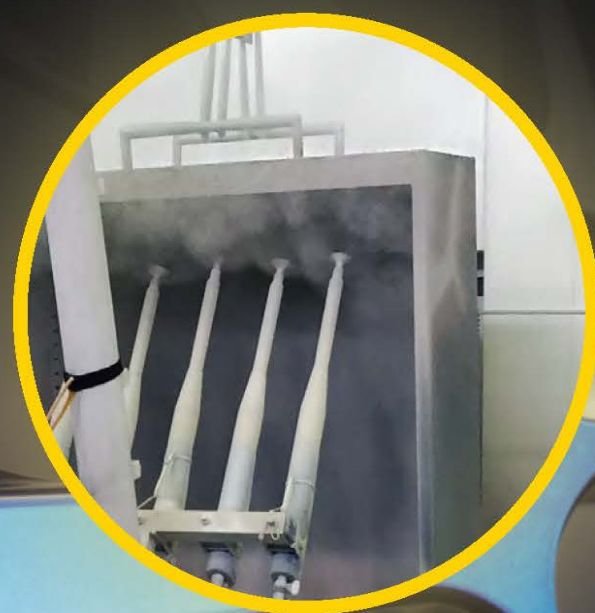


春泰機械

Industrial Solutions

高品質 自動化塗裝科技

- 自動化塗裝系統
- 粉體、液體噴房
- 粉體、液體噴槍系統
- 塗料輸送泵浦
- 空汙防治設備RTO



春泰公司概要 company profile

公司名稱:春泰機械工程有限公司

Company name: Fuspec Taiwan Pty.,

設立:1973年

established: 1973

資本金:US\$ 700,000

capital: US\$ 700,000

代表者:傅春福

president: Frank FU

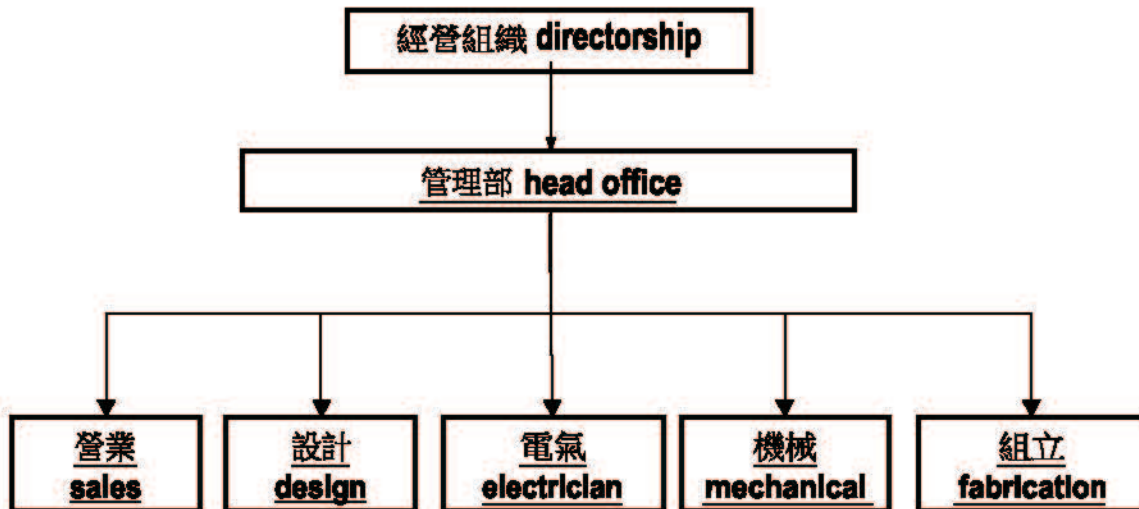
從業員:台灣20名、中國大陸15名

employer: Taiwan 20, China 15

取引銀行:玉山銀行

banking: E. Sun Bank

台灣春泰機械工程有限公司組織圖 organization



春泰公司實景 factory view



會議室 Meeting room



辦公室 Office



實驗室 Laboratory



工廠 Factory

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1. 粉體噴房 E-Line 系列

Perfect combination for best results 完美的組合作為最好的結果

The WAGNER E-Line application solution offers the best quality, with all WAGNER components combined in one economic coating system. 華格納 E-Line 系列應用提供最佳品質，藉由所有華格納設備系統被聯合整合設計經濟型噴塗設備。



增加回收率與最小壓力損失
高效率能區片管幫助高效率的氣流的回收與過濾

最理想的應用設備
有我們的新噴塗噴嘴主要的噴塗系統，可確保您的自動噴塗機 (EAC) 精密的密封，並 (EAS) 與精密的自動注漿機。

最好的氣流和最佳的傳遞效率
特別 PVC 噴塗機而且用華格的掃地機設計，內部的可學數化，讓工頭引導著來回較運用效率。

合理入門的投資費用
優良的產品價值，超值的 PXE 功能表現。

減少電力消耗量
由於系統氣流改良的二部區區，僅僅使用比較少的能量消耗。

EPP - Energy Efficiency Package
我們的 EEP 方案 (專利) 提供為最高效率的質量，材料消耗量較低和更堅固的噴塗機。

- 節省接近 40% 的能量消費和運輸成本
- 減少粉體塗料和粉體在濾網和濾網內，也減少粉體塗料的乾濕消耗。
- 最優的產量穩定性

| 排氣部型式 | 實型式 | 新 EEP 方案 |
|-------------|------|----------|
| 12,500 m³/h | 393W | 154W |
| 15,000 m³/h | 375W | 376W |



Simulation of powder flow
粉體塗料量流動模擬



Conventional technology
一般常用技術

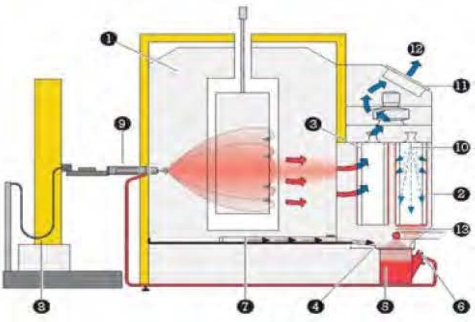
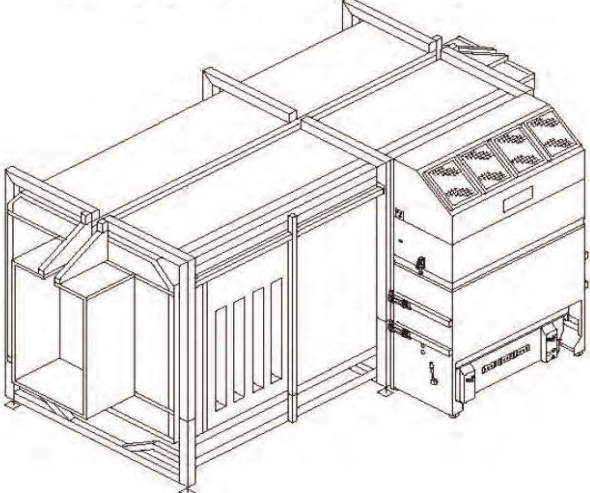


New EEP technology
新 EEP 科技

2. 粉體噴房 ICF 系列

ICF filter booths

ICF Integral Compact Filter stainless steel filter booths are designed for automatic powder coating and manual coating. Paint changes can be undertaken by changing the powder and filter trolley.



1. 粉體塗裝噴房
2. 卡匣式
3. 過濾管
4. 振動篩粉
5. 儲粉桶
6. 塗料泵浦
7. 特殊裝置
8. 自動往覆機
9. 自動噴槍系統
10. 逆洗裝置
11. 最後濾網
12. 室內排氣
13. 特殊裝置

3. 粉體自動噴槍系統 PEA 系列

Powder set/Spraypack automatic

Powder sets consist of the core components of application equipment, namely a control unit, guns, feed system and connection components.



Corona automatic guns

Corona automatic guns for automatic powder coating.



4. 粉體塗裝系統 powder center, RCP, lab gun, booth, CCM



5. 粉體手動噴槍系統, 振動台車式 Manual System Sprint Airfluid



PEM-X1 Manual Gun 粉體手持靜電噴槍
EPG-Sprint X Controller X系列控制器
PI-F1 Injector 粉體塗料泵浦 PI-F1
11mm PH 特殊塗料管 ID11mm, 5ML
Gun & Hose holder 噴槍架, 管路架

6. 粉體手動噴槍系統, 粉桶台車式 Manual System Sprint 60L



PEM-X1 Manual Gun 粉體手持靜電噴槍
EPG-Sprint X Controller X系列控制器
PI-F1 Injector 粉體塗料泵浦 PI-F1
11mm PH 特殊塗料管 ID11mm, 5ML
Gun & Hose holder 噴槍架, 管路架

7. 兩液型自動化噴塗系統 2K comfort



| Characteristics | Values |
|------------------------|---|
| Mixing accuracy | ± 1% |
| Mixing ratio | 0.1 : 1 - 50 : 1 |
| Material pressure | Max. 325 / 530bar ¹ |
| Flow | 50 - 7000 cc/min ² |
| Components A | Max. 25 |
| Components B | Max. 10 |
| Components C | Max. 10 |
| Components D | Max. 10 |
| Flushing agent A | 10 |
| Flushing agent B | 5 |
| Flushing agent C | 5 |
| Flushing agent D | 5 |
| Guns | Max. 4 |
| Material temperature | + 5 °C - + 60 °C ; +41 °F - +140 °F |
| Material viscosity | 20 - 2200 mPas, depending on the flow meter |
| Workable materials | Water and solvent-based materials |
| Workable components | 2K, 3K, and 4K |
| Dimensions (W x H x D) | Wall mount: 950 x 1700 x 350 mm Stand: 980 x 2010 x 580 mm |

8. 水性靜電自動化噴塗系統 AquaCost

1. 傑出的應用方案效率

The manual guns are designed for most water-based products with a specific resistance of the spray material of between 1kΩ-cm and 1MΩ-cm. The guns are fitted with a special, permanently connected product hose and offer a soft and homogenous spray jet for maximum coating quality and excellent application efficiency.

2. 多樣化的塗料儲存槽

Two sizes of cabinet are available with the new generation of AquaCoat systems. The slim basic AquaCoat 5010 device is suited to areas with little available space. The wide basic AquaCoat 5020 device provides considerably more space for larger tanks, possible extensions, and increased freedom of movement in the cabinet during maintenance work.

3. 可目視內部狀態, 或選擇塗料液位警報

All control and operating elements of the AquaCoat system are easy to access from outside centrally on the control unit. As an option, the cabinets are available with a window for checking the level of the separating agent / paint container.

4. 最高等級的安全防護系統

During application, access to the interior of the system is blocked mechanically. The most important safety systems are duplicated (redundant) and thus provide optimal user protection.

5. 快速換色, 適合多色噴塗

The large door provides easy access to the paint supply and enables quick topping up or paint changes.



9. 溶劑型/水性靜電自動化噴塗系統 GA 5000 + EPG 5000



| GA 5000 | GA 5000EA | GA 5000EAW | GA 5000 EAC | GA 5000EACW |
|----------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------------------|
| Output voltage | 80 KV | 80 KV | 80 KV | 80 KV |
| Output Current | 100 μA | 125 μA | 100 μA | 100 μA |
| Max air pressure | 8 bar | 8 bar | 8 bar | 8bar |
| Max material pressure | 8 bar | 8 bar | 250 bar | 250 bar |
| Length | 272 mm | 272 mm | 290 mm | 290 mm |
| Width | 74 mm | 74 mm | 74 mm | 74 mm |
| Height | 135 mm | 135 mm | 135 mm | 135 mm |
| Material connection | G ¾" | | NPS ¾" | |
| Atomisation air connection | D10 | D10 | D10 | D10 |
| Shaping air connection | -*/D8 | -*/D8 | -*/D8 | -*/D8 |
| Control air connection | D6 | D6 | D6 | D6 |
| Weight | 1,2 kg | 1 kg | 1,2 kg | 1 kg |
| Operating temperature | 0 °C - 40 °C 32 °F - 104 °F | 0 °C - 40 °C 32 °F - 104 °F | 0 °C - 40 °C 32 °F - 104 °F | 0 °C - 40 °C 32 °F - 104 °F |
| Max material temperature | 50 °C 122 °F | 50 °C 122 °F | 50 °C 122 °F | 50 °C 122 °F |



10. 溶劑型/水性靜電手動噴塗系統 GM 5000 + VM5000



- High voltage I/O 高壓靜電 I/O
- Ground monitoring 接地監控
- Atex Zone 2 (Spraypack-compatible) 防爆等級
- Variable voltage and current adjustments 調整電流, 電壓
- Recipe selection/store 記憶參數組, 選擇/記憶
- Monitoring working voltage & current (LED & Numeric display) LED 顯示
- Servicetime / interval setting 使用時間/保養時間 設定
- Communication interface (In out for current and voltage, error and reset signals, grounding and ok for HV when flushing is finished) 通信界面 (無電流電壓, 復歸異常信號, 接地檢知, 沖洗時關閉 HV)

11. 靜電自動化噴塗系統旋杯 Bell

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 | 1500-20000rpm |
| Shaping A. consumption | 消費量 | 80-250Nl/min |
| Rotary A. consumption | 消費量 | 50-200Nl/min |
| Paint fluid | 吐油量 | 400cc/min Max |
| Dimension | 寸法 | 650 × Φ100mm |
| Weight | 重量 | 4 kg |

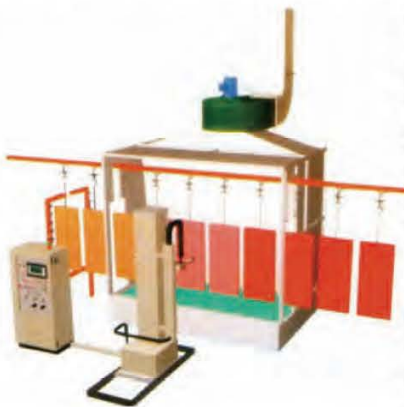
The centrifugal force of new type air cup and bell cup enable superior atomization that offers high quality finish coatings.

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 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

12. 靜電自動化噴塗系統 DISK

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 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 | 500-1200Nl/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) |

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

13. 粉、液體塗裝用機器人 ABB robot



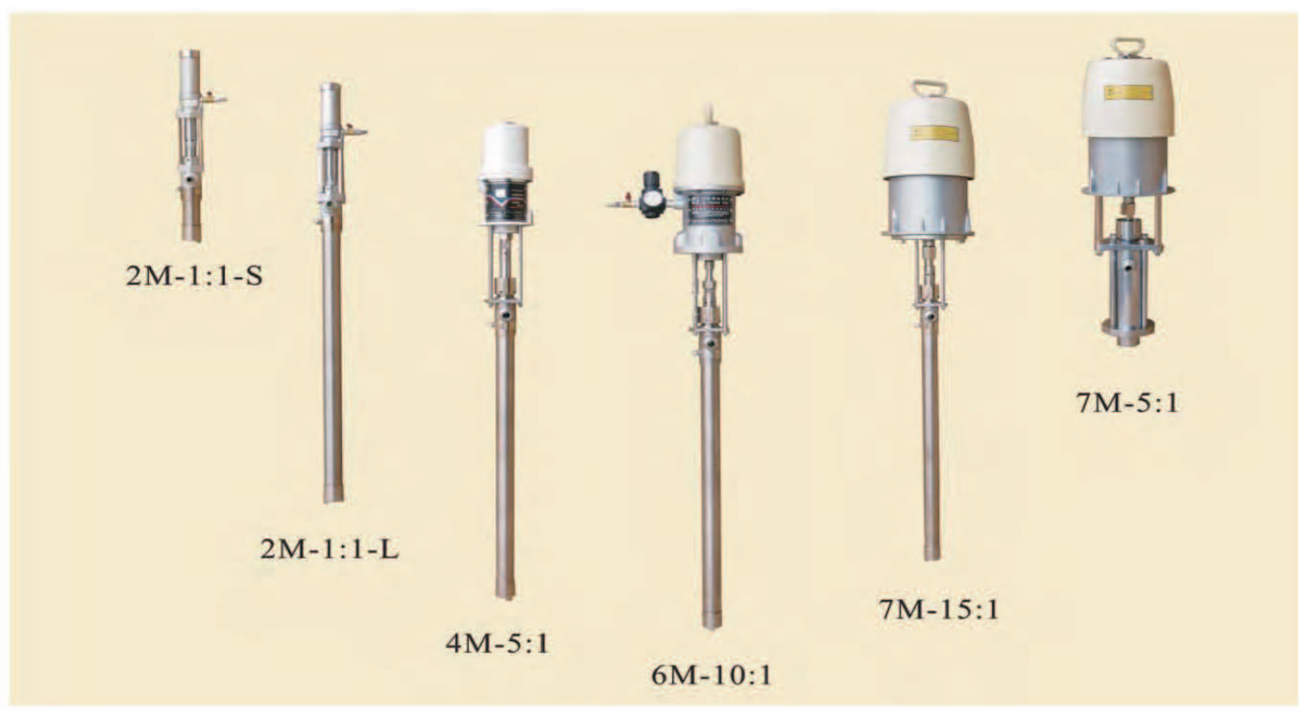
14. PCS 塗料供應巡循環泵浦系列, 工程設計, 規劃



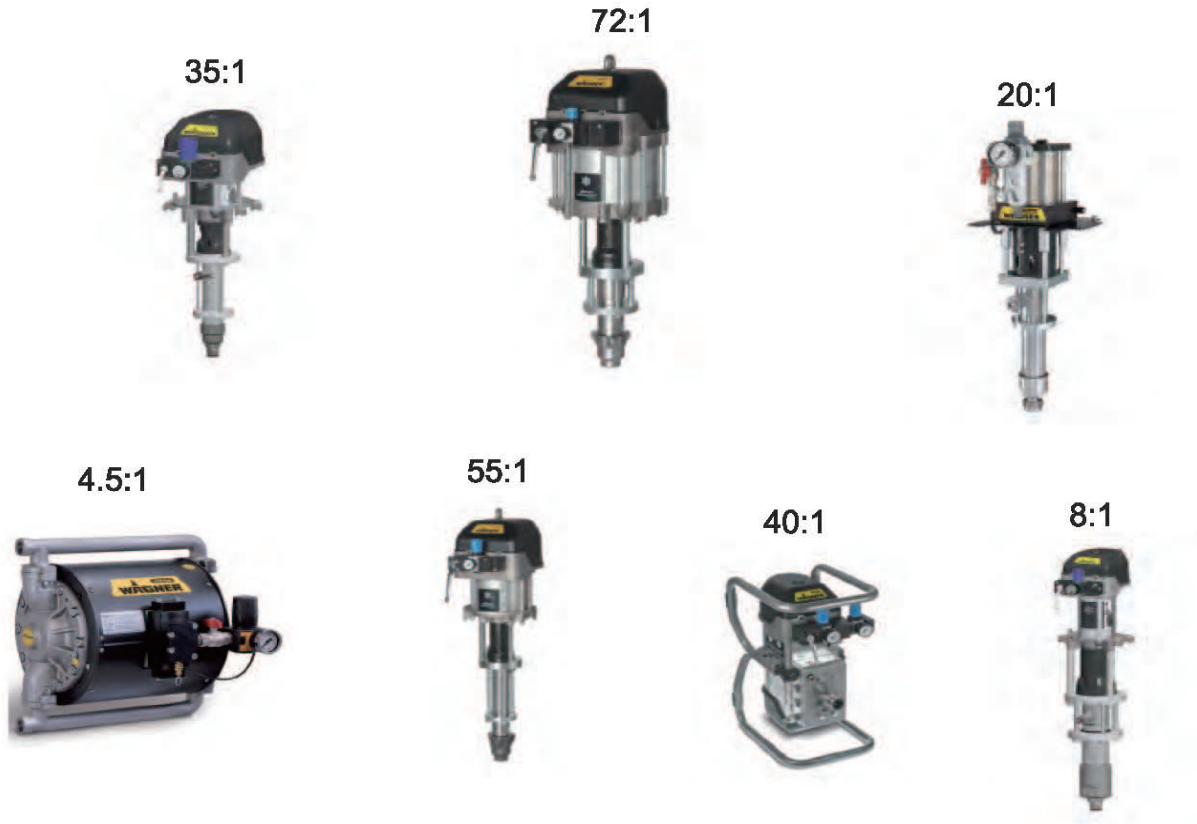
15. 高黏度塗膠機, 泵浦系列, 工程設計, 規劃



16. 塗料輸送泵浦, 泵浦系列, 工程設計, 規劃



17. 高 / 中 / 低 / 壓氣動泵浦



18. 流量檢知, 齒輪泵浦, 換色閥模組

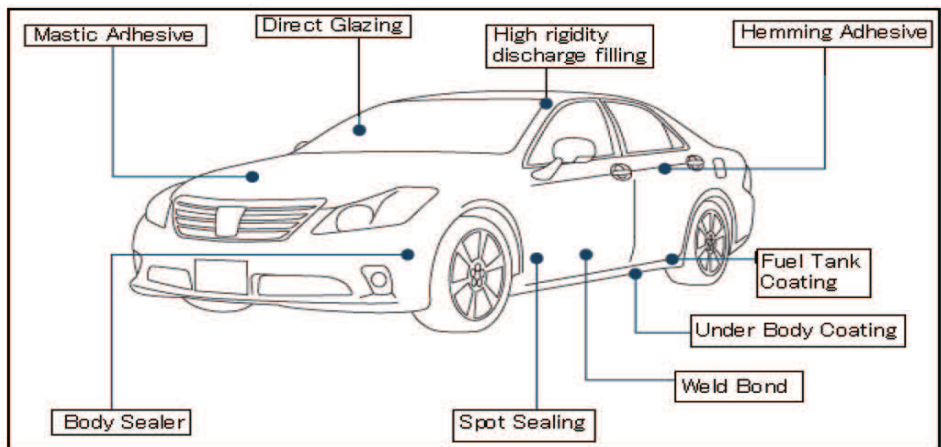


19. 無氣式噴塗系列

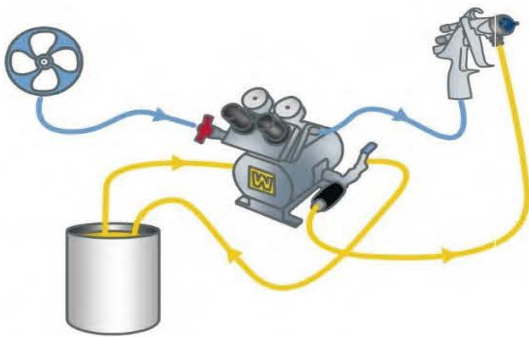


| Size | Spray angle | | | | | | | | Material filter (in mesh) | Bore | | Material flow ^o l/min (g1/min) |
|-------|-------------|-----|-----|-----|-----|-----|-----|-----|------------------------------|--------------|----------------|--|
| | 10° | 20° | 30° | 40° | 50° | 60° | 70° | 80° | | Inch (mm) | l/min (g1/min) | |
| 07*** | | | | 407 | 507 | | | | | 0.007 (0.18) | 0.21 (0.055) | |
| 09** | | 209 | 309 | 409 | 509 | 609 | | | | 0.009 (0.23) | 0.23 (0.061) | |
| 11 | 111 | 211 | 311 | 411 | 511 | 611 | | | | 0.011 (0.28) | 0.34 (0.090) | |
| 13 | 113 | 213 | 313 | 413 | 513 | 613 | | 813 | | 0.013 (0.33) | 0.50 (0.132) | |
| 15 | 115 | 215 | 315 | 415 | 515 | 615 | 715 | 815 | | 0.015 (0.38) | 0.68 (0.180) | |
| 17 | | 217 | 317 | 417 | 517 | 617 | 717 | | | 0.017 (0.43) | 0.88 (0.232) | |
| 19 | | 219 | 319 | 419 | 519 | 619 | 719 | 819 | | 0.019 (0.48) | 1.09 (0.288) | |
| 21 | | 221 | | 421 | 521 | 621 | | 821 | | 0.021 (0.53) | 1.31 (0.346) | |
| 23 | | 223 | | 423 | 523 | 623 | 723 | 823 | | 0.023 (0.58) | 1.63 (0.431) | |
| 25 | | 225 | | 425 | 525 | 625 | | 825 | | 0.025 (0.64) | 1.92 (0.507) | |
| 27 | | 227 | | 427 | 527 | 627 | | 827 | | 0.027 (0.69) | 2.25 (0.594) | |
| 29 | | | | | | 629 | | | | 0.029 (0.75) | 2.58 (0.682) | |
| 31 | | 231 | | 431 | 531 | 631 | | | | 0.031 (0.79) | 2.95 (0.779) | |
| 35 | | 235 | | 435 | 535 | 635 | | | | 0.035 (0.90) | 3.80 (1.004) | |
| 39 | | | | | | | | 839 | | 0.039 (0.99) | 4.32 (1.141) | |
| 43 | | 243 | | | 543 | | | | | 0.043 (1.10) | 5.00 (1.321) | |
| 52 | | | | | 552 | | | | | 0.052 (1.30) | 6.14 (1.622) | |

20. 汽車工業塗膠工程設計



21. 塗料供應，水性 / 溶劑型塗裝



| Technical data | |
|-----------------------------------|---|
| Pressure ratio | 1:1 |
| Air inlet pressure | 1-8 bar |
| Volumetric flow with free outlet | 10 l |
| Volumetric flow per double stroke | 40 cc |
| Material inlet | G ½" |
| Material outlet | G 3/8" |
| Air outlet | G ¼" |
| Material temperature | 4 – 60 °C |
| Material pH value | 3.5 - 9 |
| Wetted parts | Stainless steel |
| Dimensions | 192 x 142 x 175 (WxDxH without regulator) |
| Weight | 3.1 kg without regulator |

22. 測試儀器 - 靜電塗裝 - 靜電高壓測試計, 塗料導電測試計, 粘度計



靜電高壓測試計

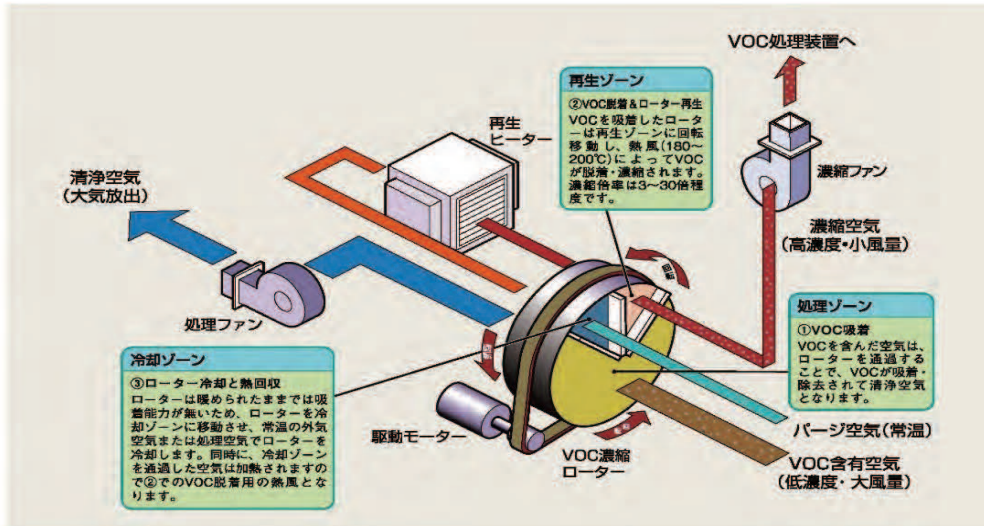


粘度計



塗料導電測試計

23. VOC 防治設備, 沸石轉輪, 濃縮式排ガス処理装置



24.VOC 防治設備, RTO 蓄熱式脱臭爐, 蓄熱式排ガス処理装置



25.液體噴房,手動/自動噴塗

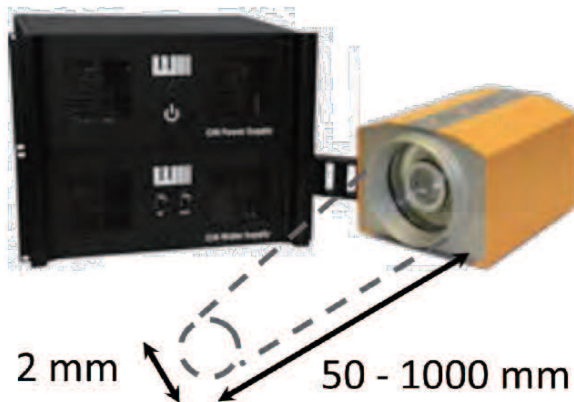


26.VOC 防治設備, 吸附式活性碳塔



27.即時線上同步膜厚度量測裝置, 非接觸式 Coat Master

CoatMaster inline 線上型式



Measurement range: 1-1000 μm 膜厚

Standard deviation: <5% 誤差

Measurement duration: 0.1 – 1 s 檢知時間

Object speed: 10 m/min 輸送機速度

Measurement intervall \geq 1 s 量測間隔

Power consumption: <2000 W 電力

Fuse: 10A 保險絲

Dimensions optics: 21 x 16 x 23 cm 外型

Weight optics: 5.2 kg 重量

Mounting: profiles 按裝

28.自動化噴塗系統, 噴槍清洗, 溶劑回收設備



29. 專業塗裝業消防系統 + 自動接地檢測設備



Operating manual



Fire alarm and extinguishing control panel
FMZ 5000 mod S

30. 溶劑回收機, 常压蒸留再生装置 CLEAN-ACE101-A (防爆型)



| | |
|-------|-------------------------------------|
| 型式 | CLEAN-ACE101-A |
| 処理能力 | 15L/回 |
| 処理方式 | 一斗缶処理・袋処理 |
| 処理時間 | 3~4時間 廃液の状態により異なります。 ご了承願います。 |
| 加熱方式 | ヒートパイプ方式 (局部過熱のない安全構造) |
| コンデンサ | 水冷式 シェルアンドチューブ (逆流防止安全設計) |
| 電源 | AC200V |
| オプション | オイルパン |

合作廠商



横浜技研株式会社





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