



**Deep Cryogenics International**  
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## **DCI FACILITY DESCRIPTION**

**Activities** — Scientific research, test and analysis of DCT materials, optimization of deep cryogenic treatment protocols, manufacturing and leasing of deep cryogenic treatment equipment, material prep and characterization, consulting, subject matter expertise, research report-writing, authorship of scientific publications and white papers, project development, management and coordination.

### **DCI Facility and Lab Equipment**

CP-36K DCT Chamber (8' x 8' x 20' dimensions; 45,000 lb capacity)  
CP1200i DCT Chamber (40" x 60" dimensions; 5,000 lb capacity)  
CP200i DCT Chamber (22" x 31" dimensions; 1,500 lb capacity)  
Noblegen LN240 Liquid Nitrogen Generator (240 litres LN2/day production capacity)  
Haskris OPC8 chiller  
ELGI oil-less scroll compressor  
EP25 Forklift (5,000 lb lift capacity)  
Chart HS-1500 Dewar (1,500 gal LN2 storage capacity)  
Honda 7000is Generator

Proto iXRD X-Ray Diffraction equipment for residual stress and retained austenite  
Fischer Sigmascope Non-Ferrous Eddy Current Conductivity Tester  
Fischer Ferriscope Magnetic Induction Ferrite Tester  
Oxford Vulcan LIBS Material Analyzer  
Cimetrix Leeb Hardness Tester  
Cimetrix Ultrasonic Hardness Tester  
DCI ASTM G81-99(a) Gouging Abrasion Tester  
Fluke Thermal Imaging IR Camera  
Filmetrics Scanning White Light Interferometer and Profile Analysis Software  
MICA™ Multi-physics Deep Cryogenics Software  
DigiRoc DR3 Digital Hardness Tester  
Olympus BX-53 Metallurgical Optical Microscope with 1,000X Apochromatic lenses  
Pace 2000T Twin platen 10" Polisher Grinder  
Roland CNC Diamond Engraver  
Materials Plus Particle Measurement and Segmentation Analysis Software  
Kalamazoo K12-14 Precision Abrasive Saw with Automated Downfeed  
Fristaden .002" gram Precision Lab Scale