

Micro Contamination Control @ C L E A N R O O M



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STREAM OF PRODUCTS & SERVICES

- Micro Contamination Control
- Healthcare and Bio-Medical supplies
- Personal Protective Equipment
- Electrostatic Discharge Control
- Dry Packaging / Electronic Packaging Materials
- Electronic Equipment and Tools
- Chemicals for Electronics Industry







With ISO9001 and ISO14001 certified manufacturing plants in Singapore, Malaysia, China and Europe; 45 offices across 24 countries, it serves its worldwide customers with the philosophy of "Global Capability, Local Focus".

It has leading position in Electrostatic Control, Micro-Contamination Control and Dry-Packaging.







Cleanroom is a facility in which the air supply, air distribution, filtration of air supply, material of construction, and operating procedures are regulated to control airborne particle concentration to meet appropriate cleanliness levels defined by ISO 14644 (Formerly Federal Standard 209E).

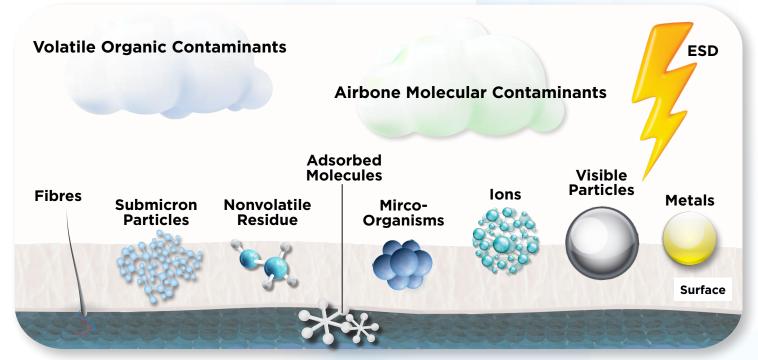
CLEANROOM CLASSES - STANDARD COMPARISON

ISO Classification Number	Maximum concentration limits (particles/m³ of air) for particles equal to and larger than sizes shown below							≈ Fed. Std 209D
	0.1 μm	0.2 μm	0.3 μm	0.5 μm	1.0 µm	5.0 μm		
ISO Class 1	10	2						
ISO Class 2	100	24	10	4				
ISO Class 3	1,000	237	102	35	8		M1.5	Class 1
ISO Class 4	10,000	2,370	1,020	352	83		M2.5	Class 10
ISO Class 5	100,000	23,700	10,200	3,520	832	29	M3.5	Class 100
ISO Class 6	1,000,000	237,000	102,000	35,200	8,320	293	M4.5	Class 1,000
ISO Class 7				352,000	83,200	2,930	M5.5	Class 10,000
ISO Class 8				3,520,000	832,000	29,300	M6.5	Class 100,000
ISO Class 9				35,200,000	8,320,000	293,000	M7.5	



Typical Applications
PharmaceuticalsResearch LaboratoriesFood Grade Equipment
Printed Circuit BoardsPrecision Metering EquipmentPharmaceutical Fluids
Electronic ComponentsMedical DevicesFloppy Disks
 Optics Disk Drives Semiconductor Networks
Semiconductor FabricationThin Film ManipulationFlat Panel Displays







Non-Woven Wipes



- Economic low lint wipes
- Good water and oil absorbency

Product Code	Size (cm)	Packing
DYC100-01-CLEANZE-NW-2525	25 X 25	100pcs / 30 pkts / ctn



ESD Wipes (White)

- Knitted Polyester with proprietary ESD chemical.
- Superb for ESD-sensitive applications

Product Code	Size	Packing
DYC100-01-SSESDW-P145DLE-8-33	3" X 3"	600pcs / 20 Bags / ctn
DYC100-01-SSESDW-P145DLE-8-66	6" X 6"	150pcs / 20 Bags / ctn

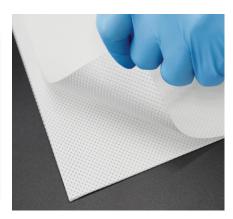


Polka Dot Wipes



- Tough and durable
- Easily absorbs oil and most solvents
- Made of Polypropylene fibres which are highly chemical resistant.

Product Code	Size (cm)	Packing
DYC100-01-CLEANZE-POLKA-DOT-2930	29 X 30	50pcs / 10 Bags / ctn



ESD Wipes

- · Knitted Polyester with carbon fiber
- Superb for ESD-sensitive applications

Product Code	Size	Packing
DYC100-01-DYCLEAN-ESD-44	4" X 4"	300pcs / 10 Pkts / ctn
DYC100-01-DYCLEAN-ESD-99	9" X 9"	150pcs / 10 Pkts / ctn



Mop Set

- Head material is laundered
- 100% woven polyster + microfiber + ESD fiber
- Flat with replaceable foam pad

Product Code	Feature
DYC100-01-SMT-FLEXI-MOP-SET-RED	Replacement Head



Mop Wiper with Inner Foam

- For cleaning floors and walls of the cleanroom.
- Mop heads are replaceable & constructed from 100% knitted polyster or microfibert
- Low contamination levels, high absorbency & excellent abrasion resistance

Product Code	Size (cm)	Package
DYC100-01-DYCLEAN-FLEXI-MOPWIPER-IF	40 X 21	1pc / 1pkt



Micro Denier Wipes (Heavy Duty)

- Made of micro thin fibers with highest degree of cleanliness
- Superior moisture and oil absorbency
- Non-abrasive

Product Code	Size	Packing
DYC100-01-DYCLEAN-MICRO-DENIER-HD-66	6" X 6"	100pcs / 20 Pkts / ctn
DYC100-01-DYCLEAN-MICRO-DENIER-HD-99	9" X 9"	100pcs / 10 Pkts / ctn



Microlite Wipes

- 100% polyester
- · Economical choice of polyester wipes
- Lint free

Product Code	Size	Packing
DYC100-01-DYCLEAN-MICROLITE-44	4" X 4"	600pcs / 10 pkts / ctn
DYC100-01-DYCLEAN-MICROLITE-99	9" X 9"	150pcs / 10 pkts / ctn



Microwhite SD Wipes

- 100% polyester
- Low extractable particles and metallic ions contaminants
- Laundered by D.I. water

Product Code	Size	Packing
DYC100-01-DYCLEAN-MICROWHITE-SD-44	4" X 4"	600pcs / 10 pkts / ctn
DYC100-01-DYCLEAN-MICROWHITE-SD-99	9" X 9"	150pcs / 10 pkts / ctn



Micro-Star Wipes

- Made of super fine microfibers
- State of art technology in absorbent structures
- Remove all particles or dirt without scratching surface of the object

Product Code	Size (cm)	Packing
DYC100-02-01-2524	25 X 24	100pcs / 10 pkts / ctn



PVA Sponge

- Developed specifically for wet cleaning applications in the controlled environment
- Absorb and hold water or liquid 12-18 times higher than its own weight

Product Code	Size	Packing
DYC100-02-WW-1209	9" X 9"	10pcs / 20 pkts / ctn



Industrial Roll Wipes

- Wypall L10 features strength and durability for general cleaning tasks
- High volume, economical & multi-purpose wipes
- Single use applications

Product Code	Size	Packing
DYC100-03-202715	31cm X 600m	2 rolls / ctn



Wypall L30 Wipes

- Versatile, highly absorbent wipes
- Multi-ply capacity for wiping off large spills

Product Code	Size (cm)	Packing
DYC100-03-2810100	43 X 42	450pcs / ctn



Wypall 33560 Wipes

- Economical alternative to rags and towels
- Low Linting
- Provide excellent wiping performance of heavy clean up

Product Code	Size (cm)	Package
DYC100-03-33560	27 X 30	66 sheets / 8 bags / ctn



Kimtech Science Kimwipes

- Versatile options for critical and delicate tasks
- Lab cleaning surface / parts cleaning, instrument and lens cleaning
- Low lint and low extractables

Product Code	Size (cm)	Packing
DYC100-03-34256	37 X 42	140pcs / 15 boxes / ctn
DYC100-03-34155	11 X 21	280pcs / 60 boxes / ctn



■ Wypall X-70 Wipes

- Made of high-tech, hydroknit fast absorbing material
- Strong, bulky and ideal for tough jobs
- Clean oil, grime and grease with just one wipe

Product Code	Size (cm)	Packing
DYC100-03-9541200	28 X 35	90pcs / 8 pkts / ctn



Kimwipes S-200

- 100% pulp materials
- Ideal for wiping down electronic components, lenses and precision equipment

Product Code	Size (cm)	Packing
DYC100-03-S200	12 X 21.5	200pcs / 72 boxes / ctn



Dusper Sigma wipes

- Cleaning tissue made of rayon single thread material
- Suitable for cleaning optical lenses

Product Code	Size (mm)	Packing
DYC100-05-01	100 X 220	150pcs / 50 boxes / ctn



Border Sealed Edge Wipes



- 100% continous-filament, double-knit polyester fabric for heavy duty use
- Straight knit with 5mm border sealed edges
- Suitable for ISO4 cleanroom applications

Product Code	Size	Packing
DYC100-20-DYCLEAN-P150BG100-II-66	6" X 6"	300pcs / 12 pkts / ctn
DYC100-20-DYCLEAN-P150BG100-II-99	9" X 9"	150pcs / 8 pkts / ctn





Wipes Texture

Polysi3 Wipes



- 100% high strength polyester fiber for light duty use
- Straight knit with laser sealed edges
- Suitable for ISO 6 cleanroom applications

Product Code	Size	Packing
DYC100-20-DYCLEAN-P110LS1K-66	6" X 6"	300pcs / 12 pkts / ctn
DYC100-20-DYCLEAN-P110LS1K-99	9" X 9"	150pcs / 12 pkts / ctn

PolyGo3 Wipes

- 100% high strength polyester fiber for light duty use
- Straight knit with laser sealed edges
- Suitable for ISO 5 cleanroom applications

Product Code	Size	Packing
DYC100-20-DYCLEAN-P110LG100-44	4" X 4"	600pcs / 8 pkts / ctn
DYC100-20-DYCLEAN-P110LG100-99	9" X 9"	150pcs / 8 pkts / ctn

PolyGo1 HD Wipes

- 100% knit polyester fabric for heavy duty use
- Straight knit with laser sealed edges
- Suitable for ISO 5 cleanroom applications

Product Code	Size	Packing
DYC100-20-DYCLEAN-P150LG100-66	6" X 6"	300pcs / 12 pkts / ctn
DYC100-20-DYCLEAN-P150LG100-99	9" X 9"	150pcs / 8 pkts / ctn

Black Polyester Wipes



- 100% knitted polyester fabric
- Black colour allows easy identification of dirt on cleaning
- Can be used for cleaning and inspecting operator's makeup or residue on chambers

Product Code	Size	Packing
DYC100-20-DYCLEAN-SSWE1002D-LE140-22	2" X 2"	500pcs / 40 Bags / ctn





BENCOT NUPES

Bemcot Wipes EA-8

- Folded 8 folds to eliminate exposure of wipes edges
- Soft type

Product Code	Size (cm)	Packing
DYC101-01-02	30 X 25	100pcs / 30 pkts / ctn



Bemcot Wipes M3-II

- The standard wipers of the Bemcot series
- Can be used flexibly in the maintenance of devices, the cleaning of screens and for wiping inside and around a cleanroom

Product Code	Size (cm)	Package
DYC101-01-03-M3-II	25 X 25	100pcs / 30 pkts / ctn



Bemcot S2

• Soft wipers identical size as M3

Product Code	Size (cm)	Package
DYC101-01-04	25 X 25	150pcs / 30 pkts / ctn



Bemcot M1

• Smaller version of M3 suitable for cleaning small areas

Product Code	Size (cm)	Packing
DYC101-01-05	15 X 15	100pcs / 30 pkts / ctn



Bemcot Wipe P

- Versatile, highly absorbent wipes
- Multi-ply capacity for wiping off large spills

Product Code	Size (cm)	Packing
DYC101-01-07	10 X 21	300pcs / 60 boxes / ctn



Bemcot PS2

- Versatile, highly absorbent wipes
- Multi-ply capacity for wiping off large spills

Product Code	Size (cm)	Packing
DYC101-01-09	10 X 21	300pcs / 48 pkts / ctn



Bemcot Super CN

- Versatile, highly absorbent wipes
- Multi-ply capacity for wiping off large spills

Product Code	Size (cm)	Packing
DYC101-01-10	24 X 30	50pcs / 20 pkts / ctn

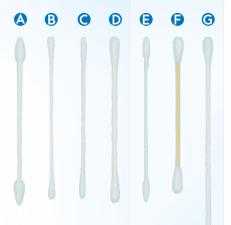




Micro-Stick

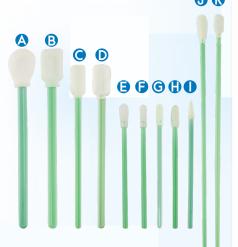
- The head is made from micro-porous polyurethane foam and attached to a strong polypropylene stem mechanically without adhesive
- Extremely soft with ultra-low particle generation
- PP Stem reusable and heads replaceable with spares

Product Code	Packging	Tip Diameter
A DYC110-01-F5	100pcs / 10 pkts/ 4 Box / ctn	Ø 5 mm
a DYC110-01-F5H (Only Head)	500pcs / 2 Bags / 3 pkts / 4 Box / ctn	Ø 5 mm Flat
■ DYC110-01-F8	100pcs / 6 pkts / 4 Box / ctn	Ø8mm
DYC110-01-F8H (Only Head)	200pcs / 2 Bags / 5 pkts / 4 Box / ctn	Ø 8 mm Flat
■ DYC110-01-S5	100pcs / 10 pkts / 4 Box / ctn	Ø 5 mm
DYC110-01-S5H (Only Head)	500pcs / 2 Bags / 3 pkts / 4 Box / ctn	Ø 5 mm Slant
DYC110-01-S8	100pcs / 6 pkts / 4 Box / ctn	Ø8mm
d DYC110-01-S8H (Only Head)	200pcs / 2 Bags / 5 pkts / 4 Box / ctn	Ø 8 mm Slant
■ DYC110-01-S3	200pcs / 10 pkts / 4 Box / ctn	Ø 3 mm
■ DYC110-01-S3H	1000pcs / 3 Bags / ctn	Ø 3 mm Slant



Cotton Swab

Product Code Description		Packing
DYC110-SM-SSCA003-02-3-	2 headed, 3" paper stem- Cone	25pcs/50pkts
PA-CTRH	Shaped Head, L: 81 mm	/20boxes/ctn
DYC110-SM-SSBB001-02-3-	2 headed, 3" paper stem- Regular	25pcs/100pkts
PA-RH	Head, L: 75.5 mm	/20boxes/ctn
DYC110-SM-SSBB002-02-3-	2 headed, 3" paper stem- Small	25pcs/100pkts
PA-SH	Head, L: 75.5 mm	/20boxes/ctn
DYC110-SM-SSCA002-02-3-	2 headed, 3" paper stem- Thick	25pcs/50pkts
PA-TRH	Regular Head L: 75.5 mm	/20boxes/ctn
■ DYC110-SM-SSBB003-02-3-	2 headed, 3" paper stem- Very	25pcs/100pkts
PA-VSH	Sharp Head L: 79 mm	/20boxes/ctn
DYC110-SM-SSCA006-DH-3-	2 headed, 3" wooden stem- Regular	25pcs/80pkts
02-3-W-RH	Head L: 78 mm	/20boxes/ctn
© DYC110-SM-SSCA006PH-01-	1 headed, 6" paper stem- Thick	100pcs/10pkts
6-PA-TRH	Regular Head L: 149 mm	/20boxes/ctn



■Foam/Polyester Swab

Product Code	Description	Length	Packing
▲ DYC110-08-132MM-708FS-FOAM	Foam	132mm	50pcs/50pkts/ctn
■ DYC110-08-131MM-707FS-FOAM	Foam	131mm	50pcs/50pkts/ctn
■ DYC110-08-126MM-712FS-FOAM	Foam	126mm	50pcs/50pkts/ctn
DYC110-08-128MM-714PS	Polyester	128mm	100pcs/50pkts/ctn
■ DYC110-08-70MM-743PS	Polyester	70mm	500pcs/50pkts/ctn
■ DYC110-08-70MM-758LPS	Polyester	70mm	500pcs/50pkts/ctn
■ DYC110-08-68MM-741FS-FOAM	Foam	68mm	100pcs/50pkts/ctn
■ DYC110-08-71MM-742FS-FOAM	Foam	71mm	500pcs/50pkts/ctn
■ DYC110-08-76MM-750FS-FOAM	Foam	76mm	500pcs/50pkts/ctn
■ DYC110-08-163MM-740FS-FOAM	Foam	163mm	100pcs/50pkts/ctn
■ DYC110-08-164MM-761PS	Polyester	164mm	100pcs/50pkts/ctn

CLEANZETM

Cleanroom PVC Glove

- Powder-Free
- Anti-Static
- Low ion contamination Ideal for microelectronics process

Product Code	Size	Packing
DYC200-01-01-9-DYCLEAN-S/M/L/XL	9"/S,M,L,XL	100pcs / 10pkts / ctn
DYC200-01-01-12-DYCLEAN-S/M/L/XL	12"/S,M,L,XL	100pcs / 10pkts / ctn



Cleanroom Latex Glove (Textured)



- Highly resistant to low concentration acid and alkalis, abrasion and tearing
- Suitable for Class 100 or higher
- Ideal for cleanroom, disk-drive and related industries (HGA,HSA, etc.)

Product Code	Size	Packing
DYC200-02-N-9-T-S/M/L	9"/S,M,L	100pcs / 10pkts / ctn
DYC200-02-12-CLEANZE-T-S/M/L	12"/S,M,L	100pcs / 10pkts / ctn
DYC200-02-C100-9-T-S/M/L (Class 100)	9"/S,M,L	100pcs / 10pkts / ctn
DYC200-02-C100-12-T-S/M/L (Class 100)	12"/S,M,L	100pcs / 10pkts / ctn



Cleanroom Nitrile Glove (Finger textured)



- Eliminates risk of latex allergy reaction
- Better chemical and abrasion resistance than latex gloves
- Low odour

Product Code	Size	Packing
DYC200-93-N-9-T-S/M/L/XL	9"/S,M,L	100pcs / 10pkts / ctn
DYC200-93-N-12-S/M/L/XL	12"/S,M,L	100pcs / 10pkts / ctn
DYC200-93-C100-9-T-S/M/L/XL (Class 100)	9"/S,M,L	100pcs / 10pkts / ctn
DYC200-93-C100-12-T-S/M/L/XL (Class 100)	12"/S,M,L	100pcs / 10pkts / ctn



Nylon Tricot Glove



- 100% Nylon
- Soft and smooth
- Lint free

Product Code	Size	Packing
DYC200-99-NT-S/M/L	S,M,L	12pcs / 50doz / ctn



Anti-Static Lint Free Glove

- 100% polyester
- Made with continuous less-linting filament knitted with carbon fibre

Product Code	Size	Packing
DYC200-99-S/M/L	S,M,L	12prs / 50doz / ctn



Anti-Static Glove with PVC dots on palm

- 100% polyester
- · Anti-Static and lint free
- PVC dots on palm for better grip

Product Code	Size	Packing
DYC200-99-PVC-S/M/L	S,M,L	12prs / 50doz / ctn



Conductive Knitted Glove (Palm fit/Top fit)



- Easily absorbs oil and most solvents
- Made of polypropylene fibres which are highly chemical resistant

Product Code	Size	Packing
DYC200-PU-COND-PF-DYCLEAN	S/M/L	10pcs / 25pkts / ctn
DYC200-PU-COND-TF-DYCLEAN	S/M/L	10pcs / 25pkts / ctn



Nylon Knitted Glove (Palm fit/Top fit)



- 100% Nylon with PU coated at Palm (for PF), and at finger tips (For TF) for anti-slip property
- Ideal for clean environment and precise operations

Product Code	Size	Packing
DYC200-PU-PF-DYCLEAN-S/M/L/XL	S,M,L,XL	10pcs / 25pkts / ctn
DYC200-PU-TF-DYCLEAN-S/M/L/XL	S,M,L,XL	10pcs / 25pkts / ctn



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Anti-Static High Temperature Glove

- Materials used are lint-free, anti-static and grided with conductive lining
- Sewn for use in cleanroom environment with low particle generation
- Available in 150 °C and 300 °C
- Suitable for cleanroom application, IC industrial furnaces, Biomedical industry specifically on ESD protection

Product Code	Size	Packing
DYC200-06-01 (150 °C)	Free	1 pair / pkt
DYC200-06-01 -LONG45CM (150 °C)	Free	1 pair / pkt
DYC200-06-02 (300 °C)	Free	1 pair / pkt
DYC200-06-02-T-300L (300 °C)	Free	1 pair / pkt





Ultra High Temp. Glove

- Made from "Zylon" material which has the highest heat resistance and strongest property in organic fiber developed by Toyobo; long fibre woven, dissipative fiber used in clean room compatible gloves
- Excellent heat and chemical resistance
- Maximum withstand temperature 500 °C (material dissolve temperature 650 °C)
- Very strong shearing resistant type
- Low lint generation: Under Class 100 clean room compatible

Product Code	Size	Packing
DYC200-06-03	Free	1 pair / pkts

Special High Temp. Glove

- Made from Silicone materials
- Extremely comfortable for extended wear
- Outstanding abrasion and puncture resistance
- Glove materials resist solvents, fluxes, abrasions and cuts
- Handle heat up to 200 °C in both wet and dry conditions
- Contains no PVC, abestos or fiberglass hazards
- IC fabricating wafer boat handling system during diffusion furnace work

Product Code	Size	Packing
DYC200-06-04	Free	1 pair / pkts

Chemical Resisance Glove

- Made of special synthetic rubber designed for handling ultra-strong mixed acids like hydrofluoric acid and aqua regia
- Used in the semiconductor manufacturing eg. Transistor, etching on glass and metals; plating, dyeing and chemical factories; and other chemical handlings
- Specially for handling ultra-strong acids and alkalis

Product Code	Size	Packing
DYC200-08-A32	Free	1 pair / box







Hairnet, Non-woven, 12G

- Made from spun bonded non-woven. thermally sealed waffle pattern PP
- Anti-fraying

Product code	Size	Packing
DYC300-01-HAIRNET/BAG-DYCLEAN-12G	Flat	100pcs/10bags/ctn
DYC300-01-PLEATED-HAIRNET -DYCLEAN-12G	Pleated	100pcs/10pkts/ctn







Pleated



Shoe Cover









Product code	Size	Packing
DYC300-10-1536-DSC-DYCLEAN-3G	CPE, 15cm X 36cm	100pcs/20bags/ctn
DYC300-10-1541-DSC-DYCLEAN-HD	CPE, 16" Heavy Duty	100pcs/20bags/ctn
DYC300-10-CLEANZE-NWSC-BL	Non-woven	100pcs/10bags/ctn
DYC300-10-1646-A/SLIP-NW-SC-BL-40G	Non-woven, Blue 18"	100pcs/10pkts/ctn
DYC300-10-NW-SC-CONDSTRIP-FILM-BL	Non-woven, Conductive strip, Blue	100pcs/10pkts/ctn

Sticky Roller

- Tacky Tape made from LDPE which is cushiony and guarantees noise-free entrapment of dust, dirt and lint
- Perforated tape to ensure easy tear-off
- Roller tape is easy to replace
- Colours: White and Clear
- Available in ESD version

Handle

	Size	Packing
80 (or 160mm	10pcs / ctn



CCT-80

REFILL			
Product code	Description	Packing	
DYC400-TK-080S-CL	Refill-80mm (w), Clear, L-20m	200 rolls / ctn	
DYC400-TK-080S-WH	Refill-80mm (w), White, L-20m	200 rolls / ctn	
DYC400-TK-100S-WH	Refill-100mm (w), White, L-18m	200 rolls / ctn	
DYC400-TK-160S-WH	Refill-160mm (w), White, L-18m	100 rolls / ctn	
DYC400-TK-200S-WH	Refill-200mm (w), White, L-18m	100 rolls / ctn	
DYC400-TK-300S-WH	Refill-300mm (w), White, L-18m	50 rolls / ctn	
DYC400-TK-080S-CL-ESD	Refill-80mm (w), Clear, L-20m, ESD	200 rolls / ctn	
DYC400-TK-100S-WH-ESD	Refill-100mm (w), White, L-18m, ESD	200 rolls / ctn	
DYC400-TK-160S-WH-ESD	Refill-160mm (w), White, L-18m, ESD	100 rolls / ctn	
DYC400-TK-200S-WH-ESD	Refill-200mm (w), White, L-18m, ESD	100 rolls / ctn	
DYC400-TK-300S-WH-ESD	Refill-300mm (w), White, L-18m, ESD	50 rolls / ctn	



Sticky Mats



- Removes contamination on shoes heels, soles and wheels
- Numbered corner tabs for easy removal of used sheet
- Use with or without frame

Product code	Description	Packing
DYC410-01-CLEANZE-BL-2436-10	Blue-24"x36"	30 Sheet/10mats/ctn
DYC410-01-CLEANZE-BL-2645-10	Blue-26"x45"	30 Sheet/10mats/ctn
DYC410-01-CLEANZE-WH-2436-10	White-24"x36"	30 Sheet/10mats/ctn
DYC410-01-CLEANZE-WH-2645-10	White-26"x45"	30 Sheet/10mats/ctn
DYC410-CLEAN-WALK-CW-900B	WASHABLE Sticky Mat, Blue- 500mm x 900mm x 5mm (Thickness)	5pcs/ctn
DYC410 TK-WASHABLE-1.2X10M	Slim washable sticky mat, Grey- 1.2m X10m X 0.65mm (Thickness)	1 Roll/ctn



Cleanroom Paper

CLEANZETM

- Cleanroom paper is specially designed for writing, printing in cleanroom environment. Through polymerization process, fibres lint and particulates are tightly bounded to eliminate contamination.
- Colour available in Blue, Light Blue, Orange, White, Yellow, Green, Pink, Violet, Brown

Product code	t code Description Packing	
DYC500-10-WJ	A4-210mm x 297mm (72gsm)	250pcs/10pkts/ctn
DYC500-10-WJ-A3	DYC500-10-WJ-A3 A3-420mm x 297mm (72gsm)	
	Colour available:	Brown
Blue	Orange Yellow	White
Light Blue	Green Pink	Violet



Clean Notebook (A4/A5 Size)

 A convenient way to leave messages and takes notes without sacrificing cleanliness

Product Code	Size (mm)	Packing
DYC500-10-WJ-KMCS-A4	210 x 297	50 Sheets / 40 books / ctn
DYC500-10-WJ-KMCS-A5	210 x 148	50 Sheets / 50 books / ctn



ESD Clip Board (A4 Size)

- Made of anti-static PVC board with a chrome plated clip
- UV-coated clean surface minimizes scratch

Product Code	Size (mm)	Packing
DYC500-12-ESD-CLIP BOARD-DYCLEAN	210 x 297	1pc / 1 pkt

Cleanroom Tape

- Suitable for cleanroom use
- Available in multiple sizes
- 3 types with classification as below:







Antistatic Vinyl Tape with ESD logo



Polyimide Tape

Product code	Description	Length	Width	Packing
DYC510-TK-CL 500-WidthX50m	A 1: 1 1: 0 II I	FO	12.7, 19, 25mm	100rolls/ctn
DYCSIO-TK-CESOO-WIGHTXSOM	Antistatic Cellulose	50m	50, 80mm	50rolls/ctn
DYC510-TK-HCPAS174-WidthX33m Antistatic Vinyl Tap with ESD logo	Antistatic Vinyl Tape		12.7, 19, 25mm	60rolls/ctn
	with ESD logo		50, 75mm	30rolls/ctn
DVCT10 TV VT170 A C \ Wildely V77 FCD D-b ii id- T-i		77	9, 12.7, 16, 19, 25mm	60rolls/ctn
DYC510-TK-YT130AS-WidthX33m	ESD Polyimide Tape	33m	50.8, 75mm	30rolls/ctn



Non-woven Facemask

Product code	Description	Packing
DYC601-2P-PT20W-180NMNW-MT-2000	2-ply	50 pcs / 40 pkts / ctn
DYC601-3P-PT20W-MB-180NMNW-MT-2000	3-ply (filtered), 180 MM	50 pcs / 40 pkts / ctn
DYC601-2P-CLEANZE-EL-SMOOTH	2-ply smooth type	50 pcs / 40 pkts / ctn
DYC601-3P-CLEANZE-EL-SMOOTH	3-ply, 180 MM smooth type	50 pcs / 40 pkts / ctn
DYC601-3P-NWEL-BL-B95-BOX	3-ply, Blue, BFE>95%	50pcs / 40boxes / ctn
DYC601-3P-NWEL-WH-B95	3-ply, White, BFE>95%	50pcs / 40pkts / ctn
DYC601-3P-NWEL-TYPE-IIR-DY	3-ply, White, Type IIR	50pcs / 40boxes / ctn
DYC600-SF-CARBON-MASK-4	4-ply	50pcs / 40boxes / ctn







Headloop



dyCLE/N,

Carbon



What's a Cleanroom chair?

Uchida cleanroom chairs follow the following article of the "Four principles of clean room"

Our CRM Chair is certified ISO5 (Class 100)



1. Control of foreign object & pollutants.

Since chair is manufactured & packed in cleanroom, client easily



3. Does not accumulate the pollutants.

Anti-Static structure is one of the option.



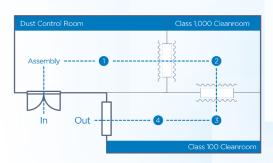
2. Does not generate pollutants.

Chair is designed not to generate the dust and dirt.



4. Easy to clean, Extremely robust.

Process of Production





Every chair is checked for ESD before shipment. All chairs are required to perform less than 10e8 ohm



Final cleaning is done at cleanroom in our factory.



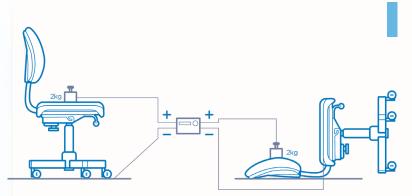
Particle Push-Out

In order to reduce the possibility of contamination, particles are squeezed out



Clean Pack Shipment

All chairs are clean packed after the test. This will help easy installation at the cleanroom



How ESD test is conducted?

ESD test is carried out in stand and lay down positions. Lay down **ESD test** is important in case of incident of backrest hitting sensitive components in the cleanroom.

In order to maintain high level and accurate management of ESD, test criteria & handling of the test result are manualized. Every chair need to clear stringent test and test reports are available upon request.

Cleanroom ESD Chairs

- Designed from ground up to consistently maintain a reduced particulate level for the chair's full useful life
- Produce cleanroom chairs that indefinitely maintain particulate level in Class 10
- Conductive seating is also available to ensure a safe, static-clear work area equipped with conductive seat cushions, back cushions and all metal parts.

Product code	Description	Packing
DYC701-01-UCL-100	Class100 Cleanroom & ESD Safe Chair, UCL-100	1 unit / ctn
DYC701-02-UCL-100E	ESD Safe Chair, UCL-100E	1 unit / ctn
DYC701-01-UCL-150	Class100 Cleanroom & ESD Safe Chair, UCL-150 c/w Footrest	1 unit / ctn
DYC701-02-UCL-150E	ESD Safe Chair, UCL-150E	1 unit / ctn
DYC701-01-UCL-300	Class100 Cleanroom & ESD Safe Chair, UCL-300	1 unit / ctn
DYC701-02-UCL-300E	ESD Safe Chair, UCL-300E	1 unit / ctn
DYC701-01-UCL-350	Class100 Cleanroom & ESD Safe Chair, UCL-350 c/w Footrest	1 unit / ctn
DYC701-02-UCL-350E	ESD Safe Chair, UCL-350E c/w Footrest	1 unit /ctn

Leather Colour:



Black



Blue



Grey

Accessories



ESD PA Caster



ESD PA Glide



ESD Metal Caster



















Vacuum Cleaner

- Gentle controlled ESD-safe static discharge on tip blow/vacuum nozzles to earth power outlet
- Clean/EPA blowvac is used to remove dust & debris from advanced electronic equipment
- A "BLOWVAC"- blower and vacuum cleaner in one
- Compact & portable clean/EPA blowvac is here
- No carrying nor investing in multiple appliances
- Phenomenal suction & blowpower
- Well proven durable compact housing

Product code	Description	Packing
DYC710-02-555-ESD-S-CB-GS	COMPACT ESD CLEAN BLOWVAC CLEANER, WITH CABLE BRACKET	1 unit / ctn
DYC710-02-555-ESD-S-E-HEPA-GS	COMPACT ESD CLEAN BLOWVAC CLEANER, WITH HEPA	1 unit / ctn
DYC710-02-555-ESD-S-GS	COMPACT ESD CLEAN BLOWVAC CLEANER	1 unit / ctn
DYC710-02-555-ESD-S-HEPA-GS	COMPACT ESD CLEAN BLOWVAC CLEANER, WITH HEPA FILTER	1 unit / ctn
DYC710-02-888-ESD-S-E-HEPA-GS	CLEANROOM ESD VACUUM CLEANER (ELECTRONIC VER), W HEPA	1 unit / ctn
DYC710-02-888-ESD-S-HEPA-GS	CLEANROOM ESD VACUUM CLEANER WITH HEPA	1 unit / ctn

FINGER COT

Discovery of rubber and vulcanization:

The word 'Rubber" was named by Joseph Priestly, a Chemist in England in 1770, after he accidentally rubbed off pencil marks with coagulated rubber. Natural Rubber (Latex) biggest breakthrough was through the Vulcanization process, which was discovered by Charles Goodyear in 1839. Vulcanization is a process which involves heating rubber with Sulphur, where the sulphur acts to retain and improve the rubber elasticity.

Vulcanization

Sulfide (Vulcanization) refers to a rubber material by intermolecular crosslinking raw rubber, which involved adding sulfur and heated sulfur retention and enhancing the role of the elasticity of rubber, vulcanized rubber properties is a process for improvement in this process, the linear structure of the macromolecules to generate a three-dimensional crosslinked network structure of the molecule, stable three-dimensional structure of the molecule, so that the rubber elasticity and strength properties, and many have been enhanced, is 10 times more than natural rubber.

Why is there powder in natural rubber finger cot?

Natural Rubber finger cots usually contain powder as natural rubber is very sticky. Talcum powder is thus added to prevent the cots from sticking together.

Chlorination Process:

Chlorination is required when high level of cleanliness is required for the finger cots. It eliminates any extra powder on the surface of the finger cots. However, to note that it increases occurrence of oxidation and corrosion against metallic content material during assembly.



Latex Blending



Dipping Process



Finishing Dryer



Selection Conveyer



Packing Lines

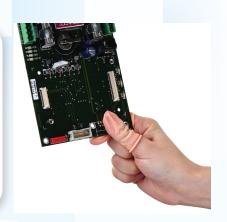


Quality Control

Antistatic Low Powder Finger Cot (Pink)

- Average surface resistance 10⁹~10¹¹ohms
- Special washing process to reduce ionics, non-violatile resistance, particles and other contaminants

Product Code	Туре	Size	Packing
DYC800-01-PINK-AS-S/M/L	Rolled	S,M,L	1440pcs/20bags/ctn



Nitrile Finger Cot



- Static dissipative
- Chlorine & sulphur free
- Special washing process to reduce ionics, non-violatile resistance, particles & other contaminants

Product Code	Туре	Size	Packing
DYC800-01-CLEANZE-EDELEX- UR-S/M/L	Unrolled	S,M,L	1000pcs/20bags/ctn
DYC800-01-CLEANZE-EDELII- ROLLED-S/M/L	Rolled	S,M,L	1000pcs/20bags/ctn



Orange Finger Cot



- Low powder & heavy duty
- Cleanroom compatible

Reusable

Textured surface for good grip

Product Code	Туре	Size	Packing
DYC800-01-CLEANZE-MASK-OR-TH-S	Unrolled	S	300pcs/36bags/ctn
DYC800-01-CLEANZE-MASK-OR-TH-M	Unrolled	М	300pcs/30bags/ctn
DYC800-01-CLEANZE-MASK-OR-TH-L	Unrolled	L	300pcs/24bags/ctn



Spore Black E9, Smooth Surface, Rolled

- Average surface resistance 10°ohms
- Conductive agents are blended with latex to provide consistent ESD performance
- Anti-static function for ESD sensitive components
- Special washing process to reduce ionics, non-violatile resistance, particles & others contaminants

Product Code	Туре	Size	Packing
DYC800-SB-R-E9-S/M/L	Rolled	M,L	1440pcs/20bags/ctn



Spore Sulphur Free, Smooth Surface, Cut

- Sulphur free
- Prevents contamination by sulphur on metal surfaces
- 100% pure natural rubber latex

Product Code	Type	Size	Packing
DYC800-SS-II-C-S	Cut	S	1440pcs/20bags/ctn



TWEEZERS

Conductive Plastic Tweezer

- Heat resistance up to 150 °C
- Scratch free
- ESD safe
- High acid and alkali resistance

Product Code	Packing
DYC900-02-NKR	10pcs/pkt
DYC900-02-NK7	10pcs/pkt
DYC900-02-NK2A	10pcs/pkt
DYC900-02-NK6	10pcs/pkt
DYC900-02-NK35A	10pcs/pkt

NKR NK7 NK2A NK6 NK35A



#1302 #1304 #1315 #1316 #1317

QUICKCHANGE Tweezers

- Stainless Antiacid-Antimagnetic Steel Replaceable tips
- Straight handles, no serrations
- Different types of tip design for different applications
- Three Tip Materials Available: Black ESD / Grey STD / White Delrin

Product Code	Description
DYC900-SP-1302-SA	Quickchange Tweezers #1302-SA, Medium Tip
DYC900-SP-1304-SA	Quickchange Tweezers #1304-SA, Fine Tip
DYC900-SP-1315-SA	Quickchange Tweezers #1315-SA, Extra Fine Tip
DYC900-SP-1316-SA	Quickchange Tweezers #1316-SA, Very Fine Tip
DYC900-SP-1317-SA	Quickchange Tweezers #1317-SA, Thin Medium Tip

Stainless Steel Tweezers

- Stainless steel
- ESD safe
- High heat & wear resistance

Packing
12pcs/pkt



Wafer Tweezer

CLEANZETM

Product Code	Description
DYC900-SP-600W-SA	For up to 6" Wafer Tweezers with 6 prongs
DYC900-SP-T5508W-SA	For up to 8" Wafer Tweezers with Anti-fatigue Lever
DYC900-SP-500W-SA	For up to 5" Wafer Tweezers with 5 prongs
DYC900-SP-600A-SA	For up to 6" Wafer Tweezers
DYC900-SP-800A-SA	For up to 8" Wafer Tweezers



DRY CABINET

SMR & SMR (A) Experiment Series (DYC940)



- SMR 186 (A) - SMR 186 (A) L
- - SMR 386/516/686 (A)
 - SMR 386/516/686 (A) L

Special Custom-Made Project

Stainless N2 cabinet, Express Lower Humidity Device & Temperature Control Device



- SMR 740 (A)
- SMR 740 (A) L



- SMR 1530 (A)
- SMR 1530 (A) L



- SMR 490 (A) L

Specification of TOP Industrial Ultra Low Dampproof Cabinet:

- High Effective Ultra Low Dehumidifier: The only unique type around the world. Able to control humidity to as low as 1%RH without fan nor high heat. Dehydration process without fan thus no evolvement of particles; anti-static; All in the Bossmen patented technology "The Fishbone-designed" Dehumidifier.
- Large Auto Digital Microcomputer Control/ Display: Panel Large and Powerful Auto Digital Microcomputer Control/Display panel; Accuracy variance of not exceeding ± 2%RH; Able to set humidity to as low as 1 %RH; Calibration attested and attained option to fix RH & Temperature Logger.
- Rigid Body Structure c/w DIY Detachable Bar Damage resistance, not easily deformed or punctured. DIY detachable bar enables fast and easy access to items in the cabinet.
- Tempered glass door c/w airtight door sealing tape, pressurized handle with hidden lock; completes a top grade airtight dampproof cabinet.
- SMR686(A)L / SMR490(A)L / SMR740(A)L / SMR1520(A)L / SMR1530(A)L completes with 4 urethane castors c/w 2 front locking device.

Bossmen Top Industries Dampproof Cabinet Series eliminate moisture, resolve processing problem.

- Micro-crack caused by heating of wet SMD (surface mounting devices) I/C products.
- Damp damages in temperature return in use of back flow welding in SMT.
- Interlayer stripping caused by damp among the layers of PCB multi-layered printed board.
- LCD backboard wet and sustain mold.
- · Ic oxidation caused by wet sealing material.
- · Unsecured soldering caused by humidity.
- In the TFT-LCD process rejects caused by humidity on the glass substract and electronic parts.
- Damp Lead frame, bonding wires result in rust & oxidation.
- Humidity affects inaccuracy in precision instruments.
- Dessicant in moisture barrier bag is not effective.
- Oxidation in silicon wafer by humidity.
- Ceramic boards, ceramic capacitors oxide with moisture.
- Ineffective drying agent in standard N2 cabinet, unable to reach below 20%RH. ce.

Product code	Capacity Litres	Tray Specifications	Qty	RH Control	Voltage	Watts	Exterior Dimension (mm)	interior Dimension (mm)		
SMR186(A)	157		3			16W	440 (W) x 950 (H) x 450 (D)	438 (W) x 872 (H) x 449 (D)		
SMR186(A)L	157		3			16W	440 (W) x 950 (H) x 450 (D)	438 (W) x 872 (H) x 449 (D)		
SMR386(A)	315		3			16W	880 (W) x 950 (H) x 450 (D)	878 (W) x 872 (H) x 449 (D)		
SMR386(A)L	315		3			16W	880 (W) x 950 (H) x 450 (D)	878 (W) x 872 (H) x 449 (D)		
SMR490(A)	460		3			16W	600 (W) x 1364 (H) x 700 (D)	598 (W) x 1141 (H) x 698 (D)		
SMR490(A)L	460	Heavy Duty Metal	3			16W	600 (W) x 1364 (H) x 700 (D)	598 (W) x 1141 (H) x 698 (D)		
SMR516(A)	495	Tray with Carrying	3	1%-40% RH Adjustable	110V / 220V 50/ 60Hz	16W	1000 (W) x 1118 (H) x 480 (D)	998 (W) x 1032 (H) x 479 (D)		
SMR516(A)L	495	Capacity of	3		3		16W	1000 (W) x 1118 (H) x 480 (D)	998 (W) x 1032 (H) x 479 (D)	
SMR686(A)	575	150kg	3			16W	880 (W) x 950 (H) x 800 (D)	878 (W) x 872 (H) x 799 (D)		
SMR686(A)L	575		3	5	<u>3</u> <u>5</u> <u>5</u>	5		16W	880 (W) x 950 (H) x 800 (D)	878 (W) x 872 (H) x 799 (D)
SMR740(A)	726		5					32W	600 (W) x 1951 (H) x 700 (D)	598 (W) x 1795 (H) x 698 (D)
SMR740(A)L	726		5					32W	600 (W) x 1951 (H) x 700 (D)	598 (W) x 1795 (H) x 698 (D)
SMR1520(A)	1542		5			48W	1200 (W) x 1951 (H) x 700 (D)	1198 (W) x 1795 (H) x 698 (D)		
SMR1520(A)L	1452		5			48W	1200 (W) x 1951 (H) x 700 (D)	1198 (W) x 1795 (H) x 698 (D)		
SMR1530(A)	1542		5			48W	1200 (W) x 1951 (H) x 700 (D)	1198 (W) x 1795 (H) x 698 (D)		
SMR1530(A)L	1452		5			48W	1200 (W) x 1951 (H) x 700 (D)	1198 (W) x 1795 (H) x 698 (D)		

*Remarks: Optional Accessories: Stainless steel cabinet & trays, humidity control alarm, door alarming system, N2 flowmeter & valve, data logger c/w built-in alarm, communication interface w/9 pin RS232 connector, analogue hygrometer, urethane castors, special locking device.

Humidity/Temperature Display Panel

Voltage: 100V~240V:50Hz~60Hz

Power Consumption: 2HTDP - 20 watts / 4HTDP-40 watts / 7HTDP-65watts

Humidity Setting: 0.0%RH~99.9%RH

Temperature Display: -9.9°C~60°C

Temperature Accuracy: ± 1°C (0~60°C)

Humidity Display: 0.0%RH~99.9%RH

Humidity Accuracy: at 25°C ±5%RH (1-20%RH)/±3%RH (20-80%RH)/ ±5%RH (80-100%RH)

Transducer function: Power transducer transmit up to 150 meter from sensor base

Data Logging Function: Built-in memory storage space up to 11,900 Humidity/Temperature records.

Display adjustable setting using RS232 to download Excel/PDF file print

out

Alarm / Siren: Set to activate at required humidity.

Affixed with (90db-A) siren and display blinking system.

Model Mode: Table Stand / Wall Mount

Signal: Provision of signal for other environmental monitoring requirements

Applications: Cleanrooms, warehouses, laboratories, printing industries, MIS centers, etc.

Product Code	Display	Dimension (WxHxD)mm
DYC940-02-RH-N2HT	2.3"	326 x 266 x 60
DYC940-02-RH-4HTDP	4"	405 x 420 x 60
DYC940-02-RH-7HTDP	7"	736 x 704 x 60

- PRODUCT MODEL -



- 2HTDP -



- 4HTDP -



- 7HTDP -

Humidity Control (DYC940)

Nitrogen (N2) cabinets are most commonly use in the semiconductor, photonics and FPD industries, special materials storage & electronic sectors to prevent oxidation, attack of foreign bodies and humidity control. But achieving humidity control with continuous purging of N2 is uncertain. The Oxygen with Nitrogen Control Station display both O2 concentration and humidity ensuring perfect management. Upon set humidity or O2 concentration, N2 will be completely cut off. It's an excellent cost saviour of your choice.

Key Features

Model: N₂HTO

Dimension: 215mm(W) x 337mm(H) x 220mm(D)

Voltage: 110V~240V:60Hz~50Hz

Power Consumption: 20Watts

Display Panel: 2.3" LED Screen, Display Humidity/Temperature/

Oxygen concentation

Humidity Setting: 1%RH~60%RH (adjustable)

Temperature Display: 1C~99.9C Oxygen concentration: 0.1%~20%

Humidity Function: Use humidity setting or O2 concentration to control the flow of Nitrogen

(N2) once reaches set humidity, N2 will be completely cut off.

Filtration Function: Undergoes filtration system, meets cleanroom Class 100 Ionizer Antistatic (ESD) Function

transformer saves electronic devices in humid conditions from failures or

other forms of degradation.

Data Ligging Function: Built-in memory space to 11,000 Bits Humidity/Temperature/Oxygen

record. Able to set & display & thru RS232 download to computer/Print out.

Alarm/Siren: Capabilities to download into Excel File. Set to activate at required humidity.

Affixed with (90dB-A) siren and display blinking system

Optional-siren light built-in calobration capabilities, ensure quality &

reliability. Can be used in any type of air-tight cabinet/cupboard including

N₂ cabinet & dry cabinet

Replaced Nitrogen (N2) 100% Cost saving

Low Cost

By using compressed air, no N2 required, low power consumption at only 20 watts

Excellent Capabilities

Calibration Capabilities:

Humidity setting, temperature display, against electrostatic discharge, powerful filtration system

Save Manpower

Temperature/Humidity Data Logger system Temperature/Humidity Alarm system Calibration capabilities

Speedy Humidity Reduction

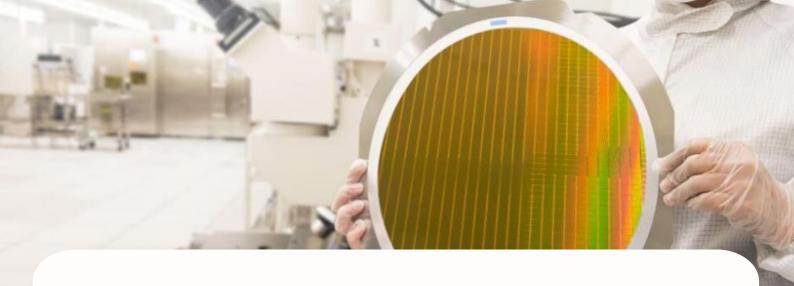
1450L, from 70%RH to 1%RH, less than 20 minutes. Best suitable for operations that requires frequent opening of cabinet doors

DIY Installation

Can be used in any type of air-tight cabinet/cupboard including N2 cabinet and Dry cabinet.



Model: RAD01



WAFER HANDLING SYSTEM



The use of clean organic materials, patented vacuum tip design and true ESD protection provides a unique system with the highest levels of cleanliness and safety.

All parts of Vacuum Handling System are interchangeable. They can be configured or upgraded to meet the specific end-user requirements.

- Manual solution for single wafer handling
- True ESD protection
- Manufactured from clean organic materials
- Vacuum wand normally open
- Raised vacuum surface to minimize contact
- Support ribs prevents wafer deformation
- Reinforced vacuum tube prevents vacuum loss
- All parts of Vacuum Handling System are interchangeable and upgradable to meet specific requirements.

Product code	Description	Specifications
DYC950-HW-02-TIP-8-EP-0	PEEK TIP FOR 6" & 8" WAFERS	PEEK + CF
DYC950-HW-02-TIP-8-EP-30	PEEK TIP FOR 6" & 8" WAFERS, Ext 30°	PEEK + CF
DYC950-HW-02-TIP-12-EP-0	PEEK TIP FOR 12" WAFERS	PEEK + CF
DYC950-HW-02-TIP-12-EP-30	PEEK TIP FOR 12" WAFERS, Ext 30°	PEEK + CF
DYC950-HW-02-BERNOULLI-WAND-8-MC	8" Bernoulli Wand	Micro-Contact
DYC950-HW-02-BERNOULLI-WAND-8-NC	8" Bernoulli Wand	Non-Contact
DYC950-HW-02-STAND-8-ESD	8" Vacuum Pen Holder	ESD-Safe
DYC950-HW-02-STAND-12-ESD	12" Vacuum Pen Holder	ESD-Safe
DYC950-HW-02-WAND-8	4"- 8" NORMALLY OPEN WAND	ESD-Safe
DYC950-HW-02-WAND-12	12" NORMALLY OPEN WAND with Switch	ESD-Safe
DYC950-HW-02-COIL-TUBE-ESD	Coil 300mm	ESD-Safe
DYC950-HW-02-VP-65K	Vacuum Pump (65kPa) for Up To 8" Wafers	4" - 8", ≤65kPa
DYC950-HW-02-VP-85K	Vacuum Pump (85kPa) for Up To 12" Wafers	8" - 12", ≤85kPa
DYC950-HW-02-VPSET-85K	Vacuum Pump with Digital Gauge (85kPa) for Up To 12" Wafers	8" - 12", ≤85kPa

PVA Products





Gordon Brushes



Handlaps



Personal Protective Equipment







Multi-Functional Air Quality Meters







Trolleys & Shelving





Tyvek Products





Wafer Handling, Processing & Inspection Machines







FOUP Cleaning System







Vacuum Handling Tools





Aerosol & Particle Counters



Facilities





Others











Metal Cassettes

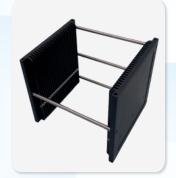






















Vacuum Pumps, Gauges & Tips







Wafer Inspection & Picks

















Wafer Aligners









Manual Wafer Batch Transfer





More than **45** offices across North America, Europe and Asia Pacific

- Manufacturing Plants -

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E-Catalogue