

High precision sealing
solutions engineered
by a world leader
in edge welded
bellows
technology.

Belfab® Capabilities

Now in its fifth decade of operation, Belfab® Products is a world leader in the design, production, and application of high precision sealing products incorporating edge welded metal bellows. As a fore-runner in the development of this technology, Belfab Products continually works to advance the state of the art by engineering unique design solutions that solve critical needs within complex mechanical systems. Belfab® Products also offers contract assembly services including design, fabrication, welding, upper-level assembly, testing, and packaging. A certified Class 100/1000 clean room assembly environment is available as required. As an ISO 9001-certified organization noted for world class cellular manufacturing, Belfab® Products has built its reputation on a foundation of total quality achievement.



TARA
TECHNOLOGIES

www.taratechnologies.com

Belfab® Products

Capabilities, Features, Materials, and Customer Benefits

Capabilities

Clean Room Environments

- Certified Class 100 and Class 1000

Contract Assembly

- Engineering
- Inventory Management
- Consignment, Kanban, MRP
- Manufacturing
- Material Procurement
- Metal Joining
- Packaging
- Supplier Management
- Testing
- Upper-Level Assembly
- Electro-mechanical
- Mechanical
- Welding

Design Engineering

- BELCALX (Bellows Design Program)
- Bellows Design and Fabrication
- CAD (Computer Aided Design)
- FEA (Finite Element Analysis)
- Solid Modeling

Testing/Reliability Engineering

- Electrical
- Life Cycle (at Pressure, Temperature)
- Load/Force
- Mean Effective Area
- Metallurgical
- MST (Mass Spectrometer Testing) Leak Detection
- Pressure (Burst, Impulse)
- Rupture
- SEM (Scanning Electron Microscope)
- Shock
- Spring Rate
- Vibration (Random, Sinusoidal)
- Volume Displacement

Video Teleconferencing

- Concurrent Engineering
- Micro Inspection
- Detailed Review and Immediate Resolution
- Process Development
- Program Review

Welding

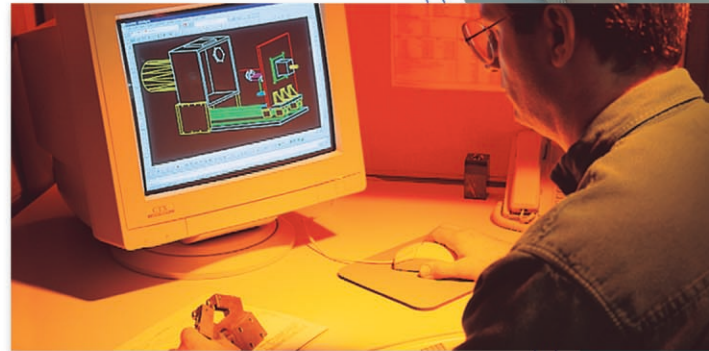
- Electron Beam Weld (EBW)
- Gas Tungsten Arc Weld (GTAW)
- Irregular (Non-Circular) Welding
- Laser Weld
- Automated
- Micro Plasma Arc Weld (PAW)
- Automated and Semi-Automated
- Orbital Arc Weld

Bellows Features

- Leak Tight to 1 x 10⁻¹⁰ std. cc/sec Helium
- Cleaned to the Highest Industry Standards
- Designed for the Highest Cycle Life Possible (One Million + Standard)
- Extreme Temperature Limits
- Low Magnetic Permeability
- Low Outgassing Rate
- Corrosion Resistant
- Electropolishing Available
- Minimum Package Size

Customer Benefits

- Custom Engineered Products
- Cycle Life Warranty
- Dedicated Product Lines
- Short Lead Times



Bellows Materials

- 300 Series Stainless Steel
- Alloy 20
- AM 350 Stainless Steel
- Hastelloy C
- Haynes 242
- Inconel 625, 718
- Monel
- Titanium



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