Inspection Items	Pole size · User Defined Items
Productivity	200 ~ 500 unit/min
Sorting Bins	2 ~ 3 Bins
Dimensions	1060 mm x 1060 mm x 1965 mm (W x D x H)
Weight	450 kg
Camera	1 ~ 4 USB Camera · 1.3M
Computer	Win10 x64 Professional
UPS Protection	Yes

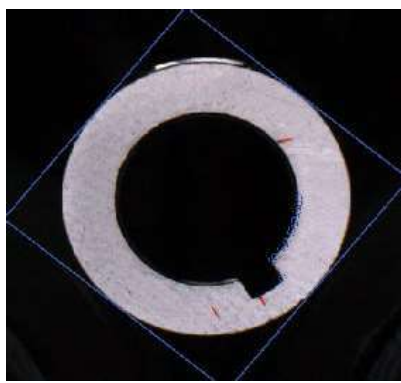


◇ 金屬電腦鎖殼檢測 ◇

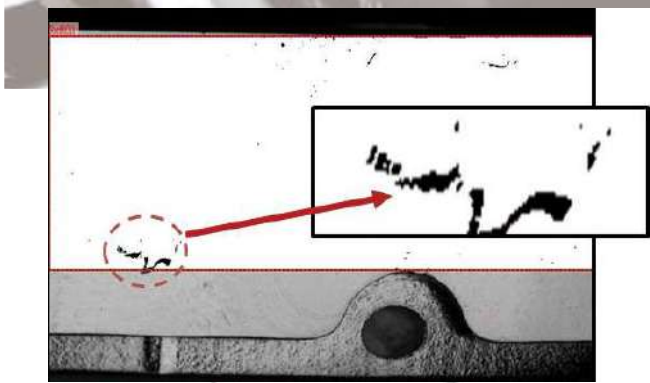
圓形定位



圓頂檢測



側面線掃檢測



Defect	Filter Specification
	Defect Size(High / Width/Area)
	Defect Gray Value
	Defect Stander Number

Machine Specification	
Power Input	AC 220V 50/60 Hz · 1 KVA
Air Input	0.4 MPa or higher
Image resolution	2.1 um/pixel ~ 13 um/pixel
FOV	1 mm x 1 mm ~ 50 mm x 50 mm
Inspection Items	Pole size · User Defined Items
Productivity	7 ~ 10 unit/min
Sorting Bins	2 Bins
Dimensions	500 mm x 500mm x 1500 mm (W x D x H)
Weight	150 kg
Camera	2 USB Camera · 1.3M
Computer	Win10 x64 Professional
UPS Protection	Yes



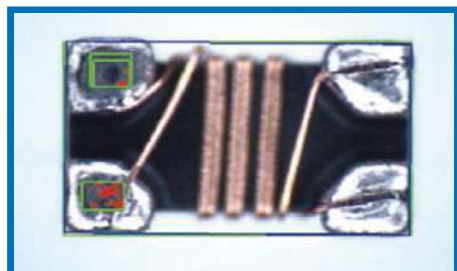
Passive Components

◇ 繞線電感檢測機 ◇

掛線不良

熔接不良

翻錫



Defect Filter Specification

Defect Size(High / Width/Area)
Defect Gray Value
Defect Stander Number

Machine Specification

Power Input	AC 220V 50/60 Hz · 3 KVA
Air Input	0.4 MPa or higher
Image resolution	2.1 um/pixel ~ 13 um/pixel
FOV	1 mm x 1 mm ~ 17 mm x 17 mm
Inspection Items	Pole size · User Defined Items
Productivity	2000 ~ 4000 unit/min
Sorting Bins	2 ~ 4 Bins
Dimensions	1060 mm x 1060 mm x 1965 mm (W x D x H)
Weight	450 kg
Camera	1 ~ 8 USB Camera · 1.3M
Computer	Win10 x64 Professional
UPS Protection	Yes



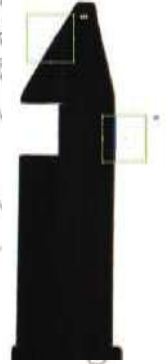
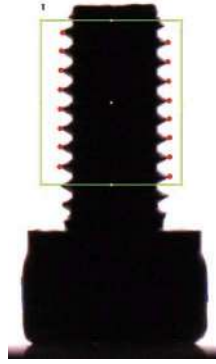
頭部寬度

牙距量測

螺絲長度

頭部高度

角度量測



Defect Filter Specification

Defect Size(High / Width/Area)
Defect Gray Value
Defect Stander Number

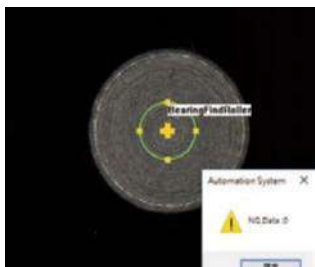
Machine Specification

Power Input	AC 220V 50/60 Hz · 3 KVA
Air Input	0.5 MPa or higher
Image resolution	30 um/pixel
FOV	1 mm x 1 mm ~ 50 mm x 50 mm
Inspection Items	Pole size · User Defined Items
Productivity	300 ~ 600 unit/min
Sorting Bins	2 ~ 3 Bins
Dimensions	1060 mm x 1060 mm x 1965 mm (W x D x H)
Weight	450 kg
Camera	1 ~ 6 USB Camera · 1.3M
Computer	Win10 x64 Professional
UPS Protection	Yes



電子零件滾珠偵測

背部影像



正面缺珠



正面有珠1



正面有珠2



牙傷檢測

外360度影像



螺牙瑕疵檢出



內螺牙偏孔檢測

正常影像



斜牙

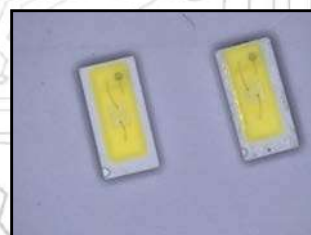


斜牙影像極座標轉換檢測

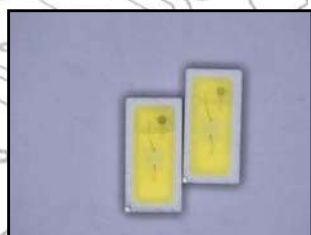


LED表面檢測

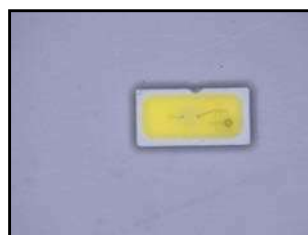
切偏



板裂



板破

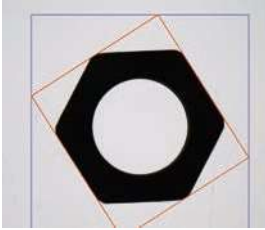


半黑杯



扣件檢測

對邊量測



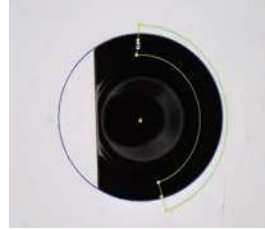
倒角直徑



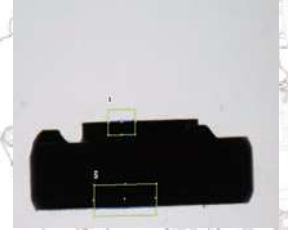
內牙有無



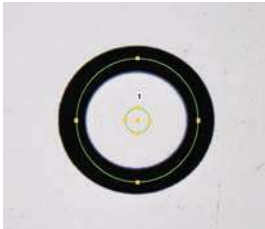
圓弧量測



高度寬度量測



真圓度



瑕疵塞孔檢測



表面崩缺



同心圓量測



印記偵測

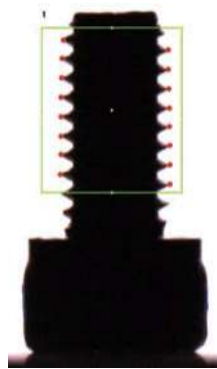


螺絲檢測

頭部寬度



牙距量測



螺絲長度



頭部高度

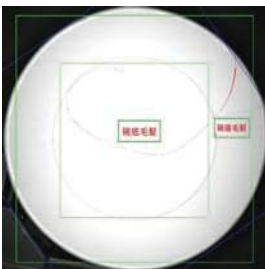


角度量測

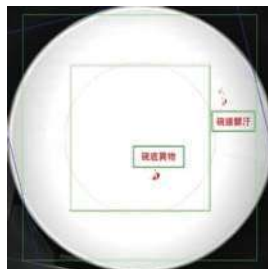


紙碗髒污檢測

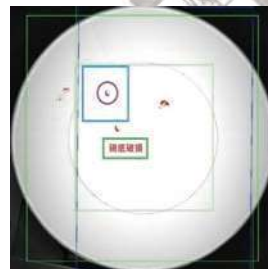
毛髮入塵



異物瑕疵



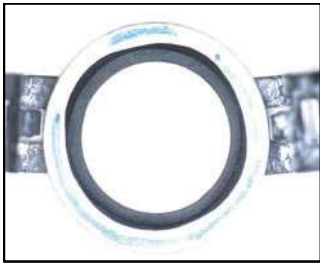
破洞瑕疵





油封檢測

填充不足



檢出結果



表面髒污



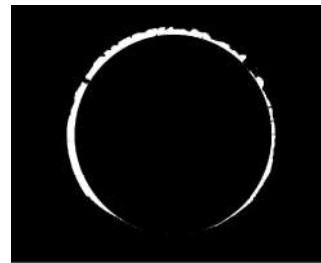
檢出結果



產品溢膠



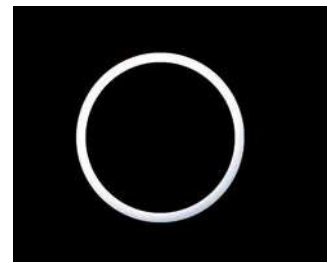
檢出結果



內環缺膠



檢出結果



橡膠表面檢測

破損瑕疵1



檢出結果



破損瑕疵2



檢出結果



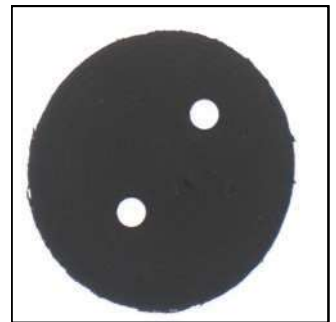
破損瑕疵3



檢出結果



破損瑕疵4

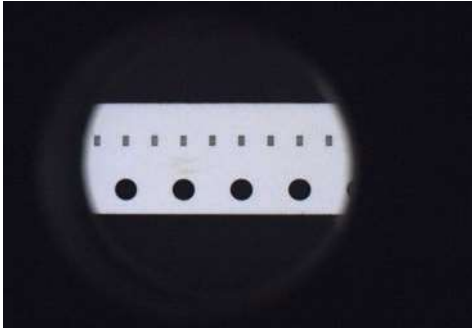


檢出結果

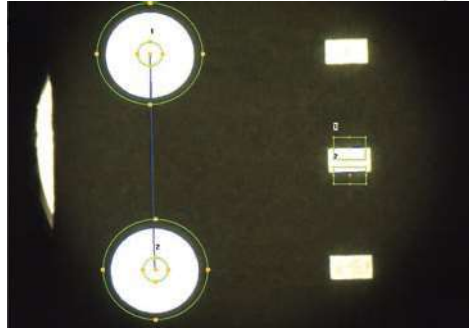


料帶條檢測

料帶條外觀

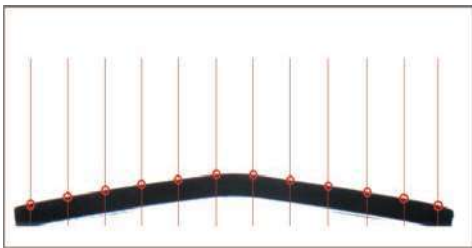


料帶孔徑與間格量測



鏈片檢測

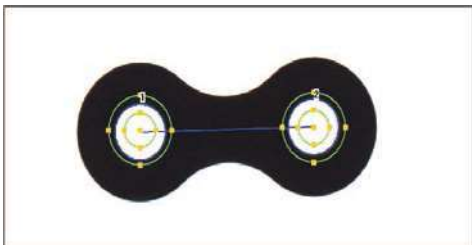
翹曲量測



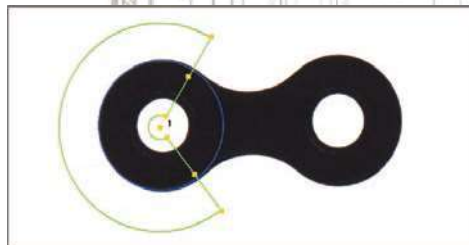
Logo識別



圓孔間距量測

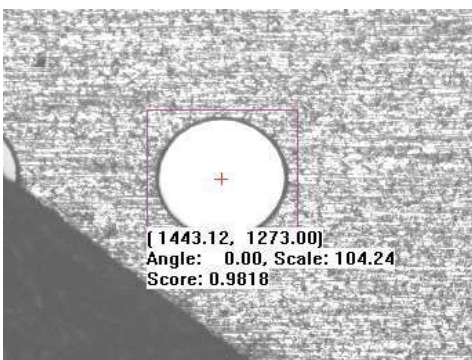


圓弧量測

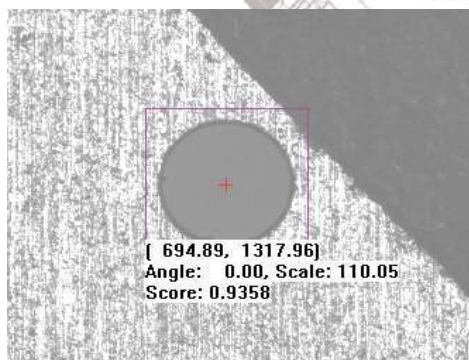


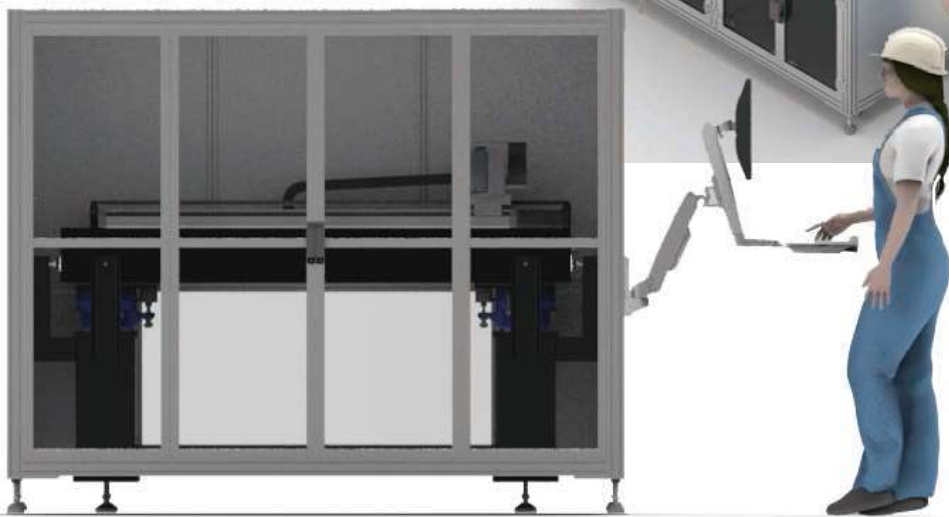
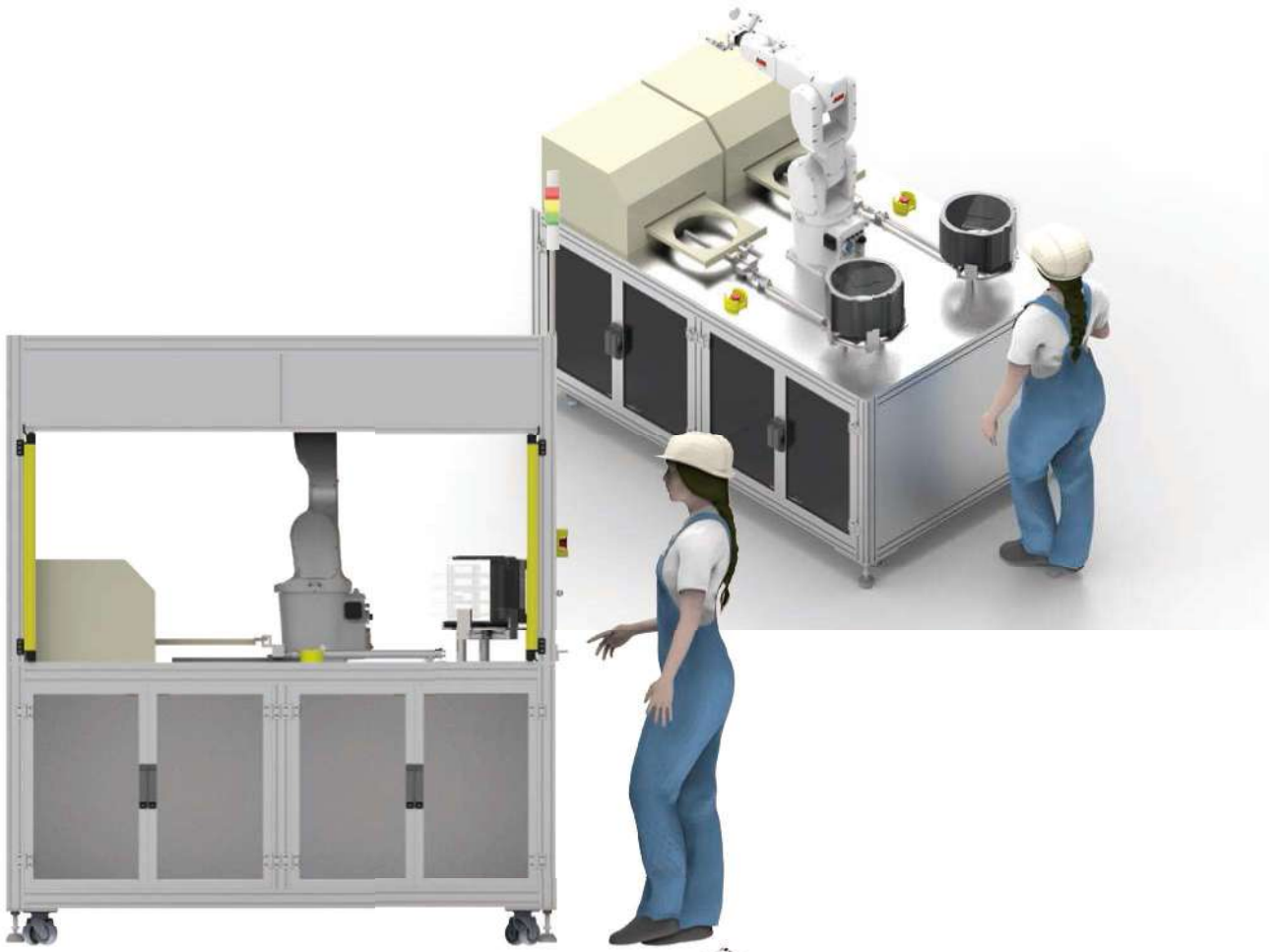
雙視覺影像對位

輪廓定位(白)



輪廓定位(黑)





2020

SORTING MACHINE



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