



AJANTHA TECHNO SOLUTIONS PVT LTD

AN R&D ORGANISATION FOUNDED IN THE YEAR 2019

We offer a wide range of aerospace and defence solutions in aircraft product and system design and development conforming to military airworthiness standards.

ATSPL COMPANY PROFILE

Ajantha Techno Solutions Pvt Ltd is an R&D and General Engineering company founded in 2019 with its registered office at Marathahalli, Bangalore. The partners and the technical team are having vast experience and expertise in Aeronautical and infrastructure Industry in the areas of design, development and manufacturing of equipment, systems and platforms from concept to completion of projects on a turnkey basis.

Ajantha Techno Solutions Pvt Ltd has strong team of domain experts in the areas of mechanical systems, such as Hydraulics, Landing Gear, Harpoon deck locking system, Fuel system, Environmental control system, as well as aircraft composite structures.

VISION:

To build a strong and state-of-art Technological Hub for indigenous design and development of Aerospace and defence equipment to make India self-reliant.

MISSION:

Using the best available expertise, knowledge, talent and technologies and manufacturing facilities from India and abroad through technical collaboration and partnering in Aerospace and Defence sectors to make the best of quality products.



ATSPL TEAM

All our team members are well qualified and supported with continued professional development programme. Our technical and Managerial team has rich experience in aviation industry and are from premier institutions such as IISc, IITs and industries like Hindustan Aeronautics limited, Collin Aerospace (Goodrich). The following are the team members:

Dr. Balakrishna Korukonda,
MS, PhD, CEO, ATSPL

MS and PhD in Engineering Mechanics, Penn. State University, USA, Thesis subjects of Advanced Fiber Reinforced Composites and Metal Matrix Composites respectively. Served in HAL for more than three decades and retired as General Manager (RWRDC). A specialist in crash analysis of helicopters and aircrafts worked for ALH & LCH platforms from conceptual design stage to completion of the projects.

Germiya Ongolu,
BE (Mech), Chief Technical officer & MD.

Worked in Power Plant systems, Fuel System and ECS system, PMG etc., of RWRDC, HAL and as mechanical systems head and Nodal officer for Indigenisation for H/C complex. Recognised by World Human Rights Organisation and ILO for his contribution in the design and development of Robotic Sewer Cleaning System that is saving people from sewer deaths.

Mr. Ravikumar T,
M.Tech (IP), IIT Delhi, Chief of Projects, ATSPL

Worked for HAL. Has experience of 36 years in RWRDC, Helicopter and MRO divisions, in Structural detail design, CAD/CAM, Methods engg. MSD, Planning, Projects, vendor development and IT.

Dr. George Milton,
MS PhD, IISc, Senior Consultant-Design

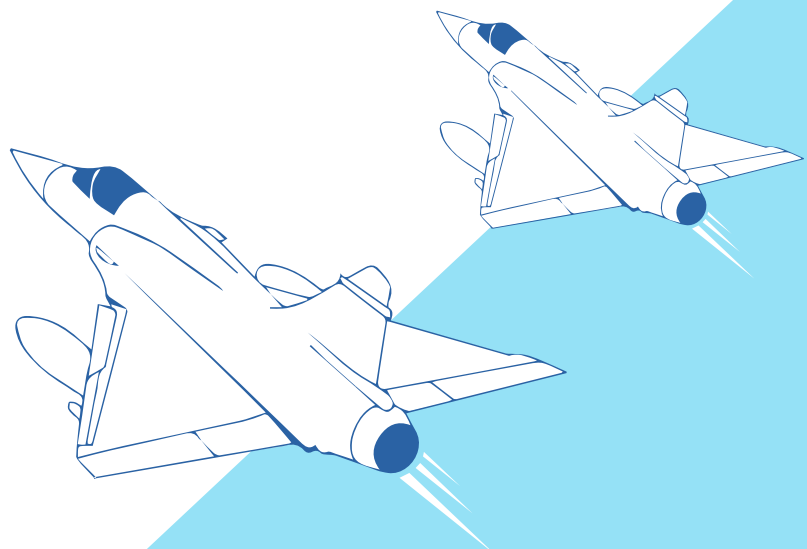
Having vast experience in Computational Fluid Dynamics and analysis. Served as professor in SSIT, Tumkur till 2019. Earlier He has served in NAL before switching over to academia.

Mr. A Prabhakaran,
BE (Mech), Senior Consultant - Hydraulics and LG

Served as AGM and HoD from ARDC landing gear group. Worked in RWRDC for more than 15 year before joining ARDC.

Dr. Bhaarath. M,
M.Tech, PhD, Head of Mechanical Systems

Worked in RWRDC for nearly a decade and later in Goodrich Aerospace. Expert in Hydraulic systems and landing Gear.

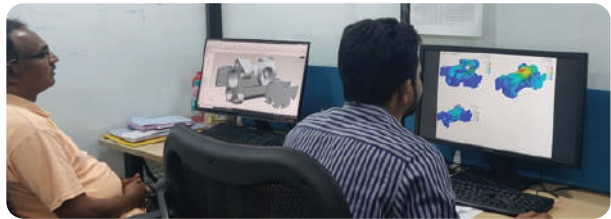


CAPABILITIES AND SERVICES

ATSPL is an R&D organisation and in collaboration with Indian MSMEs in manufacturing facility and infrastructure to become original equipment manufacturer in Industrial, Aerospace and Defence sectors. ATSPLs is involved in concept design, manufacture, qualification testing, certification, trials and final delivery of systems and components.

The detailed process are enlisted.

- Preliminary design
- Preparation of layout drawings
- Preparation of Component drawings sub-assembly and assembly drawings
- 3D Modelling
- Stress analysis and Failure mode effect analysis (FMEA), CFD
- Preparation of technical proposals, technical documents
- Prototype building and proving out
- Qualification testing and
- Certification



ATSPL facilitates technical collaborations with OEMs abroad and with premier Institution from India for Product development.

OUR EXPERTISE ON PRODUCT AND SERVICE RANGE

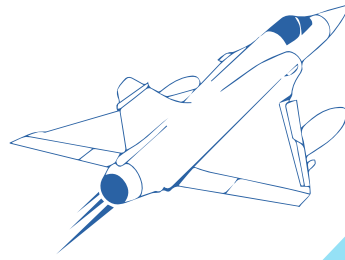
- Fuel System components & Accessories
 - Fuel banks (flexible and metallic) of type 1, 2 and 3
 - Molds and fittings
 - Valves and interconnectors
 - Fuel flow sensors
- Hydraulics system components and Accessories
 - Rotor Brakes Systems
 - Landing Gears
 - Harpoons Deck Locking System manufacture, repair and overhaul
 - Hydraulic Packages
 - GSI /GSIs
 - Heli-Grid manufacturing
- Environment control system & Accessories
 - Pre-cooler, ECU, PRSOV, SOV, NRV etc.,
- MGB oil cooling system & Accessories
- Aircraft structures and composites
- Robotic System
- Dynamometers test rigs
- Seals, O rings, Dynamic seals, Gaskets Bellows using state-of-art technology
- Polymer Coats for thermal and insulation shielding

OUR QUALITY MANAGEMENT SYSTEM

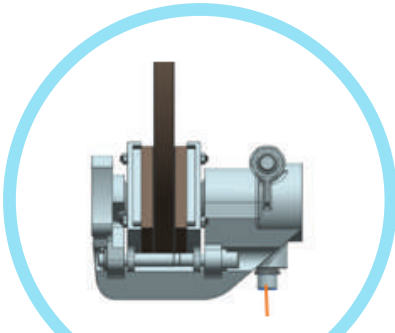
ATSPL is ISO 9001: 2015 certified with Quality Management System. We are also in the process of getting As 9001D certification for our Design Organisation.

PROJECTS UNDER DEVELOPMENT

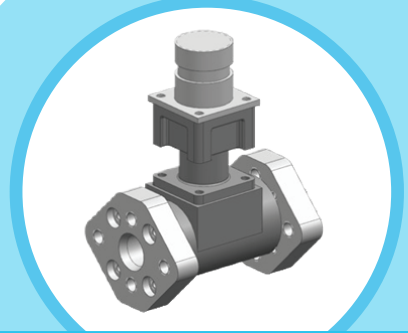
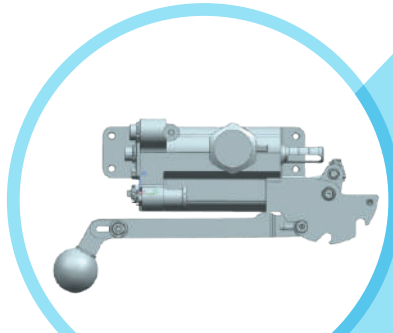
- Rotor Brake System for LUH
- Rotor Brake System for ALH and LCH
- Fuel Flow Sensor for ALH, LCH and LUH
- Gas Springs for ALH, LCH and LUH



AIRCRAFT SYSTEM



ROTOR BRAKE SYSTEM - ALH AND LUH



FUEL FLOW SENSOR FOR ALH,
LCH AND LUH



GAS SPRINGS FOR ALH,
LCH AND LUH

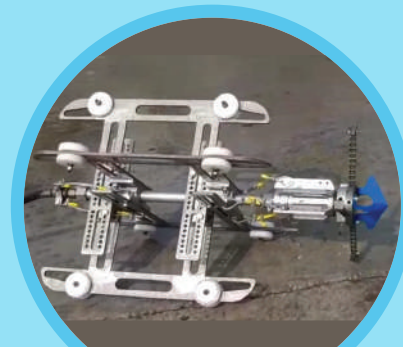


WIND SHIELD FOR HANSA NG

PROJECT COMPLETED [NON-AIRCRAFT SYSTEM]



ROBOTIC SEWER CLEANING SYSTEM



DYNASTORM 600 DIA

JOINT PARTNERSHIP WITH SRP

We have a joint partnership with SRP Synthetic Rubber Products Pvt at Peenya Industrial Estate, Bangalore. The Company was established in the year 2001 and has an area of 20,000 sqft. The company has an excellent team of qualified personnel. The latest state-of-art machines and equipment are employed in the manufacture of aircraft components, wide range of seals, diaphragm gaskets, and O rings. The unique and precision process enables production of high quality and superior performance and extremely strong, tough and resistant.

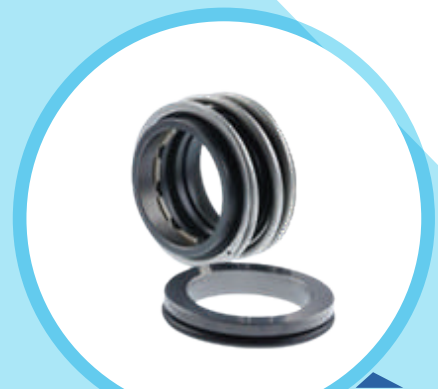
PRODUCTS MANUFACTURED



Tear Trim O rings



High Performance O rings



Dynamic Seals

And many more like

- Gaskets
- Boot Mounts
- O rings
- Grommets
- Diaphragm
- Hydraulic Seals
- Profile Gasket for fuel application
- Metal Bonded rubber components
- V Seals for Hydraulic and Pneumatic application
- HNBR Seals for High performance



MACHINES AND EQUIPMENT AT SRP



INJECTION MOULDING



VACUUM MOULDING



MAZAK CNC MILLING MACHINE



MAKINO F3 HITECH VMC



MAKINO CNC MILLING MACHINE



DOOSAN DNH-5700VMC

And many more like

- Doosan DNM - 6750VMC
- Intermix
- Bale Cutter
- Compression Moulding
- Doosan LYNX - 220 Turret Lathe
- Two Roll Mixer
- Extruder
- Spin Deflashing
- Cryogenic Deflashing
- Programmed PC Ovens
- Profile Projector
- Video Measurement
- IRHD - HD & Core
- UTM, MDR, Mooney, Viscometer, SP Gravity & Ozone Analyser

CLIENTS



- MSMEs, in Aerospace Industry
- Water and Sewerage Board across India



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