



Clean Manufacturing Product
Representative

www.cleanlogix.com

Clean Exchange™ CleanTech e-Newsletter

www.cleanlogix.com/news.html

Cleanlogix Clean Product Rep Program is about Value-add

The mission of the Cleanlogix clean manufacturing product representation program is to implement state-of-the-art lean and green (clean) manufacturing products, produced by the most innovative U.S. companies, to meet the sustainable development needs of manufacturers worldwide.

The global industrial marketplace today is defined by new imperatives - rapid product evolution, maximizing product yields, increasing both human and machine productivity, protecting the environment and conserving natural resources - all of which within a very challenging economic climate.

These imperatives provide unique economic opportunities for our CleanTech partners in a diverse mix of industrial markets and applications. Cool Clean Technologies' state-of-the-art and licensed CO₂ cleaning, machining and thermal control products combined with our experience, expertise, and technical implementation services is a cornerstone of this new clean manufacturing product representation program.

In this issue...

- ▶ CleanTech "CPU" for OEMs
- ▶ Recycled CO₂ technology is part of the clean manufacturing solution
- ▶ Special Feature

CleanTech "CPU" for OEMs and custom machine tool builders

Cleanlogix is forging partnerships with automation companies, machine tool builders, system integrators and original equipment manufacturers (OEMs) worldwide to develop and deploy next-generation manufacturing tools. Numerous lean and green (clean) production tools are envisioned under this new clean manufacturing program. Entirely new and differentiated production tools may be created by integrating CO₂ technology and other clean manufacturing technology (CleanTech) into conventional manufacturing equipment and processes. Exemplary production processes include inspection and test, precision assembly, bonding, machining, drilling, and thermal spray coating, among many other manufacturing process possibilities.

For this new CleanTech initiative, Cleanlogix offers the **CO₂ Processor Unit (CPU™)**, derived from over 15 years of commercial product development and applications experience. The CPU provides process engineers with various CO₂-based processing capabilities in a compact and customizable Plug n' Spray module. The CPU can be integrated into virtually any existing or new assembly tool, and production lines to provide in-situ precision cleaning, surface treatment, temperature control, and dry/near-dry cooling-lubrication process capability.



CPU-integrated processes are much more productive because two or more manufacturing operations may be performed within the same work cell, or performed with less manufacturing waste. For example, products don't have to be removed, transported, cleaned and returned - resulting in reduced human interaction, higher throughput and decreased cost-of-ownership.

Contact Mr. John Lee directly at 818-445-9163 or via e-mail at john.lee@cleanlogix.com for information about the CPU.

Clean Manufacturing Program Goals...
Yield Improvement, Increased Productivity, Improved Profitability and a Quality Environment

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Recycled CO₂ is part of the clean manufacturing solution

Recycled carbon dioxide (CO₂) is a cost- and performance-effective replacement for a variety of environmentally undesirable manufacturing agents such as sulfuric acid, chlorofluorocarbons (CFCs), volatile organic compounds (VOCs), methylene chloride, methyl bromide, and many toxic organic solvents such as perchloroethylene and MEK. In other applications, the superior cooling properties of CO₂ can assist in recycling plastics and rubber products, in vapor recovery systems and in electronic component thermal testing. The U.S. Environmental Protection Agency has ruled that CO₂ is an environmentally benign alternative chemistry for industry because *there is no net increase in global warming gases or environmental damage as a result of using recycled CO₂*. In fact, removing toxic compounds from industrial processes and replacing with them with recycled CO₂ will yield a significant positive impact in the form of lower energy usage, lower emissions of global warming gases and improved water quality and conservation.



Applying recycled CO₂ chemistry and technology to today's industrial process and manufacturing challenges enhances product yields, machine productivity, and environmental quality. Recycled CO₂ is part of the clean manufacturing solution.

Related white papers on cleanmanufacturing.blogspot.com:
"Setting the Record Straight – CO₂ Technology is Part of the Solution"

SPECIAL FEATURE

The Remarkable CO₂



CO₂ is a simple molecule comprising one carbon atom bounded by two oxygen atoms and is commercially obtained as a gaseous by-product from manmade and natural production processes such as ammonia and petrochemical plants and CO₂ gas wells. CO₂ is non-toxic, non-corrosive, non-flammable and is an integral part of the basic carbon cycle in nature. CO₂ can exist as a gas, solid (shown above), liquid, plasma or supercritical fluid, depending upon the pressure, temperature and energy applied. CO₂ is a versatile manufacturing agent, performing as a precision and general cleaning solvent, a plasma treatment, a surface modification agent, a cooling agent, and a cooling-lubricating machining fluid.

In the next issue of

Clean Exchange...

- ▶ CO₂ Product Opportunities
- ▶ Clean Inspection
- ▶ Special Feature

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