

HYDRAULICS

...For the Nation



www.universalflexibles.com

Universal Flexibles Private Limited (UNIFLEX), Bangalore, India is an ISO/TS 16949-2009 certified manufacturer of Flexible Compensators, Rubber and SS Corrugated Hose Assemblies, Hose Fittings, Adaptors, SS Bellows and Tube Assemblies. Incorporated in 1987, Uniflex is an established provider of customized solutions to suit extreme work environment in Naval Ships, Submarines, Aircrafts and Armoured Vehicles among others.

The Uniflex facility is housed in an area of 100,000 square feet and is self sufficient in designing, manufacturing and testing products to Indian and International standards like IS, NES, GOST, BS, SAE, ASTM, EN,, JIS, etc. Our facility has been approved by DGQA and we possess capability for inspection by agencies such as CQAE, ABS etc. Capability includes use of varied material like Titanium(B 381 Gr F5), Nickel Aluminium Bronze(CA 104 to BS 2872), Aluminium Brass(BS 2871 ,Stainless Steel(08X18H10T,321,316) , Steel(ASTMA 105) etc.



Machine Shop consists of CNC Turning Centres, CNC Sliding Head Automats, 5 Axes Sliding Head Lathe and a battery of Multispindle Automats.

State of Art Equipment like CNC Hose Swaging, CNC Nut Crimping, CNC Tube Bending and Tube End Forming machines are used in the manufacture of Hose and Tube Assemblies. Swaged Hose assemblies can be manufactured upto 10" ID and upto 1000 bar working pressure making Uniflex the only company in India to do so.



Worldclass manufacturing & processing capability



Process Equipment like Conveyor Type Continuous Annealing and Brazing Furnace and PLC Controlled Fully Automatic Trivalent Zinc Electroplating Plant are an integral part of the world class manufacturing setup.

Product Quality is assured with latest measuring and testing equipment such as Video Measuring equipment, Optical Profile Projector, 2D QM Height Gauge, Hardness Tester, Plating Thickness Tester, Salt Spray Testing Equipment, Pressure Testing Equipment etc.



Typical Applications

Chilled Water Hoses & Reinforced Flexible Compensators for Submarines.

Hydraulic Hose Assemblies for Steering and Stabilization Systems in Naval Ships.



Tube & Hose Assemblies for Aero Engines, Refueling and also for Simulation Rigs.



Hose Assemblies, Fittings and Adaptors for Armoured Vehicles And Trucks .



and more



Our Valued Customers

- BEML Limited
- Defence Machinery Design Establishment
- Gas Turbine Research Establishment
- Hindustan Aeronautics Limited
- Larsen & Toubro Limited
- Mazagon Dock Limited
- Vikram Sarabhai Space Centre

and more.....



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