



SHREE ENGINEERS

Company Presentation

presented by

Dhananjay Jakhadi
Managing Director



SHREE ENGINEERS

About us :

Plot No. G – 17, M.I.D.C.,
Ambad,
Nashik
422010. Maharashtra
India



Tel.+91 253 2382094 / 2307852
Cell : +91 9822036524 - Dhananjay Jakhadi
Cell : +91 9225104151 - Sanjay Jakhadi
E-mail: dgjakhadi@gmail.com

www.shreeaeromech.com



About the Management



- **Dhananjay**

- **Jakhadi**, 53, Managing Director is a graduate Engineer and with more than 29 years of experience.
- He has worked in quality assurance and manufacturing departments of multinational company – BOSCH in India, Germany and France
- Qualified Lead Assessor of ISO 9000.

His philosophy :

- Approach to quality is to work through systems and “Do it right first time”.
- All is ensured by built-in system of self-inspection at every operation right from Design to Machining.
- This way of working results in ZERO REWORK AND ZERO DEFECTS.
- Thus, the Company – SHREE ENGINEERS has got a sound technical and systems base for delivering high Quality Products.

- **Sanjay Jakhadi**, 46, Deputy Managing Director is an Engineer, started his career with the establishment of the Company.
- He looks after marketing and Customer Support.
- He has hands on experience in Tool making from Design to Machining and operating the machines.
- These capabilities of working with own hands provide excellent training/guidance to operators.



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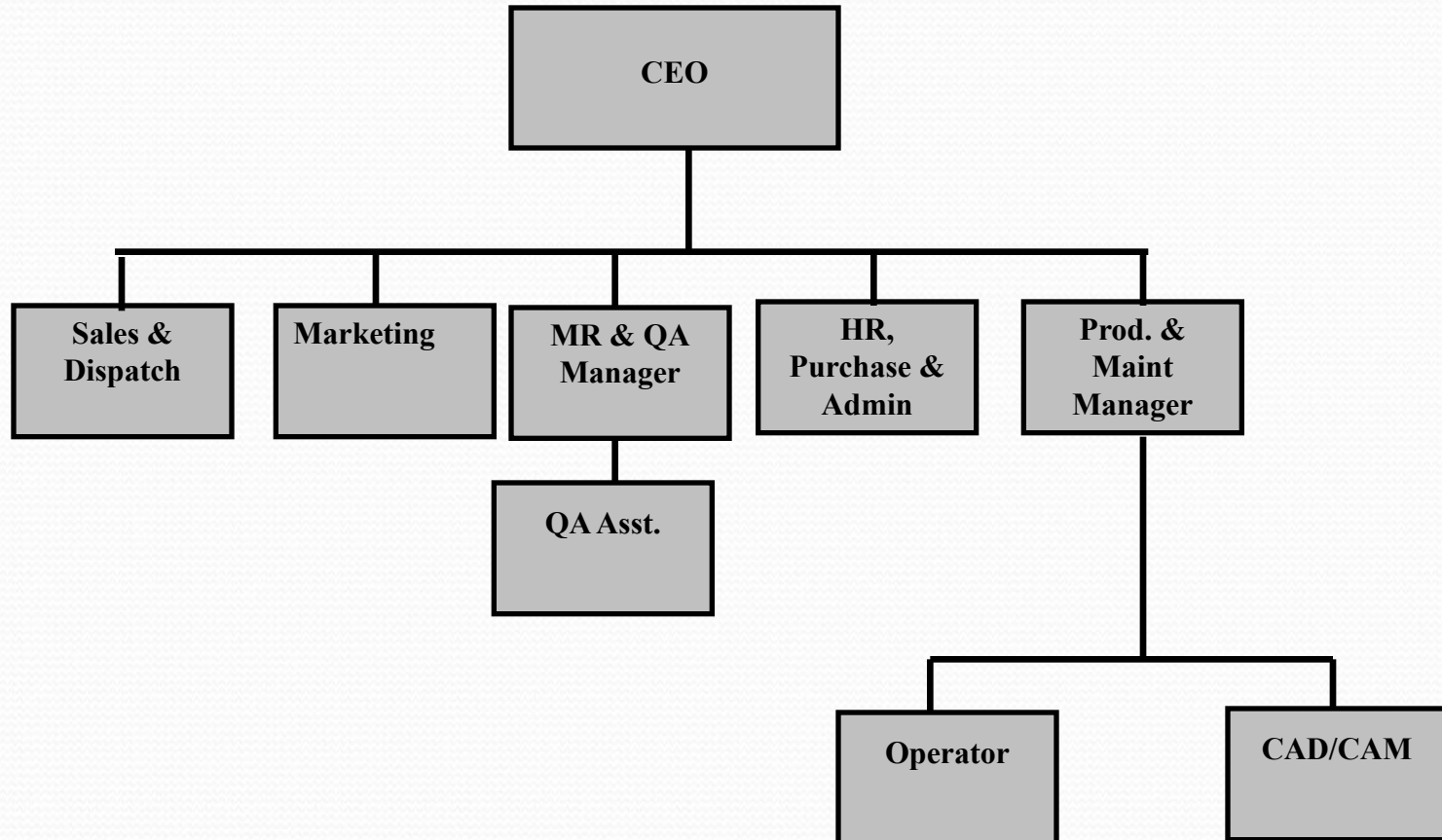
Company History and Milestones

- **SHREE ENGINEERS** established in 1992, promoted by two brothers as a Commercial Tool Room to manufacture Plastic injection moulds for automotive, consumer durables Electronic and Electrical industry.
- Shree Engineers is focused on being the best engineering resource for Mould development, Mould design and manufacturing. Shree Engineers has been efficiently utilizing advanced engineering material and design technology combined with our extensive experience to provide our customers with the world class moulds. The Company has manufactured 1000 Moulds till date.
- As a Passion for precision, in 2011 started with the manufacture of machined Aerospace Components for HAL and other Indian Aerospace companies



SHREE ENGINEERS

Organization Chart





Manpower :

Total Number of Employees : 30

Management and Administration Officers: 4

Sales and Marketing Executives: 2

CAD/CAM Engineers : 4

Production Technician : 18

Quality Engineers : 2

Shop Floor Area : 900 Sqm.

Annual Business Turnover

Year	Total Business Turnover Euro	Aerospace Business Euro
2017	1.10 M	0.55M
2016	1.07 M	0.25 M
2015	1.07 M	0.15 M



MISSION:

- To work in close cooperation with the Customer to optimize business performance and relationship

This will be achieved by :

- Application and implementation of our best practices in the manufacture of Ultrahigh Precision machined parts for Aerospace Industry and be the world class manufacturer of aerospace components & sub-assemblies.
- Offer cost effective solutions in close loop with the Customer to optimise business performances for both.

VISION:

1. To become centre of excellence and leading manufacturer of machined Aerospace Components & Subassemblies by year 2019-2020.
2. Interested in making business co-operation with overseas Tier 1 supplier to Primes by way of forming Joint Venture.
3. To establish own research and development capability in cooperation with the Customer.
4. Be the best employers & supplier.



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Excellent Production Capabilities through:

- Top of the line machining centre from world leading manufacturer Deckle Maho Germany (DMG) in 3 Axis, 4 Axis & Simultaneous 5 Axis.
- 5 Axis Machine with X Axis - 1800 mm.

Materials and alloys :

- Focused on machining of Ti / Al / Mg / Ni alloys for Aerospace Industry.
- Machining regularly SS Impeller for marine applications.
- Capable of machining Blisk.

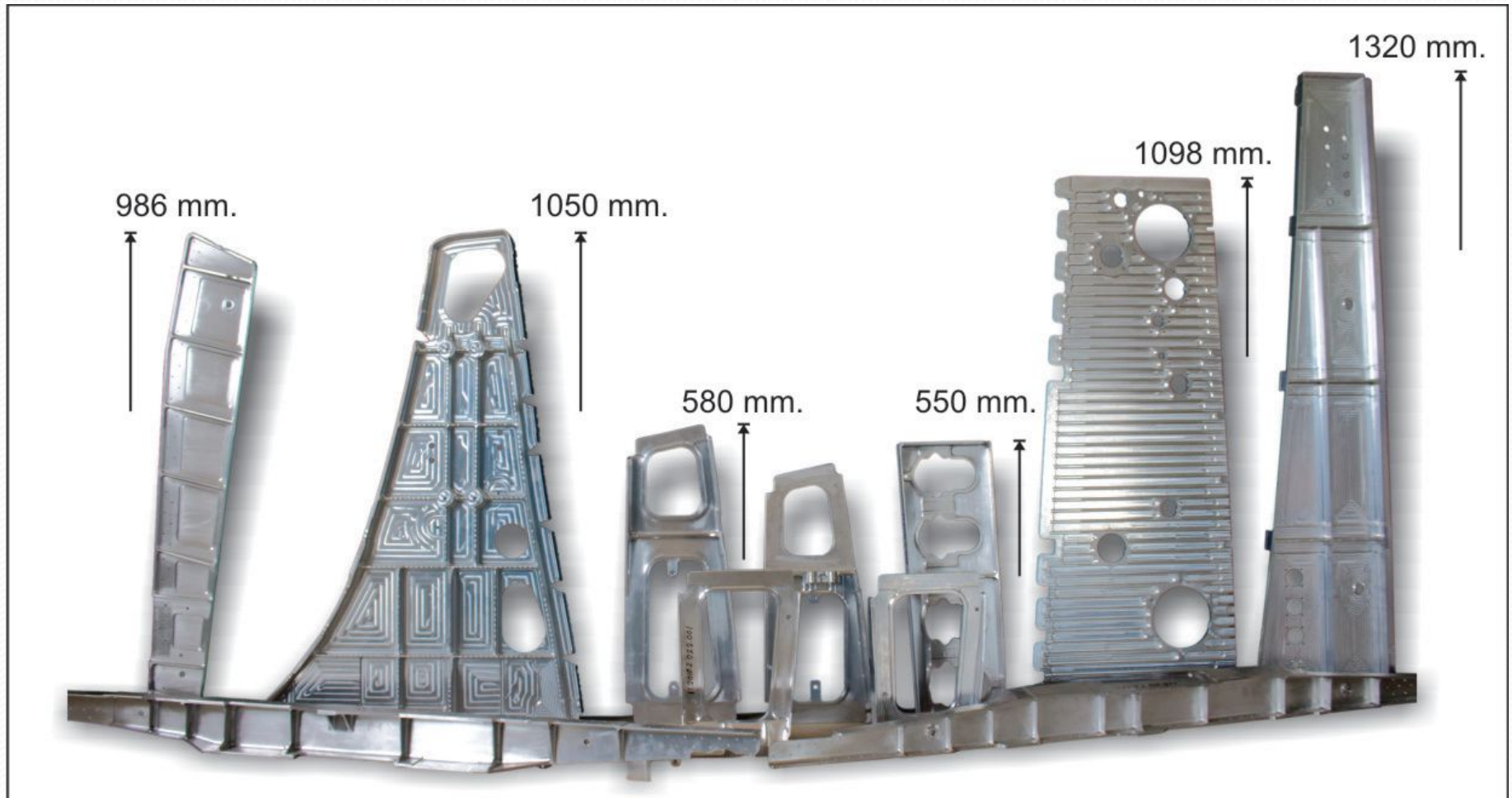


Competence in machining of structural parts

- Front Fuselage – Beam, Profiles.
 - Rear Fuselage – Beam , Longeron, Longeron Flange.
 - Rear Fuselage – Beam, Panel of Frame, Lateral Panel of Floor.
 - Wings – Parts for Box Assembly, Wall Ribs, Skin
 - Central Fuselage -Cover Plate ,Coupling Flange
-
- Types of Parts developed since 2011 = 60.
 - Aluminum Parts = 56
 - Titanium Parts = 04
 - Magnesium Parts = Developed Prototype
 - Total Parts machined in all above Materials till date 4800 Nos.



Major aerospace machined structural parts





Beam



Size :229.46 X 804.29 X 83 mm.

Material :Aluminium

Longeron Flange



Size :174.5 X 986.76 X 40 mm.

Material :Aluminium

Wall Rib



Size :429.7 X 1098 X 10 mm.

Material :Aluminium

Lateral Panel of Floor

Size :329.4 X 1320 X 27 mm.

Material :Aluminium





Coupling Flange



Size : 334.995 X 949.46 X 35 mm
Material : Titanium

Diaphragm



Size : 135.4 X 155.89 X 52 mm.
Material : Titanium

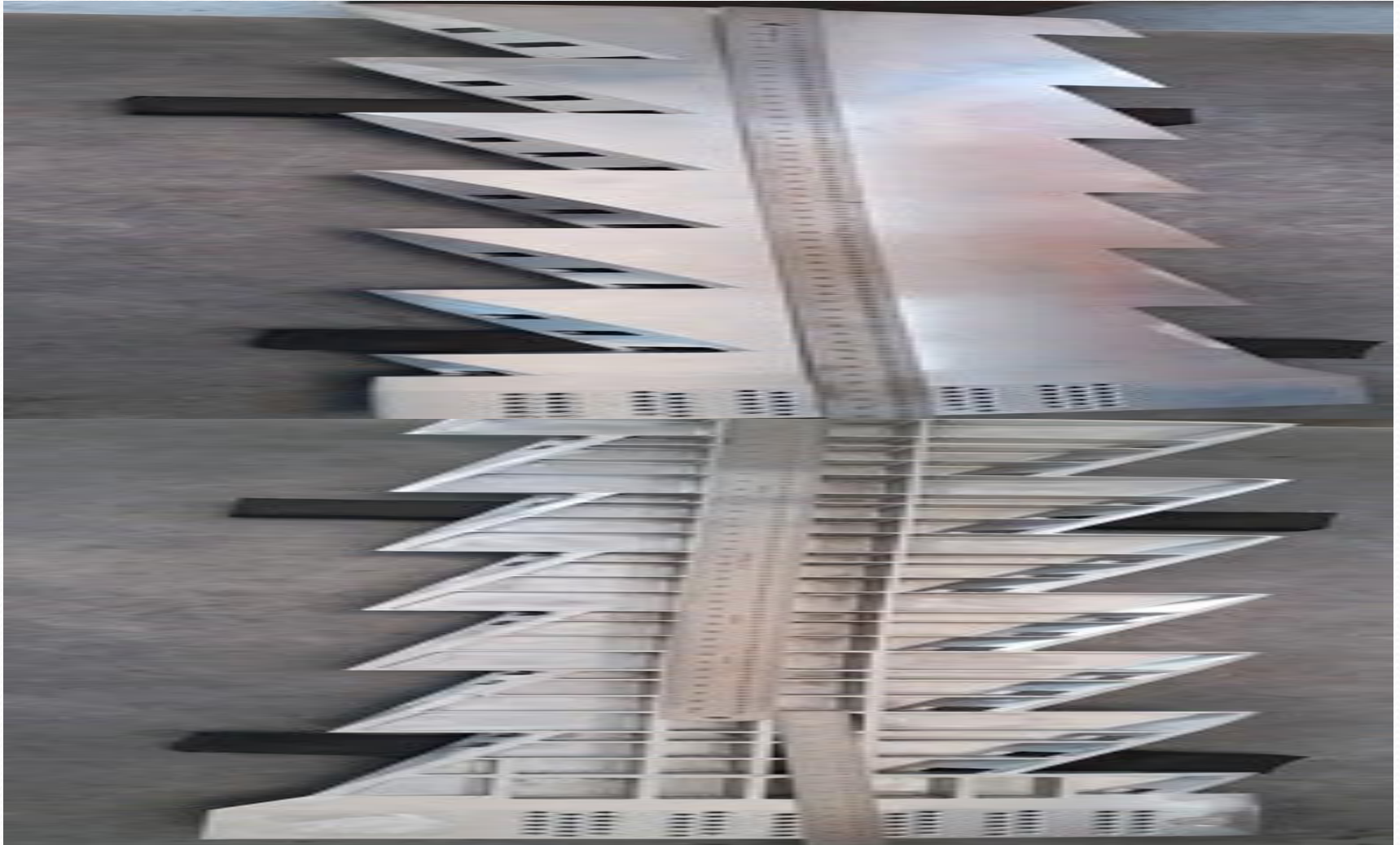
Cover Plate



Size : 150.89 X 166 X 53.1 mm.
Material : Titanium



STEALTH WING



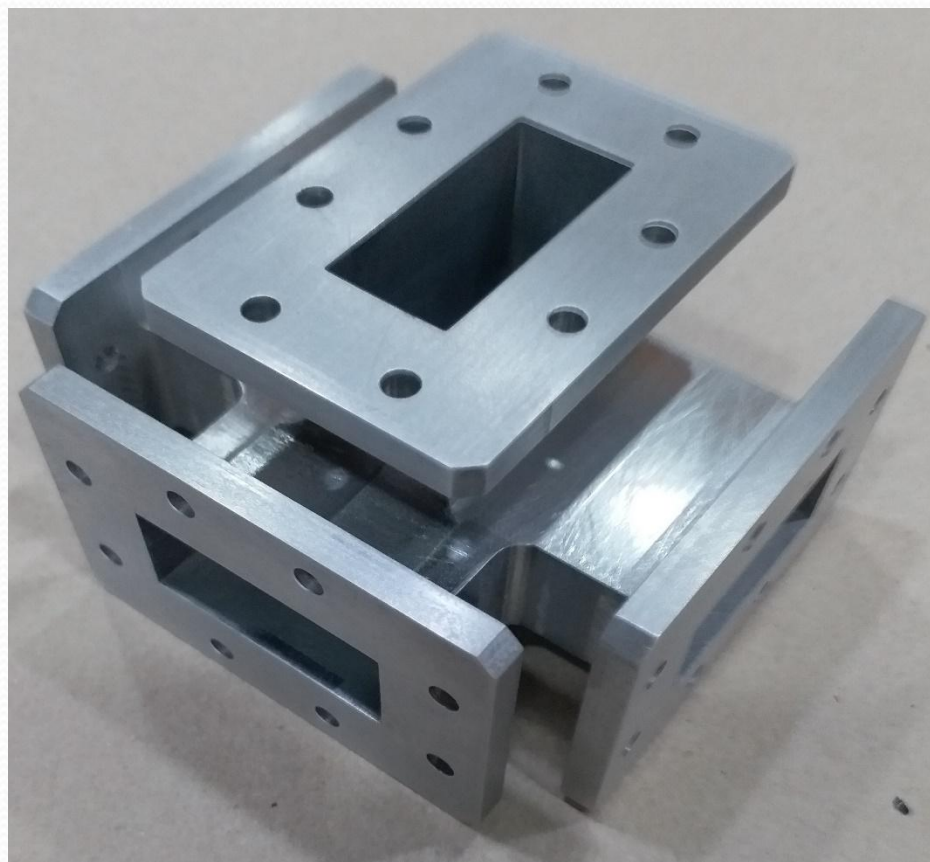
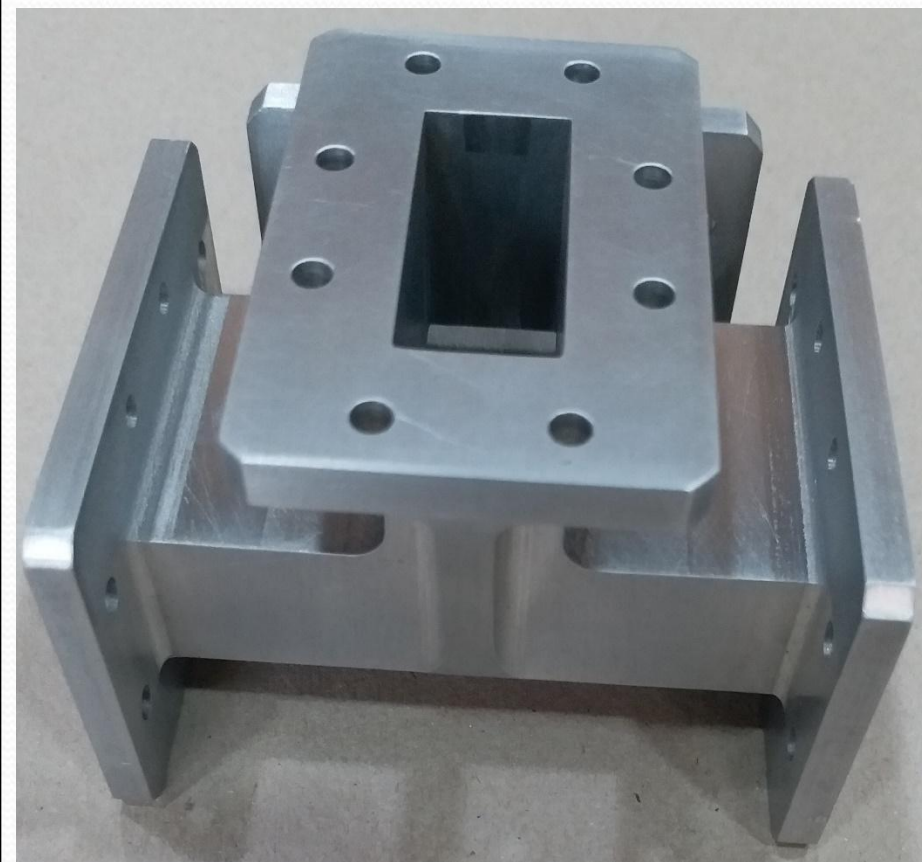
Size : 1400 X 330 X 40 mm.

Material : Aluminum



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MAGIC T WAVE GUIDE FOR ANTENNA





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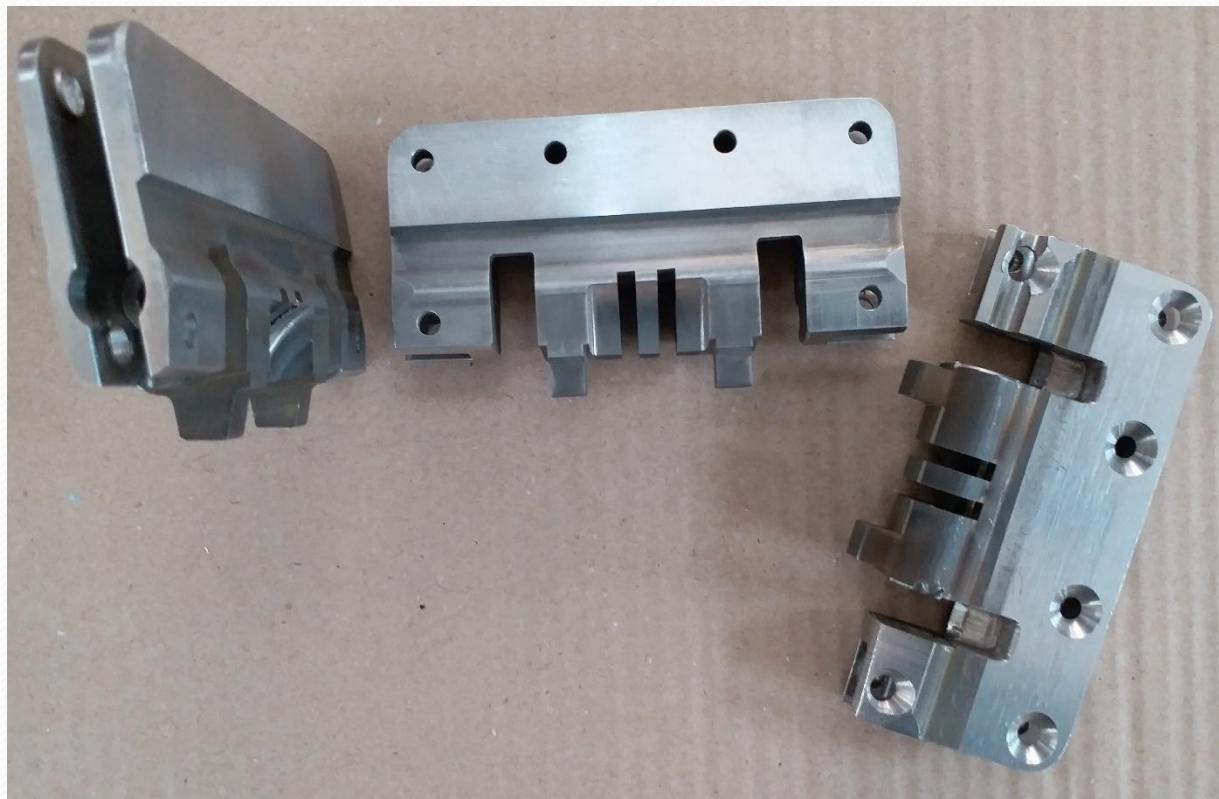
BRAHMOS PARTS





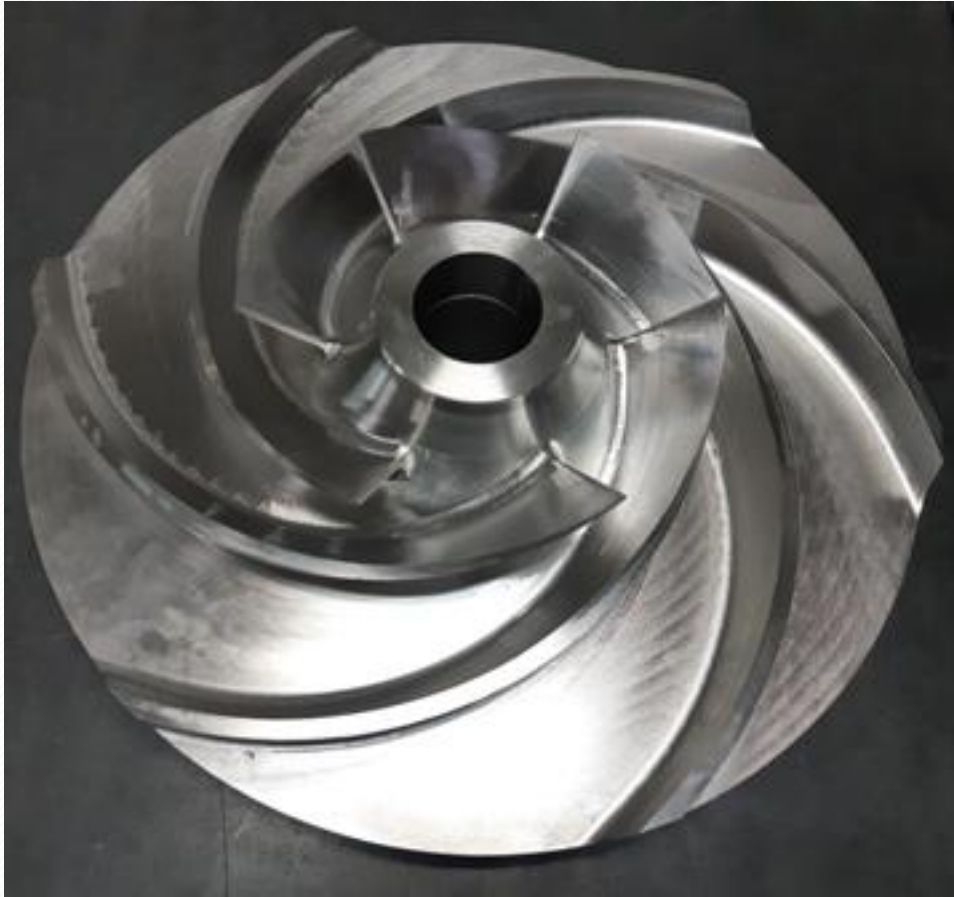
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BRAHMOS PARTS





IMPELLER MACHINED ON 5 AXIS MACHINE



MATERIAL DUPLEX SS
Dia. 650 mm





IMPELLER MACHINED ON 5 AXIS MACHINE

MATERIAL DUPLEX SS- Dia. 750 mm





MACHINE PARK :

A. VERTICAL MACHINING CENTER : 5 Nos.

1) DECKEL MAHO DMC 64 V linear

- **Table Size :** 850 x 630mm Table load (mounting weight) 600 kg
- **Working area:** X- axis WITH LINEAR DRIVE 640mm, Y- axis 600mm, Z- axis 500mm
- **Rapid Feed rates :** X = 70 m/min / Y & Z = 40 m/min
- **Direct Measuring system** - 0.001mm
- **Working spindle :** Speed range **1 - 12,000** rpm
- **Tool magazine /changer (ATC) :** Number of tools = 30
- **Control system :** HEIDENHAIN iTNC 530



2) DECKEL MAHO DMC 1035 V

- **Table Size :** 1200 x 600mm Table load (mounting weight) 1000 kg
- **Working area :** X- axis 1035mm, Y- axis 550mm, Z-axis 500mm
- **Rapid Feed rates :** X = 40 m/min / Y & Z = 40 m/min
- **Direct Measuring system** - 0.001mm
- **Working spindle :** Speed range 1 - 12,000 rpm
- **Tool magazine /changer (ATC) :** Number of tools = 20
- **Control system :** 3D CNC Control HEIDENHAIN iTNC 530





3) DECKEL MAHO DMF 180 – 5 Axes

- **Table Size** : 2100 x 700mm Table load (max. weight) 1500 kg
- **Working area** : X- axis 1800mm, Y- axis 700mm, Z- axis 700mm
- **Rapid Feed rates** : X = 40 m/min / Y & Z = 40 m/min
- **Direct Measuring system** - 0.001mm
- **Working spindle** : Speed range 1 - 18,000 rpm, ATC – 60 Tools
- **Integrated Rotary Table Dia – 750 mm , Load = 500 Kg.**
- **B Axis swivel Head = +/- 100 degree.**
- **Control system** : 3D CNC Control HEIDENHAIN iTNC 530



4) DECKEL MAHO DMC 1150V

- **Table Size** : 1400 x 750mm Table load (mounting weight) 1200 kg
- **Working area** : X- axis 1150mm, Y- axis 700mm, Z-axis 550mm
- **Rapid Feed rates** : X = 40 m/min / Y & Z = 40 m/min
- **Direct Measuring system** - 0.001mm
- **Working spindle** : Speed range 1 - 18,000 rpm
- **Tool magazine /changer (ATC)** : Number of tools = 20
- **Control system** : 3D CNC Control SIEMENS ERGO line





5) HAAS VF2

- **Table Size : 750 x 500mm** Table load (mounting weight) 700Kg
- **Working area** : X- axis 750mm, Y- axis 500mm, Z-axis 410mm
- **Rapid Feed rates** : X = 30 m/min / Y & Z = 30 m/min
- **Working spindle** : Speed range **1 - 10,000 rpm**
- **Tool magazine /changer (ATC)** : Number of tools = 20



CAD/ CAM :

- High end CAD & CAM Licenses software
- **Autodesk (5 seats)**: Having modules
- **POWER SHAPE** for Design
- **PS DRAFT** for Drawings
- **POWER MILL** for Machining with High Speed Machining capabilities (**HSM**)
- **PS-EXCHANGE** having direct translators for :**CATIA, PRO-E, IDEAS, UNIGRAPHICS, SOLIDWORKS, SOLID EDGE**, & Standard format like IGES, STL, VDA, PARASOLID, DWG, DXF, etc.
- **Autodesk Software dedicated module for machining of BLISK and IMPELLER**



B : WIRE EDM MACHINE – MITSUBISHI- MODEL – BA 8

- Work piece Dimension – 700 x 550 x 215 mm
- Maximum Work piece weight – 500 Kg.
- Machining Travel - 320 x 250 x 220 mm



C SPARK EROSION MACHINE (EDM) :

“ELECTRONICA” make Model EMS - 5030 with
ZNC Generator (25 Amp)

D. SPARK EROSION MACHINE (EDM) :

“ELECTRONICA” make Model EMS – 5535 with PS50
Generator (30 Amp) **ZNC**





E : SPARK EDM MACHINE – JOEMARS Model : AZ 50 DR

- Table Size : 750 x 520 mm
- Machining Travel - 500 x 400 x 300 mm
- Maximum Workpiece weight – 1200 Kg.
- Maximum electrode weight – 150 Kg.





INSPECTION FACILITY

F : CMM – ZEISS

MODEL – CONTURA G2

	X	Y	Z
Measuring Range (mm)	1000	1600	600
Working Range (Max. workpiece size)	1225	1944	716

5 Axis- Articulating Head for measurement





Future Investment Plans: Short Term

1. CNC Turn- Mill Centre- DMG CTX 310- Arrival - SEP.-2019

Medium Term – 2 Years

1. Large Size VMC- 3 M Length.
2. VMC – Size 600 x 600 mm.- 5 Axes
3. VMC – Size 1000 x 600 mm.- 4 Axes



Present Aerospace customers :

HAL Nashik



TAL Manufacturing Solutions



Godrej Aerospace



TATA Advance Systems Ltd.



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Our Stall at AEROINDIA 2017





Our Stall at AEROINDIA 2017





**Thank you
for your
attention !!!**