Nitrofreeze® Cryogenic Deburring Service Expands

The Cryogenic Institute of New England, Inc. is pleased to announce expanded capabilities for the removal of machine burrs from complex machined parts. The Nitrofreeze® cryogenic deburring service has been adopted by customers in diverse industries.

Dec. 2, 2008 - PRLog -- Worcester, MA - The Cryogenic Institute of New England, Inc. is pleased to announce expanded capabilities for the removal of machine burrs from complex machined parts. The process, known as Nitrofreeze® cryogenic deburring service, has been adopted by a wide range of customers in diverse industries including medical devices, aerospace, automotive, and process control, among others. Nitrofreeze® cryogenic deburring service is ideal for today’s advanced materials, including most plastics, composites, organics, polymers and advanced synthetics.

“The adoption of these advanced materials by engineers has expanded the market for associated finishing processes and the company’s Nitrofreeze® cryogenic deburring service has filled this niche”, according to Robin Rhodes, President of the Cryogenic Institute of New England, Inc. The company first offered its cryogenic deburring process in 2003 and it has since become one of its fastest growing product lines.

Many of the parts that benefit from this unique form of burr removal have intricate shapes that are cut or milled on sophisticated CNC machines. They contain critical dimensions and have strict requirements for a blemish free surface finish. The Nitrofreeze® cryogenic deburring process is able to protect the surface finish and critical dimensions of the parts during burr removal because the parts are processed in a cryogenically frozen condition. This not only protects the part, it also promotes the clean removal of the undesired machine burrs when precisely attacked by the systems cryogenic-grade polycarbonate blasting media.

“One of our biggest challenges is that many potential customers in need of machine burr removal solutions, including machinists, manufacturing engineers and quality managers, have not heard of Nitrofreeze® cryogenic deburring,” according to Ryan Taylor, Product Marketing Specialist at Cryogenic Institute of New England, Inc. “This is despite the fact that our cryogenic deburring offers many advantages, including consistent cleaning, repeatable results, and our ability to remove burrs in recessed and blind holes as small as 0.015 inches”, he added.

The company processes parts for customers on a job-shop or service basis. Typical batch sizes range from dozens of individual components to tens and even hundreds of thousand per week. Typical turnaround time is within a few days of receipt and fast turn service for prototype of other rush parts can be accommodated for a small premium charge. The process is environmentally-friendly, clean, fast and cost effective – especially when compared to other alternative deburring processes.

More information is available at the company’s web page http://www.nitrofreeze.com/deburring.html.

The Cryogenic Institute of New England, Inc., located at 90 Ellsworth St. Worcester, Massachusetts, USA, (508) 459 7447, is dedicated to the commercial application of cryogenic technologies to serve the needs of industry, government and scientists. The firm offers a full range of Nitrofreeze® cryogenic services, including cryogenic burr removal service, cryogenic deflashing services, conventional cryogenic treatment,
heat & freeze thermal cycling, shrink fitting services, and dry ice (CO2) blast cleaning. It also offers engineering services, cryogenic lab work in support of R & D, and custom equipment design for new and unique cryogenic applications. It is a corporate sustaining member of the Cryogenic Society of America and ASM-The Material Society.

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The Cryogenic Institute offers cryogenic treatment, thermal cycling, cryogenic helium processing, cryogenic shrink fitting, cryogenic deflashing, cryogenic deburring, cryogenic material separation, cryogenic equipment sales, and cryogenic consulting.

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Source: Ryan M. Taylor
City/Town: Worcester
State/Province: Massachusetts
Zip: 01610
Country: United States
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