PolarFit® cryogenic deflashing technology—consulting and lab services

While deflashing operations may differ, the desired end result is often the same—achieving enhanced flash removal with minimal hand trim requirements, while maximizing productivity and minimizing costs. Whether you're currently using cryogenic deflashing technology or are interested in using it, Air Products can help you make that happen.

Benefit from our experience

With decades of experience in cryogenic deflashing and alliances with equipment manufacturers, we have built a broad knowledge base in such aspects of the process as equipment selection, media, temperature, moisture, tool design, operations, controls, maintenance and piping. Through our PolarFit consulting services, our applications engineers can apply this knowledge to evaluate your operation, help you identify areas for potential improvement, and recommend solutions that can help improve productivity and lower operating costs.

PolarFit deflashing lab testing facility includes:

- Model SCC-750 (21 Liter effective loading volume) basket-style shot blast deflashing unit
- Separator table with interchangeable screens for parts, media, and flash separation
- Liquid nitrogen storage tank
- Assortment of polycarbonate shot blast media in various particle sizes
- Foam-insulated piping used to deliver liquid nitrogen from the laboratory storage vessel to the deflashing units

Model SCC-750 shot blast deflashing unit

Improve process efficiency

There are a lot of variables to consider in your cryogenic deflashing process that can help keep your operation running as efficiently as possible. Air Products' engineers can help take the guesswork out of optimizing your process. Our deflashing specialists can help you identify the type of equipment best suited for your operation and test a variety of process parameters to help optimize your productivity. Their recommendations can help you realize benefits such as:

- Improved deflashing quality and reduced product waste
- Increased throughput
- Improved temperature control
- Lower liquid nitrogen consumption
- Reduced process cycle times
- Reduced hand trim requirements
- Accurate finishing cost analysis and allocation
- Optimized piping designs
- Enhanced safety awareness and training
- Streamlined equipment installation and start-up
- Decreased system maintenance

Test for feasibility

If you're interested in determining the feasibility and benefits of using nitrogen in your finishing process, we can run your product in production-scale deflashing equipment at our trial facility in China, to help you quantify the benefits versus the cost.

In this facility, our team of experienced cryogenic professionals can perform an evaluation of your deflashing process to help identify ways to improve efficiencies.

Our applications engineers can evaluate your operation and help you identify areas for potential improvement by recommending solutions that can help improve your operational efficiency.

To understand more about our solutions or make an appointment for product testing and trials, please email to asiacpi@airproducts.com or call us at the numbers below.

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