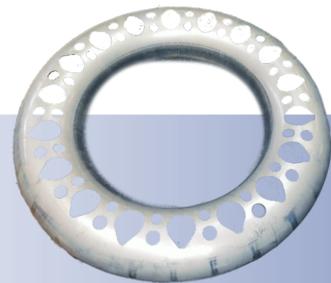


Engineering Precision. **Delivering** Excellence.

Trusted worldwide with 40+ years of excellence in metal bellows, expansion joints and precision manufacturing

**Custom Solutions, Tailored for You**



Metal  
Bellows

Edge Welded  
Bellows / Diaphragms

Precision Pipe Bending  
For Aerospace Applications

Precision Machined  
Components

Forming Dies  
and Fixtures

Critical Welding  
Solutions

**Fluidyne Engineers India Pvt. Ltd.** is a precision engineering company based in Mysore, established in 1984 with the primary goal of developing and manufacturing high-quality precision products and components.

We are an **AS 9100D, ISO 9001:2015, ISO 14001:2015** and **ISO 45001:2018** certified company.

Additionally we are registered with **DGQA, IRClass, EIL, HSL, PDIL.**

Fluidyne Engineers India Private Limited has over 40 years of expertise in manufacturing, designing and employing the latest technology in production and manufacturing.

**Our Portfolio Includes:**

- 1] **Metal Bellows:** Specializing in the design and production of high-performance metal bellows and diaphragm seals for various industrial applications.  
We manufacture Ferrous, Nonferrous, Exotic Metal bellows ranging from inner diameter 12mm to 2500mm outer diameter in single layer and multilayer bellows. We follow the latest EJMA standards for the design, manufacture and quality assurance of metal bellows.
- 2] **Precision Machined components:** Our facility is fully equipped to produce precision machine components, tools, sheet metal dies and fixtures all while meeting the most stringent specifications.
- 3] **Precision Pipe Bending with End Fittings Assembly:** We offer precision CNC pipe bending services with custom end fittings assembly.
- 4] **Precision Welding Solutions for Critical Applications:** FLUIDYNE is a trusted provider of high-precision welding services, specializing in advanced techniques and exotic materials for mission-critical industries. With a commitment to quality and compliance, we deliver reliable solutions for nuclear, aerospace, and high-performance manufacturing sectors.

IN HOUSE FACILITIES FOR QUALITY ASSURANCE		
Product Performance Testing Infrastructure	Measuring Instruments, Equipment and Special Process Tools	
<ul style="list-style-type: none"> <li>•Helium Leak Test</li> <li>•Hydraulic and Pneumatic Pressure Test</li> <li>•Spring Rate Test</li> <li>•Squirm Test</li> <li>•Burst Test</li> <li>•Cyclic Life Test</li> <li>•Liquid Penetrant Test</li> </ul>	<ul style="list-style-type: none"> <li>•Ultrasonic Cleaning Process</li> <li>•Absolute Arm (Portable CMM)</li> <li>•Digital Micrometer</li> <li>•PMI Equipment</li> <li>•Surface Roughness Tester</li> <li>•Coating Thickness Tester</li> <li>•Portable Hardness Tester</li> </ul>	

**CERTIFICATIONS & QUALITY ASSURANCE**

Welders Qualified: ASME Section IX

Quality Engineers: NDT Level II certified under ASME Section V

Client Approvals: Welded components approved by competent authority and supplied to BARC for nuclear applications

**INDUSTRIES WE SERVE - Reliable Solutions for High - Demand Sectors**

- Aerospace & Defense
- Railways
- Marine, Offshore, Coast, Guard & Navy
- Power & Energy
- Oil & Gas
- Pharmaceutical & Medical
- Vacuum & Instrumentation
- Valves & Process Industries
- CNG & Industrial Automation

## CERTIFICATES AND AWARDS

- AS 9100 D – International Aerospace Quality Management System.
- ISO 90001: 2015 – Quality Management System.
- ISO 45001: 2018 – Environmental Management System.
- ISO 14001: 2015 – Occupational Health and Safety Management System.



## CERTIFICATES AND AWARDS

SIATI [Society for Indian Aerospace Technologies and Industries]– Excellence in Aerospace Indigenization Award Presented by the Society of Indian Aerospace Technologies and Industries (SIATI). In recognition of our outstanding contribution to the indigenous development of metallic bellows for a frontline trainer aircraft.



## APPRECIATIONS AND RECOGNITIONS

IDEMI [Institute for Design of Electrical Measuring Instruments] – For carrying out Micro Plasma welding on critical profile of Diaphragm base Capacitance type Pressure Gauge Project. M/s. IDEMI, Mumbai has manufactured the 10 gauges for M/s BARC, Mumbai. In this context M/s. Fluidyne Engineers India Pvt. Ltd. has demonstrated high quality of welding technique on Inconel to SS 304 material to fabricate helium leak proof gauges at vacuum of  $10^{-3}$  mbar.



## REGISTRATIONS

DGQA – Directorate General of Quality Assurance.

IRS (IR Class) – Indian Register of Shipping.

EIL – Engineers India Limited

PDIL - Projects & Development India Limited

HAL – Hindustan Aeronautics Limited

BEL – Bharat Electronics Limited

BHEL – Bharat Heavy Electricals Limited

MDL – Mazagon Dock Shipbuilders Limited

ICG – Indian Coast Guard

HSL – Hindustan Shipyard Limited

SBC – Ship Building Centre, Visakhapatnam

BARC – Bhabha Atomic Research Centre

NPCIL – Nuclear Power Corporation of India Limited

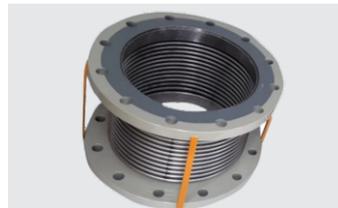
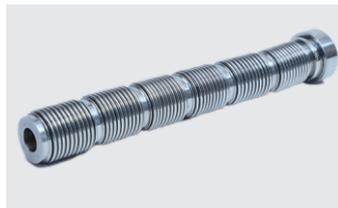
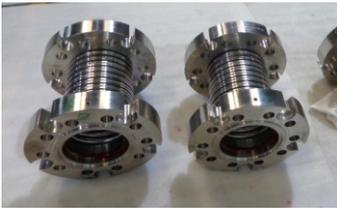
ISRO – Indian Space Research Organisation

ILP - Instrumentation Limited, Palakkad

# 01

## METAL BELLOW EXPANSION JOINTS

High-Performance metal bellows available in ferrous, nonferrous, exotic metal ranging from inner diameter 12mm to 2500mm outer diameter in single-layer and multi-layer bellows with seam design. We adhere to the latest EJMA standards for the design, manufacturing, and quality assurance of metal bellows



# 02

## EDGE WELDED BELLOWS, METAL DIAPHRAGMS AND CAPSULES

Edge Welded Bellow, Metal Diaphragm and Capsules are precision components for flexibility, pressure control, Pressure control, Vacuum Sealing and Instrumentation.



# 03

## PRECISION PIPE BENDING FOR AEROSPACE APPLICATION

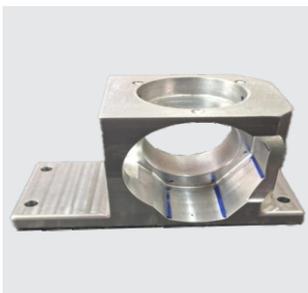
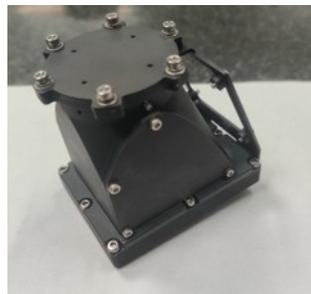
High-precision custom pipe bending solutions for aerospace applications, handling materials like Ferrous, Nonferrous, Exotic Metal with durability and accuracy.



# 04

## PRECISION MACHINED COMPONENTS

State-of-the-art machining capabilities for precision components, ensuring exceptional accuracy and full industry compliance.



# 05

## METAL DIES & FIXTURES

High-accuracy metal dies and fixtures designed for efficient production and repeatable precision, tailored to meet diverse industrial manufacturing requirements.

**Metal Die**



**Inspection Checking Fixtures**



# 06

## CRITICAL WELDING SOLUTIONS

We specialize in providing critical welding solutions for steel, alloys, and exotic metals with precision and reliability. We handle complex welding applications with advanced processes and skilled workmanship. Our focus is on strength, accuracy, and long-lasting performance.



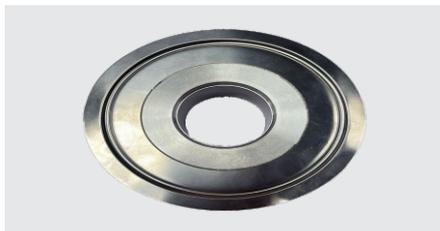
**Seam Welding for SS Grade.**



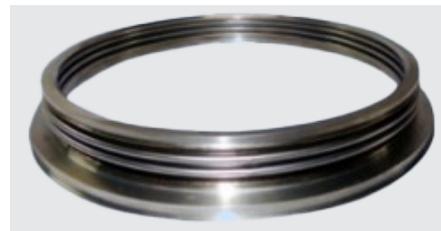
**Seam Welding for Titanium Grade.**



**Bellow To Flange Welding**

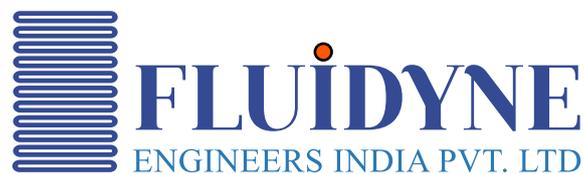


**Dissimilar Metals Welding  
– Hastelloy and Duplex**



**Titanium Grade2 Bellow  
Welded Titanium Grade2 Flange**

# Precision Manufacturing with Advanced Technology



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96195 29924, 74004 21194

Email : [info@fluidyneengineers.com](mailto:info@fluidyneengineers.com) / [sales@fluidyneengineers.com](mailto:sales@fluidyneengineers.com)

**40+**  
YEAR OF EXPERIENCE

**100+**  
CUSTOMER BASE

**500+**  
CUSTOM PRODUCTS