



Periyasamy Industriess

Engineering **Precision**. Delivering **Trust**.

“Delivering the deliverables right time at the highest quality, exceeding customer’s expectation.”



Gearbox
Solutions



Hydraulics



Heavy
Manufacturing



Aerospace

www.periyasamyindustriess.com



ABOUT THE COMPANY

ENGINEERING EXCELLENCE SINCE 2017

Periyasamy Industries (PI) is a precision engineering and manufacturing company specializing in high-precision machined components for the **Aerospace, Industrial Gearbox, and Oil & Gas industries.**

As an approved supplier to **ISRO (Indian Space Research Organisation)** and **HAL (Hindustan Aeronautics Limited)**, we are proud to contribute to India's strategic aerospace and ecosystem, including components supporting advanced space missions such as the **Gaganyaan Human Spaceflight Programme.**

Our state-of-the-art manufacturing facility is equipped with advanced **CNC machining centers, precision inspection** equipment, and **robust** quality systems to manufacture complex, close-tolerance components that meet the highest international standards.

With a strong commitment to **quality, innovation, precision, and on-time delivery**, we partner with leading organizations to provide reliable engineering solutions for mission-critical applications across aerospace, industrial, and energy sectors.



VISION

To become a globally recognized leader in precision engineering and advanced manufacturing by delivering innovative, high-quality components for the Aerospace, Industrial Gearbox, and Oil & Gas industries, supporting technological excellence, national development, and sustainable industrial growth.



MISSION



Deliver world-class precision-engineered components that meet the highest quality and reliability standards.



Support India's Aerospace and programs through advanced manufacturing and engineering excellence.



Manufacture high-performance components for Industrial Gearbox and Oil & Gas applications with exceptional precision and durability.



Continuously invest in advanced technologies, automation, and skilled talent to drive innovation and operational excellence.



Build long-term partnerships through quality, integrity, customer satisfaction, and timely delivery.



Uphold the highest standards of safety, sustainability, and continuous improvement in every aspect of our operations.



FACILITY & INFRASTRUCTURE

PI operates a **35,000 sq. ft** heavy-machining facility engineered for large, high-precision workpieces, supported by an uninterrupted 800 kVA HD industrial power line and in-house material handling capacity including 10T and 20T overhead cranes and a 12T mobile crane.



Machine Categories

5-axis milling, turning, horizontal boring, vertical milling, universal milling & radial drilling



Machining Envelope

Up to 20 Ton (max weight), 3.5 m diameter, 3.0 m height



Precision Instruments

Portable CMM, high-precision measuring instruments & gauges



Design & CAM

SolidWorks for 3D CAD modelling and NX – Siemens, solidCAM for advanced 5-axis CAM programming



Facility Area
35,000
Sq. ft



HD
800 kVA
Industrial Power



Overhead Crane
10-20 Ton



Mobile Crane
12 Ton



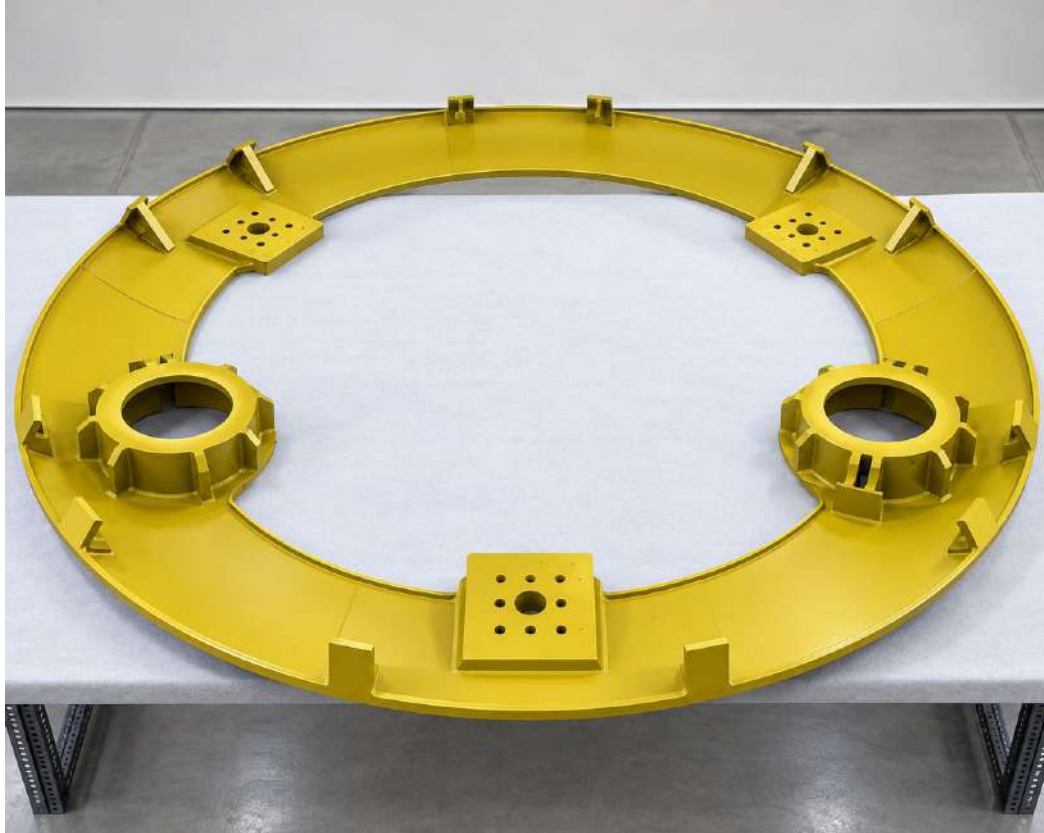
OUR PRODUCTS

Gaganyaan Human Spaceflight Programme | Gas Turbine Engine Parts | Composite Moulds |
Sslv Project | Various Type Of Fixtures | Skyroot Launch Vehicle Fixture | Test Bench Fixtures |
Aero Engine Components | Semi Cryo Engine Parts



GAGANYAAN HUMAN SPACEFLIGHT PROGRAMME

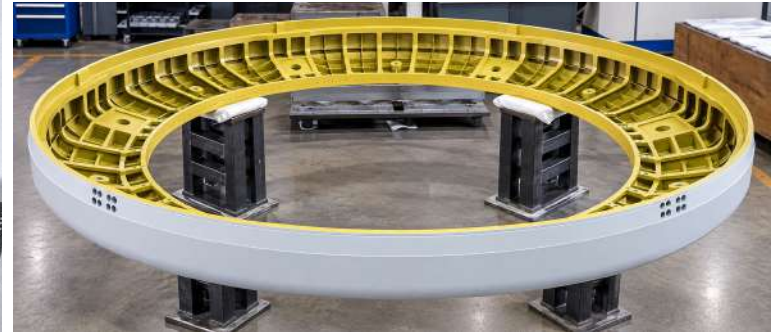
Thrust Transfer Ring



Central Doame



Shoulder Ring



GAGANYAAN HUMAN **SPACEFLIGHT PROGRAMME**

Grid Fin Assembly



OMA Forend Ring



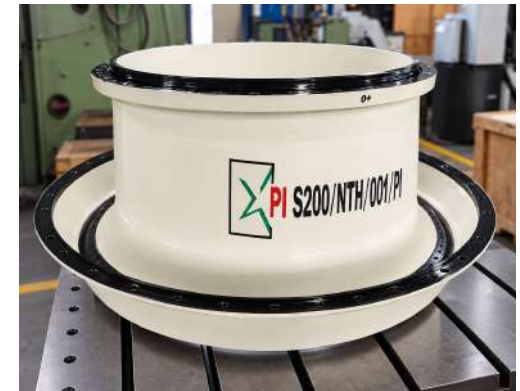
S200 Nozzle Bucket Flange



HTS Bulkhead



S200 Nozzle Throat Housing



GAS TURBINE ENGINE PARTS

Compressure front frame



5R Bearing Housing



Compressure stator casing



GAS TURBINE ENGINE PARTS

Frame Compressor Rear



Turbine Mid Frame Sump



Sump Welded Fabrication



Frame Compressor Rear



Turbine Mid Frame Sump



Frame Inlet



COMPOSITE **MOULDS**

PS3A Mould



1-2L Layup Tool



PS3A Mould



Mould For Tunnel
Segment Y+ Y-



Mould for Bottom Plate



SSLV PROJECT

SFR1 Hardware Assembly



SSR1 Assembly



SFR2 Hardware Assembly



SS2 Integrated
Divergent Hardware



SS1 Nozzle Divergent



VARIOUS TYPE OF FIXTURES

1-2M Main Assembly Fixture



CBS Sub Assembly Fixture



CBS Main Assembly Fixture



SKYROOT LAUNCH VEHICLE FIXTURE

Flat Laminate Tool



S1 Mandrel Storage Fixture



1-2L Assembly Fixture



TEST BENCH FIXTURES

Swing Test Bench Fixture



CE20 Engine Mounting Fixture



AERO ENGINE COMPONENTS

OPB Thread Interface



Injector Head



Thrust Chamber



OPB Inlet Flange



FPB Inlet Flange



FPB Connector Interface



SEMI CRYO ENGINE PARTS

Thrust Frame Assembly



Semi cryo mockup engine



MANUFACTURING CAPABILITY

Our fleet of **20+ CNC** machine tools spans five capability groups, engineered for large, complex components with a heaviest single-part capacity of 16 Ton (5-Axis / Universal centres) and best achievable positional accuracy of **10 microns**.



CNC VERTICAL TURN MILL

YOUJI 2500-ATC+C-II-APC



TECHNICAL ATTRIBUTE

Controller	Fanuc18i
Chuck Ø	2500mm
Swing Ø	3200mm
X axis	3100mm
Z Axis	2000mm
C Axis	360° (0.001°)
Max Workpiece height	2000mm
Load Capacity	15 Ton
Tool Type	BT 50
Magazine Capacity	16 Stations
Pallet Type	z Twin

CNC VERTICAL TURN MILL

Chevalier FVL-1600VTC+CY



TECHNICAL ATTRIBUTE

Controller	Fanuc 0iTD
X-Axis	X+2300mm & X-1600mm
Z-Axis	900mm
Y-Axis	200mm
C-Axis	360° (0.001°)
Table Dia	1600mm
Max swing dia	2300mm
Tool Shank	BT50

CNC VERTICAL TURNING CENTRE

Honor V-10D



TECHNICAL ATTRIBUTE

Controller	Fanuc 18i-TB
Accuracy	15 micron
Chuck Ø	1000mm
Swing Ø max	1200mm
Turning Height	750mm
Load Capacity	3.5Ton
Magazine Capacity	12 Stations



4-AXIS MACHINING CENTRE

DMG DMU 80P HI-DYN



TECHNICAL ATTRIBUTE

Controller	Heidenhein TNC 426
Accuracy	10 micron
X-Axis	800mm
Y-Axis	700mm
Z-Axis	600mm
C-Axis	360°(0.001°)
Load Capacity	0.7 Ton
Tool Type	SK 40
Magazine Capacity	60 Stations
Pallet size	800mmx600mm



5-AXIS **MACHINING CENTRE**

SNK RB-200F



TECHNICAL ATTRIBUTE

Controller	Fanuc 30i
Table	4000mm x 2000mm
X-Axis	4250mm
Y-Axis	2900mm
Z-Axis	600mm
W-Axis	850mm
B-axis	+90° to -90°(0.001°)
C-Axis	360°(0.001°)
Load capacity	16 ton
Magazine capacity	100 stations

5-AXIS UNIVERSAL MACHINING CENTRES

DMG Mori Seiki 360 Linear



TECHNICAL ATTRIBUTE

Controller	Heidenhein TNC 530
Accuracy	10 micron
Table	4200mm x 1200mm
X-Axis	3600mm
Y-Axis	1100mm
Z-Axis	900mm
B-Axis	+100° -100°(0.001°)
A-Axis	360°(0.001°)
C-Axis	360°(0.001°)
Axis	5 (simultaneously)
Tool Type	HSK 100
Load Capacity	4.2 Ton
Magazine Capacity	120 Stations



5-AXIS MILL TURN CENTRE

MAZAK INTE-e500H11



TECHNICAL ATTRIBUTE

Controller	Mazatrol matrix
Chuck Ø	630mm
X-Axis	1000mm
Y- Axis	100mm
Z-Axis	3500mm
B-Axis	+180° -180°(0.001°)
C-Axis	360°(0.001°)



HORIZONTAL TURNMILL CENTRE

DOOSAN PUMA 600LM



TECHNICAL ATTRIBUTE

Controller	Fanuc 32i
Accuracy	15 micron
Chuck Ø	600mm
Swing Ø	850mm
X-Axis	900mm
Z-Axis	3500mm
C-Axis	360°(0.001°)
Tool Type	H 80
Magazine Capacity	12 Stations



HORIZONTAL MACHINING CENTRE

DOOSAN HM1000



TECHNICAL ATTRIBUTE

Controller	Fanuc 31i
Accuracy	15 micron
Pallet Size	1000mm x 1000mm
X-Axis	2100mm
Y-Axis	1250mm
Z-Axis	1250mm
B-Axis	360°(0.001°)
Tool Type	BT50
Magazine Capacity	120 tools
Load Capacity	3 Ton



HORIZONTAL MACHINING CENTRE

GIDDINGS & LEWIS



TECHNICAL ATTRIBUTE

Controller	Siemens 840 D
W-Axis	2000mm
X-Axis	2500mm
Y-Axis	2500mm
Z-Axis	1000mm
Pallet Size	1250mm x 1250mm
Tool Type	SK 50
Load Capacity	10 Ton
Magazine Capacity	90 Stations
Pallet Type	Twin



HORIZONTAL MACHINING CENTRE

MAKINO A88E



TECHNICAL ATTRIBUTE

Controller	Fanuc 31i
Accuracy	15 micron
X-Axis	900mm
Y-Axis	800mm
Z-Axis	900mm
B-Axis	360°(0.001°)
Axis	4
Tool Type	HSK100
Load Capacity	1.2 Ton
Magazine Capacity	120 tools
Pallet Size	630mm x 630mm



HORIZONTAL BORE MILL

HNK HB-130 (2 MACHINES)



TECHNICAL ATTRIBUTE

Controller	Fanuc 31i A
W-Axis	700mm
X-Axis	3000mm
Y-Axis	2300mm
Z-Axis	1600mm
Table	2000mm X 2200mm
Load Capacity	15 Ton



HORIZONTAL BORE MILL

UNION KCX 150 CNC



TECHNICAL ATTRIBUTE

Controller	Siemens 840D
Accuracy	30 micron
W-Axis	750mm
X-Axis	3200mm
Y-Axis	3000mm
Z-Axis	1500mm
Load Capacity	12.5 Ton
Tool Type	SK 50
Magazine Capacity	80 Stations
Pallet	Twin
Pallet 1 Size	2000mm x 2000mm
Pallet 2 Size	1250mm x 1600mm



PORTABLE CMM

ROAMER ARM 7530

Product of
 **HEXAGON**
MANUFACTURING INTELLIGENCE



TECHNICAL ATTRIBUTE

Controller	Siemens 840D
Axis	6 axis
Volumetric accuracy (C)	$\pm 0.044\text{mm}$
Point repeatability	0.030mm
Measuring Height	3000mm
Software	PC.DMIS



OUR EXPERTISE

Precision Engineering **Solutions Across Diverse Industries**



High-Precision CNC **Turning & Milling**

Delivering exceptional dimensional accuracy with advanced CNC machining technology.



Multi-Axis Machining

Manufacturing complex geometries with superior precision and efficiency.



Complex Component **Manufacturing**

Manufacturing complex geometries with superior precision and efficiency.



Aerospace **Components**

Precision-machined parts meeting stringent quality and performance standards.



Industrial Gearbox **Components**

High-quality gears, shafts, housings, and transmission components built for durability.



Oil & Gas Equipment **Components**

Reliable precision parts engineered to perform in harsh operating environments.



Precision Fixtures & **Tooling**

Custom fixtures, jigs, and tooling solutions to enhance manufacturing accuracy.



Prototype Development **& Production**

Rapid prototyping through to full-scale production with consistent quality.



Assembly Support

Comprehensive sub-assembly and final assembly services for complete engineering solutions.



QUALITY & CERTIFICATIONS

PI is certified to **BS EN ISO 9001:2015** and **EN 9100:2018** (technically equivalent to **AS9100D**) by Bureau Veritas Certification, for the manufacture of precision components for aerospace and other applications.

In-house dimensional verification is backed by internationally recognised instrumentation brands including:



(Romer **Arm RA7530**, **±0.044 mm** volumetric accuracy).

Mitutoyo



QUALITY POLICY

“ Our commitment is to manufacture and deliver precision-engineered components that consistently meet customer expectations and international quality standards.

We achieve this through advanced manufacturing technologies,



Consistent Quality



Continual Improvement



Skilled Professional



Safety & Customer Satisfaction



INDUSTRIES WE SERVE

Aerospace

Manufacturing precision components for launch vehicles, satellite systems, aircraft, and mission-critical aerospace applications.

Industrial Gearbox

Manufacturing precision gears, shafts, housings, bearing components, and critical gearbox parts for heavy industrial applications.

Oil & Gas

Supplying high-performance precision components designed to withstand demanding operating conditions in drilling, exploration, processing, and energy production



TRUSTED BY

We serve India's leading names in space, and precision industrial engineering, including:



ISRO
Indian Space Research Organisation



SKYROOT
Private Space Launch Vehicles

FLENDER

FLENDER
Industrial Gearbox Systems

WHY CHOOSE US



Precision Manufacturing with Tight Tolerances



Customer-Centric Approach



Advanced CNC Machining Technology



Continuous Innovation



Experienced Engineering Team



Reliable Manufacturing Partner



Strict Quality Assurance & Traceability



Competitive Pricing

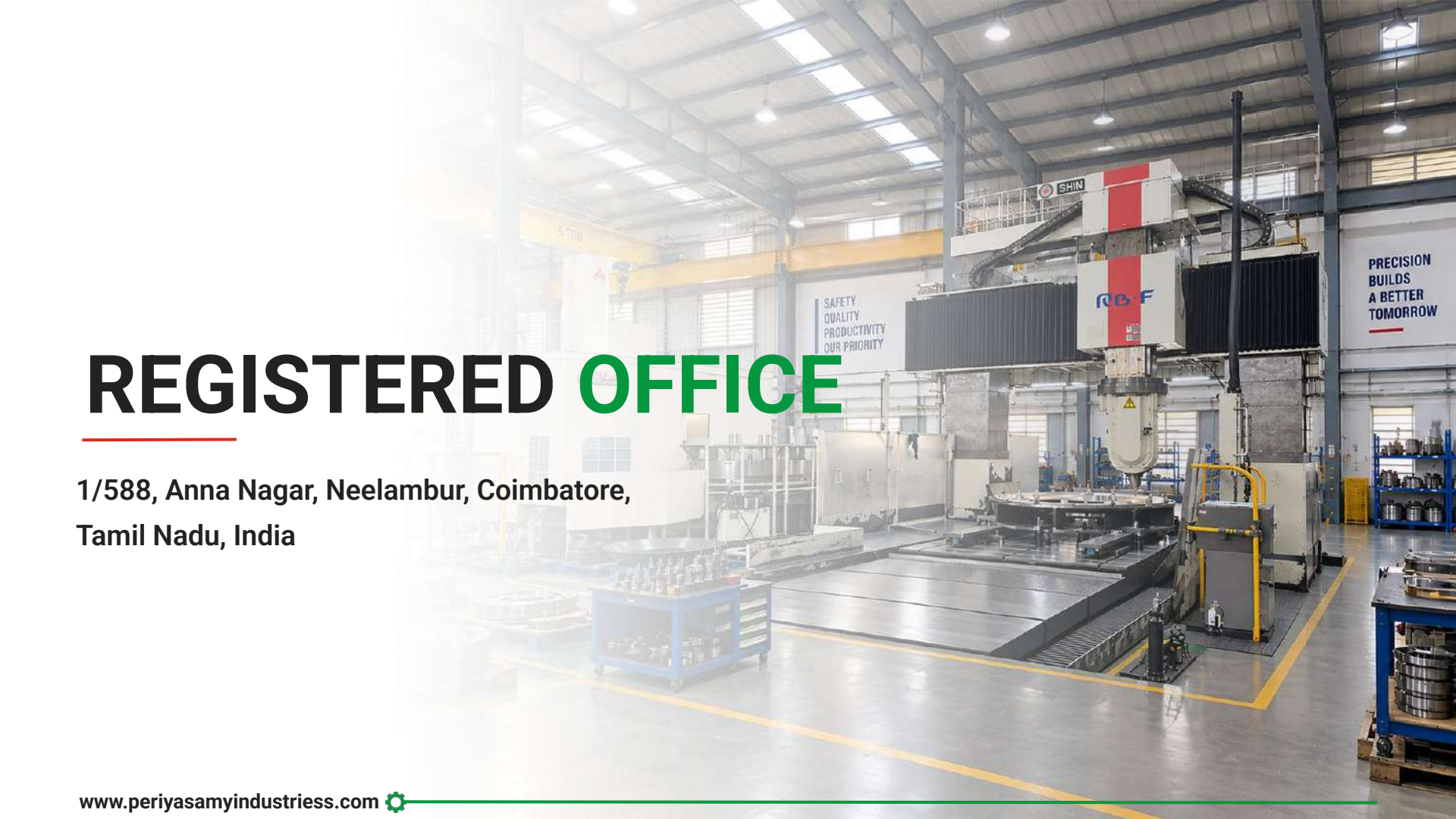


On-Time Delivery



Commitment to Excellence





REGISTERED OFFICE

1/588, Anna Nagar, Neelambur, Coimbatore,
Tamil Nadu, India

