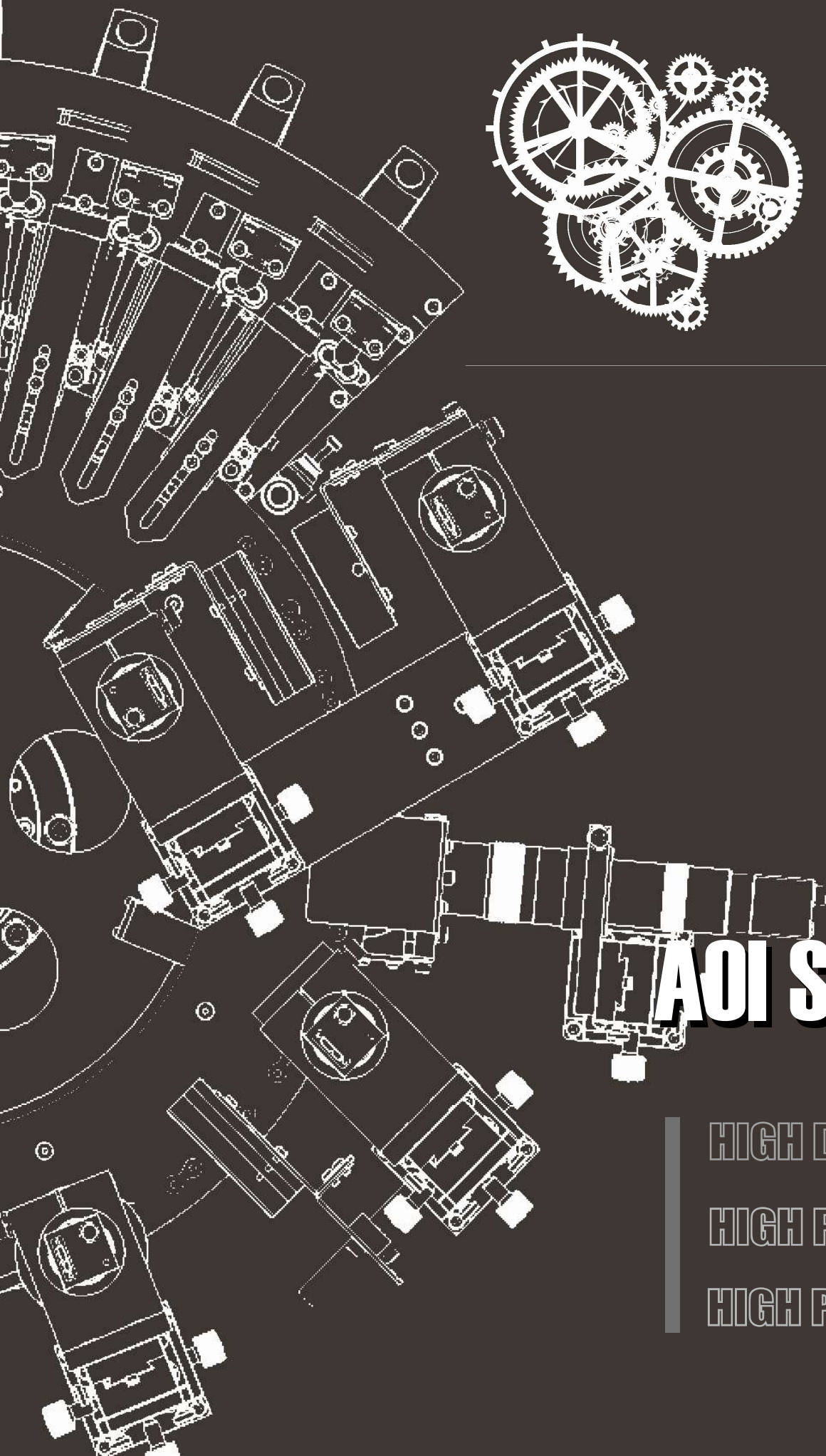
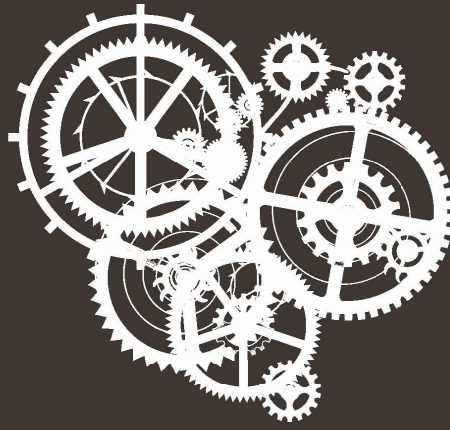


2020

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

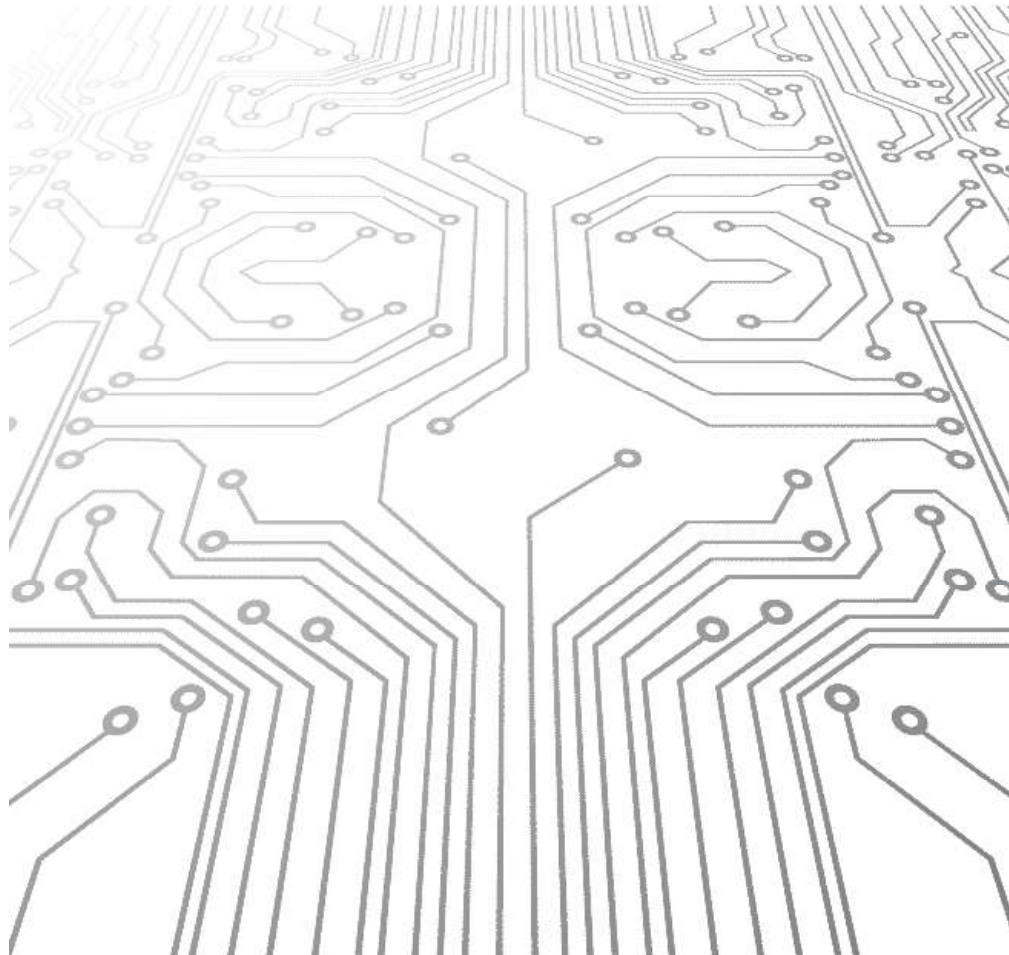
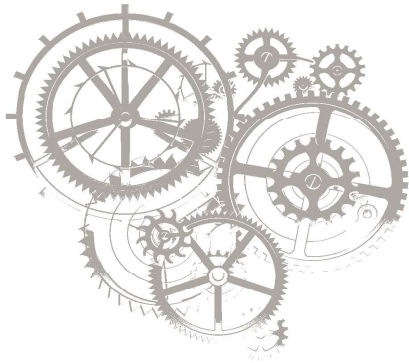
- 繞線電桿檢測

VI. Fastener : Screw

- 螺絲螺帽檢測

VII. Instance

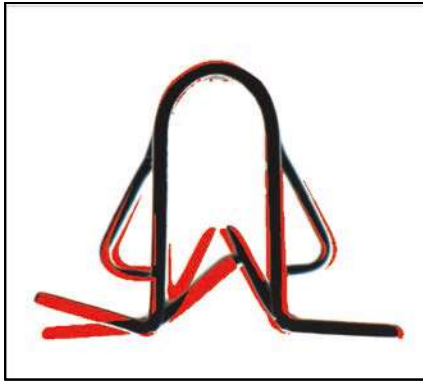
產品目錄



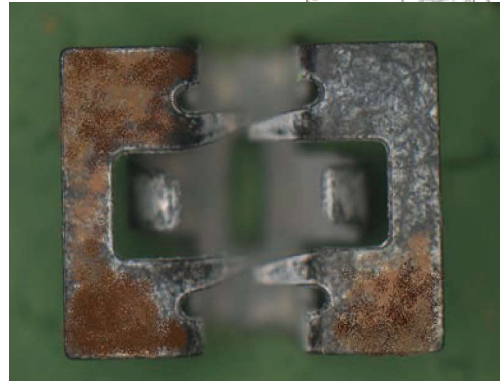
Components : Spring

◇ 車用彈簧片檢測 ◇

變形檢測



生鏽檢測



Defect Filter Specification

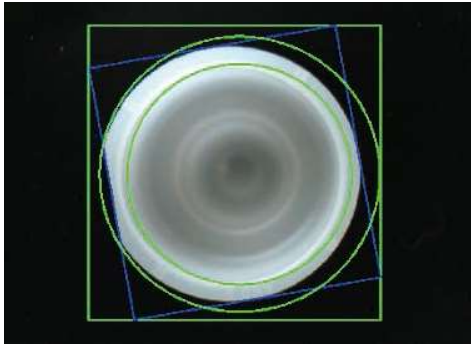
Defect Size(High / Width/Area)
Defect Gray Value
Defect Stander Number

Machine Specification

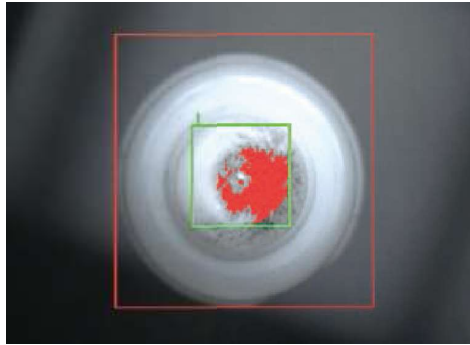
Power Input	AC 220V 50/60 Hz · 2 KVA
Air Input	0.5 MPa or higher
Image resolution	30 um/pixel
FOV	1 mm x 1 mm ~ 50 mm x 50 mm
Inspection Items	Pole size · User Defined Items
Productivity	100 ~ 300 unit/min
Sorting Bins	2 ~ 3 Bins
Dimensions	860 mm x 860 mm x 1965 mm (W x D x H)
Weight	450 kg
Camera	1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



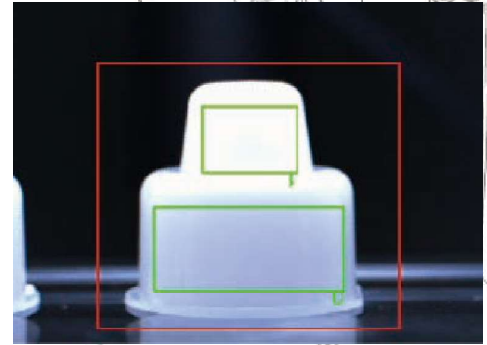
圓形定位



髒污檢測



側面檢測



Defect Filter Specification

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

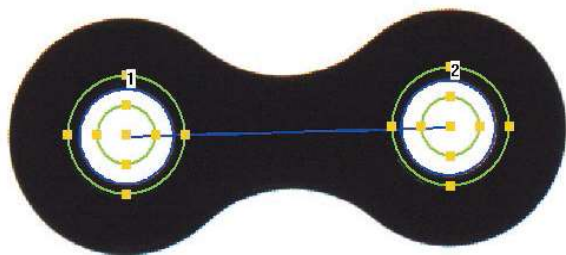
Machine Specification

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



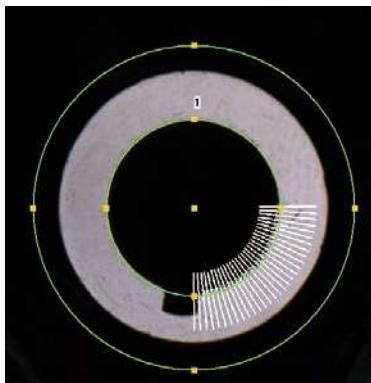
Defect Filter Specification	
Defect Size(High / Width/Area)	
Logo Classification	
Distance Measure	



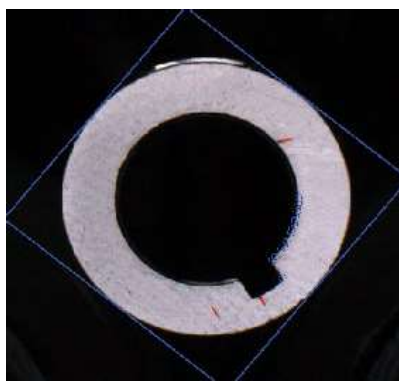
Machine Specification	
Power Input	AC 220V 50/60 Hz · 2 KVA
Air Input	0.5 MPa or higher
Image resolution	2.1 um/pixel ~ 13 um/pixel
FOV	1 mm x 1 mm ~ 50 mm x 50 mm
Inspection Items	Pole size · User Defined Items
Productivity	200 ~ 500 unit/min
Sorting Bins	2 ~ 3 Bins
Dimensions	1060 mm x 1060 mm x 1965 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 ◇

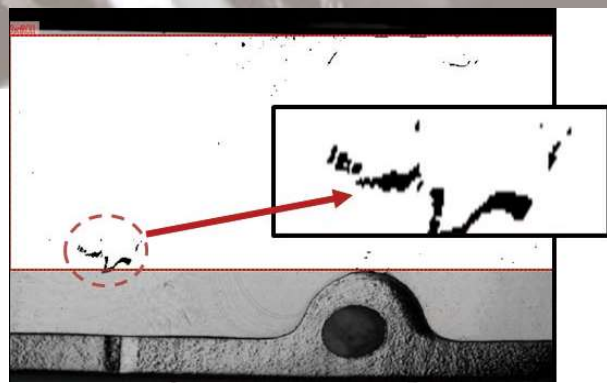
圓形定位



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

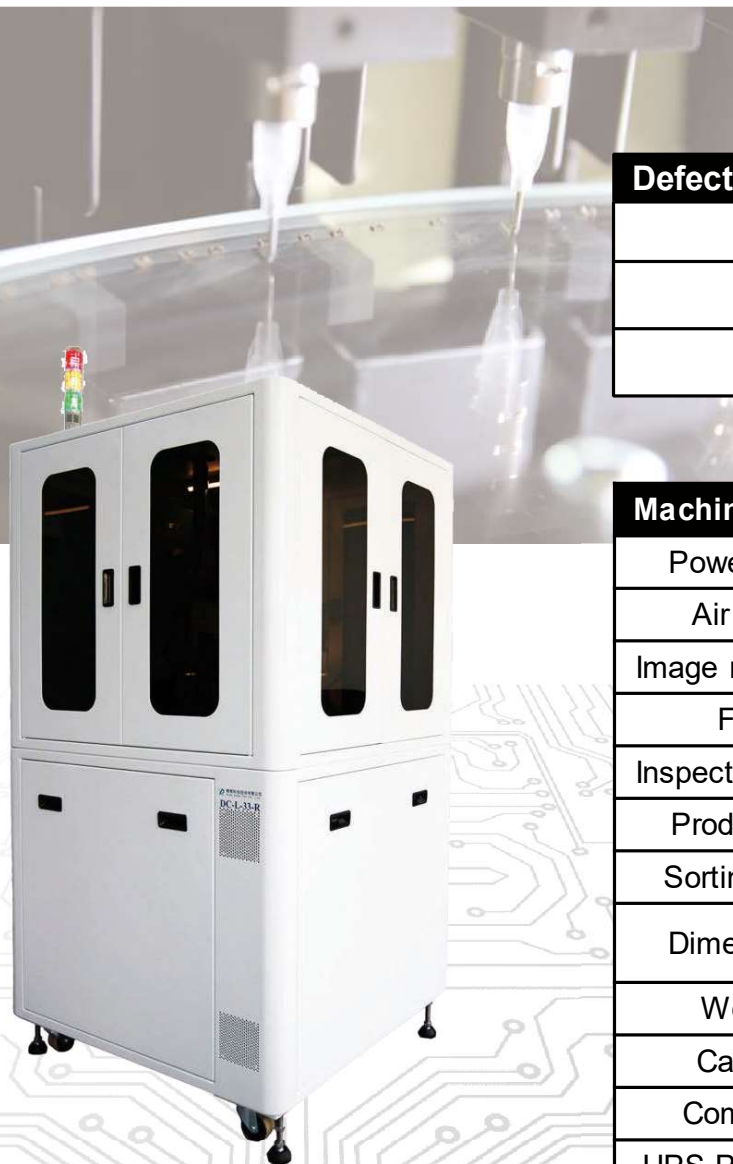
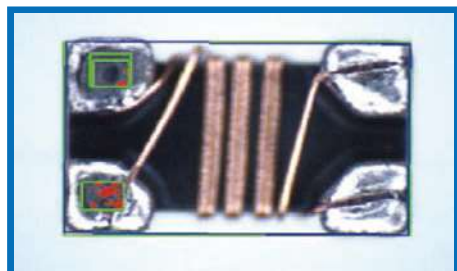
Passive Components

◇ 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

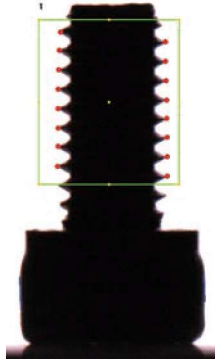
Fastener : Screw

◇ 螺絲螺帽檢測 ◇

頭部寬度



牙距量測



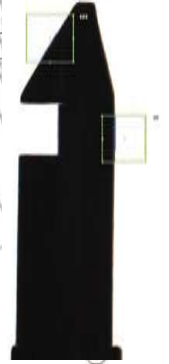
螺絲長度



頭部高度



角度量測



Defect Filter Specification

Defect Size(High / Width/Area)

Defect Gray Value

Defect Stander Number

Machine Specification

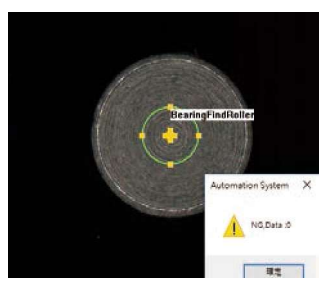
Power Input	AC 220V 50/60 Hz · 3 KVA
Air Input	0.5 MPa or higher
Image resolution	30 um/pixel
FOV	1 mm x 1 mm ~ 50 mm x 50 mm
Inspection Items	Pole size · User Defined Items
Productivity	300 ~ 600 unit/min
Sorting Bins	2 ~ 3 Bins
Dimensions	1060 mm x 1060 mm x 1965 mm (W x D x H)
Weight	450 kg
Camera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



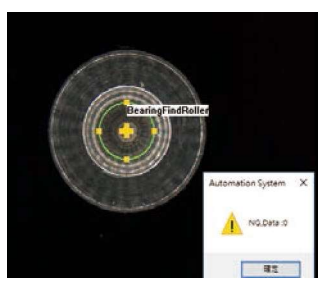


電子零件滾珠偵測

背部影像



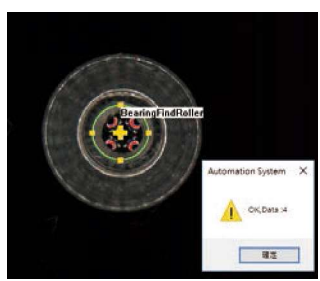
正面缺珠



正面有珠1



正面有珠2

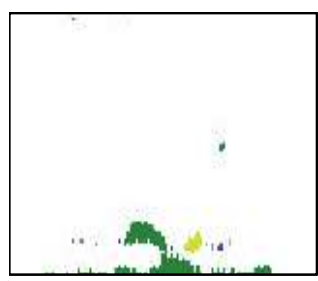


牙傷檢測

外360度影像

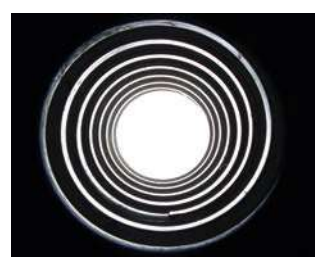


螺牙瑕疵檢出



內螺牙偏孔檢測

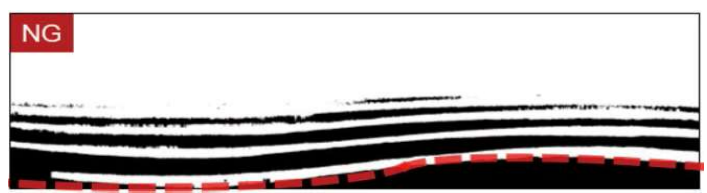
正常影像



斜牙

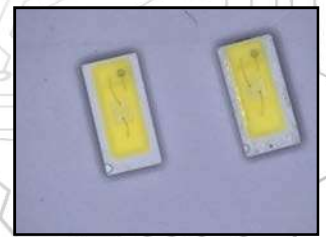


斜牙影像極座標轉換檢測

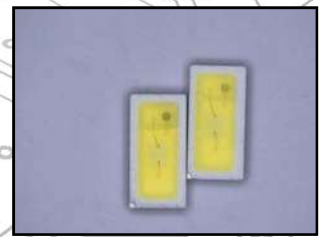


LED表面檢測

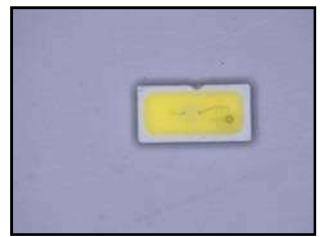
切偏



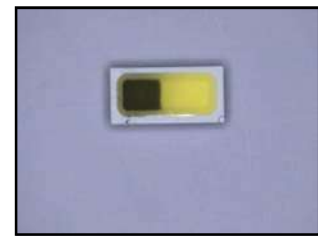
板裂



板破

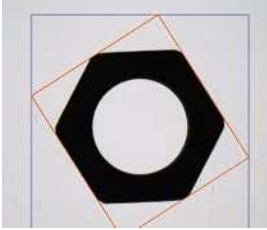


半黑杯



扣件檢測

對邊量測



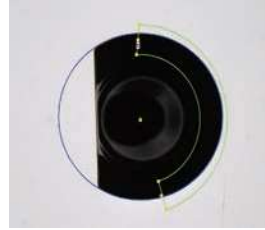
倒角直徑



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

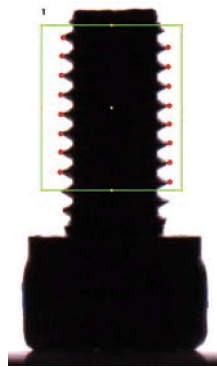


螺絲檢測

頭部寬度



牙距量測



螺絲長度



頭部高度

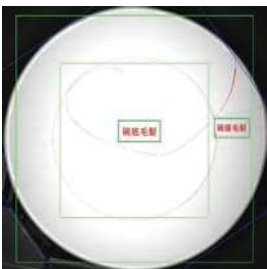


角度量測

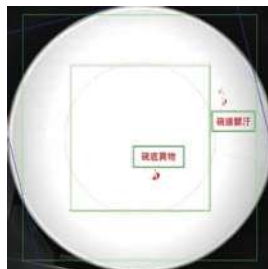


紙碗髒污檢測

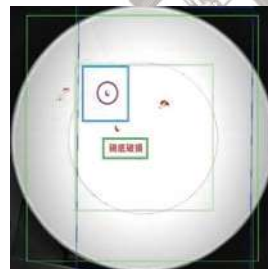
毛髮入塵



異物瑕疵



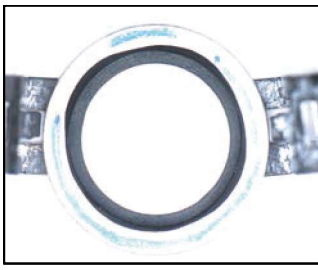
破洞瑕疵



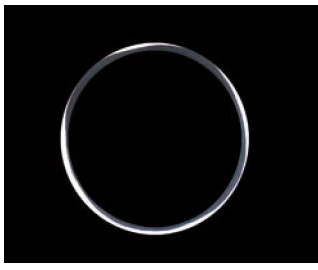


油封檢測

填充不足



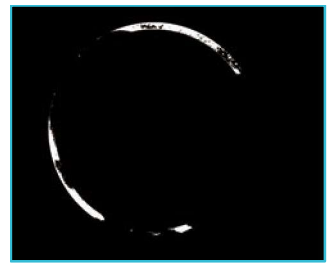
檢出結果



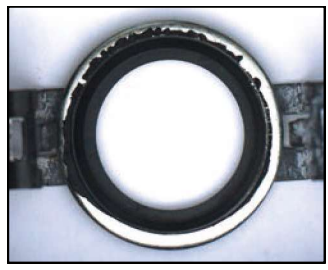
表面髒污



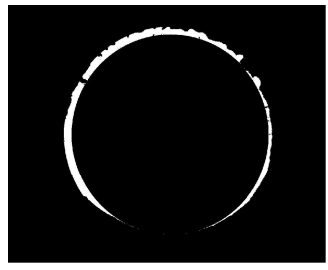
檢出結果



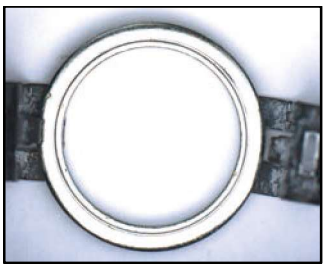
產品溢膠



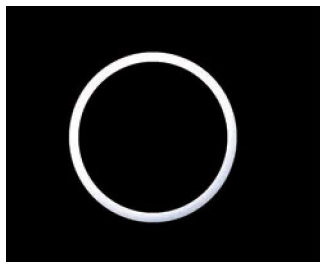
檢出結果



內環缺膠



檢出結果

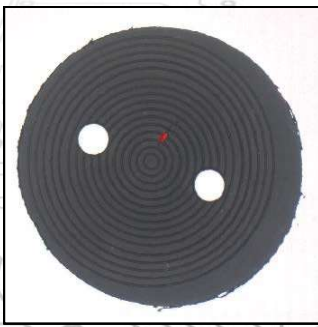


橡膠表面檢測

破損瑕疵1



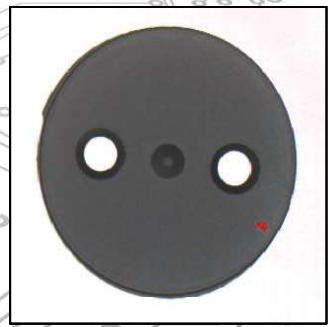
檢出結果



破損瑕疵2



檢出結果



破損瑕疵3



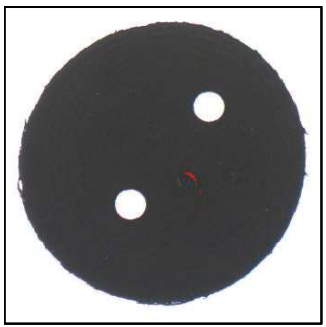
檢出結果



破損瑕疵4

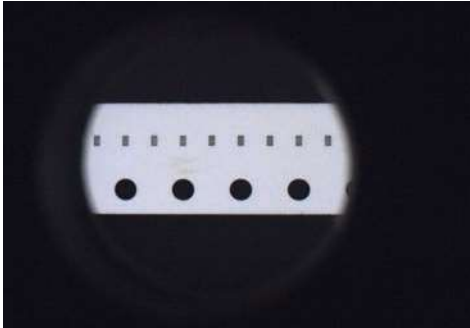


檢出結果

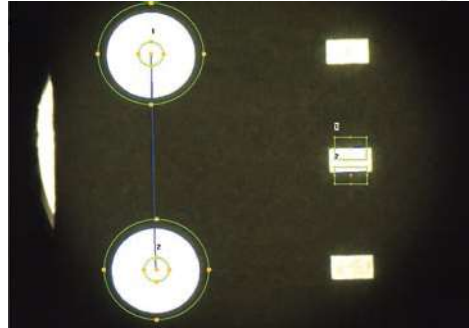


料帶條檢測

料帶條外觀

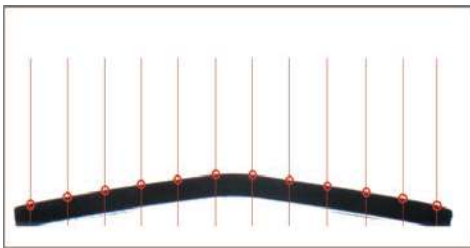


料帶孔徑與間格量測



鏈片檢測

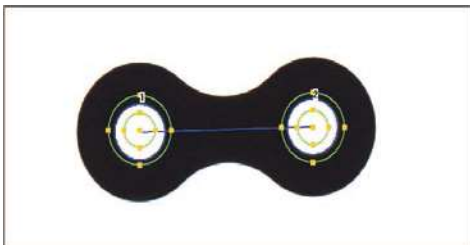
翹曲量測



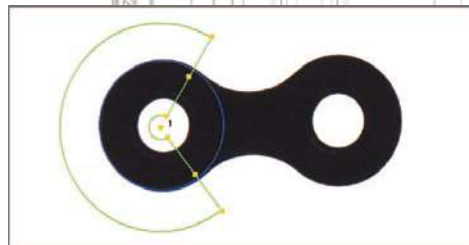
Logo識別



圓孔間距量測

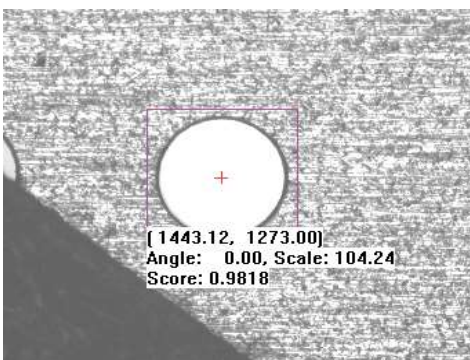


圓弧量測

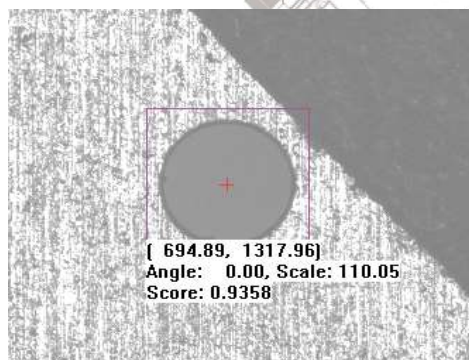


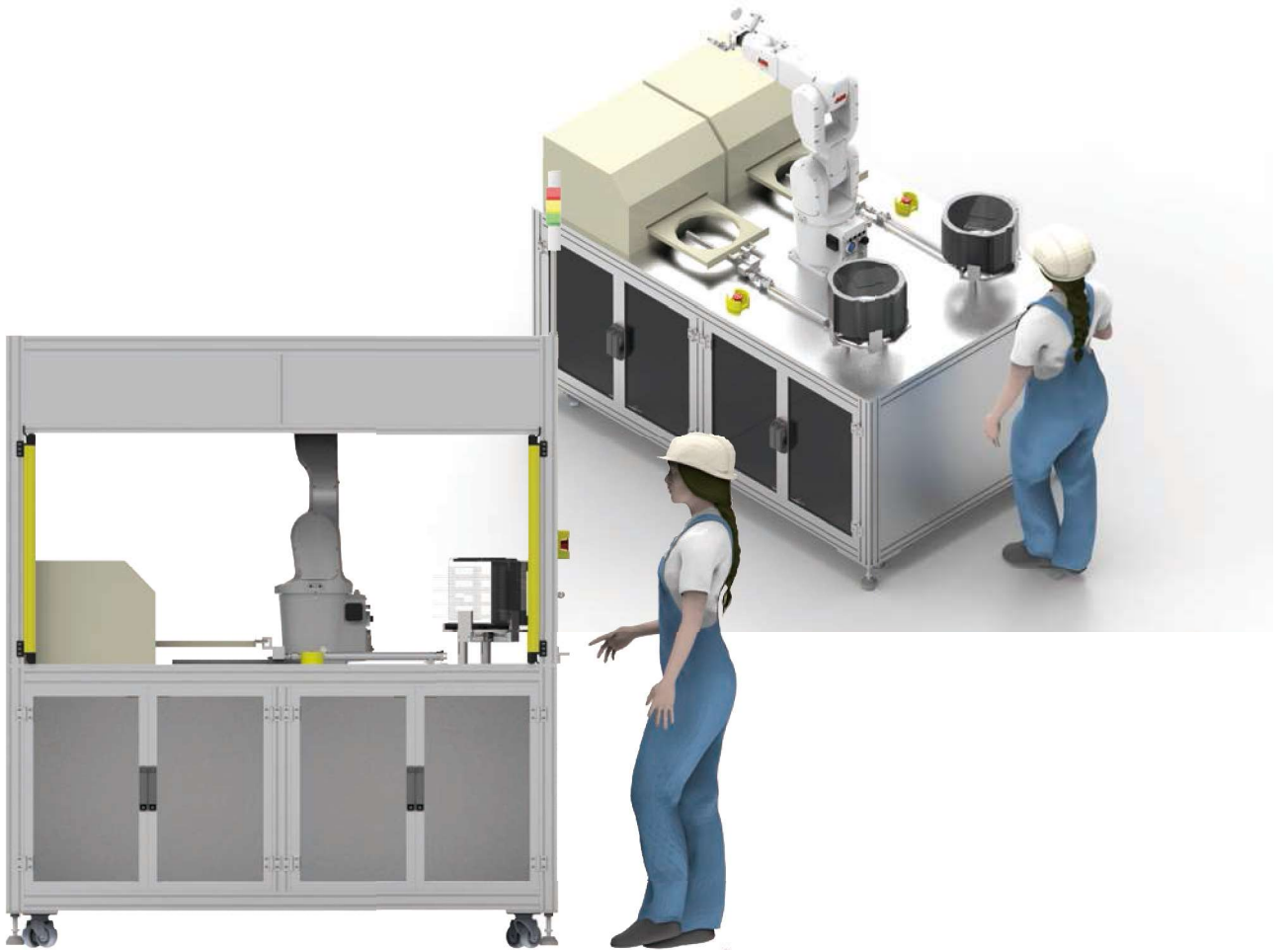
雙視覺影像對位

輪廓定位(白)



輪廓定位(黑)





2020

SORTING MACHINE



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