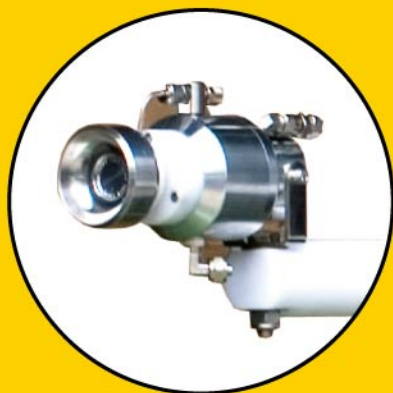


The High Application
高科技的應用方式

Electrostatic Automatic Gun Serious
液體靜電自動噴塗系統



Precise 精確的
Robust 堅固耐用的
Reliable 可信賴的



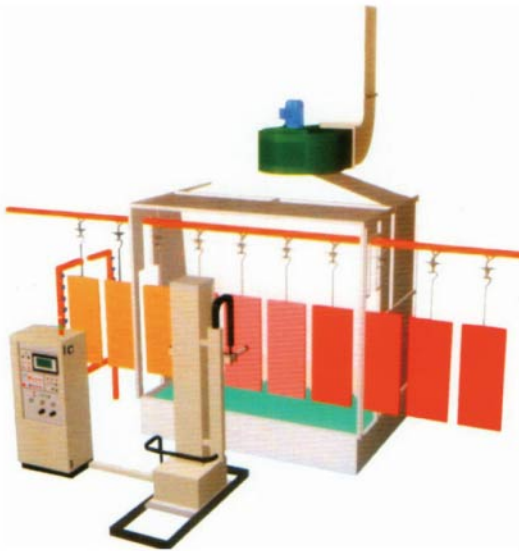
· **Powder coating system**
粉體塗裝設備
· **Air powered pump**
工業用氣動噴塗泵浦系列

· **Wet electrostatic coating system**
液體塗裝設備

· **Plural-component dispensing product**
單液/兩液/多液式灌封，接著設備

Bell Atomizer Electrostatic Automatic Coating System

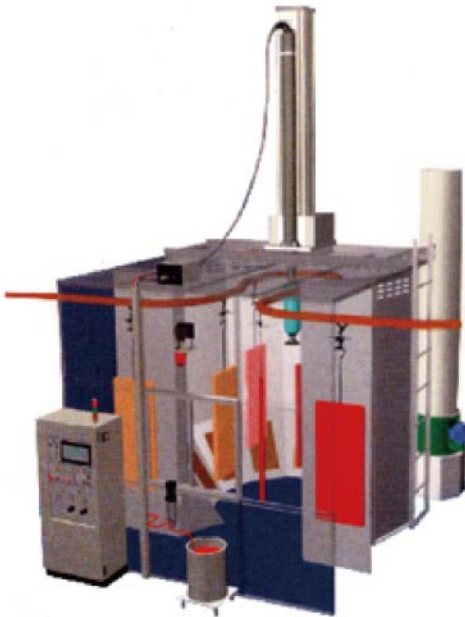
旋杯式靜電自動噴塗系統



- High speed bell produce optimum atomization
- High transfer efficiency
- Lower spray booth maintenance cost
- Lower spray booth air velocity
- High paint saving gives rapid return on capital investment
- Less pre and past spray needed due to wrap around affection
- Twister type for coating angular and sharp-edge work pieces
- 高轉速將塗料微粒化
- 塗裝附著效率高
- 減低噴房維護成本負擔
- 減低噴房排氣風速
- 減低噴塗中的塗料浪費，快速回收投資成本
- 減少提前開槍與延遲關槍，靜電包覆效果佳
- 旋風式旋杯可克服複雜型工件，將大部份角落噴入

Disk Atomizer Electrostatic Automatic Coating System

圓盤式靜電自動噴塗系統



- High speed turbine coater creates optimum paint atomization of even higher solid coatings
- Directional air flow and electrostatic produce high quality coverage and minimize paint waste
- The total enclosure of the disk sprayer simplifies cleaning of atomizer and ensures a consistently high quality of coating result.
- The compact design of disk system permits removal of all enclosure elements for optimum access and convenient maintenance
- 高速旋轉使塗料微粒化進而達到高品質霧化塗裝效果
- 塗料經圓盤高品質霧化後再加上靜電效果，使塗料包覆被塗物，可節省塗
- 所有機件完全包覆在殼內使清潔容易，清潔及霧化風壓順暢更符合高品質的噴塗作業
- 機件組合式設計，拆解容易，保養簡單

Flow Type Conveyor Spraying System

平面式輸送噴塗系統



- Short total length of conveyor
- Coating width infinitely variable high surface capacity
- Elevation velocity of spraying axis
- Spray system can be applied with conventional air spray gun, airless gun, aircoat gun or electrostatic coating system...etc.
- 平面式噴塗系統將可縮短輸送機長度
- 可噴塗大面積的被塗物
- 可搭配多軸式自動化噴塗設備
- 噴塗系統可選擇空氣霧化噴槍，無氣式噴槍，混氣式噴槍與靜電塗裝系統等多種應用方式

Rotary Electrostatic Automatic Atomizer Gun (Patented)

旋風式旋杯靜電自動噴槍 (專利)

回転カップ型静電塗装機 F-3000-C 型 (特許)

主な用途	Area of use	主要應用
金属塗装	metal	金属塗装
木工塗装	wood	木器塗装
プラスチック塗装	plastic	塑膠塗装
適用塗料	Paint application	適用塗料
メラミン	Melamine	胺型塗料
アクリル	Acrylic	烯酸型塗料
水性	Water base	水系塗料
ハイソリッド	High solid	高固成份塗料
メタリック	Metallic	金属塗料

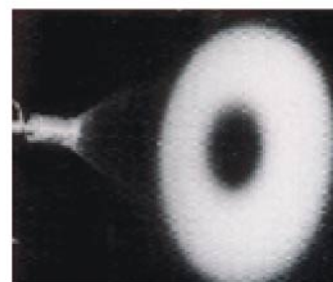
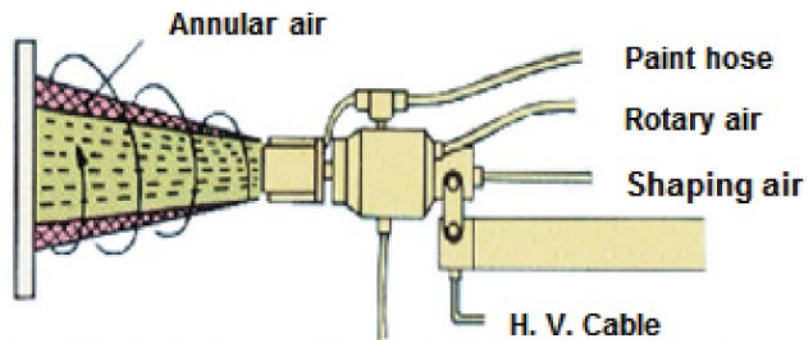
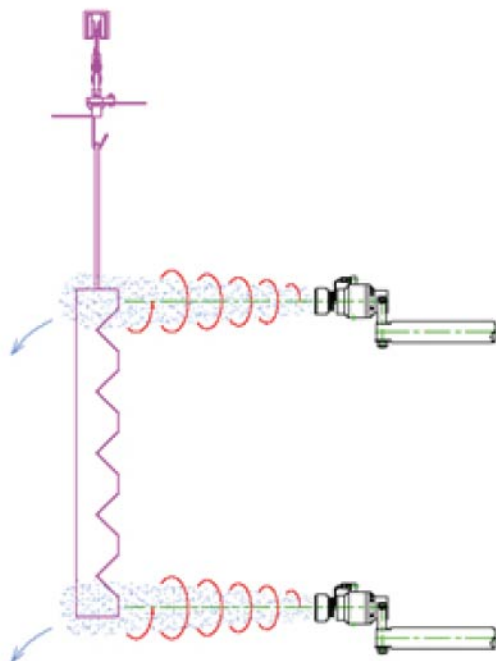
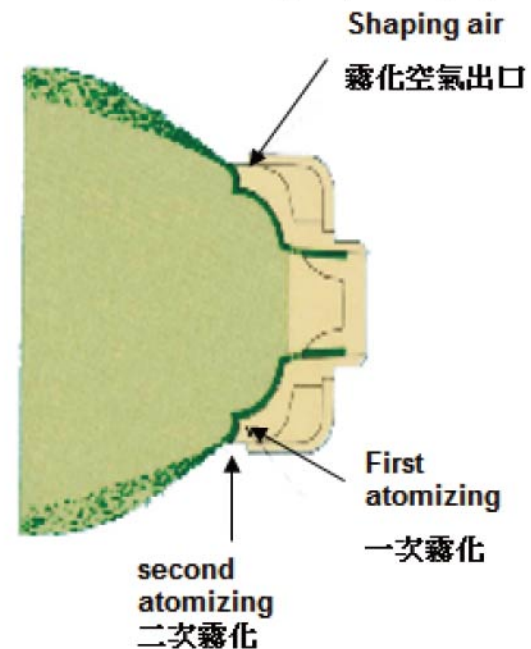


特長

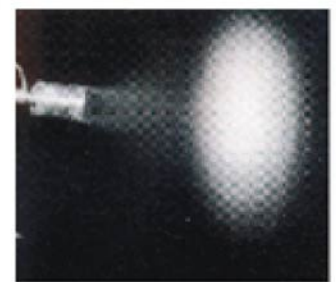
- 塗料の塗着効率が良い**
 塗料を高速回転と静電気で微粒化し、静電気ので塗着させますので塗着効率は85%と非常に高くなります。
- 補正塗り作業が減少します**
 シェービングエア効果と高速回転による微粒化が凹部などへの塗料の入り込み性や囲い込み効果がよく補正塗り作業の時間が削減できます。
- 自動塗装に最適**
 自動制御システム組込みによる無人化が可能です。
- 最高の霧化性能**
 水性塗料、ハイソリッド型塗料を非常によく微粒化しますので一般工業塗料と同じ様に使用できます。
- 塗装附着效率高**
 利用旋風霧化加上静電効果將塗料微粒化，超高塗装附着效率。
- 降低人工補正作業**
 微粒化塗料被旋風力量推出，提高噴入凹槽的機率，並兼顧包圍效果。
- 自動化模組**
 可搭配自動化功能，以無人化生產為最大的可能性目標規劃。
- 最佳的霧化性能**
 特殊塗料，一般工業塗料都能將塗料微粒化，歡迎至實驗室試噴研究。

ダブル霧化タイプ (新型カップ)

Double atomization type (new type)



Old type 舊式



New twister type 旋風式

Rotary Electrostatic Automatic Atomizer Gun

F-3000-C 型 旋風式旋杯靜電塗裝機

F-3000-C 型 カップ型靜電塗裝機



Specification 仕様

Model	型式	F-3000-C
Turbine speed	回轉數	1500-2000rpm
Shaping A. consumption	消費量	80-250NI/min
Rotary A. consumption	消費量	50-200NI/min
Paint fluid	吐油量	400cc/min Max
Dimension	寸法	650 × Φ100mm
Weight	重量	4 kg

The centrifugal force of new type air cup and bell cup enable superior atomization that offers high quality finish coatings.

The new type bell cups offers superior transfer efficiency that reduce paint consumption and improve the environment of coating line.

空氣霧化旋杯和噴塗旋杯使提供進階優勢的霧化效果，完美新型的離心力霧化，達到最高階品質的塗裝表面。新型旋杯提供超高的附著效率，降低塗料消耗，並且能兼顧環境保護議題，達到降低能源，資源消耗目標。

Bell Cups

旋風式旋杯

ヘッド(塗裝カップ)

被塗物に合わせて、大きさや形状の異なった各種塗裝カップを製作しております。

Atomizer cups are available in several size and styles to optimize atomizer performance based on coating type, part profile and finish requirement.

霧化旋杯基於不同的工件型狀，塗料性質，噴塗需求，提供幾種尺寸和樣式，以達成優化噴塗品質與環保的需求。



BE-60



BL-60



BE-45

The Pneumatic High Speed Disk Atomizer

氣動式圓盤型高速霧化系統

The DISK system is suitable for high volume production coating application with geometrical dimensions allowing guidance on an almost circular path around the DISK coating system.

DISK 靜電塗裝系統適用於大批量的生產條件，尤其針對立體多邊型狀的被塗物，被塗物環狀包圍在 DISK Ω 噴房周圍，讓噴塗系統進行噴塗作業可大量節省塗料。

Specification 仕様

Model	型式	D001-100
Disk diameter	霧化盤尺寸	100mm/170mm/230mm
Turbine speed	迴轉速	5000-30000rpm
Operating voltage	使用電壓	30-90KV
A. consumption	空氣消耗	500-1200NI/min
Paint fluid	吐油量	1120cc/min Max
Atomizer dimension	霧化頭尺寸	L750 × Φ200mm
RCP speed	昇降機速度	5-36M/min
RCP stroke	昇降機行程	1200mm(standard)



High Voltage Generator HVC 9003

高壓靜電發生裝置 HVC 9003

- adjustable out voltage
- Integral ammeter
- voltage stabilizing circuitry
- Light Emitting Diodes (LED)
- current limited
- 操作人員可輕易視噴塗需求調整電壓
- 面板上清楚顯示電壓與電流
- 穩定與持續的輸出電壓與電流
- LED燈號清楚顯示
- 電流超過安全值，啟動高速遮斷安全迴路



Specification 仕様

Dimension of HVC	寸法, HVC	W240×D230×H190mm
Input voltage	入力電	220VAC, 50/60Hz
Output voltage	使用電壓	10-90KV
Short circuit current	電流	150microamperes
Environment	週圍溫度	10°C-50°C

Gear Pump

塗料齒輪泵浦

Parts No. YSG-002 (1.5 c.c./rev.)

YSG-003 (3.0 c.c./rev.) 標準

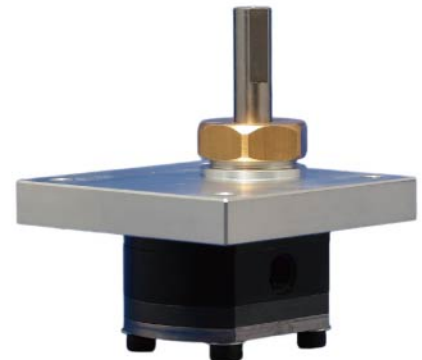
YSG-004 (5.0 c.c./rev.)

Specification 仕様

Outlet port size	出口接頭	3/8" PT
Inlet port size	入口接頭	3/8" PT
Dry weight	重量	2000g
Length	長	69mm
Width	寬	69mm
Height	高	144mm
Metal application	木器工業	YSG
Wood application	金屬工業	PSG



YSG for metal



PSG for wood

Paint Supply Equipment

電動塗料齒輪

Featuring stable paint delivery even when any changing in coating condition such as kind and viscosity of paint etc. and therefore automatic control is very much easy.

即使當在任何種類和黏度塗料，或是更換塗料顏色等等，齒輪泵浦總是能穩定輸出的塗料供應，在自動噴塗中容易控制膜厚。

Specification 仕様

Motor rating	馬力	120W
Utility	入力電	220V, 50/60Hz
Fluid output	吐出量	200-540cc/min
Gear reducer	減速機比	10:1 標準



Standard Valve Block

標準式塗料 2方閥 / 3方閥

The modular design allows for the changing needs of fluid supply systems. Valve assemblies consist of modular blocks which can easily be expanded. In addition, these same valves are used for rotary atomizer triggering and dump function, thus simplifying maintenance.

標準化的設計考慮到各種塗料流體的供應系統的需要，閥門組件由模組標準化組成容易延伸擴充，另外，這些相同的閥門也應用於旋杯靜電噴槍開關與沖洗功能，維修容易。

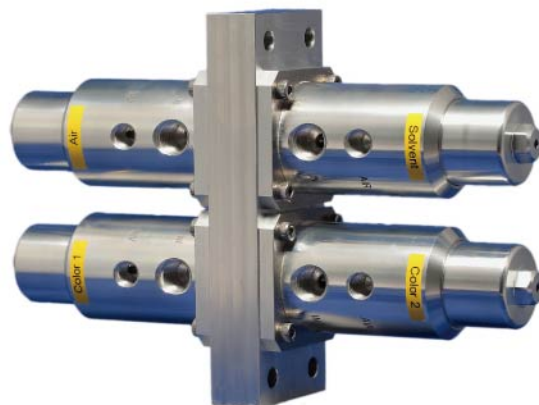
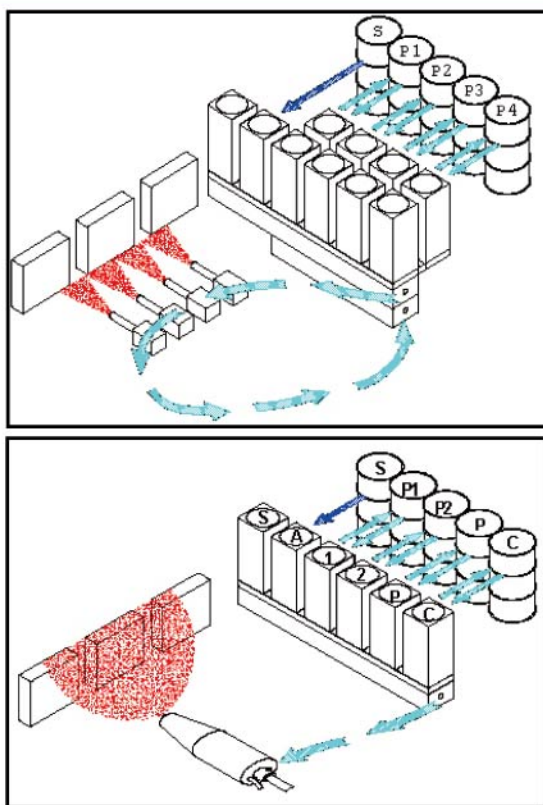


Specification 仕様

Model	型式	CCV-02
Air pressure	空氣壓力	3.5-5.0kg/cm ²
Paint pressure	塗料壓力	0.2-3.0kg/cm ²
Fluid output	吐出量	20-800cc/min
Connector	轉接頭	1/4"PT

Color Changing Valve

模組化塗料換色組合



Smart Controller

人機觸控, 控制盤

With Smart Controller you have the complete coating system in control. Even complex control relationships can be easily operated without complications via the touch screen. From simple operation to parameterization, exact trouble shooting through to data save and process data recording, the system provides it all at a glance.

操作人員透過聰明的控制達到完整的噴塗功能。即使在複雜的控制關係也能容易透過觸控幕操作。從簡單的操作到參數表示，故障診斷，數據儲存和數據系統全部顯示，隨時監看。

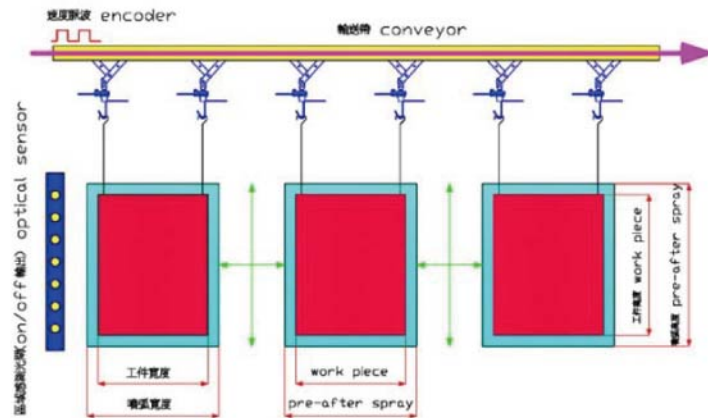


Gap Controller

間隔控制系統

Ensure that spraying only occurs when there is a work piece in front of the gun. The paint feed is switched off in the gaps. Controller is possible to define a pre or after spray distance.

當工件抵達在槍的前面時，噴槍啟動噴塗作業，塗料供應在沒有工件的間隔中停止噴塗，操作控制人員可以預設定提前啟動噴塗或延遲停止噴塗的距離。

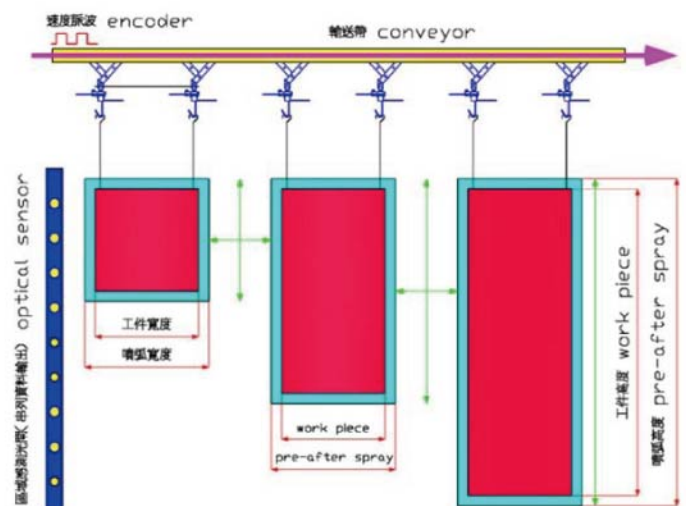


Height Controller

高度控制系統

The height controller is used with guns for coating components of varying height. Here the stroke remains constant. The sequence and the gap between parts of different height can be freely selected. The outline of the work piece is scanned by means of optical sensor.

高度控制模組用於自動判別工件的高度噴塗作業，但是塗裝往復機的行程保持不變，在不同的工件高度順序進入噴塗區域模組會啟動自動判別，工件高度的輪廓透過光柵或整排的光電開關掃描，進行PLC演算。

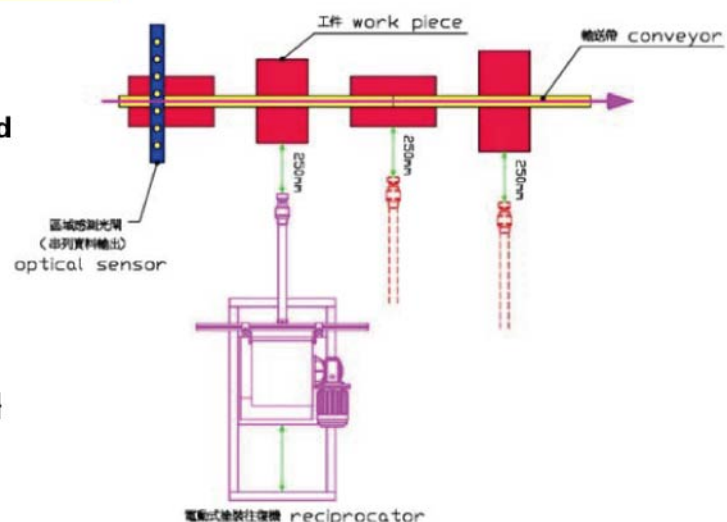


Depth Controller

深度控制系統

The automatic depth controller is recommended for production runs with work piece of different depths. The depth of the components is recorded immediately they enter the booth, using horizontal optical sensor, and passed on to the depth Control module.

自動深度控制系統建議使用在生產線上吊掛不同的深度的工件，不同的深度零部件在進入噴房之前立即被記錄登錄進行PLC演算，透過水平式光柵或整排的光電開關掃描並且轉交給深度控制系統與PLC溝通。



Reciprocator

電動式塗裝往復機

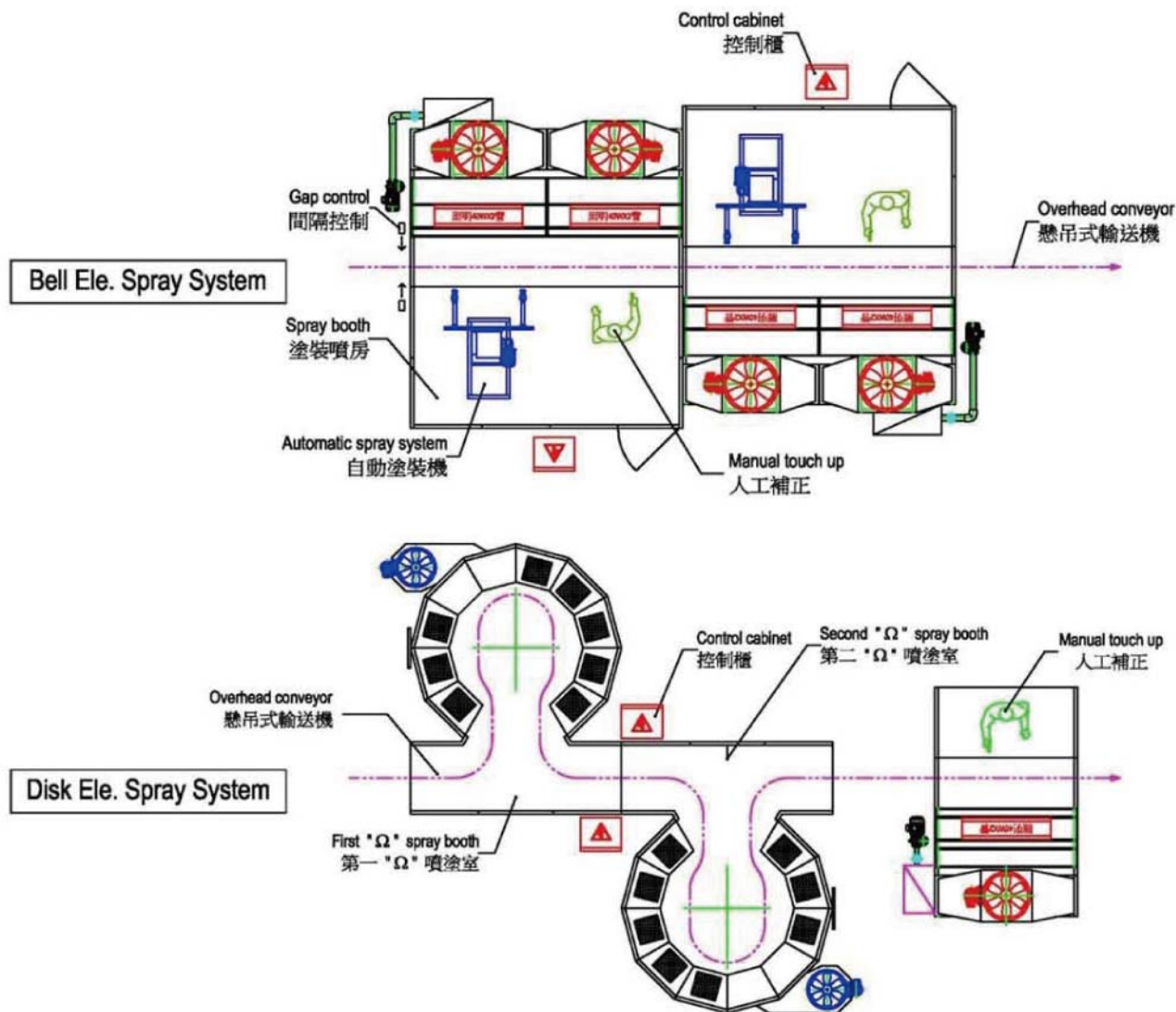
The automatic electric reciprocator is subjected to constant loading, therefore the reliability and robustness of the reciprocator mechanism is of particular importance. The electronic controller offers the latest movement technology for high application requirement and on optimal surface finish.

往復機能接受常時裝載運轉，因此往復機的可靠性和穩定性具有特別的重要性。電控制系統為最高科技的應用要求提供最新的控制技術。達成最佳的塗裝表面噴塗作業。



Specification 仕様

Motor rating	馬力	1 HP
Utility	入力電	220V, 50/60Hz
RCP speed	移動速度	40M/min(標準)
RCP stroke	移動行程	300mm-1500mm
Max. RCP loading	裝載重量	15kg



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