



# QIDE SDN BHD

Custom Equipment Solutions Provider

REVISION: 1.0



# ABOUT US

- QiDE was established on 7th September 2016 by a group of dynamic and knowledgeable engineers which have many years of experience and know how in the semiconductor company and solar industry.
- QiDE is both ISO9001:2015 and ISO 14001:2015 certified company.
- QiDE's Main Focus are on the following market segments.
  - Semiconductor Front End Wafer Fabs
  - Solar Cell Fabs & Solar Module Fabs
  - LED Fabs & MEMS Fabs
  - Semiconductor Back End Fabs



## OUR CORE COMPETENCIES



### MANUFACTURING

- WAFER PODs CLEANING SYSTEM
- CHEMICAL MANAGEMENT SYSTEMS
- AUTOMATED WET BENCHES
- SEMI AUTOMATED WET BENCHES
- MANUAL BENCHES & FUME HOODS
- CUSTOMIZED EQUIPMENT MANUFACTURING
- EQUIPMENT MANUFACTURING



### ENGINEERING SERVICES

- TOOL INSTALLATION
- TOOL REFURBISHMENT
- TOOL MAINTENANCE
- TOOL REPAIR & TROUBLESHOOTING
- TOOL RELOCATION
- SOFTWARE DEVELOPMENT
- PARTS DESIGN
- FABRICATION SERVICES
- PCB & ELECTRONIC REPAIR
- ONSITE TECHNICAL & REPAIR SERVICES



### TRADING MANAGEMENT

- SPARE PARTS SOURCING
- CONSUMABLES SUPPLY
- QUARTZ PARTS SUPPLY
- CERAMIC PARTS SUPPLY
- SIC PARTS SUPPLY
- OBSOLETE PARTS SOURCING
- PARTS REPLACEMENT



### PROJECT MANAGEMENT

- SERVICE OFFICE MANAGEMENT
- CONSULTATION SERVICES
- PROJECT PLANNING & EXECUTION
- SKILLED ENGINEER SUPPLY



## ABOUT

- **QiDE PODs300i** is a customized system designed to clean and dry the PODs that are used in the wafer fab manufacturing industry.
- In the inside of the machine, there is a carousel which is separated into 2 levels installed in the middle of the process chamber.
- The carousel is accessible from the front of the machine via an automatic sliding door. The loading and unloading are done by hand.
- Cleaning takes place via a nozzle system which is supplied with hot DI water or cleaning agents which can be customized according to user required specifications.

## BENEFITS

- Modular design allows for easy installation.
- Customizable, extensible and adjustable to customer specific requirements.
- Optimized footprint.
- Tool housing in different materials available.

## STANDARD AVAILABLE OPTIONS

- Buffer tanks
- Process chamber with rotary cage
- Customizable electrical/pneumatic compartment
- Rotary drive
- Hot Air Support
- Exhaust System
- HEPA filter

## OPTION EXAMPLES

- SECS/GEM interface
- RFID Tracking
- Detergent Dosing
- E-sliding Cabinet



## ABOUT

- **FHP6800i** is a customized system designed and constructed for wafer/parts cleaning purposes.
- This tool is cost effective and at the same time provides high level of process capabilities and flexibility.
- A high end software and numerous process control features are available and can be customized accordingly.



## APPLICATIONS

- The capability of the wet bench allows standard processes like SC1, SC2, HF (in all its concentrations), DSP, KOH, HCL, NH3, NH4OH, H2O2 and many more.
- Wafer and parts cleaning with various functionalities can be adapted with maximum safety for the user.
- The unit is available in cost-effective PVC / PP as well as in FM 4910 compatible material.

## STANDARD AVAILABLE OPTIONS

- Recirculation capability
- Ultrasonic: 730 KHz, 1000 KHz, other frequencies possible
- Ultrasonic: Process adjustable power possible 1W incrementation
- Rinse tank: Final rinse, Quick dump, Overflow option



## OPTION EXAMPLES

- DI/N2 spray gun
- Wafer rotation
- Hot plates
- Spin coater
- Buffer tanks
- Premix tanks
- Concentration monitoring
- Drying
- Handling system as walking beam
- Explosion proof





## ABOUT

- **FHS6800i** is a customized system designed and constructed for parts cleaning purposes using various solvents
- This tool is cost effective and at the same time provides high level of process capabilities and flexibility.
- A high end software and numerous process control features are available and can be customized accordingly.



## APPLICATIONS

- The capability of the solvent wet bench allows cleaning of the parts using agitation with different solvents in one process tool thus eliminating the requirement of separate tools.
- Parts cleaning with various functionalities can be adapted with maximum safety for the user.
- The unit is available in stainless steel for resistance to all solvent processes and fire.

## STANDARD AVAILABLE OPTIONS

- Recirculation capability
- Ultrasonic: 730 KHz, 1000 KHz, other frequencies possible
- Ultrasonic: Process adjustable power possible 1W incrementation
- Flame detector with CO2 suppression system.



## OPTION EXAMPLES

- Concentration monitoring
- Manual solvent dispensing sink
- Explosion proof



**QiDE** is the 1st Malaysian OEM to design locally and manufacture Chemical Management Systems for the semiconductor market.

The **QiDE** CMS are available in the following variations:

- Chemical Distribution & Delivery System
- Chemical Spiking System
- Chemical Dilution System
- Chemical Blending System
- Chemical Waste System
- Chemical Recirculation System

## CHEMICAL MIXING SYSTEM

- **QiDE**'s chemical mixing system is designed to mix the chemicals according to customer requirements.
- Mixing is done based on the mass of the chemicals with the integration of highly precise weigh cells.
- Mixed chemicals is then transferred to day tank for uninterrupted supply of chemicals to the user end.
- Mixing can be also done based on volume with the integration of precise flow meters.



## CHEMICAL DILUTION SYSTEM

- **QiDE**'s chemical dilution system is designed to dilute the chemicals according to customer requirements.
- Dilution is done based on volume of chemicals and DI water with the integration of highly precise flow meters.
- Diluted chemicals is then transferred to day tank for uninterrupted supply of chemicals to the user end.
- Integrated VMB inside the machine is also available upon customer request.

## CHEMICAL DELIVERY SYSTEM

- The chemical delivery system is designated to directly dispense the designated chemicals to the point of use.
- Each unit has the task of keeping the chemical in the containers/IBC continuously mixed and starting the chemical supply to the point of use.



**QIDE** is the exclusive distributor and of GnBS Korea in Malaysia. We are able to supply new scrubbers and gas abatement systems for various processes and applications.

- Plasma Wet Scrubber
- Water Free Plasma Scrubber
- Thermal Wet Scrubber
- Water Scrubber
- Dry Scrubber



NPCR100-T3

### Water Free Plasma Scrubber

- This advanced system uses a Plasma Arc Flame exceeding 3000°C to efficiently treat flammable, toxic and PFC gases with high performance and low energy consumption.
- This particular scrubber model eliminates the city water usage and wastewater issues.
- The chamber cart can be easily swapped and maintenance can be performed accordingly.

### Plasma Wet Scrubber

- This advanced system uses a Plasma Arc Flame exceeding 3000°C to efficiently treat flammable, toxic, and PFC gases with high performance and low energy consumption.
- It ensures exceptional PFC gas treatment, achieving over 99% by-product removal through an advanced Electrostatic Precipitation (E.P.) system, reducing environmental impact.



NSPW1.5K-KHAN



NSPW600-WF



NSPW1.5K-KHAN

### Thermowell Scrubber

- This advanced system uses high performance heating coils that are capable to heat up to 900 °C to decompose the gases and further utilizes water sprinkler system to treat the gases.
- The heater coils provided built for durability and made of corrosion resistant components for reliable operation in harsh industrial settings.



NSPW600



QIDE is the exclusive distributor and partner of AP&S International GmbH in Malaysia.

We offer complete range of batch process systems from single wafer systems to wet benches as well as equipment for ensuring purity and maximum productivity in semiconductor production.



## GigaStep

- This smart, modular wet cleaning system supports various wafer sizes and thicknesses without modifications, ensuring high flexibility and reliability ( $\geq 97\%$  uptime).
- It processes 6" to 8" wafers for RCA, solvent, and etching applications. With an optimized footprint, advanced software, and compliance with industry standards, it offers cost-effective adaptability, extensive process documentation, and seamless integration for future upgrades and process changes.



## Vulcanio

- Vulcanio is a high-throughput wet bench for under-bump metallization (Ni, Pd, Au) on Al- and Cu-based wafers up to 300mm. Designed for electroless plating, it ensures exceptional deposition uniformity, bath longevity, and low operating costs. Fully automated, it supports FOUP/SMIF systems and processes 25 or 50 wafer batches.
- With advanced process control, extensive documentation, and compliance with industry standards (FM 4910, SEMI S2/S8, SECS, GEM, CE).



## NexASTEP

- The fully automated NexASTEP platform delivers high-throughput wet cleaning and etching with a modular, compact design for maximum yield.
- It features wafer-friendly transport, fast processing, and optimized cleanroom use. With up to 75 storage spaces, high-speed DIW flow (80 l/min), and temperatures up to 170°C, it ensures efficiency.
- Low maintenance, intelligent safety controls, and flexible configuration enhance reliability and performance for 8" Si, SiC, and GaN wafers.



## NID Dryer

- The NID dryer ensures fast, uniform, and energy-efficient wafer drying in semiconductor production.
- It handles substrates up to 12" and wafer thicknesses from 120 to 2000  $\mu\text{m}$ . With low IPA consumption ( $\leq 30$  ml/run), it supports IPA and N<sub>2</sub> drying, offers high reliability (MTBF  $\geq 800$  h), and integrates into wet process benches.



QiDE is the exclusive distributor of Schiller Automatisierungstechnik GmbH in Malaysia, Thailand, Vietnam & Philipines. Our Automation Solutions for Cleanroom are ISO 3 certified and covers the following scope:

- Storage Stockers (Radial Stocker, Linear Stocker & Max Stocker)
- Transfer Stations (FOUP Handling, Fully Automated, Semi Automated & Manual Solutions)
- Transport (Ceiling Conveyor, Lift Systems, Linear Hoist System)



### Linear Stocker

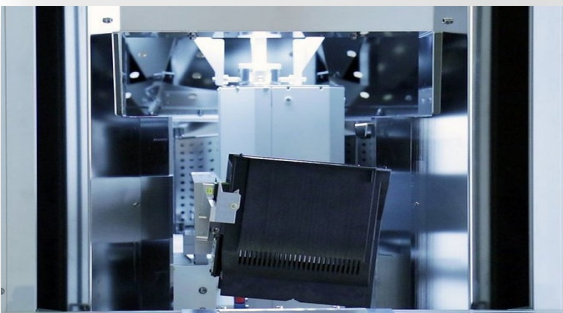
- The Schiller Linear Stocker is the scalable and reliable decentralized storage system in a cleanroom.
- Manual I/O ports and the connection option to OHT or conveyor systems enable flexible use of the Linear Stocker in the production environment.
- The cleanroom-optimized design with a passive gripper, inductive energy transfer to the x-axis, and optional extraction of axes enable storage of products cleanroom environments up to ISO class 4.

### Max Stocker

- The Schiller Max Stocker opens fully new dimensions in particle-reduced warehouse storage in the cleanroom.
- The double-sided, double-depth storage of FOUP/FOSB or OC containers enables stockers featuring capacities in excess of 1,200 storage spaces to be implemented.



### Radial Stocker



- Schiller's Radial Stocker provides a storage system that's both efficient and space-saving for various box types under cleanroom conditions of ISO class 3 to 4.
- Manual stocking and removal by the operator, as well as automated transfer and retrieval by OHT or conveyor systems are possible with the Radial Stocker.
- The footprint of only 1800 mm x 1800 mm is achieved with the compact arrangement of the robot axes for a very high packing density.

### OHT System

- The Schiller Linear Hoist System enables automated supply of production or measuring equipment between the individual bays of a factory. In combination with the Schiller Cleanroom Transport System, trays can be supplied 24/7 with the Linear Hoist Equipment without intervention of the operator.
- The power and data transmission to the grabber takes place via the grab rope without drag chains.



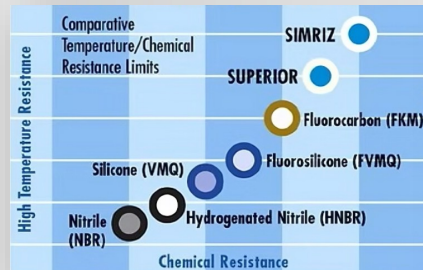
QIDE is the exclusive distributor of EKK Eagle Industry for O-Rings, Bonded Doors, Magnetic Seals, rotary joints and bellows.

## O-Rings & BONDED DOORS

- Superior FFKM - SIMRIZ
- Superior FKM
- Fluorosilicone
- Silicone
- Hydrogenated Nitrile
- Fluoroelastomer



### Complete Range Of Materials



## Magnetic Seal

- OPM Source for TEL Furnace
- OPM Source for HIKE Furnace
- Temperature up to 200°C
- Corresponding to ultra-high vacuum (10<sup>-9</sup>Pa at 23°C)

Simrit Offers Complete Range of Semiconductor O-Ring Materials for Comparative Temperature and Chemical Resistance Levels

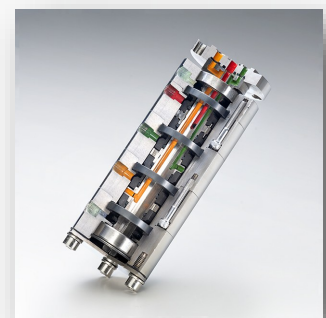
## Magnetic Fluid Vacuum Seal



- This advanced vacuum seal is a high-performance clean seal that effectively retains magnetic fluid around a rotating shaft by utilizing the power of a magnet.
- Designed to ensure exceptional sealing performance, it prevents contamination while maintaining a stable vacuum environment.
- Additionally, this vacuum seal serves as a highly reliable dust seal for the bearings of conveying robots, ensuring smooth operation and extended equipment lifespan by preventing the ingress of dust, debris, and other contaminants.
- Its non-contact sealing mechanism reduces friction and wear, thereby enhancing durability and minimizing maintenance requirements.

## Rotary Joint

- This revolutionary compact cartridge-type rotary joint incorporates a highly efficient mechanical seal, setting a new standard in the industry.
- Its advanced and optimized design ensures an exceptionally low torque operation, enhancing both performance and durability.
- The rotary joint is specifically engineered for use in CMP (Chemical Mechanical Polishing) and lapping equipment, which play a crucial role in the precise polishing and finishing of wafers during the semiconductor manufacturing process.
- By enabling smooth and reliable rotation, this joint contributes to improved efficiency, reduced wear, and extended operational lifespan, making it an indispensable component in high-precision applications.



## Welded Metal Bellows

- EKK welded metal bellows are of the nesting type, manufactured by precision forming and welding techniques.
- Bellows products utilizing the durability, pressure resistance and uniform displacement include bellows seals and vacuum bellows in semiconductor or electronic parts manufacturing facilities, and have earned a reputation for high performance.



## Bubble Cutter & Airless Damper

QIDE is the exclusive distributor of Satoh Jushi Kogyo Co.LTD products which focuses on super bubble cutter, monitor and super airless damper.



### Super Bubble Cutter & Monitor

- Eliminates Air Bubble
- >99% Efficiency
- Damping Pump Pulsation
- Product Yield Improvements
- Filter Life Time Extension
- Maintenance Free
- Precise Monitoring of Air Bubbles Before & After
- Early detection of failures



### Super Airless Damper

- The Super Airless Damper from SJK is a compact, easy-to-install solution that provides exceptional damping performance while saving space.
- Designed for custom applications, it ensures optimal efficiency and reliability across various industries.
- Made from durable PTFE as standard, it can also be customized with alternative materials to meet specific operational needs, offering flexibility for diverse environments.

## The Second Power-TSP

- QIDE is an appointed distributor of Wesco Korea which supplies TSP - The Second Power.
- The TSP works extremely effective to prevent momentary power interruptions/ Voltage Sags which in return helps prevent costly production stops.
- The TSP uses Ultra Capacitors and is a Battery-Less Voltage Sag Compensator which makes it a maintenance free system.



### TSP-Small-Medium Capacity

- Voltage Sag Protection
- AC 1Ph : 0.5kVA - 20kVA
- AC 3Ph : 5kVA - 200kVA
- Sag Protection : 1sec - 3sec
- Highspeed Switching (2ms)
- Ultra Capacitor(10year Life Span)
- Sag Viewer Monitor Software
- No Battery Required

### TSP-Small-Medium Capacity

- Voltage Sag Protection
- AC 3Ph : 300kVA - 2400kVA
- Sag Protection : 3sec
- Highspeed Switching (2ms)
- Ultra Capacitor(10year Life Span)
- Sag Viewer Monitor Software
- No Battery Required





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