



久元電子

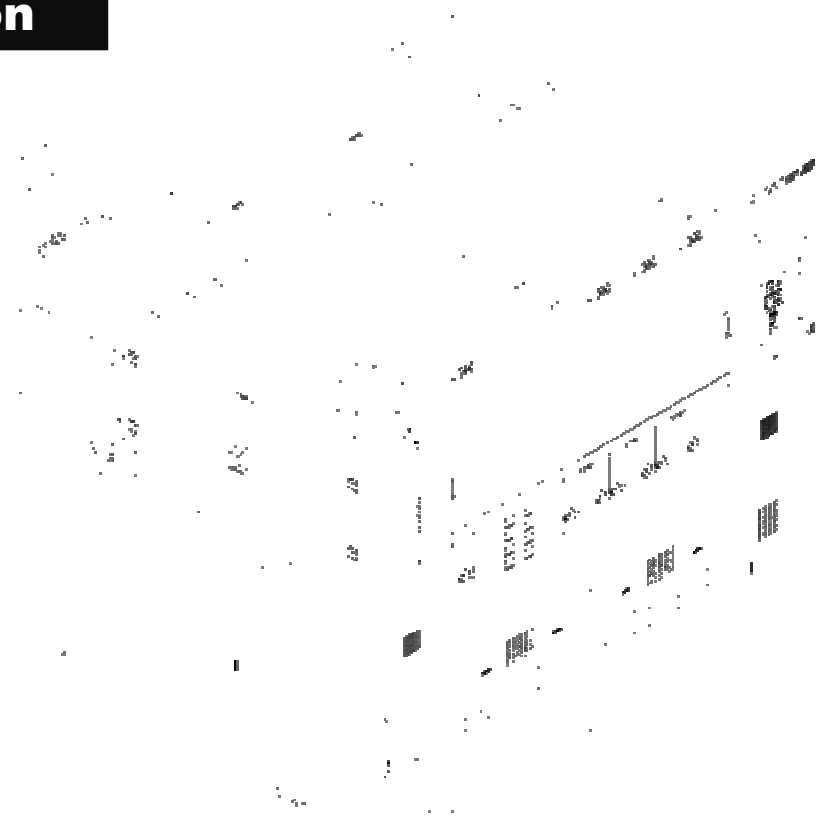
YT6100 Series

Auto-Testing & Sorting Solution

Flat Type IC Test Handler

■ 測試分類機

INTRODUCTION



YoungTek Electronics Corp.

YT6100 Series

Auto-Testing & Sorting Solution

Flat Type IC測試分類機

業界最高性價比

IC測試分類機

Pick & Place IC Test Handler



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About YT6120

YT6120是一台功能價格比最高的IC測試分類機(Pick & Place IC Test Handler)，具有高產能及高穩定性等特點。

可同時測試四顆IC，每小時的產能最高達8000顆，可測試不同封裝型態的IC，如QFP、LQFP、PLCC、SOP、TSOP、BGA、QFN、uBGA、PGA及FBGA，測試的IC尺寸從最小2.5*2.60mm到50.0*50.0mm，測試溫度範圍從常溫到+130°C。

YT6120 IC測試分類機的測試頭是採用旋轉式設計，機台的震動最低，具有自動校正IC測試高度的功能及提供Direct、Drop及Soft三種IC置入Socket的模式，可提高IC測試的穩定性及延長Test Socket的使用時間，提供中/英文Window人機介面及LCD觸控操作，人員方便使用。

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Specifications

Test Site	Single/Dual/Quad Site, 1*2/1*4/2*2
Pitch	(1X1、1x2 pitch80、1x4 pitch40、2x2 pitch80x60)
Applicable Device Type	QFP、LQFP、PLCC、SOP、TSOP、BGA、QFN、uBGA、PGA and FBGA
Device Size	2.5*2.60~50.0*50.0mm
Index Time	≥ 0.7 Sec.
Throughput	Device Size: 3*7.6 mm UPH Max.:8000 (Quad Sites, Device Size: 3*7.6 mm, tray:16*25) Device Size: 7*7 mm UPH Max.:7100 (Quad Sites, Device Size: 7*7 mm, tray:10*25)
Jam Rate	1/8000 (Device Size:3*7.6 mm)
Tray Type	EIA/JDEC Tray
Input Tray	Auto Input Tray:1 Empty Tray:2(可設定1個為Color Tray)
Output Tray	Auto output tray: 3 for output devices Manual Tray:3 for output devices
Binning	Max.: 6 Bins (Auto ouput Tray: 3, Manual output Tray: 3, 每個Manual output Tray可設定分割1~3 bin)
IC Contact	Direct/Drop/Soft Contact mode

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Specifications

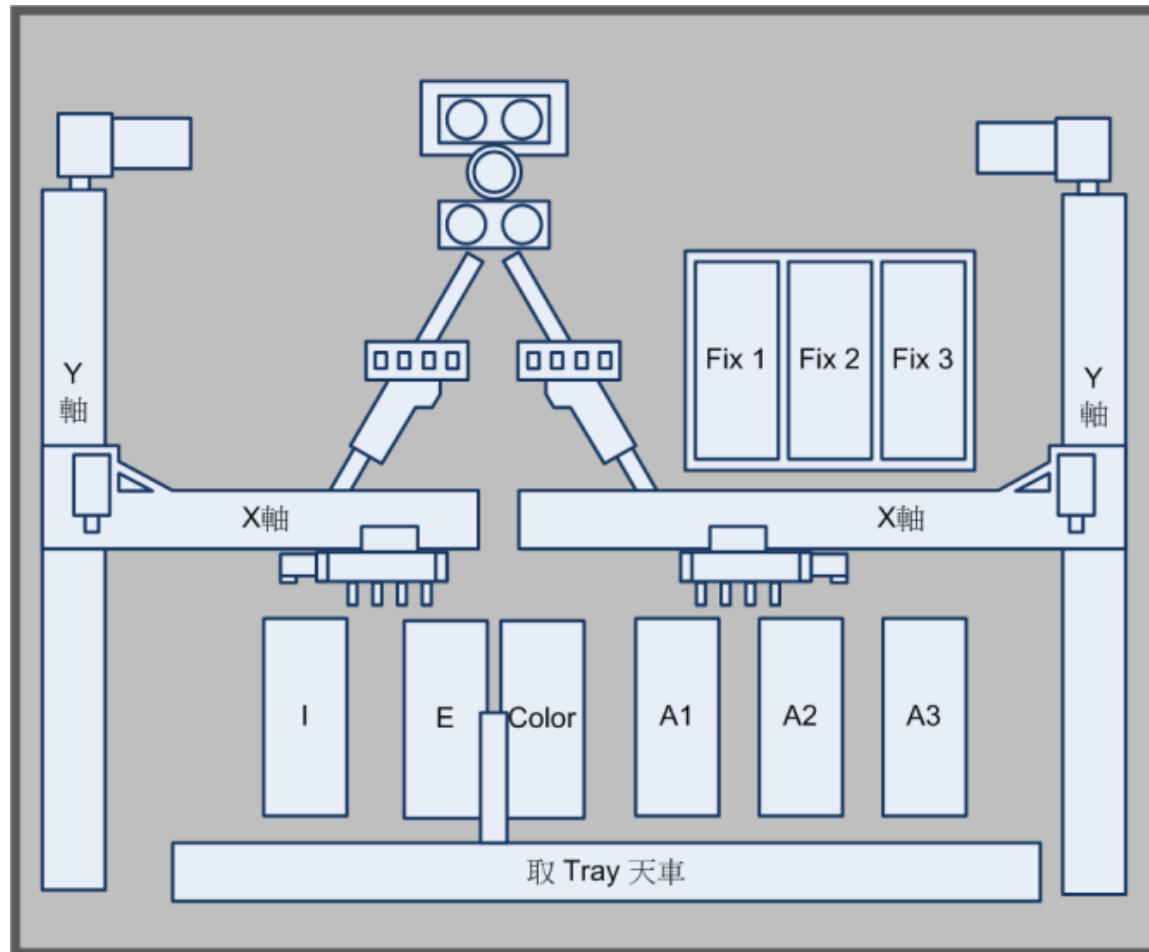
Index Arm	Rotation
Detect Shuttle IC	Vacuum Sensor
Temperature	Ambient, +50°C ~ +90°C +/- 2°C , +90°C ~ +130°C +/- 3°C (Option)
Test Interface	TTL/GPIB Interface(Standard), RS-232 Interface(option)
Operation	LCD Touch Panel, Windows 2000, 電腦螢幕裝置分為固定式和翻轉式, 讓客戶選擇
Net Weight	950KG
Dimension	1930(L)*1500(W)*2000(H) mm
Power Requirement	AC 220V/, 50~60Hz, Single Phase
Compressed Air	Dry Air of /cm ² (0.49Mpa) FLOW: 靜態250 L/min, 動態200 L/min

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Handler Layout



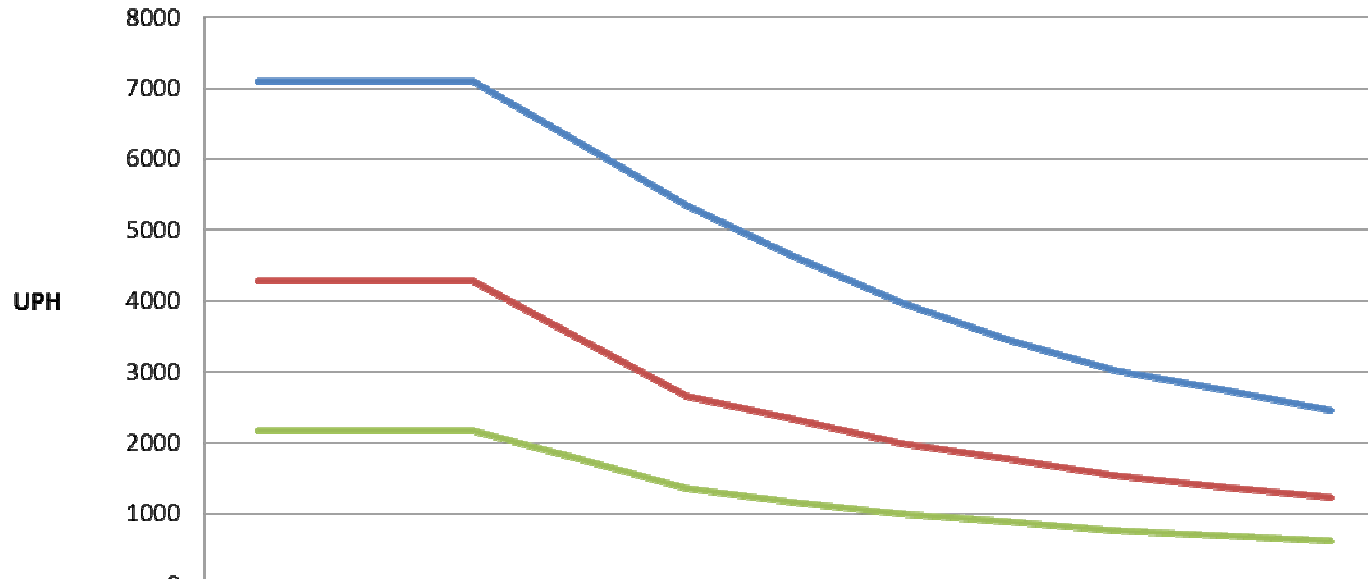
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UPH Chart

YT6120 UPH Chart (Device Size:7x7,使用模式1x4)



	0S	0.5S	1S	1.5S	2S	2.5S	3S	3.5S	4S	4.5S	5S
Quad Site	7100	7100	7100	6231	5353	4625	3984	3464	3032	2756	2457
Duel Site	4280	4280	4280	3476	2670	2335	1992	1771	1542	1387	1232
Single Site	2170	2170	2170	1770	1372	1170	996	888	772	690	617

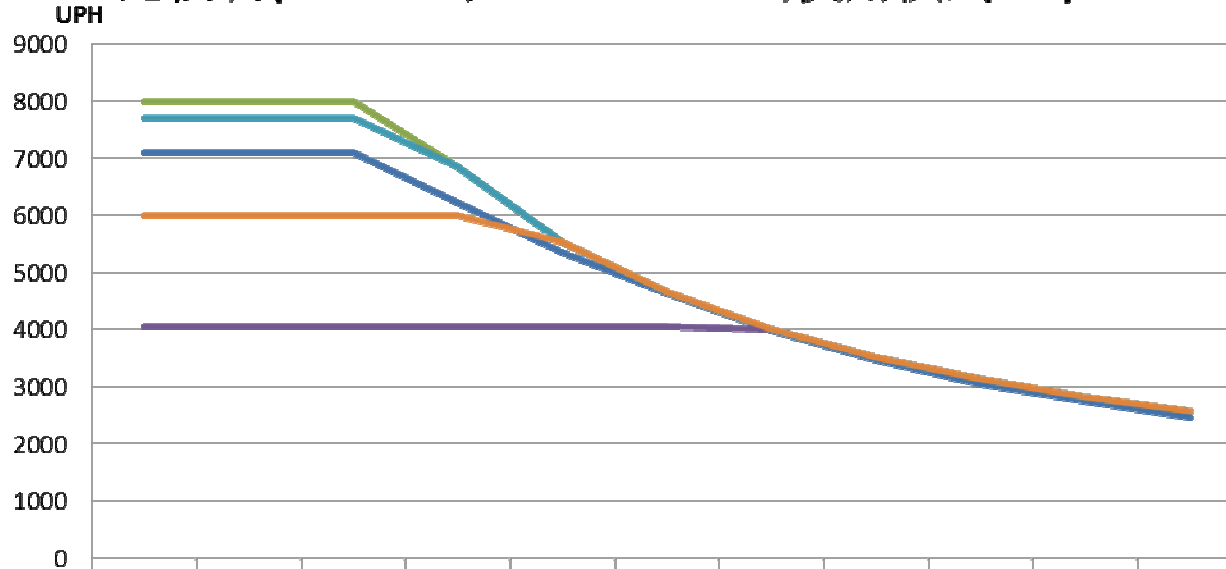
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UPH Comparison

UPH比較表 (YT6120的Device Size:7x7,使用模式1x4)



	0S	0.5S	1S	1.5S	2S	2.5S	3S	3.5S	4S	4.5S	5S
— YT6120	7100	7100	7100	6231	5353	4625	3984	3464	3032	2756	2457
— HT7045	8000	8000	8000	6857	5538	4645	4000	3512	3130	2824	2571
— NS6040	4050	4050	4050	4050	4050	4050	4000	3512	3130	2824	2571
— CRH3400	7700	7700	7700	6857	5538	4645	4000	3512	3130	2824	2571
— Chroma3160	6000	6000	6000	6000	5538	4645	4000	3512	3130	2824	2571

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Our Advantage

- 兩個Contact Blade可接受 $\pm 0.3\text{mm}$ 的高度差，故不需用墊片.
- 生產時的測試高度變化，可吸收 $\pm 0.3\text{mm}$ 的誤差.
- 機台震動力小，適合小尺寸IC測試
- 取放Tray高度 $< 90\text{CM}$
- EIAJ、JDEC的Tray都可用且不需調整參數或換Kit。
- 機台四周皆容易觀察機台運動性.
- 機台平穩測試情況下UPH $> 7\text{K}$ (TestTime $< 0.9\text{s}$)
- 可自動校正的最低力量(大約的最低Pin數)為1.2Kg/1 side Blade(40Pin/每Pin受力30g)，能增加良率，及提高稼動率.
- Shuttle IC檢知方式利用真空數位感知，可以準確感應IC存不存在或擺放不良，並無對照式Sensor高度調整不當會影響擺放良率問題
- 機台操作方式採用前後皆有操作螢幕及控制面板，提高機台操作使用性.
- Output料槽分盤具有Tray盤水平檢知功能，可防止IC Pin腳被壓損



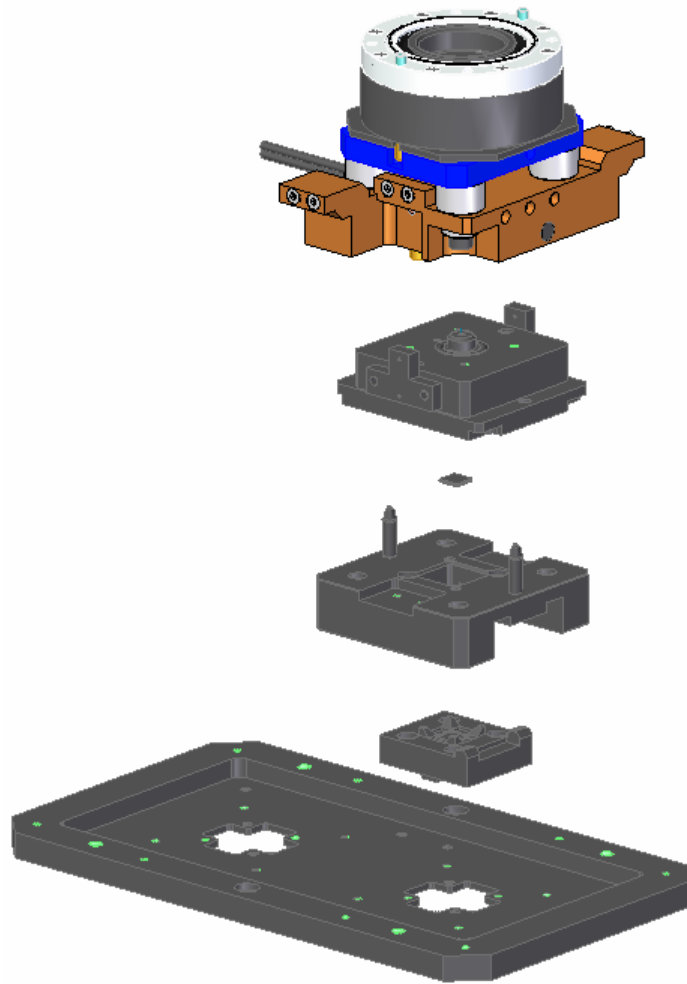
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Contact Method



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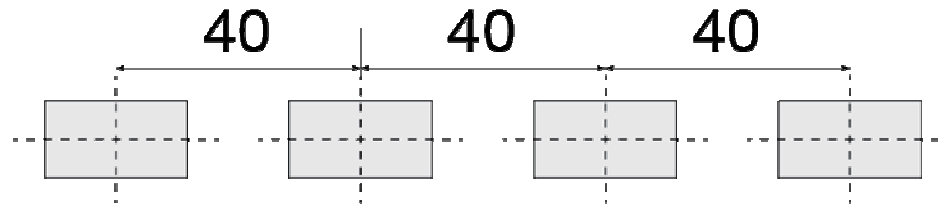
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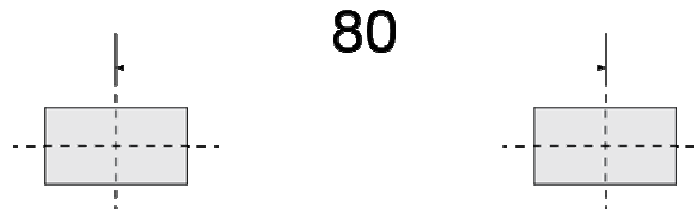
Flat Type IC測試分類機

Socket Specification

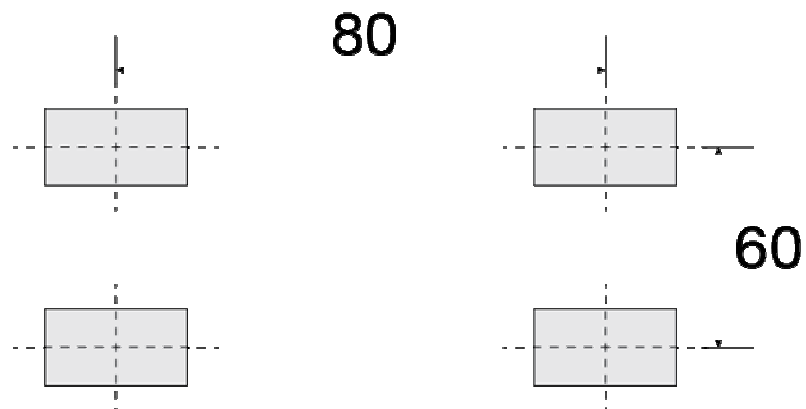
In Line 1 x 4 DUT



In Line 1 x 2 DUT



In Line 2 x 2 DUT



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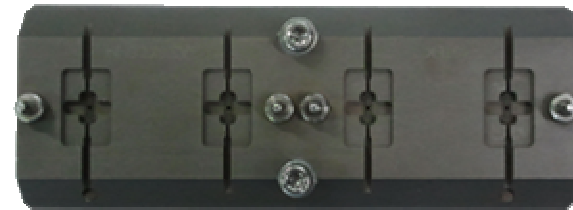
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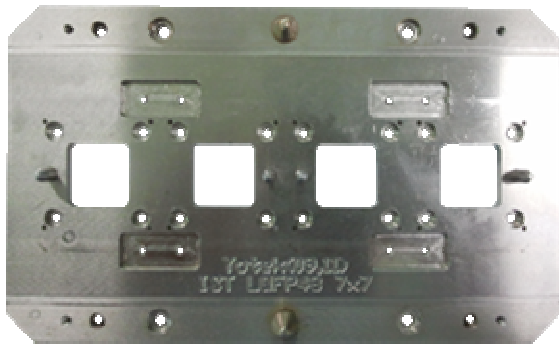
Conversion Kit 1x4



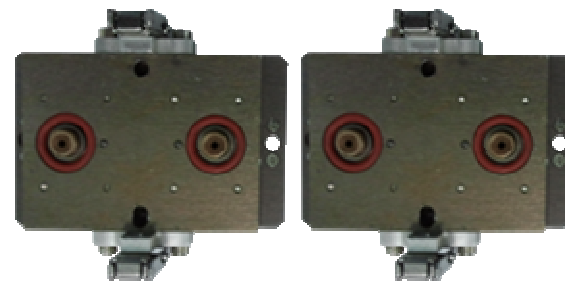
Pre-Heater



Input/Output Shuttle



Guide Plate & Socket Base



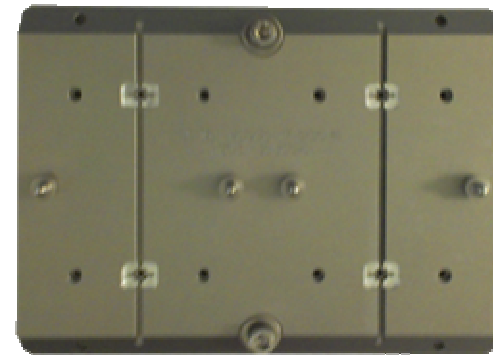
Contact Plug & Workpress

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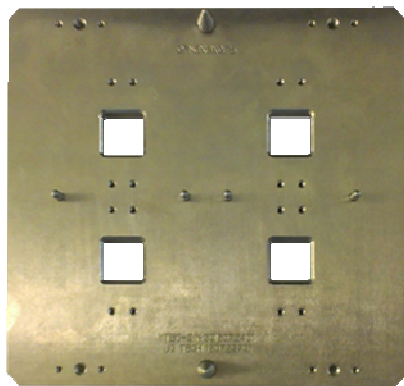
Conversion Kit 2x2



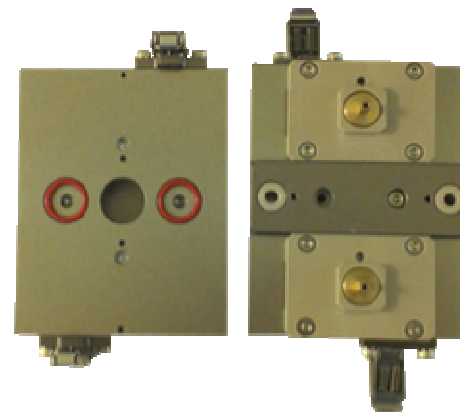
Pre-Heater



Input/Output Shuttle



Guide Plate & Socket Base



Contact Plug & Workpress

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浮動式測試頭

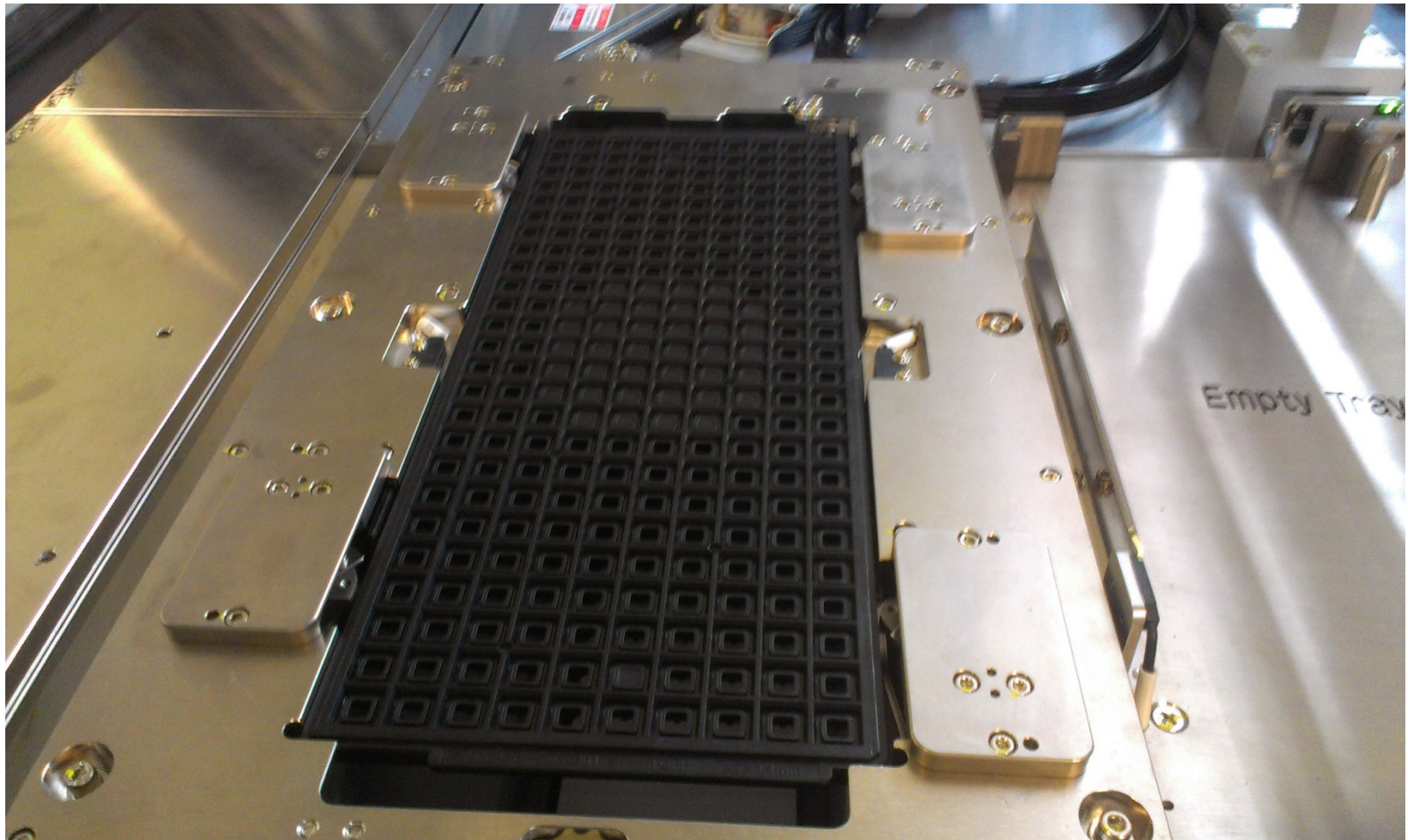


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Input Tray

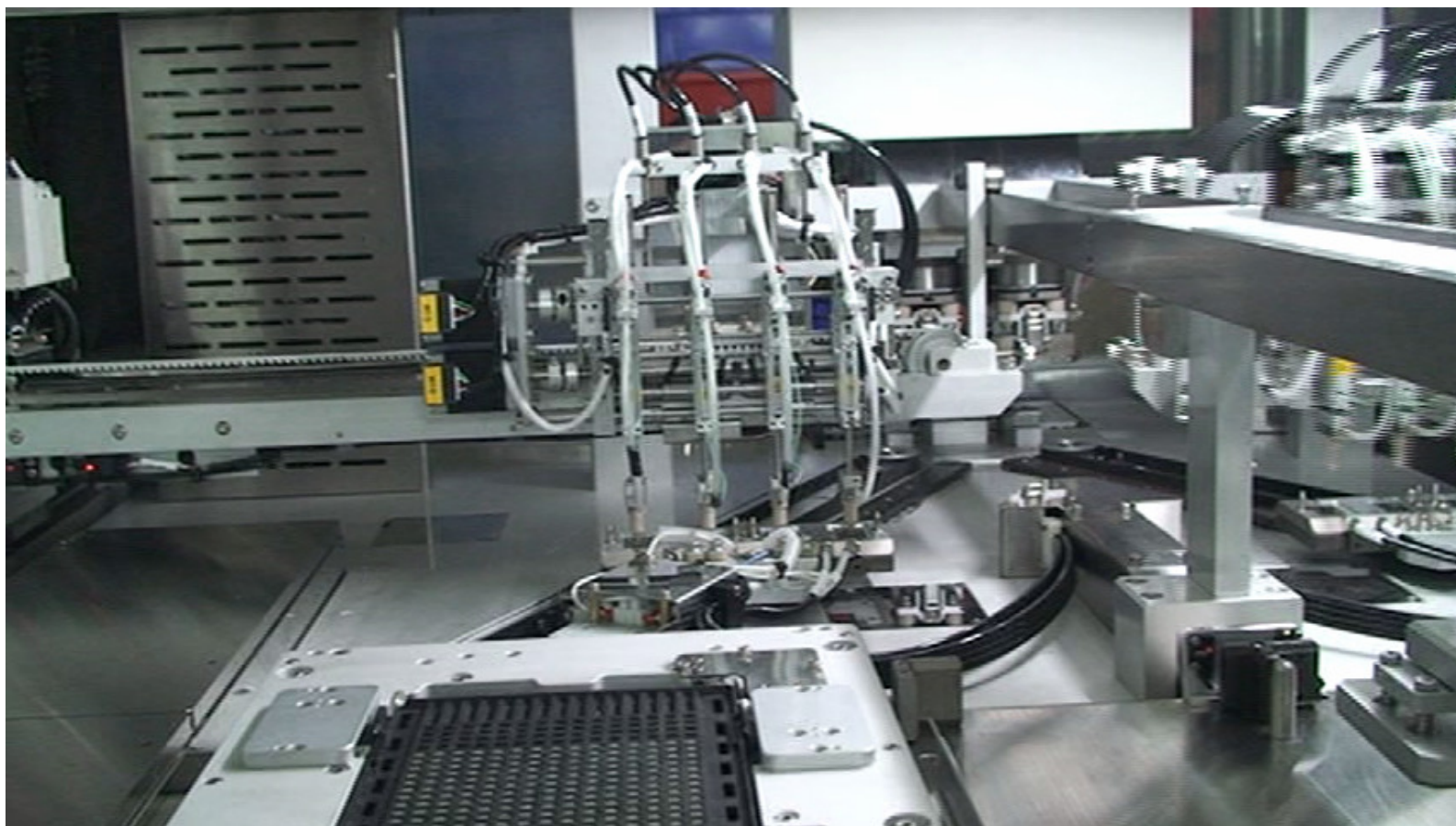


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Input Tray 取放頭





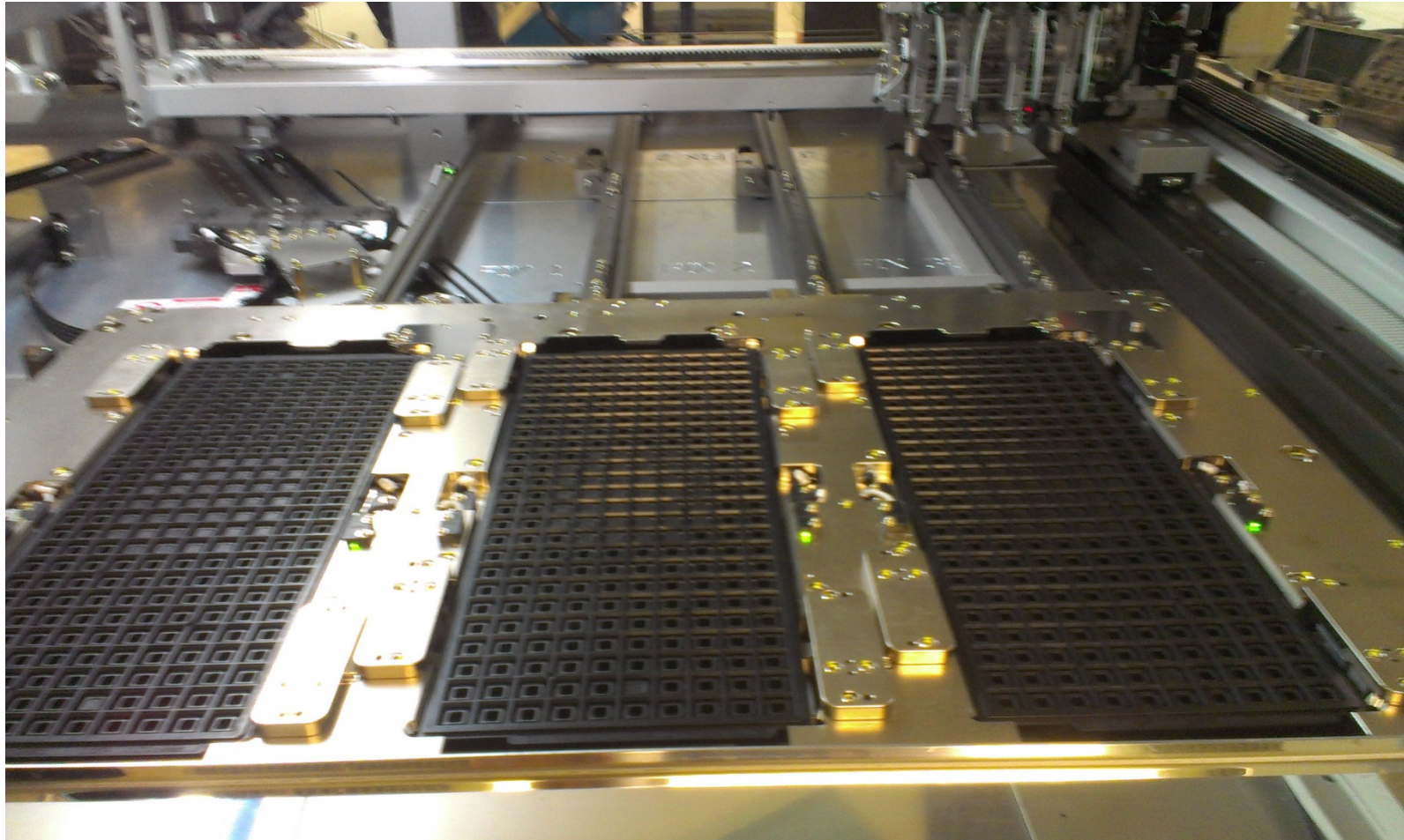
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Auto & Fix Tray



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Flat Type IC測試分類機

Empty & Color Tray



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Auto-Testing & Sorting

Flat Type IC 測試分類機

簡介結束
Thank You Very Much.

