



Mykrolis Corporation

Product Offerings

www.mykrolis.com
tech_service@mykrolis.com

UNITED STATES OF AMERICA
Billerica, MA 978-436-6500
Allen, TX 972-359-4000
San Diego, CA 858-452-0124

Europe:
France 33 4 7635 73 00
Germany 49 816 595 110

Asia:
Singapore 65 6745 2422
Korea 82 31 738 5300
People's Republic of China
86 21 5080 5600
Taiwan 886 3 571 0178

Japan:
Tokyo 81 3 5442 9718
Kyushu 81 92 471 8133
Osaka 81 6 6390 0594

Profile

Mykrolis develops, manufactures and sells liquid and gas delivery systems, components and consumables used to precisely measure, deliver, control and purify the process liquids, gases and chemicals, as well as the deionized water, photoresists and vacuum systems, that are used in the semiconductor manufacturing process. In addition, the company's products are used to manufacture a range of other products, such as flat panel displays, high purity chemicals, photoresists, solar cells, gas lasers, optical and magnetic storage devices and fiber optic cables.

Mykrolis products are used at thousands of points throughout the semiconductor fabrication sequence. In addition, the company offers products to meet the needs of the new and fast-growing applications and opportunities within the semiconductor industry, including chemical mechanical planarization (CMP), spin-on dielectrics, copper processes, DUV lithography and the migration to 300mm devices.

Mykrolis is the former Microelectronics Division of Millipore Corporation. Mykrolis acquired assets of Bantec Scientific in 2004, Aeronex in 2003, Tylan General and Span Instruments in 1997. Company headquarters are in Billerica, Massachusetts, and Mykrolis employs approximately 875 people in four core manufacturing plants and 17 offices around the world. In 2003, Mykrolis revenues totaled \$186 million.



Consumable Products



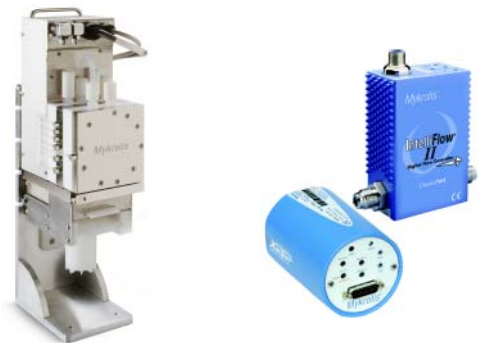
Fluid Filtration

Fluid Filtration – The company's fluid filtration products remove sub-micron sized particles and bubbles from various fluid streams in the manufacturing process. Liquid filters utilize patented Connectology™ technology to provide for rapid filter changes, minimal equipment downtime, and limited operator exposure to toxic chemicals.

Gas Filtration & Purification

Filters and purifiers remove molecular contaminants down to 0.003 microns to purify gases entering the process chamber. Waferpure® and Aeronex® purifiers absorb volatile contaminants, such as oxygen and water, to prevent contamination; ChamberGard™ vent diffusers reduce particle contamination and process cycle times.

Equipment



Liquid Delivery Systems

Photochemical filtration and dispense systems integrate patented two-stage dispense, filtration and control valve systems to enable uniform application of photoresists for spin-coating processes in the manufacture of semiconductor wafers.

Gas Pressure, Flow, Vacuum

Mykrolis offers a range of digital and analog mass flow controllers, vacuum gauges, pressure transducers, valves and controllers used to measure and control the flow of gases, or maintain vacuum integrity, in the process chamber.

Product Line

CMP Solutions

Planargard® CS Bulk and Point-of-Use Cartridge Filters
Planargard® Point-of-Use Cartridge Filters
Processgard® NP Cartridge Filters
Solaris® Filtration Technology - Solaris Manifold
Solaris® Filtration Technology
Planarcore™ PVA Brushes

High Purity Water

Panelgard™ PSF and PSX Cartridge and Disposable Filters
Panelgard™ Cartridge Filters
Panelgard™ DI Cartridge Filters
Processgard® Cartridge Filters
Protego® Metal Ion Purifier and Purifier/Filter
Rinsegard™ HP/HPX Cartridge and Disposable Filters
Processgard® NP Cartridge and Disposable Filters

Wet Etch and Chemical Suppliers

Pre-Wet All Teflon

QuickChange® ATM Cartridge and Disposable Filters
QuickChange® UCM Disposable Filters
QuickChange® AT & ATX Cartridge and Disposable Filters
QuickChange® 1000, 1500, 3000 Disposable Filters
Thermogard™ NE Cartridge and Disposable Filters

Hydrophilic UPE

Intercept® HP and HPX Cartridge Filters
Guardian™ HP and HPX Cartridge and Disposable Filters
Guardian™ DEV Cartridge and Disposable Filters
Etchgard™ HP and HPX Cartridge and Disposable Filters

Hydrophobic All Teflon®

Guardian™ AT and ATX Cartridge and Disposable Filters
Fluorogard® AT and ATX Cartridge and Disposable Filters
Fluoroline® P1000, P1500, P3000 Disposable Filters
Fluorogard® RS Cartridge and Disposable Filters
Hydrophobic UPE
Microgard™ UPE and UPX Cartridge Filters
Microgard™ Plus Cartridge Filters
Microgard™ PI Cartridge Filters
Optimizer® V-47 Disposable Filters

Other Filtration

Fluorogard® TPX and TPX-HP Cartridge Filter
Fluorogard® FP and FP-HP Cartridge Filters
Fluorogard® Plus Cartridge Filters
Panelgard™ PDP Cartridge

Membrane Contactor

pHasor® II Membrane Contactor

Photochemical Filtration

PCM Photochemical Filtration Disposable Filters
Impact® 2 Disposable Filters
Impact® 2 Manifold
Impact® Plus Disposable Filters
Impact® ST Manifold
Wafergard® PI 250 Cartridge Filter
Optimizer® 16/40 PCM Cartridge Filters
Optimizer® ST DEV and DI PCM Disposable Filters
Optimizer® ST Manifold
Optimizer® DEV and DI Disposable Filters
Optimizer® D PR and PR-L Disposable Filters
Optimizer® PR 16/40 Cartridge Filters
Optimizer® D 300/600 Disposable Filters
Wafergard® F Cartridge and Disposable Filters
Fluoroline™ S Disposable Filters
Fluoroline™ P1000 Disposable Filters
Fluorex™ S and Fluorex™ CN Disposable Filters
Fluorex™ HP and HP-L Disposable Filters
Processgard® Inline Filter
Panelgard™ 1-2-3 Disposable Filter & Standalone Manifold
Panelgard™ 1-2-3 PDP Disposable Filter & Standalone Manifold
Panelgard™ PDP-40 Cartridge Filters
Panelgard™ PDP Disposable Filters

Dispense Systems/Flow Controllers

IntelliGen® 3 Dispense Systems
IntelliGen® 2 Dispense System with Digital Valve Control (DVC)
Encompass® HV Fluid Dispense System
OptiChem™ C Liquid Flow/Process Control Systems
OptiChem™ P Liquid Flow/Process Control Systems
Wafergard™ Chemical Dispense System-2 (WCDS-2)
Wafergard™ Chemical Dispense Pump (WCDP)

Cartridge Housings

Chemlock® PFA Housings
Chemlock® PP Housings
Chemgard™ U-Line Housings
Chemgard™ In-line Housings
Chemgard™ PVDF Housings
Chemgard™ Polypropylene Housings
Stainless Steel PF Housings
Chemgard™ Polypropylene High-Flow Housings
Wafergard® PVDF and ECTFE 40-Stack Housings
PFA 16 Housings
HP Housings
PLJ/PSJ Housings

Gas Purification

GateKeeper® Gas Purifiers
INFINITY™ Gas Purification Systems
PAC™ Part-Per Trillion Analyzer Cart
Waferpure® Micro/Mini XL/Megaline Integrated Filters/Purifiers
Waferpure® Gas Cabinet 300 Integrated Filter/Purifier
Waferpure® SL 1.125" C-Seal Purifiers, Integrated Filter/Purifiers
Chacollet™ In-Line Hydrocarbon Purifier and Gas Filters

Gas Filtration

Diffusers

Chambergard™ Fast Vent Diffusers
Chambergard™ BGN Diffusers

Filters

Wafergard® III NF Micro In-Line Gas Filters
Wafergard® III NF Mini and Mini XL In-Line Gas Filters
Wafergard® III NF-30 In-Line Gas Filters
Wafergard® III NF-75 In-Line Gas Filters
Wafergard® III NF-750 Gas Filters
Wafergard® II SF Mini & Mini XL In-Line Gas Filters
Wafergard® MAX In-Line Teflon Gas Filters
Wafergard® II F Micro In-Line Gas Filters
Wafergard® II F Mini XL In-Line Gas Filters
Wafergard® II F-6 Inline Gas Filters
Wafergard® II F-40 In-Line Gas Filters
Wafergard® T-Line Gas Filter Units
Wafergard® W-Seal Surface Mount Gas Filters
Unigard™ Inline Gas Filters
Linegard™ Micro Inline Gas Filters
Wafergard® GT Plus and GTL In-Line Gas Filters

Other Filtration

Gasketgard™ Inline Gasketgard Filters
Wafergard® GN Gas Filter Gun

Gas Flow Control

Digital Calibration Platform (DCP)
IntelliFlow® II Digital Flow Controller
Tylan® FC2900 and FM3900 Mass Flow Controllers and Flowmeters
Tylan® FC2900M and FM3900M Mass Flow Controllers and Flowmeters
Tylan® FC2920 and FM3920 Mass Flow Controllers and Flowmeters
Tylan® FC2925 and FM3925 Mass Flow Controllers and Flowmeters
Tylan® FC2979M and FM3979M Mass Flow Controllers and Flowmeters
Tylan® FC260 and FM360 Mass Flow Controllers and Flowmeters
Tylan® VC4900 and VC4900M Vapor Controllers

Gas Pressure Measurement and Control

2 inch Stainless Steel Gauges
2 inch Stainless Steel Indicating Pressure Transmitters (IPT)
2-inch Stainless Steel Indicating Pressure Switches (IPS)
SolidSense® II Pressure Transducers
NTT Thru Tube Pressure Transducers
IDG-202™ Digital Pressure Gauge
LR050™ Series Pressure Transducer Displays
PR050™ Digital Display
LR250™ 2-Channel Display/Controller
GC5400™ Series Low Profile Platform Scale
Conventional Pressure Transducers (SPT Series)

Vacuum Measurement and Control

Intellisys™ Smart Butterfly Valve
AdaptTorr® ACX 3200/3400 Series Adaptive Vacuum Controllers
AdaptTorr® ACX 2200 Adaptive Vacuum Controllers
AdaptTorr® AC2/AC4/ACR28
MDVX/MDVHX Series Motor Driven Throttle Valves
IntelliFlow® PC Digital Pressure Controller
XacTorr® CMX45/CMX100 Series Digital CDGs
XacTorr® CMX160 Series Digital CDGs
CDH Series CDGs
CMH/CMHT Series CDGs
CDLD Series CDGs
CMC Series CDGs



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