

R·I·T

THE CENTER FOR INTEGRATED MANUFACTURING STUDIES

(CIMS) at Rochester Institute of Technology (RIT) was established in 1992 with a mission to increase the competitiveness of manufacturers through applied technology and training.

CIMS provides technology and workforce development solutions that strengthen our clients' ability to compete in the global marketplace. CIMS represents a dynamic collaboration of in-house technical experts, as well as academic, industry and government resources.

FACILITIES

- 170,000 square-feet of laboratory and office space
- 6 large manufacturing bays
- 21 specialized laboratories, including:
 - Design Capture/Metrology Laboratory
 - Integrated Diagnostics and Prognostics Laboratory
 - Materials Engineering Laboratory
 - Systems Performance and Reliability Laboratory
 - Workplace Ergonomics Laboratory
- 10-room, 400-seat training and conference center
- leasable research and development space

RIT

Founded in 1829, RIT is an internationally recognized leader in professional and career-oriented education enrolling more than 15,000 students in eight colleges.



Clean Technologies

at RIT's Center for Integrated Manufacturing Studies

The Clean Technologies Team makes manufacturing operations more sustainable — economically and environmentally. Their research and technical knowledge is applied to develop and implement accessible and environmentally-responsible manufacturing, remanufacturing and clean technologies.



The focus of the work is on four areas:

- Surface Cleaning
- Surface Finishing
- Waste Minimization
- Pollution Prevention

At RIT and on-site, CIMS also offers cleaning demonstrations to companies in the remanufacturing industry.



State-of-the-art equipment enables the transition of research to implementation.

Aqueous Spray Washers use a combination of spray force, heat, and detergents.

Ultrasonic Cleaner uses high- and low-pressure sound waves to create bubbles in liquid that loosen contaminants.

Baking Soda Blaster is ideal for sensitive substrates where metal removal is not acceptable.

Multimedia Blaster propels abrasive media through a nozzle held by the operator.

Thermal Oven removes organic material from parts by oxidation.

Steel Shot Blaster tumbles parts constantly to present surfaces to the shot.

Vibratory Cleaner combines vibration and fluid to break down and remove media.



CIMS Center for Integrated Manufacturing Studies

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