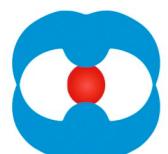
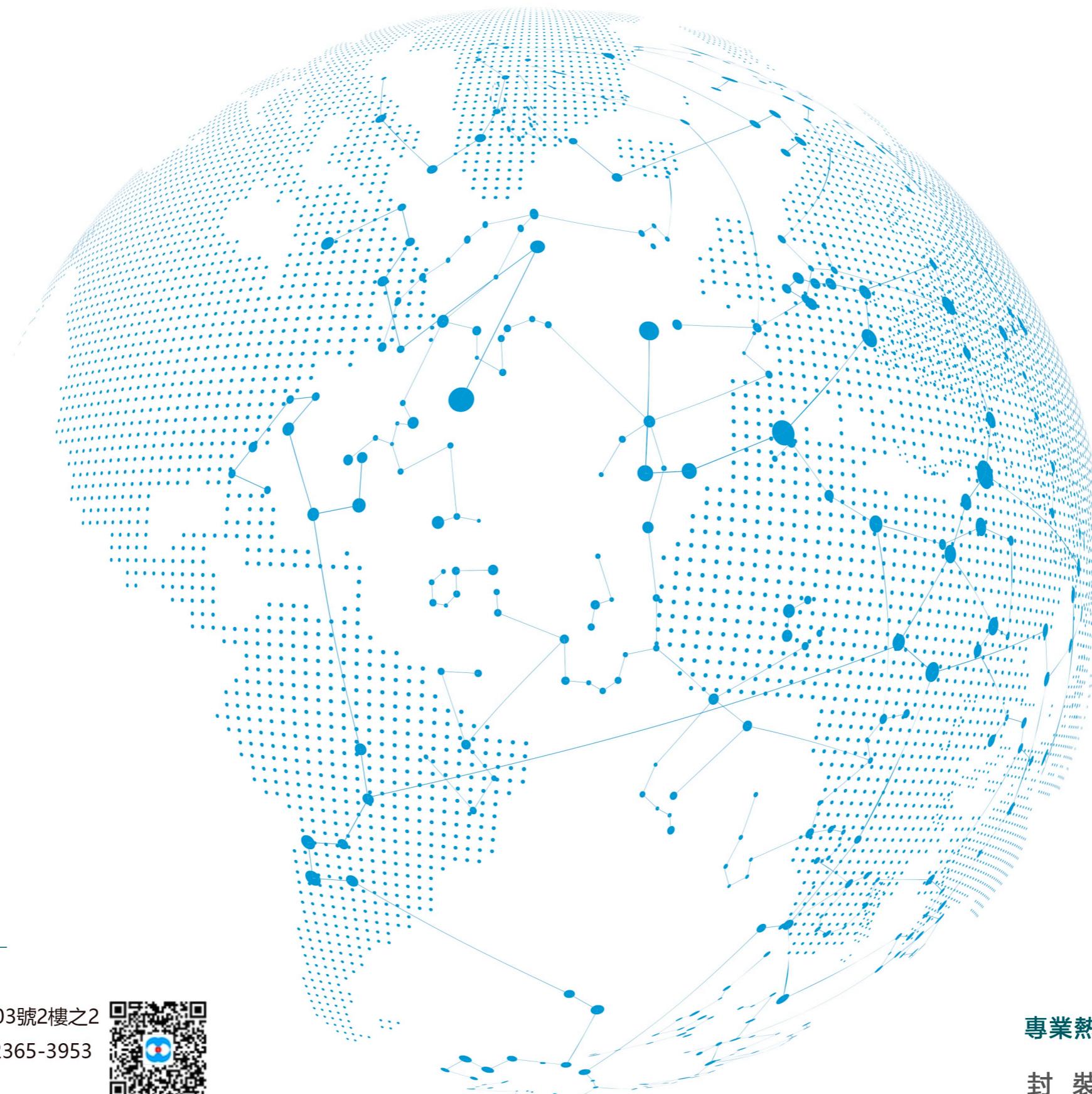


2023.12



Neo Trend  
廣廉



廣廉股份有限公司  
Neo Trend Ltd.

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專業熱誠 客戶滿意 誠信經營 永續創新  
封裝設備 / 無塵室耗材

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# COMPANY PROFILE

## 公司簡介

廣廉公司 ( NTL ) 於民國一百零七年創立迄今，在草創初期，主要從業人員皆來自有40餘年歷史的家榮公司 ( Happy Pole )，後來陸續有新血的加入，在面對科技日新月異，市場競爭國際化的時代，是間擁有老師傅經驗傳承及熱血新鮮人的公司。

公司成立以來一直秉持以『品質為先、服務為本』之理念，不斷自國外引進先進的技術、產品及設備，以滿足客戶快速且多樣的需求，所有從業人員皆有15年以上豐富經驗，藉以提昇品質與服務，進而達到創新之目標，繼續為永續事業經營而努力。

Neo Trend Ltd. ( NTL ) was established in 2018. In the beginning, the key members were from Happy Pole Ltd. – it has 40 years history. After, the new members come on board continuously. In the era of continuously improving technology, the market competition has become internationalized. We take the challenges with our valuable experiences and passion .

In order to maintain the competitive edge. We, Neo Trend Ltd., always insist on our belief in " Quality First and the most satisfactory Services " and keep introducing global advanced technology, products and equipment to meet various needs of customers. All the above and sequent efforts are the motive of continuous business Running with great experienced staff.

### 廣廉代理的產品及設備跨越半導體/電子/生化科技/製藥/食品.....等領域

We distribute advanced products and equipment in the fields of semiconductor, electronics, biotechnology, pharmaceutical and food industries.

#### ► 機器設備與設施

- 晶圓封裝相關設備及週邊消耗產品.
- BBS KINMEI, OKK, QES集團, NGK, SKPT半導體設備
- 其他電子半導體設備

#### MACHINE EQUIPMENT / FACILITIES

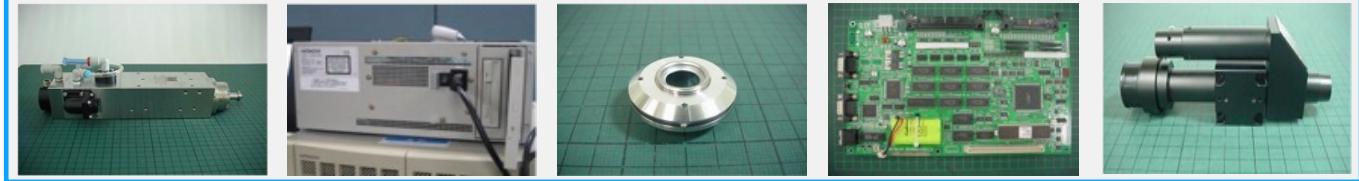
- Semiconductor Package Equipment / Consumable Product
- BBS KINMEI, OKK, QES Group, NGK, SKPT Semiconductor Equipment
- Others Semiconductor Equipment

#### ► 無塵室耗材及用品

- ITW TEXWIPE擦拭布/擦拭棒/文具用品/清潔液/拖把/及化學機械研磨後段PVA清潔刷
- ITW ALMA腳踏黏墊/膠帶/標籤
- ANSELL高科技各式手套
- SHIN HAN抗靜電及離子控制產品
- 各式無塵衣褲/鞋/帽及拋棄式鞋套/帽罩/口罩...等

#### CLEANROOM CONTAMINATION CONTROL PRODUCTS

- TEXWIPE Wiper/Swab/Stationery/Clean Solution/Mop/Post-CMP PVA BrushR
- ALMA Sticky Mat/Tape/Label
- ANSELL Contamination Control Gloves
- SHIN HAN Anti-Static/Ion Control Products
- Cleanroom Garment/Jacket/Pants/Footwear/Cap And Disposable Shoe Cover/ Cap Cover/ Face Mask etc...



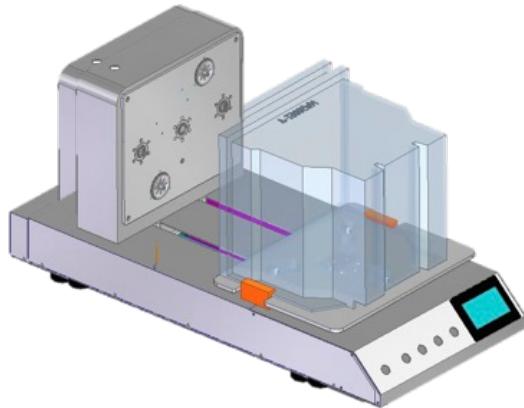
提供DISCO及各廠牌切割/研磨/清洗機之零件/配件 及 設備維修/裝機/移機/調機/教育訓練等服務。

主要成員及技術人員來自家榮(HappyPole)公司，在業界有超過25年以上的經驗，服務品質有保障。

### ► 服務項目及零配件

- 各軸Ball Screw螺桿 / Rail Guide滑軌 / Bearing軸承 / Linear Scale光學尺
- 工作盤 / 清洗盤 / 研磨盤 (新品或更換陶瓷板) / 切割機 Base table 工作底盤
- NCS / OPTICAL Fiber BBD sensor 切割機破刀偵測 / AMP
- 各式刀座 / 刀夾 (Wheel mount/Hub Flange)
- 各式工業電腦 / 人機介面 / 工業顯示器 / Monitor
- Bellows / Θ軸防水圈 / O Ring
- Spindle主軸維修 / 主軸碳刷 ( Carbon Brush )
- 各類Solenoid Valve電磁閥 / 控制元件 / 電源供應器 (Power supply)
- 各式Robot Pick / Pad / Robot hand wafer sensor
- Height gauge
- PCB 控制電路板 / Inverter 變頻器 / Driver驅動器 / Motor 各軸馬達之新品及維修
- CCD 顯微鏡組 / Touch Panel 觸控螢幕 / LAMP (HALOGEN) & LED
- Seal unit 新品及維修
- 流量計 ( Flow Meter ) / 流量控制器 ( Flow Controller )
- Handy Panel 手持式操作面板 / Hirata robot hand controller
- 黃油 / 油石 / 拆刀工具 / 扭力扳手 / 千分表 / 直角規 / 厚度量規

► 全自動FOUP開蓋機 Automatic 300mm FOUP Opener



- 符合人體工學
- 簡單的操作模式
- 方便且無任何風險的取放Wafer
- 有桌上型或落地型的機種可以選擇
- 符合SEMI 300mm規範的FOUP皆可使用

- Ergonomics
- Easy to operate
- Reliability
- Floor Standing / Desk type
- SEMI standard 300mm FOUPs

► 水溫控制器 Water Temperature Control



- 有效且穩定的供應切割時所需的水溫及水量
- 可改善切割品質並降低刀片磨耗
- 可有效穩定的維持主軸加工時的溫度

- Precisely control temperature of industrial machines
- Improve production efficiency
- Reduce cost

► 精度自動動平衡量測機 Auto Balancer



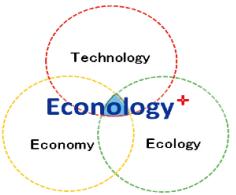
- 0.001 μm高精度的平衡測量和校正
  - 自動量測振動及轉速
  - 可監控 X, Y, and Z軸之震動及振動波形
  - 自動計算配重結果
- 
- Highly accurate balance
  - Easy to operate for anyone
  - Supportive functions for balancing X, Y, and Z (Horizontal, Vertical, and Axial) vibration state.

## ► OKK Company Introduce

### Major Products and Services:

Manufacturing and selling of precision measuring equipment, Semiconductor and Liquid crystal equipment, and Maintenance service of rotating device.

We assure you of a perfect follow-up treatment of our products covering a standardand also a custom-designed.



## ► Front End Process Equipment

Spin Dryer



Single Cassette



Stand Alone

Lift Off Equipment



Semi-Auto

Carrier Washer



Full Auto

Wafer Transfer



Single Wafer cleaning



Stand Alone

The Spin Dryer is a device in which water drops and moisture on a wafer can be dried using a mechanism of centrifugal force caused by spinning and an action of the suction of air current by using Ohmiya Industries' balancing technique.

The automatic lift-off machine is a machine which automatically removes resists and metals on wafers by using a batch dipping process and a sheet spinning process.

Carrier washer is washing and drying unit for wafer carriers and carrier boxes and is composed of washing machine.

Unique wafer chuck mechanism reduces shaking during the transport of wafers, allowing careful transfer into quartz boats for the precise and safe transfer of even heavy loads such as compound wafers.

Wafer Cleaner Systems are designed for cleaning workpieces after dicingprovides an optimal solution for cleaning wafers after dicing or scribing.

## ► Dicing Environmental Equipment

Tape mounter/laminator



Table top type



Vacuum Laminate



Semi auto



Full auto



IN-LINE Type



Table top



Semi Auto



Full auto

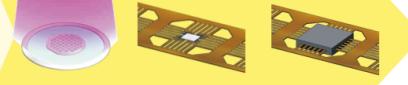
This is a tape mounter in which various tapes (including dicing tape and BG tape) are attached to the frame and work pieces. Wafer Mounter is provides for mounting wafers before dicing process.

This tape remover is a device used for the removal of protection films attached to wafers and printed circuit boards. The full auto tape remover is a device for *peeling off* protective film applied to wafers. The wafer that is fed by cassette is positioned in the aligner, tape is removed and the wafer is ejected to the same cassette.

BackGrinding Process

Dicing Process

Assemble Process



Die Expander



Auto cutting



Full auto



Full auto

After finishing Dicing Process, This machine will make the removal with inferior chips remained on a frame, cleaning, and drying of the dicing frame.

UV curing system



Manual /table top



Black Light lamp



High pressure mercury lamp

*Die expander* is used for expanding wafers after the dicing process. he stage stroke and speed setting in 0.1mm becomes possible by the motor drive. It can possible to eveny expands wafer.

This is a fully automatic UV curing system which unloads a wafer frame fed by a cassette, irradiates it with UV rays and then houses it automatically. It is possible for the machine to handle two different sizes of wafer frames, 8" and 12", using an automatic cassette changeover system .

► 全自動超音波撕膜機 (LED照射系統) Full Auto Ultrasonic Tape Remover(With an LED irradiation system)



- 不用撕膜膠帶
- 堅固機構設計
- 可客製化
- 環境保護設計機構
- 省能源設計
- 在工業界第一個使用超音波黏著頭撕膜專利技術

- Tapeless
- Compact design
- Customized configuration
- Environmentally Friendly
- Energy-saving
- An ultrasonic adhesion head is stalled to the remover unit for the first time in the industry(patented).

► 真空貼膜機 Vacuum Tape Mounter



- 無氣泡
- 無需滾輪，非接觸作業
- 低傷害，易碎晶圓貼膜運用
- 滿足2"到8"晶圓製程(可供應12"晶圓機型)
- 提供全自動貼膜機型
- 應用於MEMS晶圓,Taiko晶圓,陶瓷,玻璃,基板,軟板製程

- No air bubbles
- Roller are not used,Non-contact mounting
- Low-damage mounting to fragile wafers
- Support for wafer sizes from 2"to 8" ( 12" possible )
- Support for a fully-automatic device
- Support for MEMS wafers,Taiko wafers,Ceramics,Glass,Substrates and films

► 半自動貼膜機 (預切膜運用機型)

Semi-auto Tape Mounter with a built-in Pre-cutting System



- 無浪費膠膜
- 堅固機構設計
- 不傷害鐵框
- 精緻密合於預切膜貼膜

- "No"width of waste tape
- Compact design
- No damage the tape frame
- Meeting the use for pre-cut tapes

► 晶圓傳送機 Wafer Transfer Equipment



順暢，精密，快速

晶圓的傳送時與基座的微小接觸設計，  
防止對晶圓壓力及造成汙染

馬達驅動防止粉塵產生

特殊傳送基座的機構減少震動，甚至較重  
的複合晶圓也可以被小心安全的傳送進去載盒中  
可以額外安裝電子式靜電消除器

3種機型:

OTS-15 1個基座落地直立型

OTS-25 2個基座桌上型

OTS-25 3個基座桌上型

Gentle,Precise,Speedy

Minimum contact between wafer and chuck to prevent  
stress and contamination of wafers

Motor-driven to prevent the generation of particles

Unique wafer chuck mechanism reduces  
shaking during the transport of wafers,allowing  
careful transfer into quartz boats for the precise and  
safe transfer of even heavy loads  
such as compound wafers

An optional electrostatic eliminator is possible

Three elements :

OTS-15 1 stage Floor model

OTS-25 2 stages Tabletop model

OTS-25 3 stages Tabletop model

► 旋轉式乾燥機 Spin Dryer



徹底清除粉塵功效

短時間內能達到安全及清洗乾淨能力

Ohmiya 展現極高的平衡技術，  
得到極靜清洗性能

Ionizer and ULPA濾心是標準配備

可供應12"機型

Strictly eliminates dust-causing factors

Promising safe and clean drying in a short time

Ohmiya's unique balancing technology  
realizes quiet spinning performance

Ionizer and ULPA filter are standard equipment

12"possible

► 全自動UV-LED 膠膜固化照射機 Fully UV-LED Curing System



- 全自動單一提籠進出照射作業
  - 可短時間一致均勻的照射固化膠膜
  - 可設定多組UV照射參數(照射時間和累積光能強度)
  - 在觸摸面板上即時顯示UV照射強度
  - LED光源照射了解節省能源的實效
  - 可同時運用於6", 8"提籃作業，  
(只要在觸摸面板上更換參數即可)
  - 可供應12"機型
- 
- Fully automatic irradiation is possibleOn a cassette basis
  - Adoption of batch surface irradiation method provides uniform irradiation in a short time
  - A wide array of UV irradiation parameters  
( settings of irradiation time and accumulated light intensity )
  - Display of the UV lighting intensity on the touch panel  
on a realtime basis
  - Energy-saving performance realized by a LED light system
  - Good for both 6"and 8"cassettes  
(automatic cassette changeover using a touch panel )
  - 12"possible

► 晶圓擴片機 Wafer Expander



- 可運用於隱形切割製程
  - 自動切割功能
  - 無限制的微細精密設定擴展的速度及行程
  - 基座有加溫功能
  - 完整的乾式功能
  - 晶圓朝下無微粒製程是可行
  - 備有全自動操作能力
- 
- compatible with stealth dicer
  - Automatic cutting function
  - Unrestricted minute adjustment of expansion speed and stroke
  - Stage temperature adjustment function
  - Completely dry processing
  - Cutting using particles free processing with face-down
  - Specifications is possible
  - Supports fully auto operation

► 純水抗靜電處理系統



NGK FILTECH LTD公司發展MEGCON純水抗靜電處理系統,是專門解決因純水高阻抗引起的靜電效應問題.此系統使用特殊過濾膜讓二氣化碳進入純水中混合使純水的電阻值能被控制在0.2~2 Mohm-cm.不像傳統方式將CO<sub>2</sub>氣體或金屬鎂直接溶入純水中,產生二次污染一樣.MEGCON的優點是不會產生二次污染及氣泡.

The MEGCON developed by NGK FILTECH,LTD.is an ideal solution to the problem of electrostatic damage caused by ultrapure water. The system uses a special membrane to dissolve carbon dioxide ( CO<sub>2</sub>) into ultrapure water and the resistivity level can be freely controlled between 0.2~2 Mohm-cm. Unlike conventional methods of dissolving CO<sub>2</sub> gas or metallic magnesium directly into ultrapure water, the MEGCON does not cause any secondary contamination or bubbling.

Model	NEW MEGCON II <sup>+</sup> Rack Type	PRCII+-1000AD	PRCII+-1200AD	PRCII+-2000AD	PRCII+-1220AD	
	NEW MEGCON II <sup>+</sup> Cabinet Type	PRCII+-1000ACD	PRCII+-1200ACD	PRCII+-2000ACD	PRCII+-1220ACD	PRCII+-2040ACD
Performance Max.Flow	NEW MEGCON II <sup>+</sup>	1000 L/h	1000 L/h	2000 L/h	2000 L/h	4000 L/h
Control range (min.flow rate 500 L/h)	NEW MEGCON II <sup>+</sup>	0.2 ~ 2 MΩcm	0.1 ~ 0.5 MΩcm	0.2 ~ 2 MΩcm	0.15 ~ 1 MΩcm	0.3 ~ 1 MΩcm
Dimensions	Rack Type Cabinet Type		480 x 355 x 200 ( m/m ) 520 x 400 x 1150 ( m/m )			
Weight	Rack Type Cabinet Type		15 kg 65 kg (The body )			
Power supply		AC100/120V	AC200/240V	50/60 Hz 100 W		
Inlet pressure of ULTRA PURE Water ( Mpa )			Nor.below 0.35 / Max.0.45			

NEW MEGCON II<sup>+</sup>

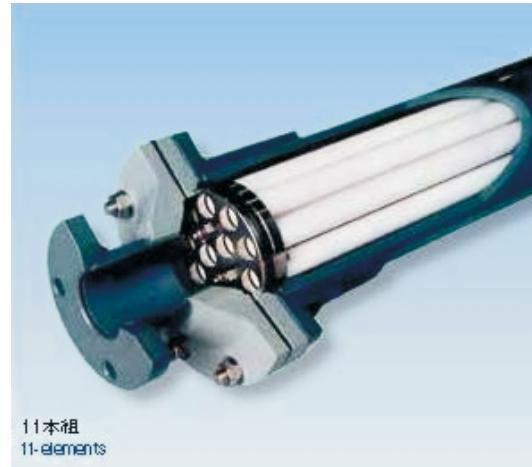
New feature: Touch screen and Digitalized CO<sub>2</sub> pressure gauge.

Expansion of the control range at flow control: The resistivity can be controlled even small flow rate because flow meter is added.

Large flow type becomes standardized: 4000L/hr type MEGCON II<sup>+</sup> will be 1 unit as model: PRCII+-2040ACD.

## ► 陶瓷薄膜濾芯(廢水回收系統)

NGK Ceramic filters : Cefilt



Standard module

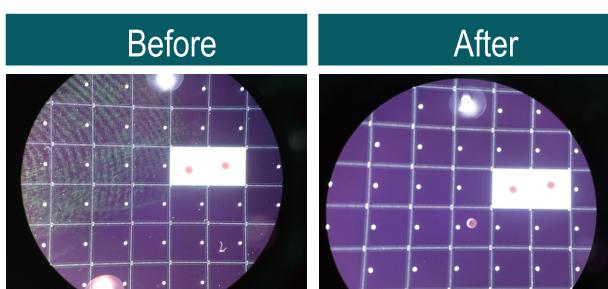
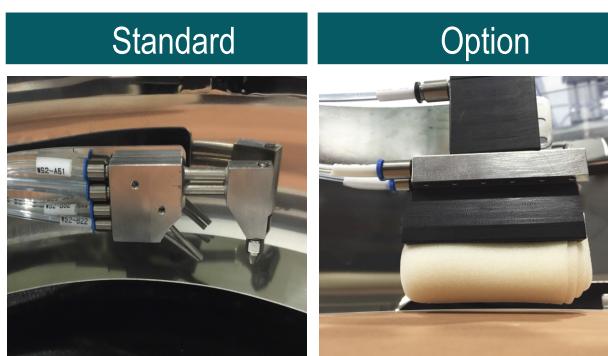
本數(本) No. of filters	膜面積(m <sup>2</sup> ) Surface area			標準材質※ Material	概算重量(kg) Approx. Weight
	φ4 - 19	φ3 - 37	φ2.5 - 61		
1	0.24	0.35	0.48	SUS316, EPDM	5
7	1.7	2.4	-	SUS316, EPDM	60
19	4.5	6.6	-	SUS316, EPDM	130
37	8.8	12.9	-	SUS316, EPDM	230
11	-	-	5.2	PVC/SUS304, EPDM	40

► WS300 Series Cleaning Equipment (Fully Auto / Automatic)

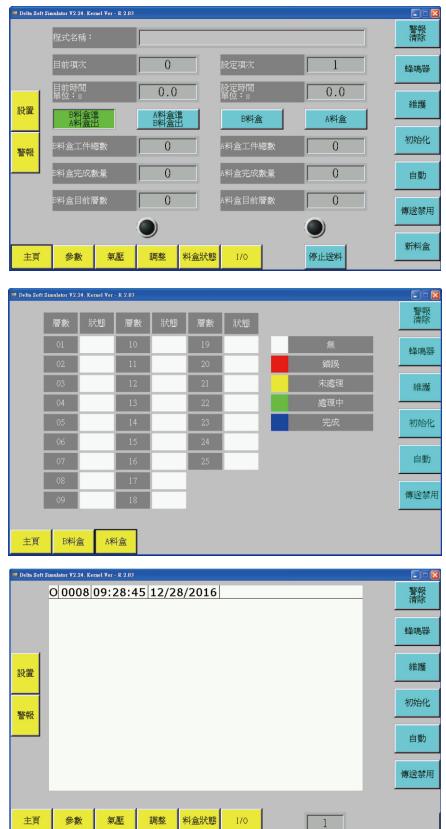


WS300 series cleaning equipment can clean all of semiconductor products, especially after dicing process.

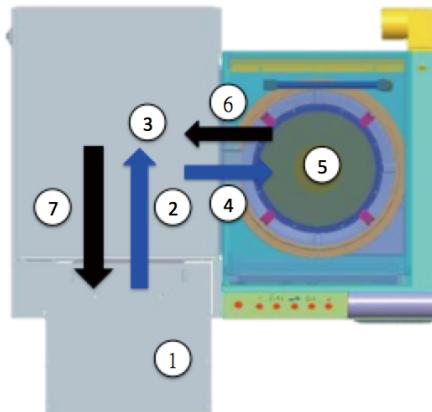
End user can use multi cleaning sequences to keep the stability and productivity. And choose the option - contactcleaning arm to improve the quality.



- Customization C/T  
(Frame Max Size : 400 x 400 mm)
- 10 sets of recipe saving
- HEPA (Option)
- Frame scan (Fully Auto)



1. Cassette and Mapping
2. Loading
3. Centering
4. Move to S/T
5. Clean
6. Move to Centering
7. Return to cassette



Easily operation that end user can check the equipment status in real time, humanize design contents different requirement.

## ► Specification

		WS-300A	WS-300AI
C/T	Size 8"/12"	mm	8"(202) / 12"(302)
	R.P.M	rpm	100~3000
	Servomotor	W	750W
Arm	Angle	Degree	0~90°
	Speed	mm/ Sec	2.5~35
	Servomotor	W	200W
Nozzle	Automizing: Water/Air/Pressure		Water :0.2~1.5L/min//Air :0.2~1.5L/min// Pressure :0.1~0.5Mpa
	Rinse		Water:0.2~1.5L/min
	Dry /Pressure		Air :0.2~1.5L/min// Pressure :0.1~0.5Mpa
Auto Load/Unload	Cassette : Motor	W	- 400W
	Arm:Motor	W	- 400W
Other	Power/KW		AC220V/3P/1KW(50/60Hz)
	Dry Air :		Air:250L/min// 0.55Mpa
	DI Water		Water:2L/min//0.15~0.35Mpa
	Exhaust	M <sup>3</sup>	5
	ESD		- Option
	M/C Size	Kg/cm	85Kg/100x150x150cm
			125Kg/150x150x150cm

半導體、太陽能單晶錠研磨切割\_置等的開發、設計、製造、銷售、維修服務, 機械耗材等的開發、設計、製造、銷售

Semiconductor business / Solar cell & Sapphire Cutting Edge Grinding business

## 半導體 / 太陽能 / 藍寶石 / 玻璃

### ► 晶柱轉向機 Ball Joint



- 高精度: 使用球接系統確保高精度的晶向  
High Accuracy: with ball joint system
- 角度可任意設定  
Ingot angle is setable
- 兩側可同時加工  
Both side can be processed in the same time
- 使用專用夾具實現自動化  
By dedicated clamp to achieve fully auto mode

### ► 太陽能矽磚研磨拋光機 PV Ingot Twin Squaring & Grind Polish Series



- 利用粗磨細拋, 一次性完成對工作物磨面倒角製成  
By grinding and polishing to finish process in the same machine
- 最大加工長度 700mm (Max Length : 700mm)
- 最大加工直徑 230mm (Max Diameter: 230mm)
- RA : 平面 <0.05um , R面< 0.1um  
(Ra <0.05um , R < 0.1um)
- 尺寸精度 156±0.05mm / 125±0.05mm  
(Accuracy : 156±0.05mm / 125±0.05mm)

### ► 晶圓邊緣拋光機



- 最大可對應到450mm / (MAX to 450mm)
- 邊緣和邊緣滾降 (ERO) 對邊緣三面的統一加工  
Stable process to edge / top / down side
- 利用離心力, 緊貼邊緣形狀加工 To work centrifugal force  
產能提高到1.5倍 (雙軸) / UPH up to 1.5 times (Dual Axis)



大塚科技利用光學的技術，提供具有尖端技術的解決方案。

產品包括光學膜厚量測、粒徑界達電位量測、高感度光譜儀等尖端技術。

#### ► 薄膜厚量測設備產線Stand-alone型 Non-Contact Film Thickness Measuring

反射光譜非接觸薄膜量測



- 全自動 / 半自動模式
- 可根據需求對應2吋到12吋產品
- 在最適樣品下量測時間1秒即可完成
- 可對應Inline或Offline
- 高精度自動對位組件
- 各種非金屬化合物半導體材料厚度量測  
例: GaAs、SiC、SiO<sub>2</sub>
- 膜厚量測範圍: 1 nm ~ 35um 光點直徑 : 10um(min. 5um)
- 可選配SECS/GEM 功能，增加工廠自動化生產分析能力

#### ► 嵌入式膜厚量測儀 Built-in Film Thickness Monitor

一體式薄膜厚度計，使用光纖輕鬆集成到晶圓工藝的磨削和沉積設備中。透過遠端同步控制、高速多點同步量測等豐富多樣的光學系統套件與應用軟體，提供特殊環境下最理想的膜厚解決方案。



- 膜厚量測範圍20nm-10um (膜厚值為光學膜厚nd)
- 自由搭配光纖，建構最理想的光學系統
- 遠隔測量、高速多點量測
- 可架設於生產線上或其他設備中，進行樣品全數檢測
- 提供豐富多樣的選配套件與應用軟體

**► WHS3800 全自動晶圓分片/換盒設備****WHS3800**

- 具備高速度、省空間、低振動、低噪音之晶圓篩選機。
- 可以讀取晶片雙面刻號(正刻和背刻)。
- 藉由搭配光學及影像處理，可實現高識別率。
- 手臂採用機械手臂，於各位置上可高速交替搬送。
- 從小尺寸晶圓可以對應到最大十二吋晶圓。
- 並且在多樣式的圓餅盒與蛋糕盒都可以共用。

**► PWB1000V / PWB2000V 全自動三光檢驗設備****PWB1000V****PWB2000V****PWB1000V / PWB2000V**

- 具備高速度、省空間、低振動之三光檢驗機台。
- 將晶盤固定於向X, Y, 方向移動平台上，由線性掃描相機掃描生成定位數據後，高精度相機進行同時檢查。

► MP2100 非接觸式粗糙度 / Roll off / Nanotopography 量測儀器



MP2100

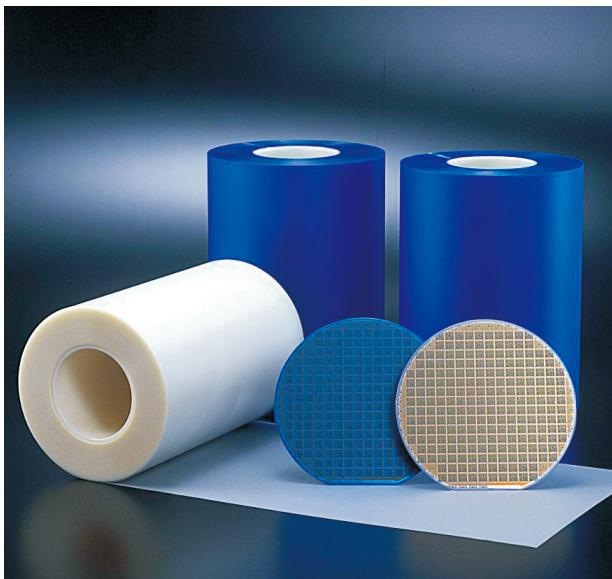
- 非接觸式晶圓 Edge roll off 和 NT 量測。
- 使用光學式量測，將晶圓傷害降至最低，可從小尺寸晶圓支援到最大十二吋晶圓，並可搭配手臂實現全自動量測。

► MPT1000 非接觸式厚度/ 粗糙度量測儀器



MPT1000

- 晶圓厚度和粗糙度量測。
- 雷射非接觸量測，可針對薄晶圓作量測，另外可搭配手臂實現全自動量測，可從小尺寸晶圓支援到最大十二吋晶圓。

▶ 膠帶 Tape


電子級膠帶 (Blue Tape) 及紫外線照射膠帶 (UV tape)，專門應用於研磨、切割及運送時保護晶片正面等制程。

可於研磨時保護晶片正面不受損傷及吸收研磨時的衝擊力確保晶片不會破裂；于切割時能夠固定晶粒於膠帶上不會產生晶粒流失的現象，並增進切割品質及拿取晶粒的方便性。

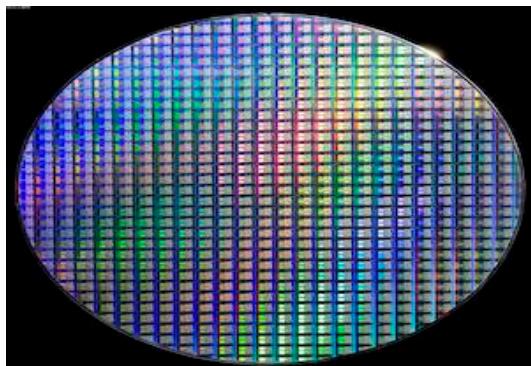
同時，也具有不易殘膠的特性及多款不同黏性的膠帶以應用於各種不同的工作物。

▶ 型號命名規則 Name Rule

**UHP - 10 05 M3 (E)**

<b>UHP</b>	基膜材料 Base film material	<b>05</b>	黏膠厚度 Adhesive thickness
	<ul style="list-style-type: none"> <li>• - UDV:PVC</li> <li>• - USP:PO</li> <li>• - UHP:special PO</li> <li>• - UDT:PET</li> </ul>		<ul style="list-style-type: none"> <li>• - 05:5um</li> <li>• - 10:10um</li> <li>• - 15:15um</li> <li>• - 25:25um</li> </ul>
<b>10</b>	基膜厚度 Base film thickness	<b>M3</b>	黏膠等級 Adhesive grade
	<ul style="list-style-type: none"> <li>• - 08: 80um</li> <li>• - 10:100um</li> <li>• - 13:125um</li> <li>• - 15:150um</li> <li>• - 19:188um</li> </ul>		防靜電等級 Anti-static grade
		<b>(E)</b>	

► 砂晶圓 / 砂晶片



**Wafers**

- 尺寸 : 2" / 3" / 4" / 5" / 6" / 8" / 12"
- 種類 : Mirror Wafers/Dummy Wafers /Test Wafers

► UV 照度計 (UV meter) / 紫外線機算光量計 ( Accumulated UV meter )



**UV Meter 紫外線照度計**

- 可量測 UVA / UVB / UVC / UVV 等波段
- 可用於半導體及各領域的照光裝置、曝光機、UV固化、及洗淨與殺菌等設備上

► Wafer Cassette / Double Slot Cassette



**13 Slot Wafer Cassette**

- 承載容量 : 13pcs
- 適用晶圓 : 8"
- 材質 : 可客製化



**Double Slot Cassette**

- 承載容量 : 7pcs / 8pcs / 13pcs
- 適用晶圓 : 6" / 8"
- 材質 : 可客製化

► 晶圓貼片框架/晶圓框架提籃/擴片環 Double Ring/Ring Cassette



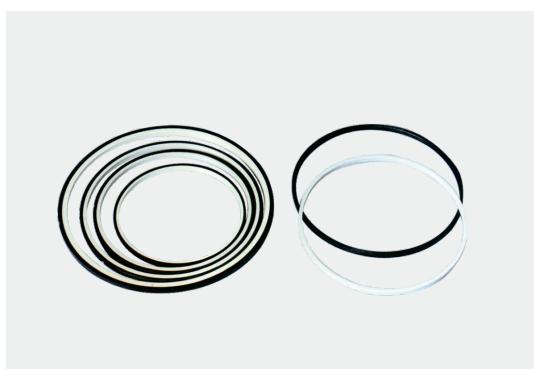
晶圓貼片框架

- ◆ 重量輕  
受磁性強  
耐刮性強
- ◆ 不易變形  
無毛邊  
耐高溫



晶圓框架提籃

- ◆ 重量輕  
耐刮性強  
不易變形
- ◆ 無毛邊  
耐高溫



擴片環 Double Ring

- ◆ 提高能扣緊的強化塑膠擴張環，  
多種尺寸及包裝外盒

A reinforced plastic double grip ring consisting of inner and outer rings, available in many sizes. The grip ring cassette is also available.



Ring Cassette

- ◆ 承載容量：13pcs
- ◆ 適用晶圓：5" / 6" / 8" / 10"
- ◆ 材質：金屬 / 可客製化
- ◆ 外觀形式：可客製化

MEMO

P/ 18

### ► 防塵防靜電衣褲 / 收納袋

款式多樣，可配合不同等級無塵室需求，透氣佳，舒適性佳，型式可修改或做特殊設計。



連身衣  
連身衣連帽

夾克  
長褲

立領風衣  
國民領風衣

雙層收納袋  
白色直條布  
尺寸:13(w)x40(l)x32(h)cm  
背帶長:107cm

### ► 防塵防靜電帽

導電碳線不易斷裂，可抗靜電，透氣性佳。



女帽

百褶女帽

男帽

披肩帽

► 防塵鞋系列 / 安全帽



長筒鞋  
半筒鞋  
材質：PVC / PU

長筒安全鞋  
半筒安全鞋  
材質：PU

短筒安全鞋  
材質：PU

無塵室安全帽



全包鞋  
材質：PVC / PU

四孔鞋  
材質：PVC / PU

網狀鞋  
材質：PVC / PU

二孔網鞋  
材質：PU

## ► 無塵室用手套系列



AccuTech Ultra-Clean

91-104

系高潔淨乳膠手套,用於需求高度靈活度及抓取力的應用上. 其特性為易於穿戴及優越的抗穿刺效果 .

- † 包裝: 50雙/包 10包/箱



Nitrilite

93-401

因應低發塵量,低釋出物需求之氮聚合物無塵室保護手套, Nitrilite是Ansell最早製造厚度較薄的氮聚合物無塵室用手套. Nitrilite 是本質潔淨,低釋出物且有著優越抓取力的手套,此外,抗靜電效果亦佳.

- † 包裝: 50雙/包 10包/箱



HPG-GM 無粉PVC手套

- 尺寸: 9"/ 12"
- 種類: 平膜/顆粒
- SIZE: S/M/L
- 包裝: 50雙/包 10包/箱



HPG-LATEX 乳膠手套

- 尺寸: 9" / 12"
- SIZE : S/M/L
- 包裝: 50雙/包 10包/箱



Ca820

抗靜電止滑手套

SIZE: S/M/L/XL



Ca825

抗靜電手套

SIZE: S/M/L/XL



Ca821

全棉手套

SIZE: S/M/L/XL

Ca822

TC半棉手套

SIZE: S/M/L/XL



無塵室用手指套

包裝: 1200個/包  
類型: 一般型



無塵室用腳踏黏墊

Ordering Information / 訂購資訊

- Size: 18"x 36" / 18"x45" / 24"x36"
- Color: 藍
- Packing: 30張/本 10本/盒



抗靜電尼龍PU塗指手套

CODE NO. 3111XP

尺寸: 7 / S 11 / 2XL  
顏色: 手心—白 手背—白



尼龍PU塗指手套

CODE NO. 3111

尺寸: 7 / S 11 / 2XL  
顏色: 手心—白 手背—白



尼龍PU塗掌手套

CODE NO. 3131

尺寸: 7 / S 11 / 2XL  
顏色: 手心—白 手背—白



尼龍WATER PU塗掌手套

CODE NO. 3181

DMF free 食品級  
尺寸: 7 / S 11 / 2XL  
顏色: 手心—白 手背—白



尼龍NBR塗掌手套

CODE NO. 3545

- ◆ 耐油, 耐化學品, 耐磨
- ◆ 尺寸: 7 / S 11 / 2XL
- ◆ 顏色: 手心—黑 手背—黑

高強度PE纖維矽膠點  
凸塗掌手套

CODE NO. 5161K

- ◆ 耐切割, 高抓力 -3級
- ◆ 尺寸: 7 / S 11 / 2XL
- ◆ 顏色: 手心—白 手背—白

耐切割, 高強度PE纖維,  
軟式PU塗掌手套 (3級)

CODE NO. 5532K

- ◆ 尺寸: 7 / S 11 / 2XL
- ◆ 顏色: 手心—胡椒鹽色 手背—灰

耐切割, 高強度PE纖維,  
PU塗掌手套 (4級)

CODE NO. 5532X

- ◆ 尺寸: 7 / S 11 / 2XL
- ◆ 顏色: 手心—黑 手背—黑

P / P

無塵耗材 無塵室用手套系列



耐切割玻纖纖維  
PU塗掌手套 (5級)

CODE NO. 5532Z

- ◆ 尺寸: 7 / S 11 / 2XL
- ◆ 顏色: 手心一灰 手背一灰



耐切割, 高強度PE纖維,  
WATER PU塗掌手套  
(DMF free) -3級

CODE NO. 5581K

- ◆ 可用於食品級別
- ◆ 尺寸: 7 / S 11 / 2XL
- ◆ 顏色: 手心一黑 手背一灰



耐切割, 高強度PE纖維,  
NBR發泡塗掌靈活手套 - 3級

CODE NO. 5595K



- ◆ 尺寸: 7 / S 11 / 2XL
- ◆ 顏色: 手心一胡椒鹽色 手背一黑



克維拉PU塗掌手套

CODE NO. 6832

- ◆ 耐熱, 耐切割, 耐磨
- ◆ 尺寸: 7 / S 11 / 2XL
- ◆ 顏色: 手心一灰 手背一黃



導電銅紗PU塗掌手套

CODE NO. 8031

尺寸: 7 / S 11 / 2XL  
顏色: 手心—白 手背—白



抗靜電碳紗PU塗掌手套

CODE NO. 9031

尺寸: 7 / S 11 / 2XL  
顏色: 手心—碳線 手背—白

#### ► CE Standard SIZE

Glove Size	Length	Glove Size	Length
XS 6	210mm	L 9	240mm
S 7	220mm	XL 10	250mm
M 8	220mm	2XL 11	260mm

P/ g

無塵耗材

CleanTips Swab Selector

### ► Alpha Series

Cleanroom laundered 100% continuous filament knitted polyester heads. 100% virgin polypropylene handles.

Part No.	Head Width	Head Thickness	Head Length	Handle Width	Handle Thickness	Handle Length	Total Swab Length	Packaging
TX714A	12.7mm	4.2mm	25.7mm	5.2mm	3.0mm	101.8mm	127.5mm	100 swabs per bag 2 inner bags of 50 swabs 50 bags per case
TX743B	4.0mm	3.6mm	12.0mm	3.0mm	3.0mm	58.3mm	70.3mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX754B	3.5mm	3.2mm	9.5mm	2.5mm	2.5mm	60.0mm	69.5mm	500 swabs per bag 5 inner bags of 100 swabs 125 bags per case
TX758B	3.2mm	2.5mm	10.0mm	2.2mm	2.2mm	60.0mm	70.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX758L	3.2mm	2.5mm	10.0mm	2.2mm	2.2mm	60.0mm	70.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX761	6.8mm	2.8mm	16.8mm	3.2mm	3.2mm	145.5mm	162.3mm	100 swabs per bag 1 inner bag of 100 swabs 100 bags per case
TX761PM	6.8mm	2.8mm	16.8mm	3.2mm	3.2mm	145.5mm	155.6mm	100 swabs per bag 1 inner bag of 100 swabs 100 bags per case
TX765	2.5mm	2.0mm	10.0mm	3.0mm	3.0mm	146.0mm	156.0mm	100 swabs per bag 2 inner bags of 50 swabs 100 bags per case

### ► Absorbond Series

Hydroentangled continuous filament polyester heads. 100% virgin polypropylene handles.

Part No.	Head Width	Head Thickness	Head Length	Handle Width	Handle Thickness	Handle Length	Total Swab Length	Packaging
TX759B	3.2mm	1.5mm	10.0mm	2.2mm	2.2mm	60.0mm	70.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX762	6.8mm	2.6mm	16.8mm	3.2mm	3.2mm	145.5mm	162.3mm	100 swabs per bag 1 inner bag of 100 swabs 100 bags per case

### ► Open-Cell CleanFoam Series

Solvent-cleaned 100 ppi open-cell polyurethane foam. 100% virgin polypropylene handles.

Part No.	Head Width	Head Thickness	Head Length	Handle Width	Handle Thickness	Handle Length	Total Swab Length	Packaging
TX740B	12.7mm	4.2mm	25.7mm	5.2mm	3.0mm	101.8mm	127.5mm	100 swabs per bag 2 inner bags of 50 swabs 50 bags per case
TX741B	3.4mm	3.0mm	10.5mm	2.4mm	2.4mm	57.5mm	68.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX742B	3.6mm	3.5mm	12.0mm	3.0mm	3.0mm	59.0mm	71.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX751B	3.5mm	3.5mm	17.0mm	2.4mm	2.4mm	50.0mm	67.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX752B	3.4mm	3.4mm	20.0mm	2.5mm	2.5mm	50.0mm	70.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX753B	3.2mm	3.2mm	9.5mm	2.5mm	2.5mm	59.5mm	69.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX757B	3.2mm	2.6mm	10.0mm	2.2mm	2.2mm	59.7mm	69.7mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX767B	2.4mm	2.4mm	9.6mm	3.0mm	3.0mm	65.4mm	75.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case

### ► ESD-Safe Transplex Alpha Series

Cleanroom laundered 100% continuous filament knitted polyester heads. Static dissipative Transplex acrylic or polypropylene1 handles are made from Stat-Rite, a family of patented alloys from Noveon.

Part No.	Head Width	Head Thickness	Head Length	Handle Width	Handle Thickness	Handle Length	Total Swab Length	Packaging
TX754E	3.9mm	3.8mm	9.5mm	3.0mm	3.0mm	80.2mm	89.7mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX758E	4.0mm	3.0mm	10.0mm	3.0mm	3.0mm	80.5mm	90.5mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX761D	6.8mm	4.0mm	17.0mm	3.0mm	3.0mm	147.0mm	164.0mm	100 swabs per bag 1 inner bags of 100 swabs 100 bags per case
TX769D	0.0mm	0.0mm	0.0mm	2.4mm	2.4mm	66.1mm	66.1mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case

### ► ESD-Safe Transplex CleanFoam Series

Solvent-cleaned 100 ppi open-cell polyurethane foam. Static dissipative Transplex acrylic or polypropylene1 handles are made from Stat-Rite, a family of patented alloys from Noveon.

Part No.	Head Width	Head Thickness	Head Length	Handle Width	Handle Thickness	Handle Length	Total Swab Length	Packaging
TX740E	6.4mm	5.0mm	16.5mm	3.0mm	3.0mm	147.0mm	164.0mm	100 swabs per bag 1 inner bags of 100 swabs 100 bags per case
TX742D	3.8mm	3.7mm	12.0mm	3.0mm	3.0mm	59.0mm	71.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX757E	3.8mm	3.4mm	10.0mm	3.0mm	3.0mm	80.7mm	90.7mm	500 swabs per bag 5 inner bags of 100 swabs 80 bags per case
TX759D	3.4mm	2.0mm	9.5mm	2.2mm	2.2mm	60.3mm	70.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX767D	2.2mm	2.2mm	8.5mm	3.0mm	3.0mm	66.5mm	75.0mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case
TX768D	0.0mm	0.0mm	0.0mm	2.6mm	2.6mm	68.5mm	68.5mm	500 swabs per bag 5 inner bags of 100 swabs 100 bags per case

## ► Specialty Swab Series

Innovative CrushTube swab designed for cleaning ionizer tips. Glass ampule. Polyester tip. 91% IPA.  
Unique MicroSwab engineered to clean extremely small areas.

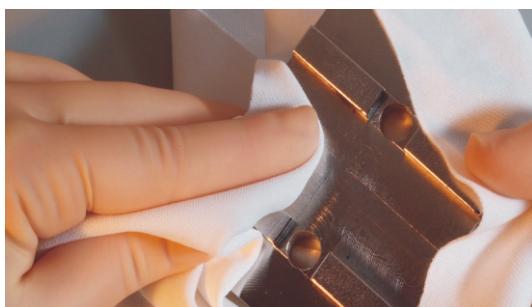
Part No.	Head Width	Head Thickness	Head Length	Handle Width	Handle Thickness	Handle Length	Total Swab Length	Packaging
TX726	8.3mm	8.3mm	10.0mm	9.5mm	9.5mm	44.0mm	47.6mm	50 swabs per bag 1 bag per box 10 boxes per case
								
TX730	0.8mm	0.8mm	15.5mm	2.8mm	2.8mm	152.5mm	168.0mm	50 swabs per bag 1 inner bag of 50 swabs 10 boxes per case
								

## ► Closed-Cell Foam Series

100 ppi closed-cell polyurethane foam. 100% Virgin polypropylene or polypropylene/nylon handles.

Part No.	Head Width	Head Thickness	Head Length	Handle Width	Handle Thickness	Handle Length	Total Swab Length	Packaging
TX706A	10.9mm	8.5mm	27.0mm	6.3mm	6.3mm	54.0mm	81.0mm	100 swabs per bag 2 inner bags of 50 swabs 100 bags per case
								
TX707A	15.0mm	8.8mm	25.0mm	6.6mm	3.2mm	106.0mm	131.0mm	100 swabs per bag 2 inner bags of 50 swabs 50 bags per case
								
TX708A	19.2mm	8.5mm	26.7mm	6.6mm	3.2mm	105.5mm	132.2mm	100 swabs per bag 2 inner bags of 50 swabs 40 bags per case
								
TX712A	12.7mm	7.8mm	25.7mm	5.2mm	3.0mm	101.8mm	127.5mm	100 swabs per bag 2 inner bags of 50 swabs 50 bags per case
								
TX709A	4.8mm	4.2mm	12.0mm	4.3mm	4.3mm	93.0mm	105.0mm	100 swabs per bag 2 inner bags of 50 swabs 200 bags per case
								
TX710A	7.0mm	5.4mm	21.0mm	4.3mm	4.3mm	93.0mm	114.0mm	100 swabs per bag 2 inner bags of 50 swabs 140 bags per case
								

► 無塵室用擦拭布



**Vectra Alpha 10**

Class 1 ~ 10

雙面編織聚酯纖維,擦拭布四周採用Texwipe專利超音波封邊及壓邊,適用於潔淨度要求最嚴格的環境.

- Tx1010 9" x 9" (23cm x 23cm)
- 100wipers/bag 10bags/case
- TX1012 12" x 12" (31cm x 31cm)
- 100wipers/bag 10bags/case

**Vectra AlphaSorb 10**

Class 1 ~ 10

Alpha 10 進階超高吸水力, 封邊聚酯纖維擦拭布.

- Tx1050 9" x 9" (23cm x 23cm)
- 100wipers/bag 10bags/case
- TX1052 12" x 12" (31cm x 31cm)
- 100wipers/bag 10bags/case

**TXA polyester**

Class 10 ~ 100

聚酯纖維擦拭布採用雷射及超音波封邊技術, 減少纖維和顆粒釋放, 是一款經濟型的擦拭布.

- TXA2169 9" x 9" (23cm X 23cm)
- 150wipers/bag 10bags/case

**AlphaWipe**

Class 100 ~ 1000

最經濟的, 清洗過的聚酯纖維擦拭布.

- TX1008 9" x 9" (23cm x 23cm)
- TX1008B 散裝 9" x 9" (23cm x 23cm)
- 150wipers/bag 10bags/case

**AlphaWipe**

Class 100 ~ 1000

對於潔淨度嚴格要求的環境, 具有高度吸水性的聚酯纖維擦拭布.

- TX1009 9" x 9" (23cm x 23cm)
- TX1009B 散裝 9" x 9" (23cm x 23cm)
- 150wipers/bag 10bags/case
- TX1013 12" x 12" (31cm x 31cm)
- 75wipers/bag 10bags/case

**TechniCloth****Class 1,000 ~ 10,000**

45%水蒸不織聚酯纖維/55%天然亞麻纖維擦拭布適用於精密元件,實驗室儀器與需吸水的工作物表面.

- TX604 4" x 4" (10cm x 10cm)  
1200wiper/bag 10bags/case
- TX609 9" x 9" (23cm x 23cm)  
300wipers/bag 10bags/case
- TX612 12" x 12" (31cm x 31cm)  
150wipers/bag 10bags/case

**Absorbond****Class 1,000 ~ 10,000**

水蒸不織聚酯纖維擦拭布,由於緊密纖維結構的毛細作用,具有極大的吸水容量, 適用於光學鏡片及器材.

- TX404 4" x 4" (10cm x 10cm)  
1200wiper/bag 10bags/case
- TX409 9" x 9" (23cm x 23cm)  
300wipers/bag 10bags/case

**TexWipe****Class > 10,000**

緊密編織結構的全棉擦拭布,並以斜切方式來強化擦拭效率.

- TX309 9" x 9" (23cm x 23cm)  
300wipers/bag 10bags/case
- TX312 12" x12" (31cm x 31cm)  
150wipers/bag 10bags/case

**FoamWipe****Class > 10,000**

開孔吸水性,PU海棉擦拭布,與酒精及其他溶劑配合清潔擦拭.

- TX704 6" x 9" x 1/2" (15cm x 23cm x 1.27cm) )  
60wipers/bag 8bags/case

► 無塵室文具用品



**TexWrite 18** 輕型無塵室用文件紙張

- ◆ TX5851 藍色
- ◆ TX5855 白色
- ◆ SIZE: A4 250張/包 10包/箱



**TexWrite 20** 中重型無塵室用文件紙張

- ◆ TX5711 藍色 TX5719 白色
- ◆ TX5723 粉紅色 TX5724 黃色 TX5729 綠色
- ◆ SIZE: A4 250張/包 10包/箱
  
- ◆ TX5712 藍色 TX5714 黃色 TX5715 白色
- ◆ SIZE: 8.5x11(cm) Letter Size 250張/包 10包/箱



**TexWrite 22** 重型無塵室用文件紙張

- ◆ TX5812 藍色 TX5814 黃色 TX5815 白色
- ◆ SIZE: 8.5x11(cm) Letter Size 250張/包 10包/箱
  
- ◆ TX5811 藍色 TX5819 白色
- ◆ SIZE: A4 250張/包 10包/箱



**TexWrite Cleanroom Spiral Notebooks**  
以螺旋條裝訂之無塵室專用筆記本

- ◆ TX5740 8.5" x 11.0" 10本/箱
- ◆ TX5741 5.5" x 8.5" 10本/箱
- ◆ TX5842 3.0" x 5.0" 20本/箱

► 無塵室拖把



- Texwipe 無塵室拖把係專為清潔無塵室使用的特殊設計
- 拖把頭是可更換的，且係100%編織聚酯棉結構，能確保低污染及高吸水性與優越的抗磨擦及抗化學性
- 拖把頭另有以清潔溶劑預濕之更換頭套組，可供選購

## Quick Guide

Materials and Design	AlphaMop™ TX7108	BetaMop™ II TX7106
Head material	Laundered, 100% knitted polyester	Seamless, laundered, 100% knitted polyester
Head design	Flat with replaceable foam pad	Tubular-knit polyester
Head assembly	Low-profile swivel head	100% polypropylene clamp
Handle material	Fiberglass	White, polyester-coated steel
Replacement parts	Polyester heads and foam pads	Polyester heads
Applications		
Floor cleaning	Recommended	Recommended
Wall and window cleaning	Recommended	

### AlphaMop



聚酯棉拖把系列，能以最簡單，最有效率的方式清潔地板，牆面及天花板

- ◆ TX7108 AlphaMop™ 1 mop/case
- ◆ Tx7118 AlphaMop™ Polyester replacement heads and foam pads for TX7108 150covers + 6pads/case

### BetaMop II



條狀聚酯棉拖把，系成本經濟的地板清潔拖把

- ◆ TX7106 BetaMop™ II 1 mop/case
- ◆ TX716R BetaMop™ II Refill heads 6 heads/case

► PVA Brushes 聚醋酸乙稀泡棉清潔刷



ITW RIPPEY offers a broad variety of HydroCell® PVA-based products for contamination control of cleanroom in electronic industries. They can be applied to the cleanliness of cleanroom floor, work surface or even product surface jointed with hand set roller for operation. RIPPEY PVA Brush is a manually mechanical brush with multi-functions. It can provide not only excellent cleaning effect but no recontamination against subject cleanroom environment and products due to its minimal particles, ions and extractable residues. In addition, surface scratches will not be an issue due to attributes of PVA.

RIPPEY 提供了廣泛多樣的孔洞吸水式PVA產品,係針對電子產業無塵室環境污染控制而設計,舉凡無塵室地板、工作桌面甚或產品表面均可套上清潔刷手握滾輪杆而操作。RIPPEY PVA 清潔刷系手動機械式多功能清潔刷,除具備優越的清潔效果,更因其低發塵低殘渣釋出的特性,不會二度污染無塵室環境及產品,並且不會刮傷被清潔物的表面。

► Shared attributes / 可分享的特質

- ISO-certified converting facilities with strict quality assurance protocols  
ISO認證技術移轉的製造設備,提供嚴謹的品質保證
- Xclean processing for minimal particles, ions and extractable residues  
Xclean 清洗過程,可使微塵,離子及殘渣釋出物降至最低
- Noncontaminating, hydrogen peroxide-based sterilant to control bacterial growth  
無污染, 雙氧水為基礎的消毒殺菌可抑制細菌滋生
- Lot-to-lot testing of eight physical parameters  
八種物理特性為基礎做一批接一批的測試
- Full lot traceability  
整批式的品質追蹤
- Class 100 cleanroom packing  
於100級無塵室中包裝
- 條碼式標籤  
Bar code labeling

► Ordering Information / 訂購資訊

TX5533 TX5544 TX5577 TX5377 TX5660 TX5587 TX5580 TX5652 TX5655 TX5559

## ► 抗靜電產品系列 I

HYPERTEK 直流離子風機採用離子同步發射最新技術：離子發生量大，消除靜電速度快，離子平衡度佳，係傳統交流電之離子風扇所不能及。



HT-53-DC  
微型離子風扇

◆ 直流輸出



HT-58-DC  
臺式離子風扇

◆ 直流輸出



HT-55-AC-35  
單頭電源供應器

HT-55-AC-40  
雙頭電源供應器



HT-56-AC  
離子風槍

◆ 交流輸出



HT-59-AC  
橫式離子風扇

◆ 直流輸出  
◆ 三個風扇



SH-3000  
離子風扇

◆ 可調正負離子  
◆ 雙風扇



SPC-1  
離子產生器



SPG-1  
離子風槍

► 抗靜電產品系列II



HT-DC703 直流離子棒

- 棒型、橫置式離子消電器。
- 採用最新除靜電專利技術製造，電性能指標優異。
- 低功耗、高能量狀態下工作。
- 棒體底部特製條形槽口，容易固定。
- 可廣泛應用於電子、光電、印刷、塑膠，紡織等行業。



HT-DC601 直流離子風槍

- 人性化設計，小巧輕便，手感舒適，操作靈活，性能可靠。
- 產生大量平衡良好的正負離子，除塵除靜電效率高。
- 安全性好，高壓電路及高壓發生部件完全封閉安裝在槍體內，無外露。
- 氣、電聯動開關，不通氣時無高壓輸出，提高了離子風槍的使用壽命。
- 故障報警功能。



ETS-212 空間靜電壓測試器



SRM-499 表面阻抗值測試器



BTL202-05 小儲運箱(三格)

- 內徑：570 x 385 x 182 mm
- 外徑：615 x 430 x 195 mm



BTL201-A 可調式週轉箱

- 避免刮傷、碰撞，並可作靈活性的內部調整

► 抗靜電產品系列III



SIMCO

**Ion System MODEL 280**  
**Digital Charged Plate Monitor**  
 數位除電器效能偵測器

- 偵測離子風機除電效能
- 偵測離子風機的離子平衡度



**Ohm-stat RT-1000 Megohmmeter**  
 表面阻抗值测试器

量測電阻係數，溫度，及濕度

- 量測電阻係數/電阻 $10^3\text{-}10^{12}$ 歐姆
- 相對濕度10%到90%RH
- 溫度0-37°C

10伏/100伏雙重測試電壓範圍

- $1 \times 10^3$   $1 \times 10^9$  ohms 使用 10 volts
- $1 \times 10^7$   $1 \times 10^{12}$  ohms 使用 100 volts

應用：

- 測量 - 防靜電/導電墊子，袋子，鞋子，
- 手腕帶，地板，地磚，工作服。



**ARS-H002ZA**  
**Hand-held Electrostatic Voltmeter**  
 手持式空間靜電壓測試器

- SIZE: 134 x 67 x 26 (mm)
- Auto-power off function
- LED flashlight for measurement distance
- 3 measurement modes 三種測量模式
- Electrostatic measuring mode \* automatic switching.
  - Precise mode  $\pm 2\text{kV} / 1\text{V}$  精密測量模式
  - Expanded mode  $\pm 20\text{kV} / 10\text{V}$  擴大測量模式
  - Ion balance mode  $\pm 300\text{kV} / 1\text{V}$  離子平衡測量模式

測量感應頭可作上下角度調整。

附打電板可測除電效能。

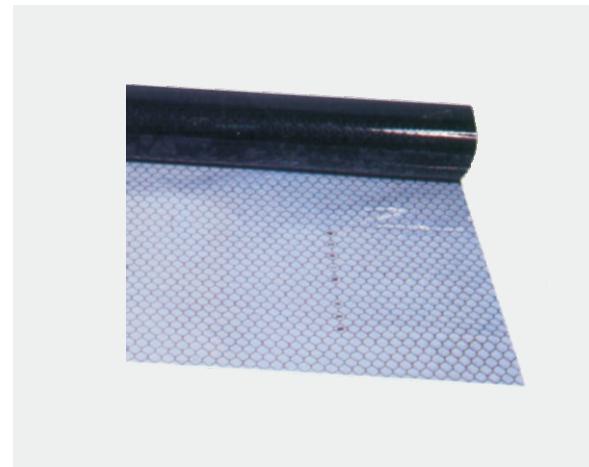
可聯結電腦做資料讀取與追蹤。

► 無塵室周邊耗材系列



清潔滾輪

- 顏色: 藍色
- 尺寸: 4"/8"/11.8" 寬: 18.2M 直徑: 3.8cm
- 把手: L = 20x105cm M = 18x28cm S = 12x23cm



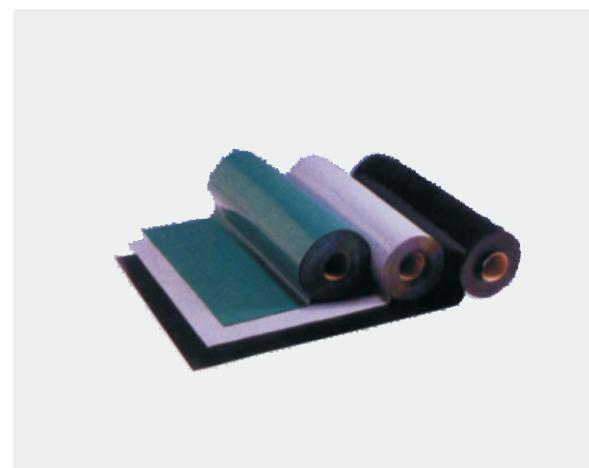
PVC抗靜電膜

- 韌度強,不易破壞,無塵隔間良材
- 各種保護耐熱膠膜,歡迎來電洽詢
- 尺寸: 15M / 30M



抗靜電膠帶

- KS-AS-19X50 19mm x 50碼
- KS-AS-50X50 50mm x 50碼



抗靜電桌地墊

- 顏色: 綠色/黑色
- 整卷尺寸: 1M寬/10M長 2mm厚
- 可依客戶要求裁剪



HP-JM0016 擦拭紙

尺寸: 25x 25cm  
包裝: 100片/包 30包/箱



拋棄式口罩

單層紙口罩: HPM-N01  
雙層不織布口罩: HPM-N02  
三層不織布口罩: HPM-N03  
活性碳不織布口罩: HPM-N04



M-HPS-NB01 拋棄式鞋套

M-HPS-MB01 拋棄式防滑鞋套

M-HPH-N02 拋棄式條狀網帽



抗靜電手環

有線: HR-21  
無線: HR-KS306

► 無塵室周邊耗材系列



靜電消除液 #2003 #2001

水溶產品、無腐蝕、無異味、殺菌配方、防止物品表面、產品、包裝物附著細菌、油污、灰塵等，防止電荷產生

- ◆ 適用場所：電子產品、零組件、裝運箱表面噴附、組裝線、降低PCB虛焊率
- ◆ 使用後有效期：約數週至數月



精密鑷子

- ◆ 重量輕、張力小、操作輕便、舒適耐用、增進工作效率
- ◆ 具有多種尺寸，歡迎洽詢



導電刷

導電刷包含導電性塑膠握柄和高導電性纖維所製成之小直徑刷毛，可以有效消散任何由電暈放電所產生之電荷。

- ◆ 此產品可對ESD敏感之元件做完整的清理，不會像傳統刷子，會產生大量電荷之風險。
- ◆ 天然毛髮與導電纖維提供刷毛的剛性
- ◆ 產品上秀有ESD的記號
- ◆ 尺寸：150.0 mm



抗靜電防火手套 FG-260

表面纖維是使用99% NomexR. 加上1% 抗靜電紗。手套可以短時間承受高達攝氏 300 °C 的高溫。( NomexR的熔解溫度是450 °C)。

- ◆ 本產品是使用連續性長纖製造可以有效降低微塵的產生(不發塵)
- ◆ 可以在無塵室使用

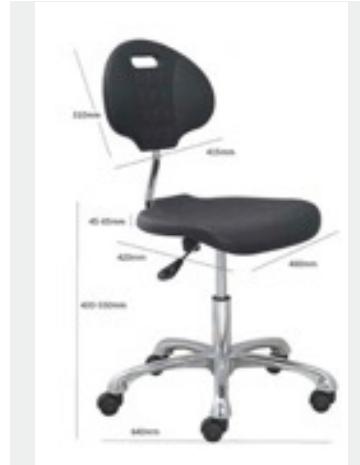
► 無塵室用防靜電椅系列



**標準型  
PU一體成形**

型號: PU601

- 氣壓棒:140mm  
高度: 41 ~ 53cm
- 氣壓棒:200mm  
高度: 48 ~ 66cm
- 氣壓棒:270mm  
高度: 57 ~ 82cm



**提手椅背型  
PU一體成形**

型號: PU603

- 氣壓棒:140mm  
高度: 43 ~ 55cm
- 氣壓棒:200mm  
高度: 49 ~ 67cm
- 氣壓棒:270mm  
高度: 60 ~ 84cm



**防靜電一體成型  
PU自成皮**

型號: EB801

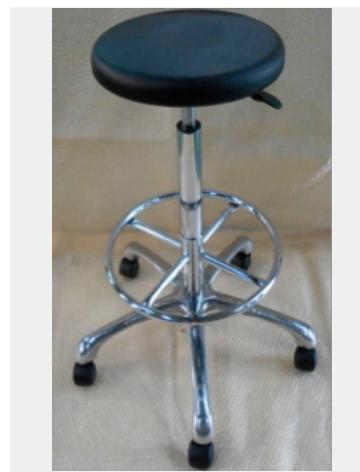
- 氣壓棒:120mm  
高度: 42 ~ 52cm
- 氣壓棒:200mm  
高度: 48 ~ 66cm
- 氣壓棒:270mm  
高度: 59 ~ 84cm



**防靜電型  
PU皮包覆海綿形**

型號: EB802

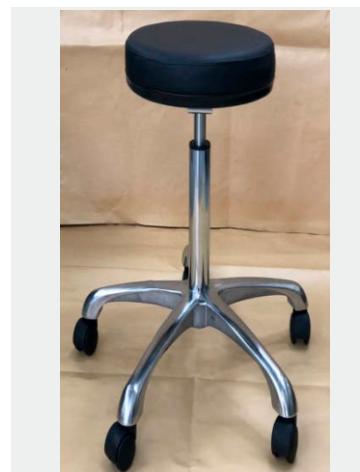
- 氣壓棒:120mm  
高度: 42 ~ 52cm
- 氣壓棒:200mm  
高度: 48 ~ 66cm
- 氣壓棒:270mm  
高度: 59 ~ 84cm



**防靜電一體成型  
PU自成皮**

型號: EB806

- 氣壓棒:120mm  
高度: 42 ~ 52cm
- 氣壓棒:200mm  
高度: 48 ~ 66cm
- 氣壓棒:270mm  
高度: 59 ~ 84cm



**防靜電型  
PU皮包覆海綿形**

型號: EB805

- 氣壓棒:120mm  
高度: 42 ~ 52cm
- 氣壓棒:200mm  
高度: 48 ~ 66cm
- 氣壓棒:270mm  
高度: 59 ~ 84cm

### ► 真空吸筆系列



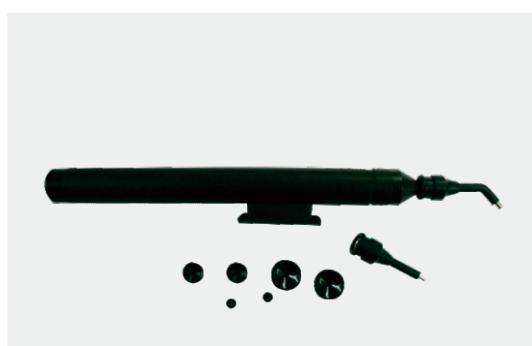
接氣式真空吸筆

- ◆ 連接廠務端氣源
- ◆ 吸力強
- ◆ 連接空壓機氣源
- ◆ 穩穩定性佳
- ◆ 操作方便



筆型吸嘴筆（小型吸嘴組）

- ◆ 高操作效能
- ◆ 具抗靜電特性
- ◆ 四種吸盤



VETCECH 高能真空吸筆

- ◆ 高操作效能
- ◆ 二種吸嘴
- ◆ 三種吸盤（各兩個）
- ◆ 具抗靜電特性



筆型吸嘴筆 (3cm 吸嘴)

- ◆ 操作簡單
- ◆ 功能強
- ◆ 適用於IC 及光電產業



HANDI-VAC 簡易型真空吸筆

- ◆ 高操作效能
- ◆ 四種吸嘴及吸盤組
- ◆ 具抗靜電特性



大球吸嘴筆 (3cm 吸嘴 )

- ◆ 操作簡單
- ◆ 功能強
- ◆ 適用於IC及光電產業

► 無塵室用吸塵器系列



丹麥 Nilfisk GM-80

無塵室1級 ~ 100級使用

- 可連續運轉2000時,轉速19800rpm/min
- 具有馬達過熱保護開關
- 另有HEPA & ULPA兩種排氣過濾器可供選購
- 透過不同的過濾器, 可分別過濾 $0.68 \mu m$ 、 $0.3 \mu m$ 、 $0.12 \mu m$ 微塵達99.97%以上



義大利 Hospital

無塵室10級 ~ 100級使用

- 四層高效率過濾網, 含2層HEPA過濾器, 可過濾 $0.3 \mu m$
- 低噪音, 不銹鋼集塵桶, 馬達具雙重負載保護



英國 Numatic CRQ-300

無塵室10級 ~ 100級使用

- 四大過濾系統,含2層HEPA過濾器
- 可過濾 $0.3 \mu m$ 微塵達99.97%



英國 Numatic NV-250

無塵室1000級使用

- 三大過濾系統,含一層HEPA過濾器
- 可過濾 $0.3 \mu m$ 微塵

► 無塵室用擦拭紙



吸油紙

- 100% PP
- 顏色: 藍色
- 尺寸: 32cm x 34cm

無塵紙

- 1/4 折疊 (網孔)
- 顏色: 白色
- 尺寸: 23cm x 23cm  
25cm x 25cm

超韌擦拭布

- 卷狀、點斷
- 顏色: 白色
- 尺寸: 22cm x 30cm
- 4KG/捲 (約700張) 2捲/箱

低塵紙

- 單片抽取式
- 顏色: 白色
- 尺寸: 11cm x 21cm
- 280片/盒 60盒/箱

► 手握式除塵滾輪系列

手握式除塵滾輪：電子級橡膠、矽膠黏塵滾輪，接受客製尺寸規格。



除塵滾輪

- 3 cm寬

除塵滾輪

- 5 cm寬

除塵滾輪

- 15/20 cm寬

除塵滾輪

- 30 cm寬

► 無塵室專業不銹鋼桌、台、車、架

無塵室專業不銹鋼桌、台、車、架，可依客戶需求訂製。



光桌  
客製尺寸



工作車  
客製尺寸



台車  
客製尺寸



台車  
客製尺寸

## ► 工安防護器材用品系列



TYVEK D級連身防護衣

WDP-TY-9088

- ◆ 型式: 套頭/長袖/鬆緊袖口/鬆緊褲口/車縫烤克
- ◆ 顏色: 白色



TYVEK C級連身防護衣

WDP-TC-9088

- ◆ 型式: TYVEK基布加一層PE聚合物塗層組成,連身含頭套,
- ◆ 貼帶縫合處理.
- ◆ 顏色: 黃色



耐酸鹼圍兜(反穿式) / 有袖

WSO-NP-9060

耐酸鹼圍兜(反穿式) / 無袖

WSO-NP-0818

耐酸鹼連身衣

WSO-NP-9080



TYVEK D級長筒型鞋套

WDP-TY-6169

- ◆ 型式: 靴口鬆緊帶, 高17" PVC防滑鞋底
- ◆ 顏色: 白色



半面式防毒面具

3AHPKHRB6200



防熱防撞擊鏡片(組合式)

3AHPKHRHSOB921+B922



橡膠手套

3AHPKGRCGSO506

- ◆ 防酸鹼等化學處理、油污處理及防水濺等
- ◆ 長度: 30CM
- ◆ 厚度: 0.95mm
- ◆ 顏色: BLACK



防熱矽膠手套

3AHPKGRCBDL200



防酸鹼手套

3AHPKGRCMPNP450



耐電壓手套

3AHPKGRCGSBGL20K

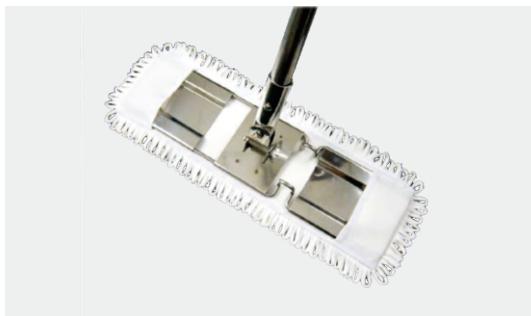
3AHPKGRCGSBGL30K

3AHPKGRCGSBGL40K

- ◆ 矽膠材質、完全防水、耐熱耐溶劑、樹脂等  
具斷熱素材層及尼龍強化內裡，可用於  
瞬間高溫400°C
- ◆ 200°C (約7秒)    150°C (約15秒)
- ◆ 長度: 27 or 40 or 55 CM
- ◆ 厚度: 2.95mm
- ◆ 顏色: WHITE

- ◆ 耐酸鹼，防化學藥品作業，耐磨，耐切割
- ◆ 長度: 41CM
- ◆ 厚度: 0.75mm
- ◆ 顏色: BLACK

- ◆ 橡膠添加防電壓材質  
20KV / 30KV / 40KV
- ◆ 斷電及配電作業或其他緊急搶救作業
- ◆ 長度: 46CM
- ◆ 顏色: BLACK



### 無塵室用平面樓板拖把

- Superb absorbency
- Low in particulate
- Strong chemical resistance
- Sterilizable : autoclave or gamma
- Heat resistant
- Slides easily on smooth floors
- Takes less time and labor
- Launderable for reuse
- Electrostatic dissipative safe frame



### 無塵室用牆面、天花板拖把

- Effective and efficient cleaning
- Strong chemical resistance
- Ultra-low particle generation
- Widest surface coverage
- Lowest operator fatigue



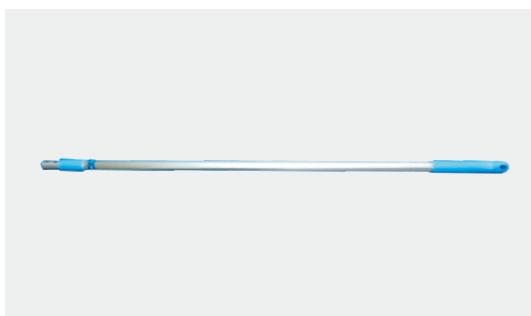
### 無塵室用樓板條布拖把

- Cleanest floor available for cleanroom use
- Continuous tube of 100% polyester knitted fabric looped to form tubular mop stands
- Specifically engineered for wet mopping cleanrooms
- Fully autoclavable



### 超值型無塵室用大容量吸塵器

- Voltage: AC110V 220V / 50 60 Hz
- Vacuum motor: 1350W / 1.8HP
- Tank Size: 19.8L / Weight: 14kgs
- Inhalation Filter: Paper filter
- Exhalation Filter: HEPA filter ( High Efficiency Particulate Air Filter )
- PACKING: 1pc / carton
- SIZE: 410mm x 410mm x 540mm



### 伸縮桿



### 導電(抗靜電)PP檔案夾

- Excellent ESD Function Surface resistivity (10E5 ~ 7/SQ)
- Keeps initial surface resistivity even wiping with IPA or alcohol
- Specification
  - Standard 2 holes type A4 size
  - Standard 30 holes type A4 size



### 抗靜電PP文件袋

- Available size : A4/A3
- Surface resistance : 10E9 ~11
- ESD Logo printed



### 抗靜電文件夾

- Excellent ESD function (10E6 ~ 10E7Ω/SQ)
- 2 Sides open
- A4 size, 10pcs/bag



### PE 彈性緩衝滾輪膠帶

- Application
  - PCB, Electronics, Cleanroom
  - Cleaning for parts , products, machine, table... etc.
- Standard Size
  - 80mm x 20M, 1.5" core
  - 160mm x 20M, 1.5" core
  - 320mm x 20M, 3" core



無塵室用筆記板 A4

3AHPNCCTCF103-1

無塵室用筆記板 A5

3AHPNCCTCF103-2

Material: PETG Color: Black



抗靜電計算機

3AHPNCCTCF211-2

Material: ABS



抗靜電立式公文架 (A4, 3Layers)

3AHPNCCTCF215-2

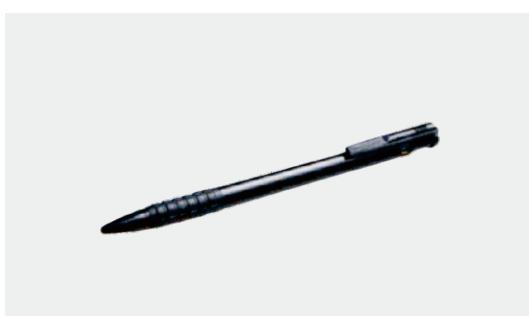
Material: ABS Color: Black



抗靜電可推疊三層公文架 (A4)

3AHPNCCTCF215-3

Material: ABS Color: Black



抗靜電原子筆 紅色 50支/包

3AHPNCCTCF216-1

抗靜電原子筆 藍色 50支/包

3AHPNCCTCF216-2

抗靜電原子筆 黑色 50支/包

3AHPNCCTCF216-3

Material: ABS Length: 14.5cm



抗靜電訂書機

3AHPNCCTCF217-2

Material: ABS



抗靜電桌上型膠台

3AHPNCCTCF221-2

Material: ABS  
Specifcaiton : Tape inner  
Width 25mm Below, Diameter 25mm



抗靜電手用膠台

3AHPNCCTCF221-4

Material: ABS  
Specifcaiton : Tape inner  
Width 60mm Below, Diameter 75mm



抗靜電工具箱

3AHPNCCTCF241

Size: 350x180x150mm

► 無塵室膠帶系列



地板分區識別膠帶

- Color: Red, Yellow, Blue, Green, White, Yellow/Black
- Width: 25mm, 50mm, etc.
- Length: 50M

PET抗靜電膠帶

- Color: Red, Yellow, Blue, Green, White, Yellow/Black
- Width: 25mm, 50mm, etc.
- Length: 50M

PET抗靜電膠帶

- Antisatic PET tape
- Packing the sensitive semiconductor devices
- Width: 25mm, 50mm, etc.
- Length: 50M



無塵室通用膠帶

- Color: Red, Yellow, Blue, Green, White, Orange
- Width: 25mm, 50mm, etc.
- Length: 33M

耐熱膠帶

- Color: Amber
- Width: 9mm, 12mm, 19mm, 25mm, etc.
- Length: 33M

抗靜電透明膠帶

- Packing Tape for sensitive semiconductor devices
- Color: Clear, Clear with ESD logo
- Width: 20mm, 25mm, 48mm, 50mm, etc.
- Length: 50M