

KINECO[®]

AEROSPACE & DEFENCE



The Aerospace & Defence division of Kineco Limited, was set up in 2012 in Goa to address the growing needs of global aerospace and defense OEMs & Tier-1s.



- 70,000 Sq.ft manufacturing facility
- 6,000 sq.ft of Clean rooms and EMAs.
- Expansion initiated on adjoining 30,000 Sq.ft of land.



- Advanced Composite Structural Parts & Assemblies using Carbon, Kevlar and Glass fiber materials
- Retains agility and cost competitiveness of an MSME.



Nadcap Certified Facility:

- Composites
- NDT
- Painting

Certifications:
AS 9100 Rev D,
ISO 14001 &
ISO 45001



About Parent Group

KINECO

- Kineco Ltd. is a leading enterprise in the field of composites technologies and products
- Equipped with a state-of-the-art manufacturing and testing setup which is at par with global standards
- Over the years, the Company has consistently evolved its product offerings – now manufactures technologically-advanced composites products across key segments of railways, aerospace, defence, industrial, & space.
- Joint-venture with Exel Composites, Finland under the name Kineco Exel Composites India Pvt. Ltd. (KECI)
- The Company's deep focus on R&D in Composites materials as well as its track record of innovation has enabled it to differentiate itself globally



AEROSPACE



DEFENCE & SPACE



RAILWAYS



INDUSTRIAL

Kineco has successfully emerged as one of India's most admired and innovative enterprise in the field of Composites, catering to multiple high-growth sectors

Kineco Group – Robust Technology Base

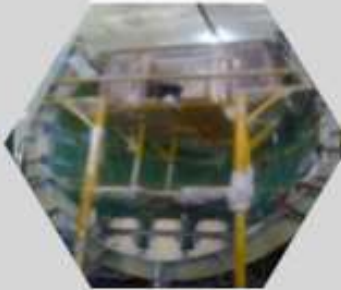
KINECO TECHNOLOGIES



Controlled
Hand Layup



CNC Filament
Winding



Resin
Infusion



Pultrusion



Prepreg Molding
/ Autoclave
Curing



Resin Transfer
Molding

R&D and Innovation

DESIGN AND DEVELOPMENT CENTERS

(Rail R&D Centre, Composite Center of Innovation)

Academia

Clients

Govt. Research institutions

Vision, Mission and Objectives

Vision



“Be the first choice of Global Aerospace & Defense OEMs for all Composite Solutions”

Mission



Our mission is to manufacture cost competitive composite parts and assemblies for the Aerospace and Defense industry, achieving the highest standards of product quality and delivery, whilst creating a globally recognized company in terms of corporate governance, sustainability and management practices

Objectives



To build a robust framework for operational excellence aimed at improving following indices:

- | | |
|---|---------------------------------------|
| 1. Sustainability of our planet | 4. Resilient partner to our customers |
| 2. Safety of our employees | 5. On-time delivery |
| 3. Quality of our products and services | 6. Cost competitiveness |

Leadership Team



SHEKHAR RAVINDRA SARDESSAI

Chairman and Managing Director

Founder and Managing Director of Kineco Group comprising of parent company Kineco Limited and its business verticals and JV Kineco Exel Composites. He is a Fabrication and Erection Engineer with a combined experience of 38 years in handling Projects, Product management, Marketing, Leadership and Corporate Management. Shekhar founded Kineco as a small-scale unit in 1995, after serving for 8 years in various reputed engineering and manufacturing companies. In 30 years, his leadership has catapulted Kineco Group as one of India's leading composites manufacturer with a strong focus on the mass transit, aerospace and defense sector with a strong legacy of innovation, development and commercialization.

S R MUKHERJEE

COO

An industry veteran with last 10 years in Aerospace & Defense Industry and 30 years in Automotive sector, is known for his proven leadership capabilities. As CEO of Tata Advanced Materials Ltd (TAML), he was instrumental in turning around a loss-making company to profit making ways with healthy cash flows. His key specialties are TOC implementation, lead time and inventory reduction & relationship management.



NAGARAJ JANTLI

SVP-Operations

Finance professional with over 35 years of experience and has extensive experience in managing finance and accounts in various companies, including large public listed and MNCs. He has significant knowledge in GAAPs/IFRS/FRP/MIS and SOX.



AVANISH DWIVEDI

V.P. – Customer Relations & Company Secretary

Professional with over 24 years of experience in General Management, Business Development, Customer Relationships, Secretarial & Legal functions. Actively involved in Export Compliance, EHS, HR & Industrial Relations, Rewards & Recognition, implementation of Code of Business ethics practices.



SWAPNIL MANE

AVP- Engineering

Mechanical Engineer (with expertise in Tool & Die Making) has over 24 years of rich experience in manufacturing Tools, Jig & Fixtures (Metallic & composites), Manufacturing & processing of Composites parts & complex assemblies.

Advisory Board

ROSS BRADLEY



A Fellow of the Royal Aeronautical Society, London and Alumni of University of Lancashire, London Business School and INSEAD, Fontainebleau, France with more than 40 years' experience in Aerospace consultancy services.

He has served as ED - FAC and as MD, Eurofighter Typhoon aircraft programme at BAE Systems, Aerospace Sector Advisor and CEO of Strata's World class composite aerostructure manufacturing facility in Abu Dhabi. Ross has worked with TATA Advanced Materials as Consultant, CEO, Board Member and Advisor contributing to the company becoming a profitable entity.

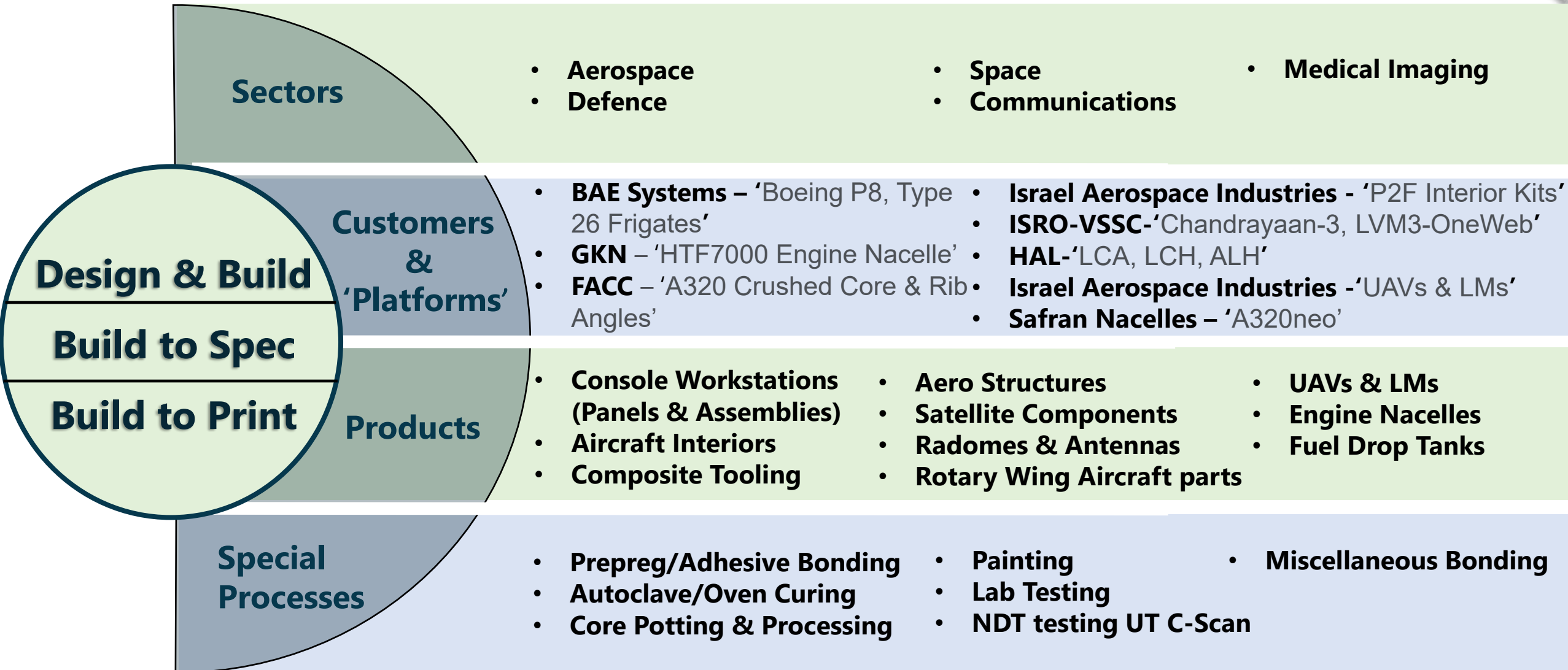
ROBERT BRAUNSBERGER



Professional in the international aerospace industry with over 25-year background in general management, business development, sales and program management. Strong, decisive personality with extraordinary commitment on pro-active customer satisfaction.

He has held several top management positions including VP-FACC's Engines & Nacelles business and Air Ambulance Technologies, Austria. Highly experienced in the composites industry for Aerostructures and Interiors applications as well as Emergency Medical Equipment. He has experience of working with Airbus Tier 1's as well as projects directly with Airbus.

Portfolio & Expertise



Key Programs

BAE SYSTEMS

"Over 850 Mission Crew Workstation Consoles installed on Boeing P-8 Poseidon Aircraft"

"Outstanding Achievement Award for M777 Offsets"

"Gold supplier for 2018, 2020 & 2021"

"Supplier of the Year for 2020"



"Key supplier for Structural Components for Launch Vehicles & Satellites"



"Single largest proven supplier of composite parts "

"Delivered over 35,000 parts for Advanced Light Helicopter (ALH) & Light Combat Helicopter (LCH)"

"Fuel Drop Tanks for LCA"



"Industrialized and delivered over 950 critical parts for A320neo Engine under Safran Nacelles program"

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Accreditations & Affiliations

Certifications



AS 9100



ISO 9001



ISO 14001



ISO 45001



NADCAP CERTIFIED **WITH MERITS**
FOR NDT, COMPOSITES & CHEMICAL PROCESSING (PAINTING)

Site Qualifications



Industry Affiliations

Illustrative Product Gallery



2006-2010

FORMULA RACING CAR PROJECTS

Executed two major Formula Racing Car projects.

Manufactured 43 Composite body panels for Formula Renault 2.0 Car including Chassis parts viz, Monocoque Front upper, Monocoque Rear Upper, Monocoque Floor, Monocoque Side LH-RH etc.



2006-2010



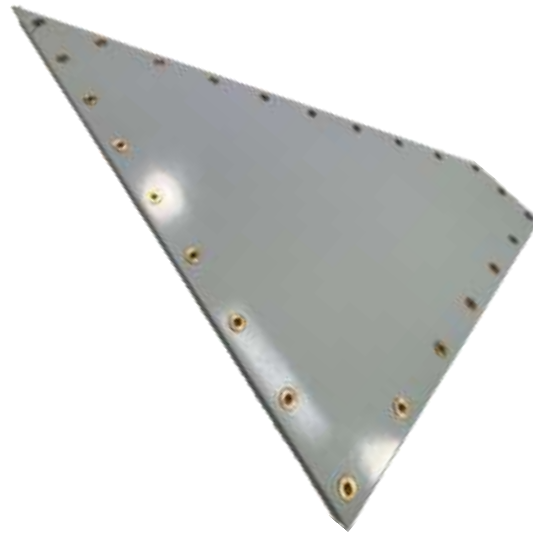
CARBON FRAME FOR PERFORMANCE BICYCLES

MILITARY AIRCRAFT



MISSION CREW WORKSTATION (MCW)
CONSOLE STRUCTURE *for* BOEING P-8
POSEIDON

NAVAL SHIPS



COMPOSITE BLISTER PANELS *for*
TYPE 26 WARSHIPS

ROTARY WING AIRCRAFT



HELICOPTER PARTS

FUEL DROP TANK



NOSE CONE SHELL (AFT)
1200 LTR



NOSE CONE SHELL (FWD)
800 LTR



NOSE CONE SHELL (FWD)
1200 LTR



REAR CONE ASSY. (AFT)
800 LTR



CENTER SECTION SHELL
800 LTR



LIGHT COMBAT AIRCRAFT PARTS

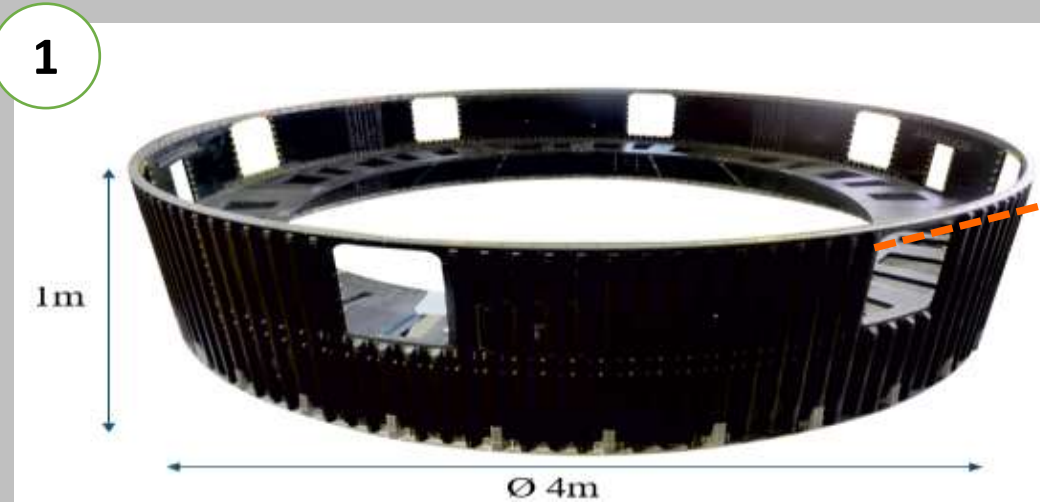
SPACE MISSION



Equipment Bay Shroud Assembly for
ISRO

OneWeb Satellite Mission

SPACE MISSION



EQUIPMENT BAY
SHROUD (4 MTR DIA)



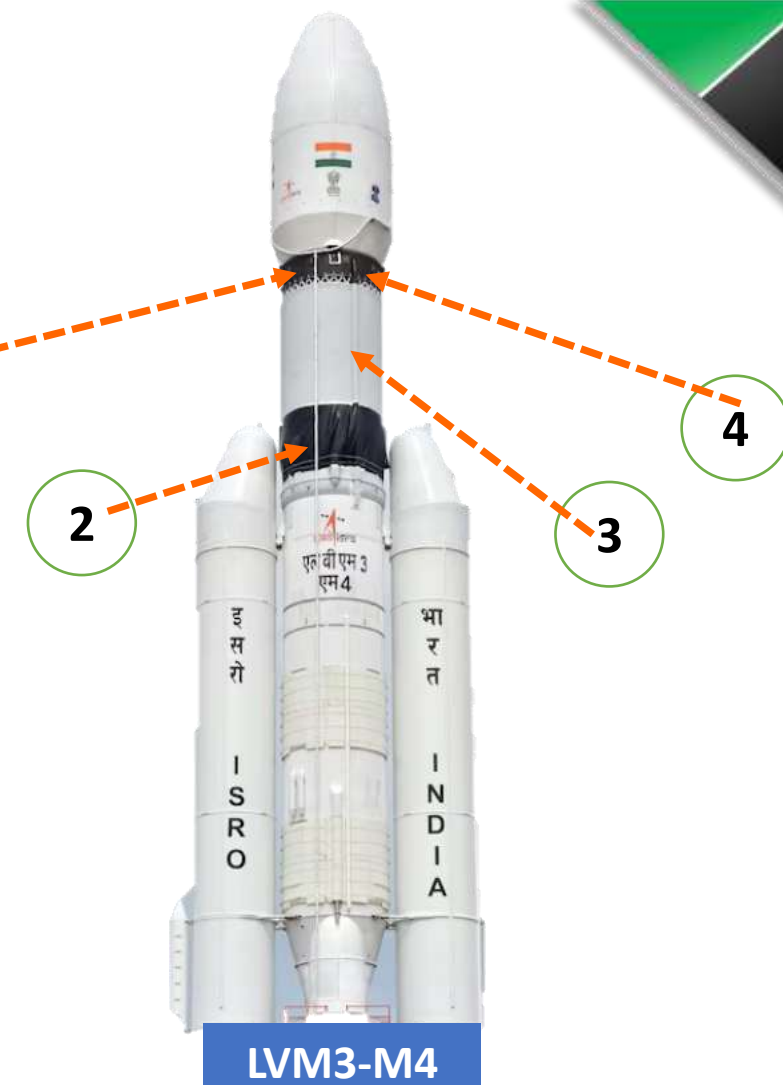
ITSC CLOSURE
PLATES



ITSC, LOX, LH2 WIRE TUNNEL
& BOTTOM PLATE ASSEMBLY

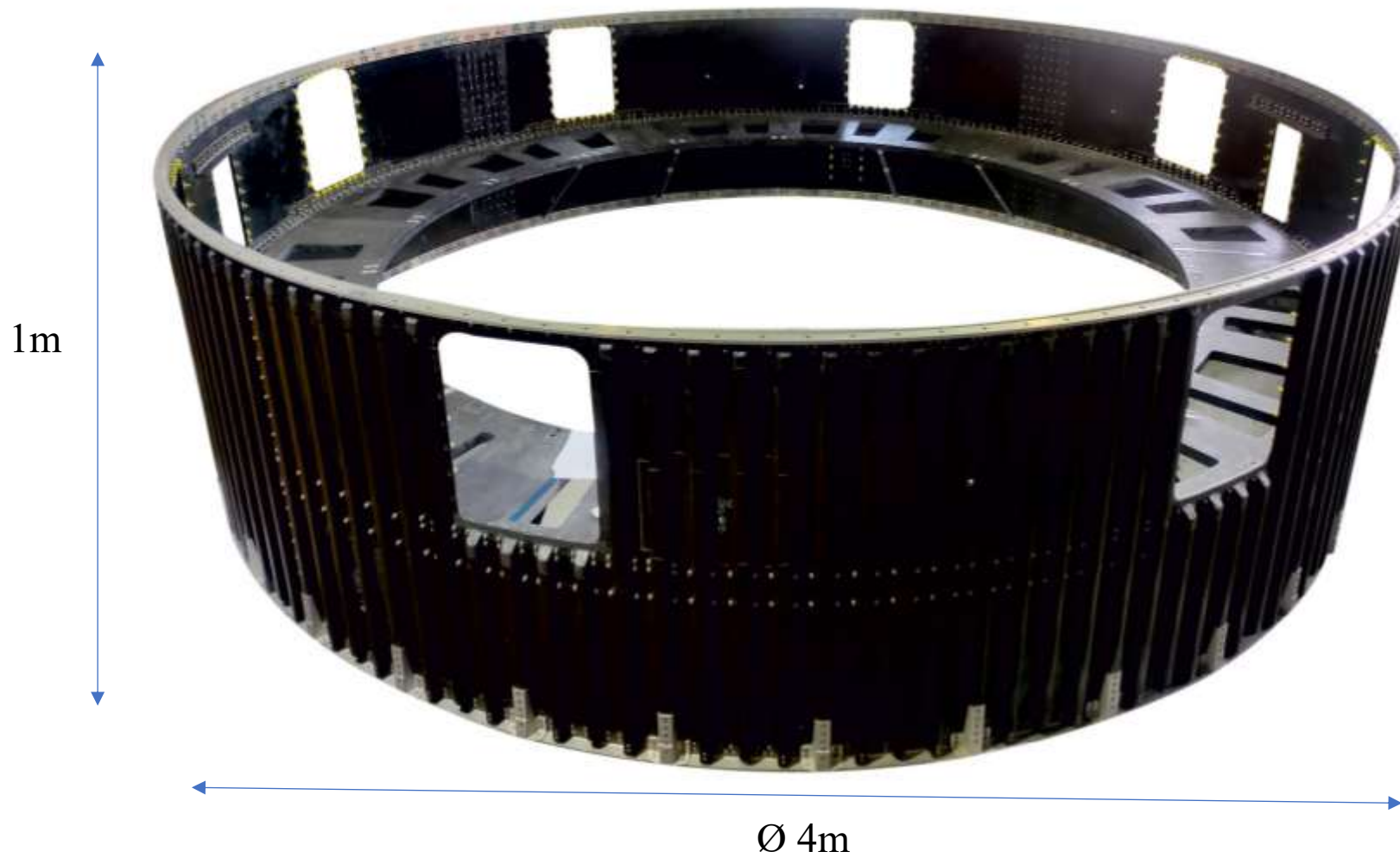


FSA CASING CFRP
ELEMENTS



CRITICAL STRUCTURAL COMPONENTS
for
Chandrayaan-3 Lunar Mission

SPACE



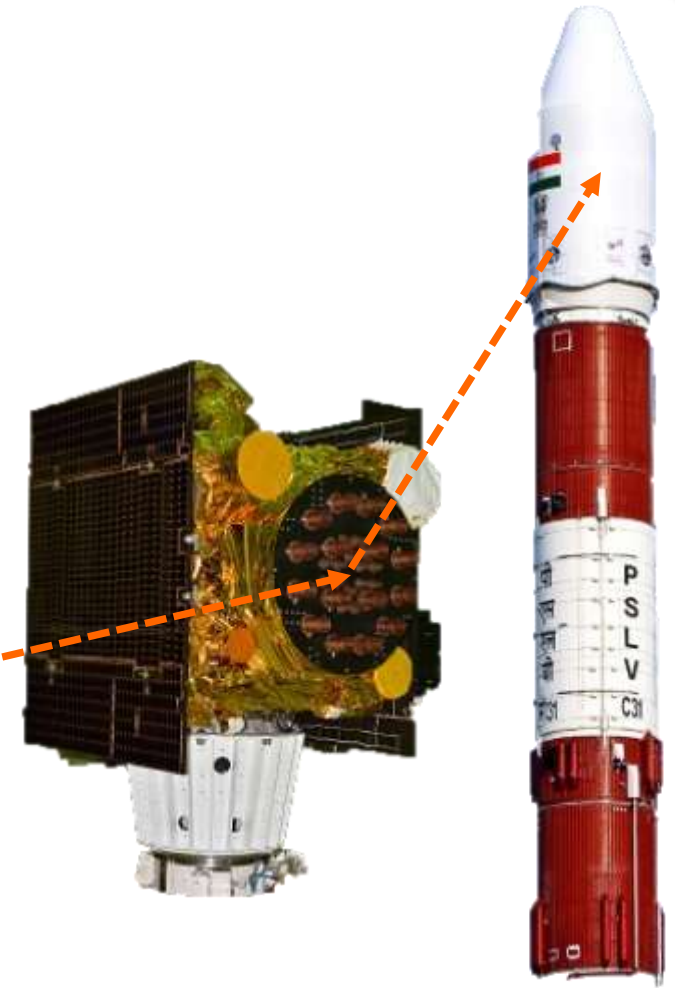
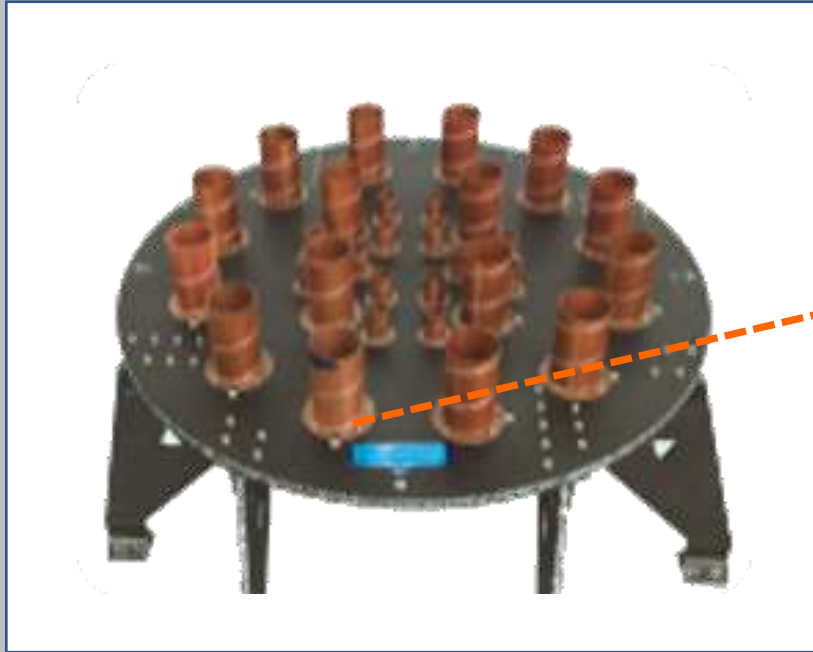
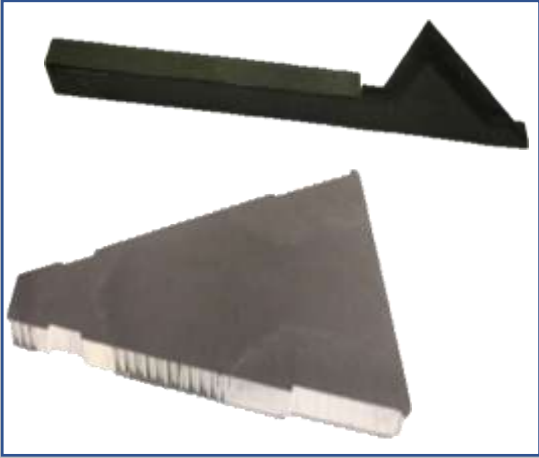
Equipment Bay Shroud Assembly for ISRO LVM-3 Space Missions

SPACE MISSION



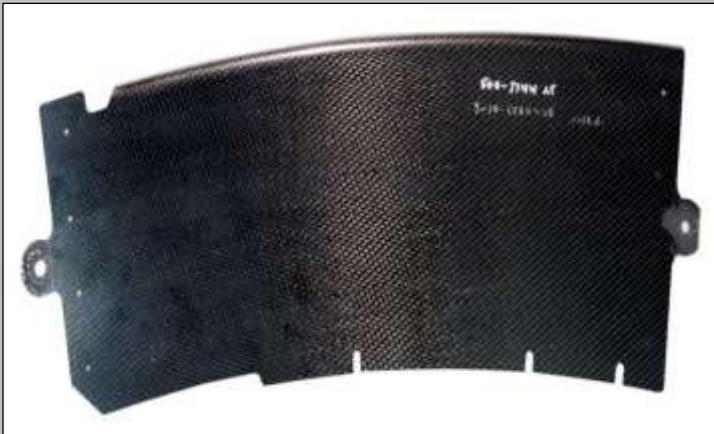
CREW ORBITER MODULE ADAPTOR
ASSEMBLY (OMA) for
Human Space Flight Mission

SPACE MISSION



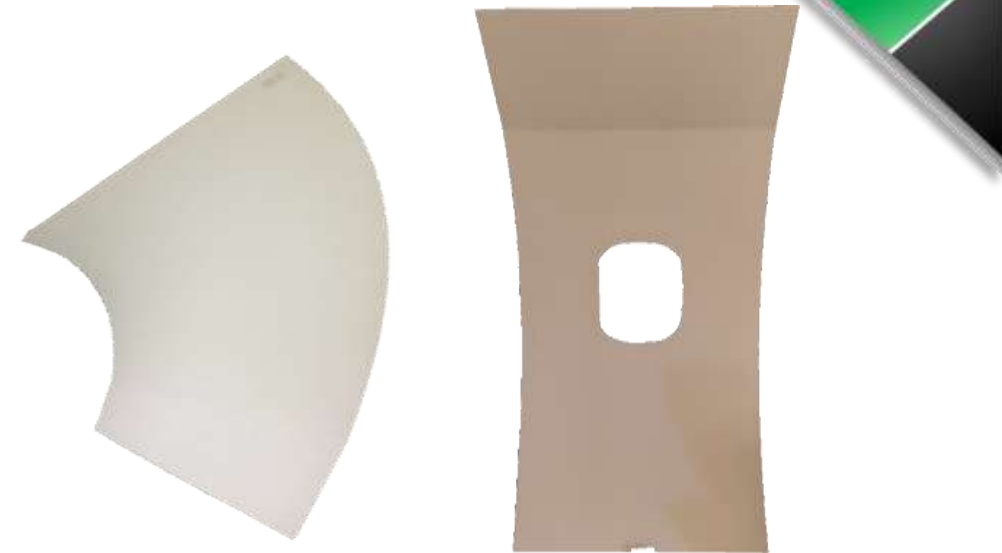
SATELLITE ANTENNAS FOR IRNSS &
LAUNCH VEHICLE STRUCTURES

CIVIL AIRCRAFT



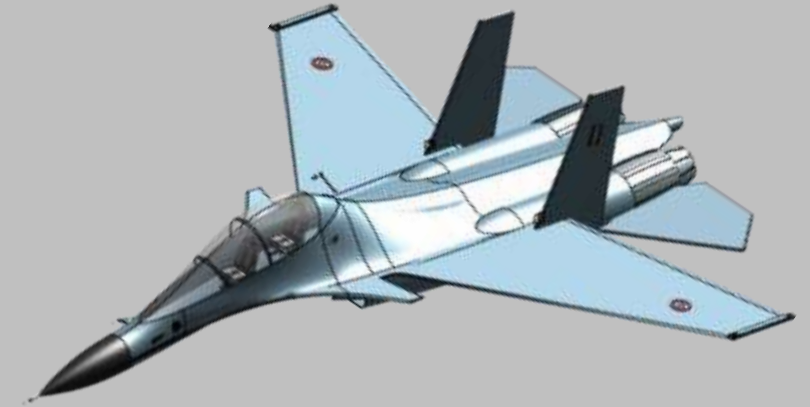
PARTS & SUB-ASSEMBLIES
(ENGINE NACELLE)

PASSENGER 2 FREIGHTER (P2F)



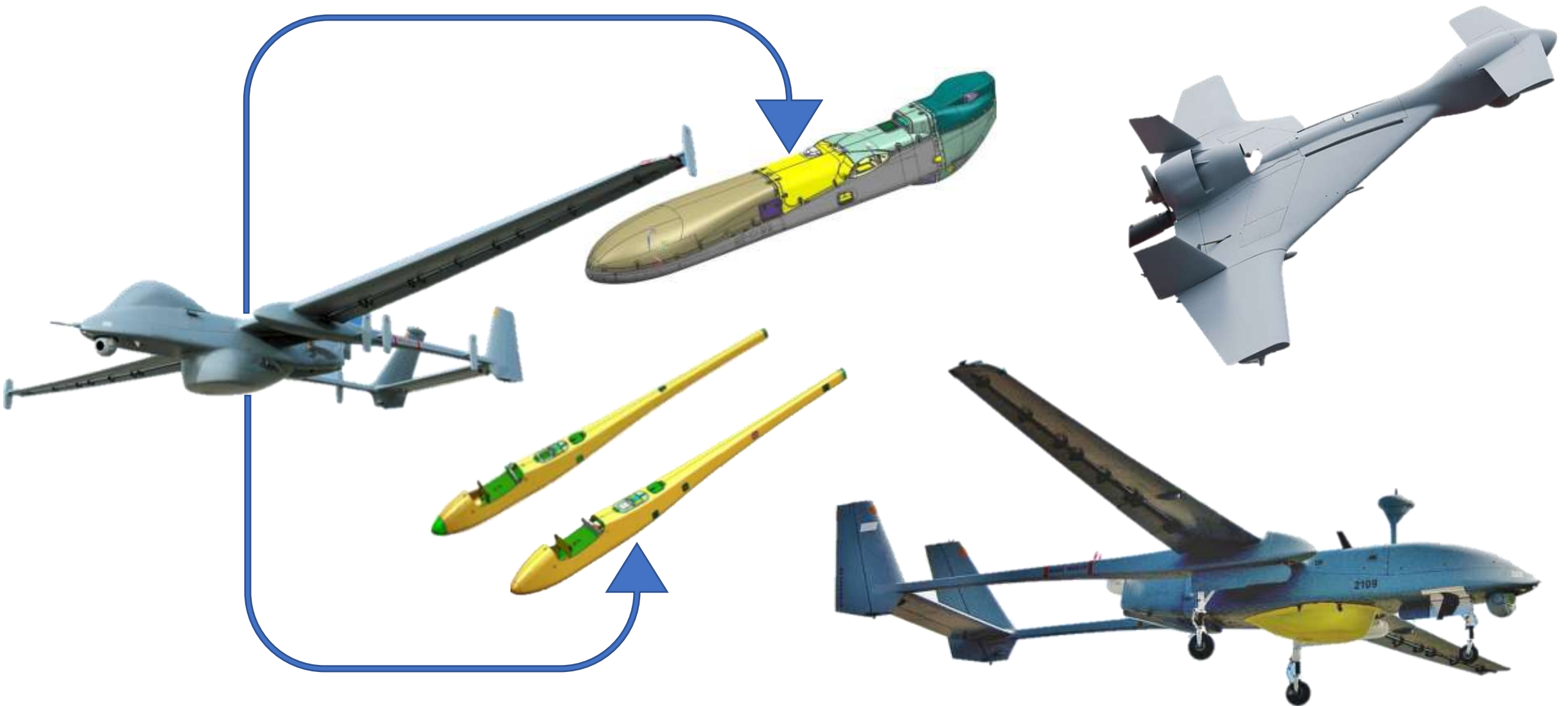
INTERIOR KITS *for*
B 737/767

COMMUNICATIONS

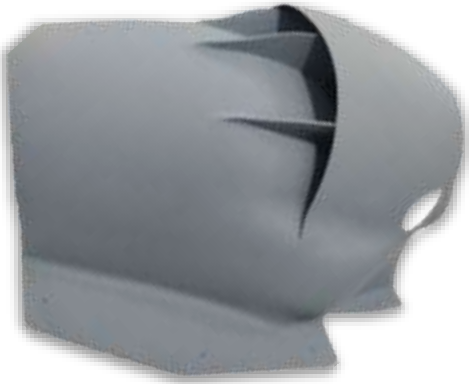


SATCOM ANTENNA ASSEMBLY *for*
ADVANCED DEFENSE SYSTEMS

UAVs for military applications



Unmanned Aerial Vehicles & Loitering Munitions



STRUCTURAL PARTS *for*
HAROP

Interior systems for Vande Bharat

Became largest supplier of interiors systems for Vande Bharat.



वंदे भारत
EXPRESS

Interior systems for Vande Bharat Sleeper

Design, Development and Manufacturing of Complete Interiors for Vande Bharat Sleeper Train.



Facility & Manufacturing Snapshots



Manufacturing Facility



Manufacturing Facility



Manufacturing Facility



Industrial Capabilities



ISO 14644-1 Class-8 CCA



Laser Projection



CNC Ply Cutter

Industrial Capabilities



Autoclaves
Ø2.5x5m & Ø3x8m



5 Axis CNC Router



Oven



EMAs – 6,000 Sq.ft



Paint Shop

Planned Industrial Capabilities



Extension at Plot 61-B 30,000 Sqft



Dia 3m x 12m Autoclave



5-axis Machining Centre
6m x 1.9m x 1.3m



Hydraulic Platen Press
4m x 1m, 3 pcs. steel heating
plates for max. 200 °C for
Crushed Core & Interiors

**ECSA TYPE IV
VAPOUR DEGREASING
EQUIPMENT**



Engineering Capabilities



*Composites & 3D Design
Software*



AUTODESK
AUTOCAD

2D Design Software



MSC Software
Nastran
Patran



Tie-up for Design & Build Opportunities



AI-Based Material Optimization Software

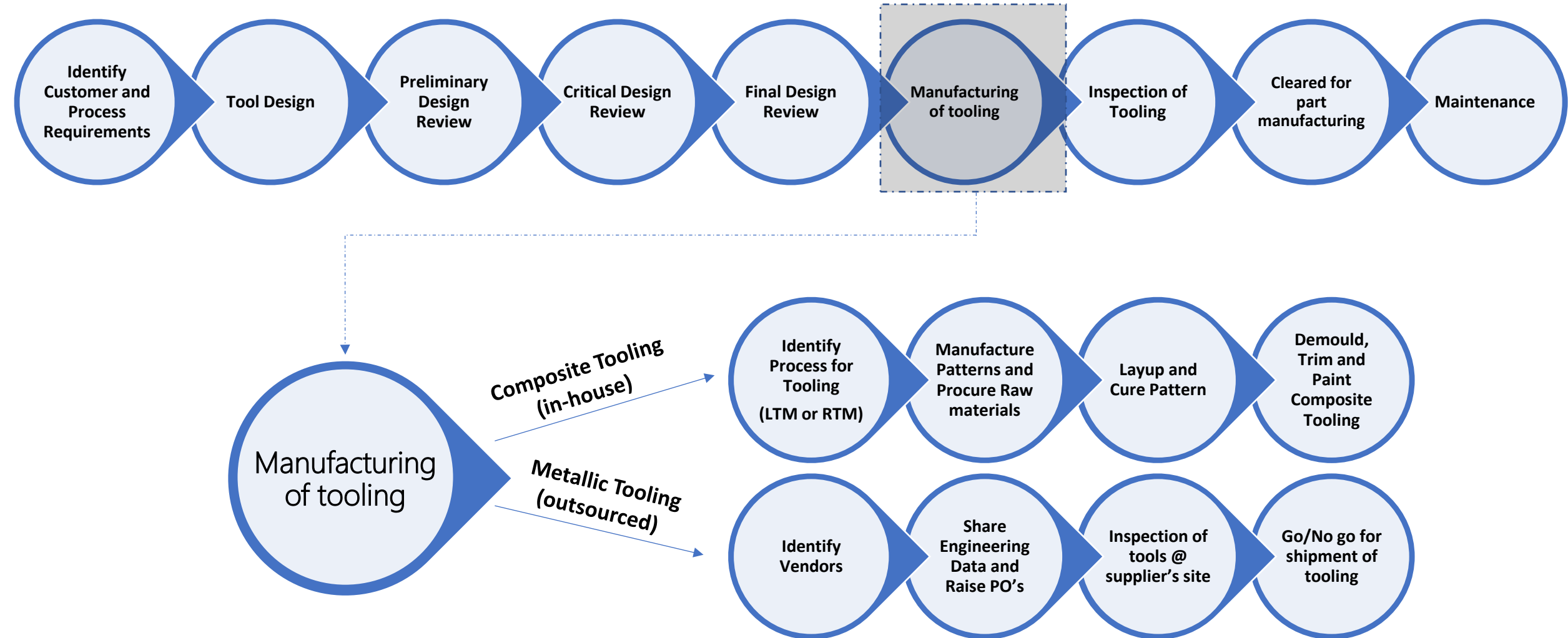


POWERMILL®



5 Axis CNC Programming & Simulation Software

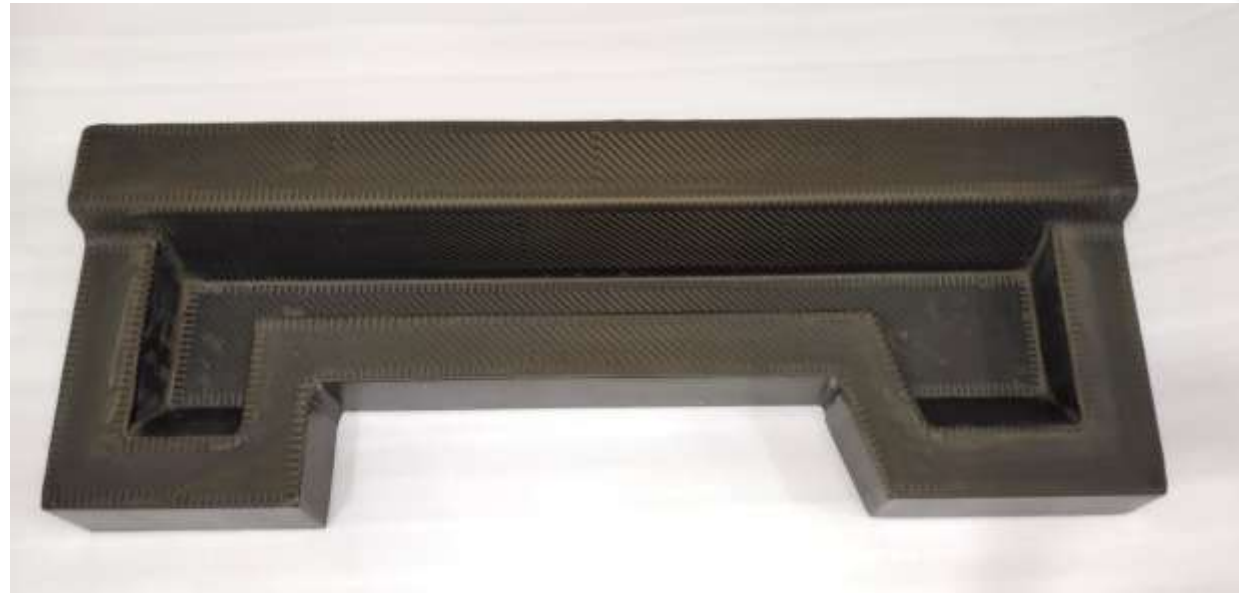
Tool Design and Development



Snapshot of Metallic tooling



Snapshot of Composite tooling



Lab & NDT Capabilities



UTM



DSC



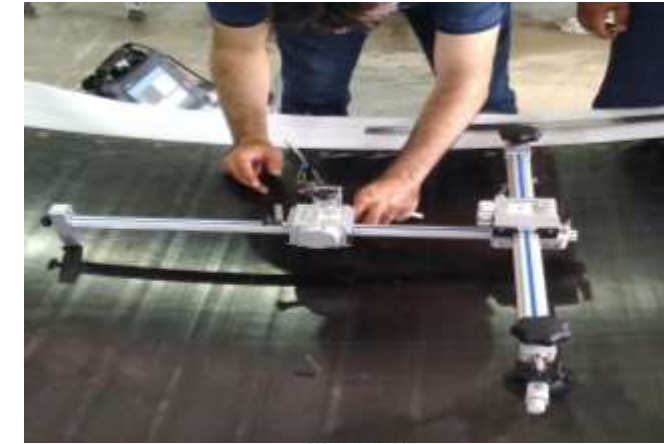
Flammability



Faro Arm



A-Scan



2D C-Scan



Dry Scan



NDT Capability – Dual Robotic UT C-scan

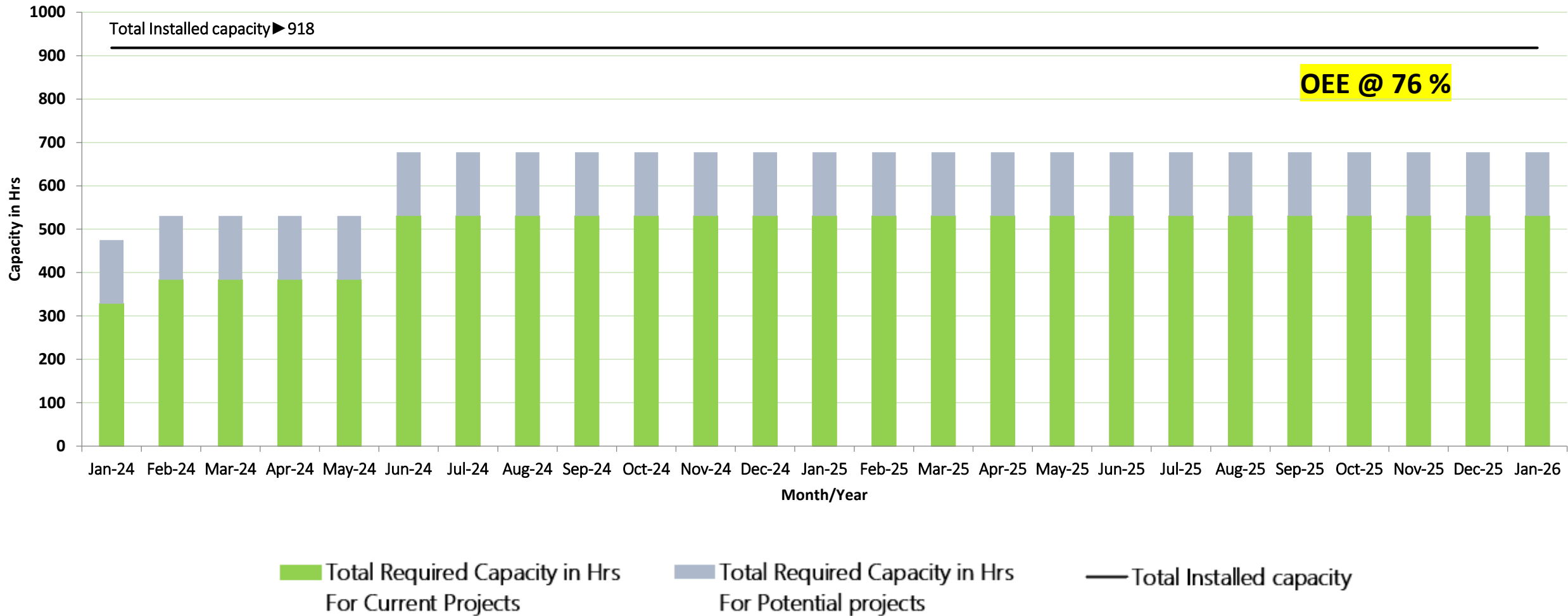


DRS ACCUBOT UT Inspection System

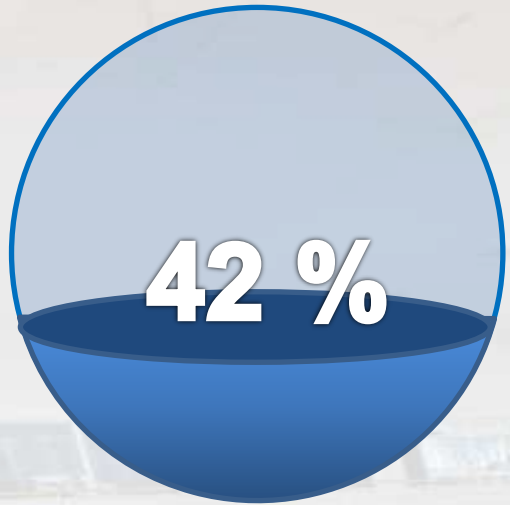
<i>Type of C-Scan system</i>	Dual Robotic type system
<i>Manufacturer</i>	Fill, Austria
<i>Mode of C-scan inspection/ Inspection Techniques</i>	Water-coupled C-Scan ultrasonic (UT) scanning using P-E (Pulse Echo) modes. scanning using T-T (Through Transmission) modes.
<i>Type of UT system</i>	Squirter Technique
<i>Inspection area: Length: (X) Width: (Y) Height: (Z)</i>	Inspection area: Length: 7000mm Width: 2500mm Height: 2500mm
<i>Number of axes</i>	14 Axes

Capacity Planning Process

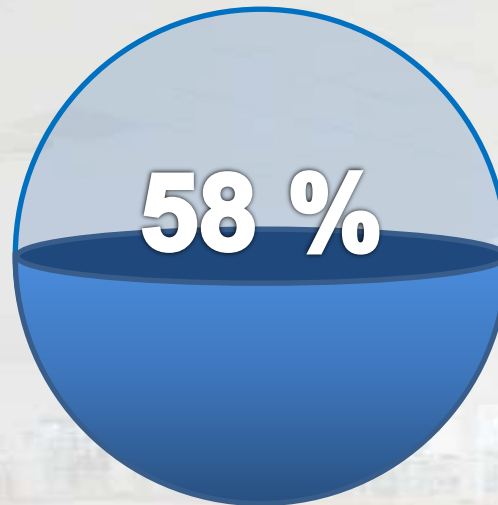
Autoclaves Capacity Planning



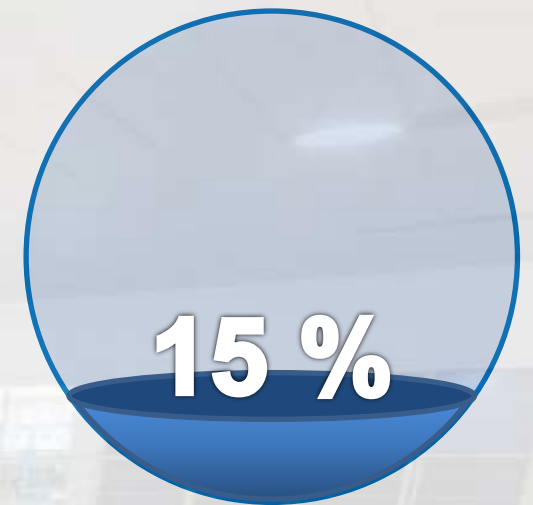
Capacity Utilization (June-2024 to May-2025)



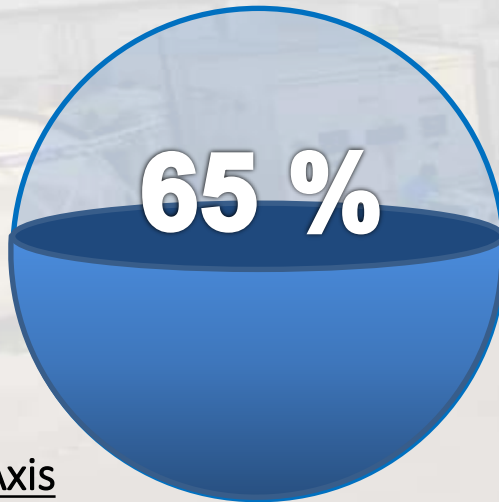
Clean Rooms
Total Capacity: 550 sq.m



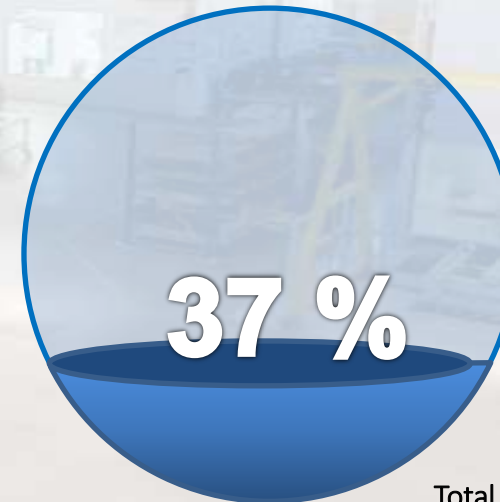
Autoclaves
Total Capacity: 900 hrs /month
OEE @ 76%



Ovens
Total Capacity: 960 hrs /month
OEE @ 80%

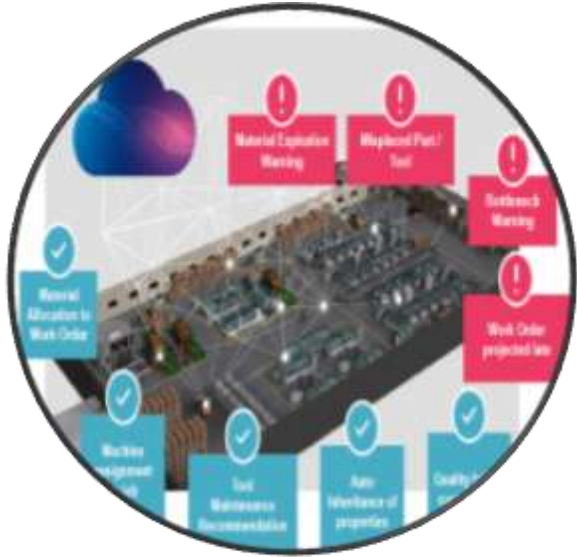


CNC 5 Axis
Total Capacity: 450 hrs /month
OEE @ 75%



Paint booth
Total Capacity: 450 hrs /month
OEE @ 75%

Towards Industry 4.0



***Interconnected &
Digitized Environment***



***Smart Automated
Nesting***



Info-Analytics

Sustainability and Resilience

- **Carbon neutral** by **2035**, **51%** of factory power generated through Rooftop Solar PV Project
- **(CO2 emission saved $\cong$ 500 trees planted/month)**
- **Paperless** Raw Material **Shelf Life** Management through **RFID** Scanners
- Waste Reduction. (**Super nesting software/ Reduction in Chemical consumption**)
- Creating **awareness on Sustainability** to employees, within business and home life.
- Major logistics of material and finished products through **Sea shipment.**
- **ISO 14K & 45K** practiced in letter & spirit, **Co-processing of FRP Solid Waste**
- **Sustainable waste management & Zero-Waste Future**
- **Business Continuity / Business Process Architecture/ Localisation**

Governance and Ethics



CODE OF CONDUCT

**CAMPAIGNS ON
SAFETY RISK**



**CORPORATE SOCIAL
RESPONSIBILITY**

SOX COMPLIANT



**EXPORT AND TRADE
COMPLIANT**

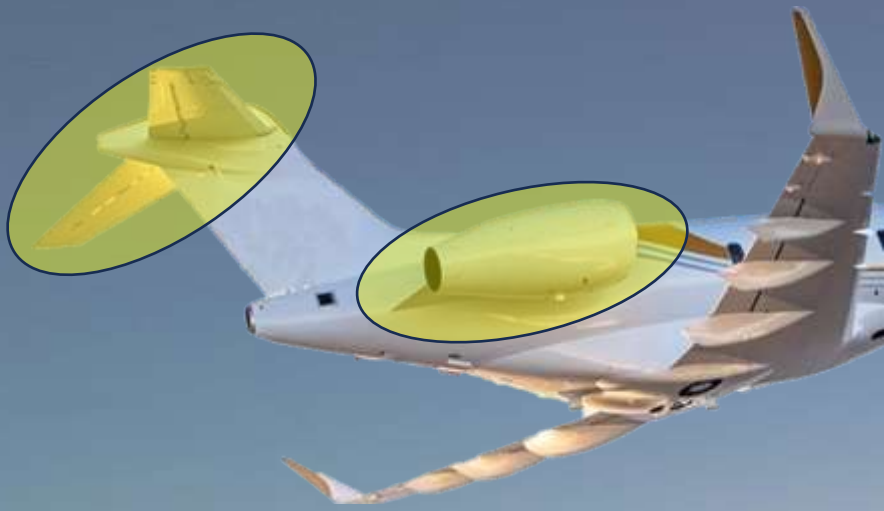
**ISO 45001:2018 &
ISO 14001:2015
COMPLIANT**



**ZERO TOLERANCE
APPROACH TO BRIBERY**

POSH COMPLIANT





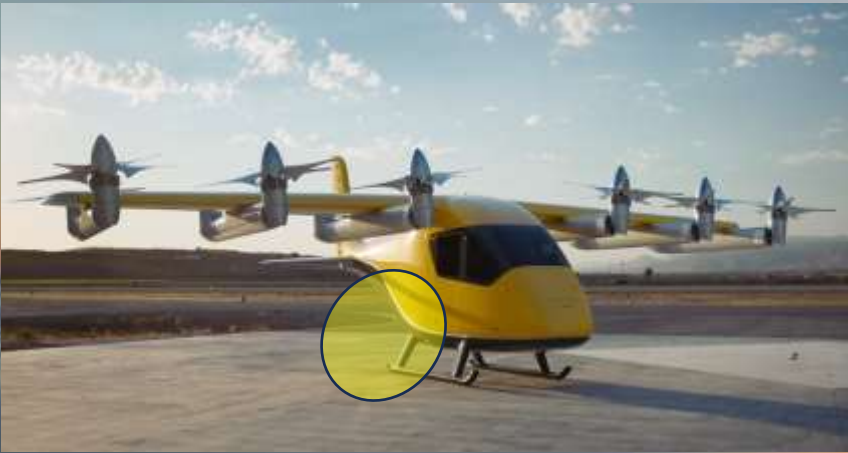
Critical Components for Business Jets



Complex Structural Assemblies & UAV COE



MRO



Primary Aerostructures



Aircraft Seating Solutions

New Horizons

KINECO
AEROSPACE & DEFENCE



THANK YOU

"We look forward to be your partner in your journey to growth"



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