

# Precision Cleaning

for today's  
critical  
applications



**PurCo**<sup>™</sup><sub>2</sub>  
Clean...Pure & Simple.

# Precision Cleaning is the Constant.



Medical devices must be pure to preserve and improve our quality of life.

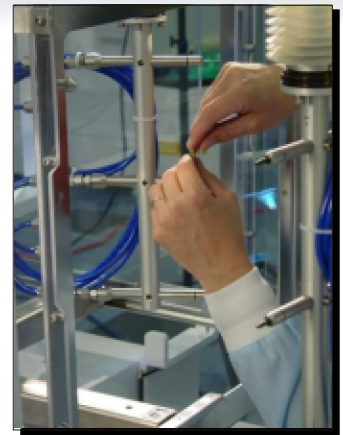


Aerospace assemblies must work perfectly every time.

## CO<sub>2</sub> snow technology

SnowShear™ systems create high velocity cleaning sprays from liquid carbon dioxide capable of removing particles and thin film organics. It dissolves fluxes and fingerprints, while particles as small as 1/10<sup>th</sup> of a micron are effectively removed without damage. Capillary condensation is the most efficient method of creating CO<sub>2</sub> snow. Up to double the yield per pound, providing a lower cost per clean.

SnowShear™ is adjustable to match your parts: gently or with more power. Harder, larger, faster or smaller or softer... *you* control the consistency. So you get exactly the results you need. Plus, our flexible coaxial delivery is easy to handle and integrate into your workflow.



## liquid and supercritical CO<sub>2</sub> processes

Oils, particles and greases are no match for our patented centrifugal cleaning process. They can't hide in deep blind holes or between mating surfaces. The low surface tension of liquid CO<sub>2</sub> penetrates, bringing unique cleaning solvency inside, then shearing forces strip away residuals.

Exclusive methods of high efficiency distillation, rapid fluid transfer, and a host of other methods are incorporated for your benefit.



# Contamination Cannot be Tolerated.



Optics must be clean to be effective.

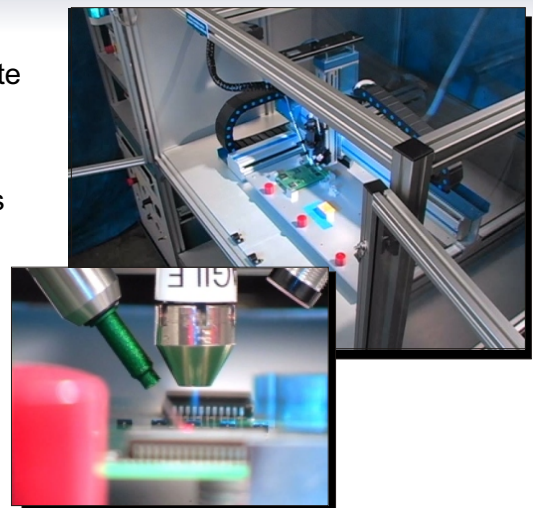


Residual soils may have catastrophic impacts.

## available solutions

With the complete PurCO<sub>2</sub> product line, you can incorporate today's technology now. Fully automatic systems with robotics for high volume production applications, including hard drive cleaners processing tens of thousands of drives per day. Or convenient benchtop units for low capacity precision cleaning of ceramics or optics.

Choose combination cleaners and purifiers for cost effective cleaning or use our mobile systems that bring cleaning technology out into the cleanroom, laboratory or factory.



## dedication

Our commitment to replacing dangerous and ozone depleting substances commonly used for cleaning began in 1985, when we first realized the amazing properties of carbon dioxide. This non-toxic, non-polluting gas, the basis for all plant growth, becomes a solvent when carefully managed. It could be captured from breweries and bakeries, then harnessed to remove oils from medical devices, particles from delicate electronics and contaminants from deep within gaskets destined for spacecraft.

Tools were created, patents granted and methods refined as we built a team with the most experience in the field.



Accrtronics Seals   Allied Signal   ATMI   Battelle (PNL)   Bookham   Buchanan Spoke   Cardone Industries  
 CMAC   Coherent Laser   Control Systems   CP Claire   DCI, Inc.   Delphi Automotive   DPIX, Inc.   Draper Labs  
 Gillette-PaperMate   Hanson Laboratories   Hewlett Packard   Hewlett Packard   Hitachi   HMT   Honeywell   Hughes  
 Space Systems   Hutchinson   IBM   ITT   JDS Uniphase   Kearfott   Kodak   Komag  
 Korean Institute of Machinery & Materials   Kyocera   LG Electronics   Litton Guidance   Lockheed Martin  
 Lyntron Aerospace   Magnecomp   Maxtor   Medtronic   NIAC   Nortel   Northrop Grumman   OEA   Pentel  
 Quantum Clean   Raychem   Raytheon   Read Rite   SAE Magnetics   SAGEM Aerospace   St. Gobain (ECT)   Stanford Univers

## experience

Millions of precision machined parts are cleaned every day in our systems; at just one of countless satisfied users. We provide efficient answers in low cost applications including automotive & consumer products manufacturing, plastics recycling and for tons of textiles. We support high reliability space and military hardware situations where extreme performance is critical. We've developed medical cleaning units, because lives can depend upon purity. The Cool Clean patent portfolio is second to none in breadth and real world usefulness. And we're involved in ongoing research in various fields where new methods and new materials make tomorrow better for everyone.

