



# REDEFINING DIGITAL MANUFACTURING

Hosted by Octave Technology Solutions

Pivotal event designed to drive the digital transformation of Pakistan's industrial base.

# About Octave Technology Solutions (OTS)

OTS is a **premier Engineering and Industrial Digital Innovation platform**, specializing in end-to-end product development and turnkey Engineering/IT solutions across the entire product lifecycle. As official distributors for leading Original Equipment Manufacturers (OEMs) such as Shining 3D, TMP3D, PMT, Eplus3D, INTAMSYS, and 3DPTEK, OTS provides integrated solutions combining IT, engineering, additive manufacturing, and metrology expertise.



## Design & Development

The end-to-end process of transforming user needs into market-ready products through research, prototyping, testing, and production.



## Low-Volume Manufacturing

EASA certified additive manufacturing for specialized production runs



## CNC, Investment Casting & MIM

Specialized services in CNC, metal injection molding and precise casting



## Quality Inspection

Ensuring precision and adherence to the highest industry standards

Redefining Digital Manufacturing: Concept-to-Product

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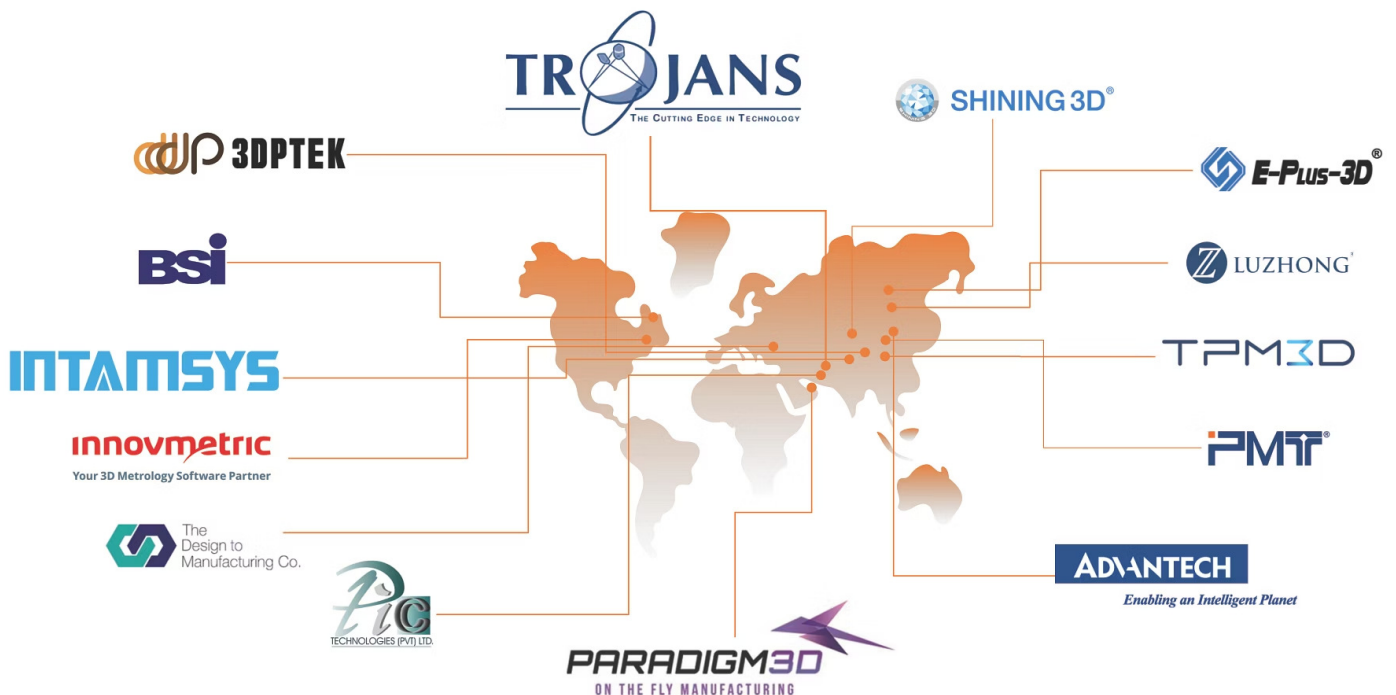
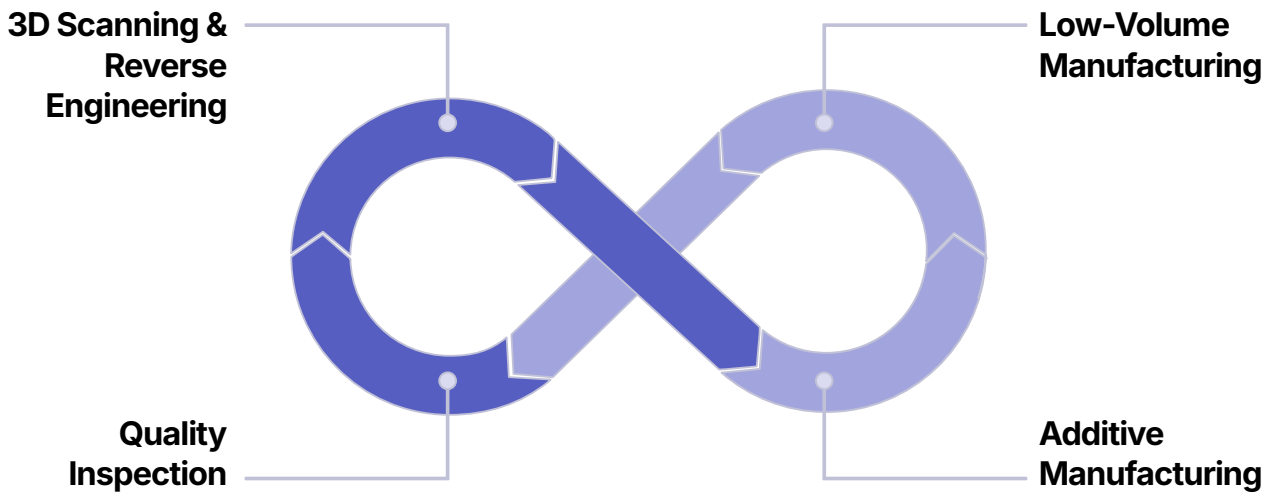


Plot No. 48, Service Road North FECHS  
Commercial Area, Sector E-11/2,  
Islamabad - 44000, Pakistan

# Key Discussion Areas & Featured Technologies

The summit will delve into critical themes vital for advancing digital manufacturing, providing attendees with deep insights and practical knowledge.

A diverse array of cutting-edge technologies pertinent to these areas will be comprehensively showcased through live demonstrations, interactive sessions, and expert presentations by our featured partners. Attendees will have the opportunity to see these innovations in action, engage directly with specialists, and discover how these solutions can be integrated to optimize their own digital manufacturing processes. The summit aims to foster collaboration and knowledge exchange, highlighting the transformative impact of these technologies on the future of industrial innovation.



# REDEFINING DIGITAL MANUFACTURING

From Concept to Product: A Leadership Summit on Pakistan's Industrial Future

Tuesday, September 9, 2025 | 9:00 AM – 5:00 PM PKT | Serena Hotel, Islamabad

Hosted by Octave Technology Solutions (OTS)

## Why This Event Matters for Pakistan

Pakistan's industrial base is entering a decisive upgrade cycle. As global supply chains re-wire and quality expectations rise, it's time to embrace the digital enigma. Octave technology solutions is proud to convene industry leaders, academic pioneers, and national policymakers for this landmark summit.



### Boost Resilience & Competitiveness

Learn how digital tools cut lead times, enable on-shore production, and raise quality



### Build a Future-Ready Workforce

Hands-on demos and collaboration with institutions like PIAM 3D, NUTECH, and NUST



### Large Scale Manufacturing

Attract LSMs & Empower high-end SMEs to drive Pakistan's industrial revolution and economic growth

## What We Will Discuss

### 01 Digitization as the First Mile

3D scanning and global trends

### 02 Zero-Defect Production

Modern metrology and quality verification

### 03 Additive Manufacturing at Production Scale

Metals, high-temperature polymers and ceramics

### 04 National Ecosystem Alignment

Policy and industry coordination

## Featured Technology Partners



3D Scanning at Production Speed



Measure What Matters: Metrology and inspection



From Powder to Part: Scaling Metal AM



High-Temperature Polymer AM



Production-Grade SLS with Repeatable Quality



Binder Jetting for Metals & Ceramics

## Featured Partners



Local Engineering solution and services provider

ISO 9001



Additive manufacturing facility for aviation and oil & gas

EASA Part21G



Manufacturing facility for investment Casting, metal injection molding and CNC machining

ISO 9001

# SHINING 3D – High-Accuracy 3D Scanning

Shining 3D leads in 3D digitization with high-accuracy laser, blue light, and handheld scanning solutions, foundational for modern digital manufacturing. Their technologies enhance precision and efficiency across sectors like automotive, aerospace, digital dentistry, and art & design, supported by their ISO/IEC 17025:2017 accredited Accuracy Lab for quality assurance.



## High-Accuracy Solutions

Provides **high-accuracy 3D scanning solutions** for applications such as metrology, engineering, and digital dentistry



## Scanner Variety

Offers various scanner types, including **laser, blue light, and handheld scanners** renowned for their **precision, versatility, and efficiency**



## Quality Assurance

Their Accuracy Lab is **ISO/IEC 17025:2017 accredited**, ensuring reliable quality assurance in industrial contexts

# PMT – Metrology and Inspection

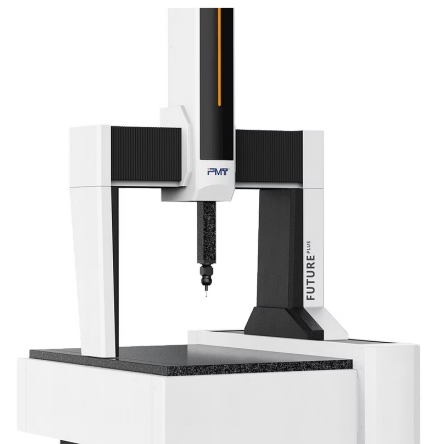
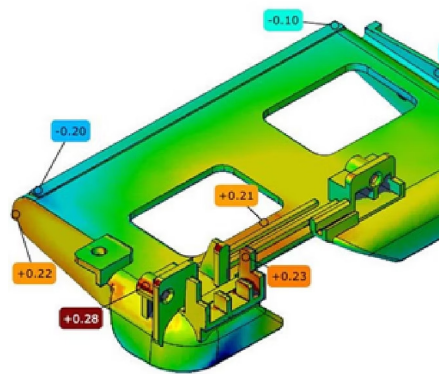


## High-Precision Measurement Technology

Specializes in **high-precision measurement technology**, featuring **Portable Measuring Arms** (GAMMA, ALPHA series) and **Coordinate Measuring Machines (CMM)**.

## Industrial 3D Measurement Software

Offers industrial 3D measurement software to achieve **unparalleled efficiency and accuracy** in 3D metrology processes, crucial for **quality control, manufacturing, and product design**.



## Micron-level precision

Reliable dimensional inspection for complex parts with full GD&T, FAI, and PPAP-ready reports

## CAD-to-part verification

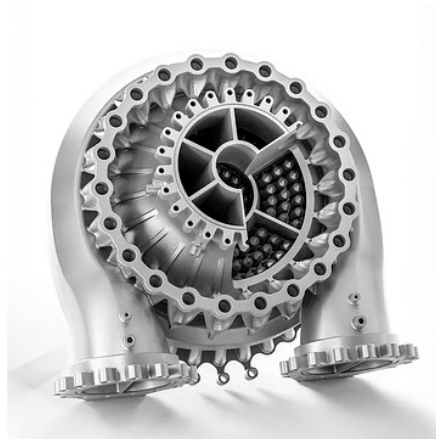
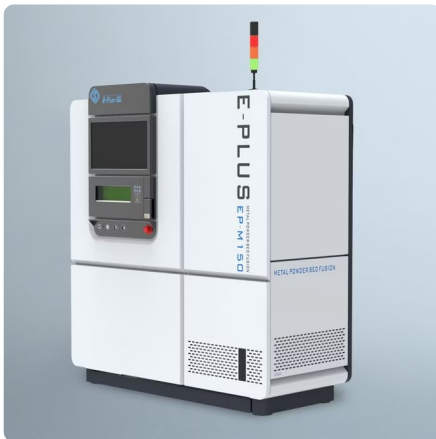
3D color-map comparisons and clear pass/fail results for fast, confident decisions

## Flexible & fast service

On-site or in-lab measurements by experienced metrology engineers with quick turnaround

# Eplus3D – Metal Additive Manufacturing

Eplus3D is a leading innovator in the field of metal additive manufacturing, renowned for its global leadership in high-performance metal 3D printing technologies. This expertise is built upon advanced Metal Powder Bed Fusion (MPBF™) and Polymer Powder Bed Fusion (PPBF™) technologies, offering comprehensive solutions designed to streamline production and accelerate innovation.



## Global Leadership

A global leader in additive manufacturing solutions, specializing in high-performance metal 3D printing technologies

## Advanced Technologies

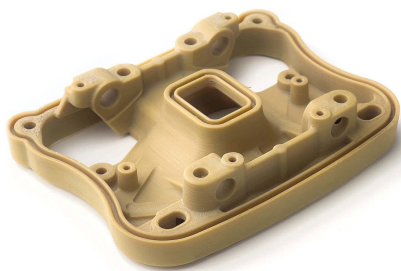
Leverages Metal Powder Bed Fusion (MPBF™) and Polymer Powder Bed Fusion (PPBF™) technologies to deliver precision and reliability

## Comprehensive Solutions

Develops SLM, SLS, and SLA 3D printers, comprehensive software solutions, and additive manufacturing materials (metal powders, polymers), enabling streamlined production and accelerated innovation

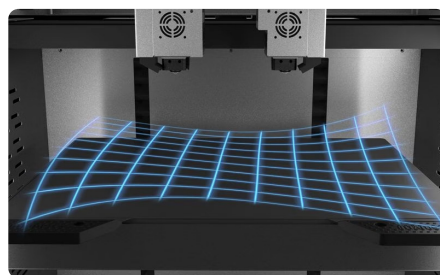
# INTAMSYS – FFF Polymer Additive Manufacturing

INTAMSYS specializes in **high-temperature polymer** additive manufacturing, providing advanced solutions for demanding industrial applications.



## Advanced Engineering Materials

Offers advanced **Fused Filament Fabrication 3D printers** designed for **high-performance and engineering-grade materials**, including PEEK, PEKK, and carbon-fiber reinforced polymers



## Industrial-Scale Production

Features industrial series printers with **large build volumes and heated chambers (up to 300°C)**, ensuring consistent performance for continuous production



## Precision for Critical Industries

Delivers exceptional **precision and reliability**, making it ideal for the stringent requirements of the aerospace and automotive industries

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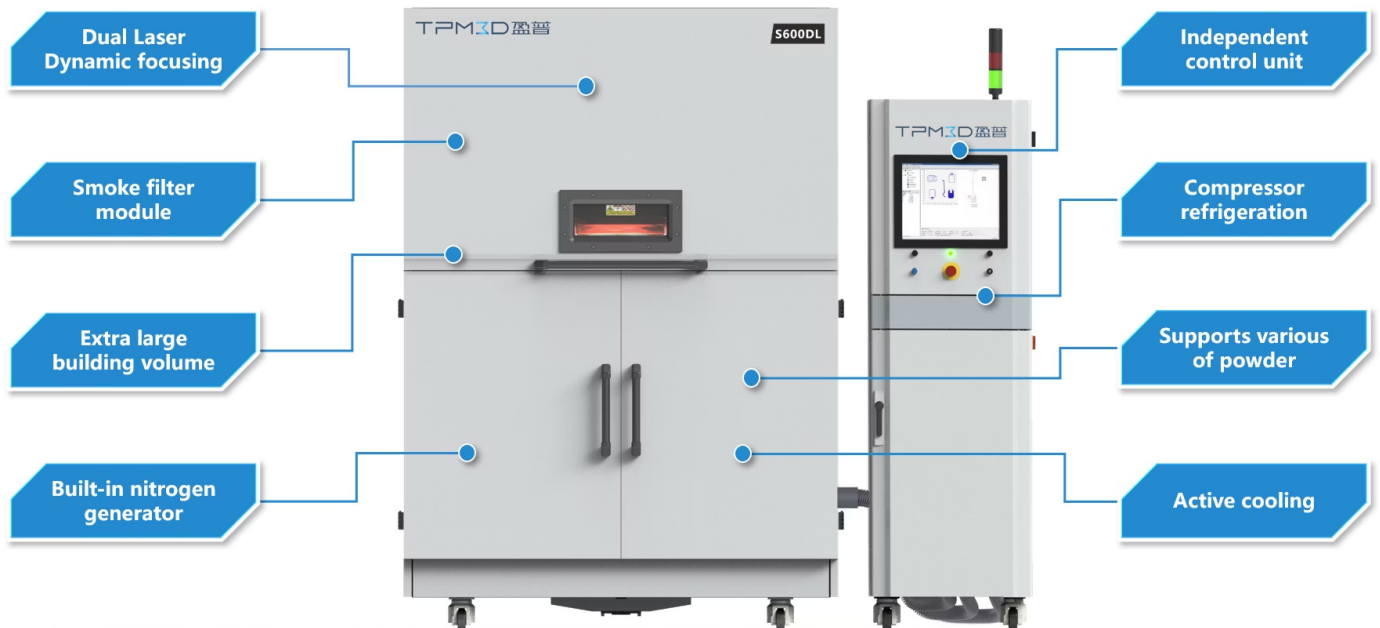
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# TPM3D – Production-Grade SLS

From pioneering research to industry-leading solutions, TPM3D has rapidly emerged as a renowned force in additive manufacturing. We integrate unparalleled expertise across equipment and material research and development, production, and sales, offering a truly comprehensive approach. Beyond cutting-edge industrial-grade laser sintering systems—including our acclaimed S, P, and E series—TPM3D empowers clients with customized product design and professional 3D printing services, solidifying our position at the forefront of innovation.



## SLS 3D Printing Expertise

TPM3D specializes in advanced **Selective Laser Sintering (SLS) 3D printers**, providing cutting-edge solutions for industrial applications



## Patented Precision & Accuracy

With over **70 national patents**, their technology enables **high dimensional accuracy** vital for prototyping and small-batch production



## Versatile Systems & Recyclable Materials

Their S and P series SLS printing systems offer diverse build volumes (from 260x260mm to 600x600mm) and utilize **highly recyclable polymer powders**

# 3DPTEK – Binder Jetting for Metals & Ceramics

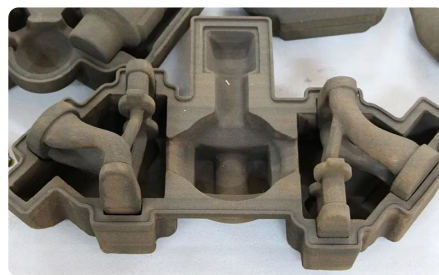
An experienced leader in additive manufacturing, 3DPTEK offers a range of 3D printers, including **Binder Jetting**, **Selective Laser Melting (SLM)**, and **Selective Laser Sintering (SLS)** technologies.

Their advanced **binder jetting technology** is particularly effective for producing **complex metal and ceramic shapes and internal structures**. This innovation significantly **reduces defects**, accelerates **time-to-market**, and speeds up **product design iterations**.



## 70% Faster Production

Compared to traditional manufacturing methods, binder jetting dramatically speeds up the production process



## 40% Cost Reduction

Achieve significant cost savings, especially for complex geometries and internal structures that are challenging with conventional methods



## 90% Design Freedom

Unleash unparalleled design possibilities, enabling the creation of previously impossible structures and internal features

# Engineering Excellence Through Partnerships

At OTS, engineering isn't just what we do; it's who we are. We go beyond simply providing equipment; our core strength lies in actively implementing cutting-edge additive manufacturing and traditional technologies. This commitment to practical application is amplified through our strategic collaborations with local engineering partners, transforming innovative ideas into tangible, high-performance solutions for our clients.



## Practical Implementation

We actively implement cutting-edge additive manufacturing and traditional technologies, moving beyond mere consultation



## Innovation at Core

Committed to pushing boundaries and integrating the latest advancements in manufacturing solutions



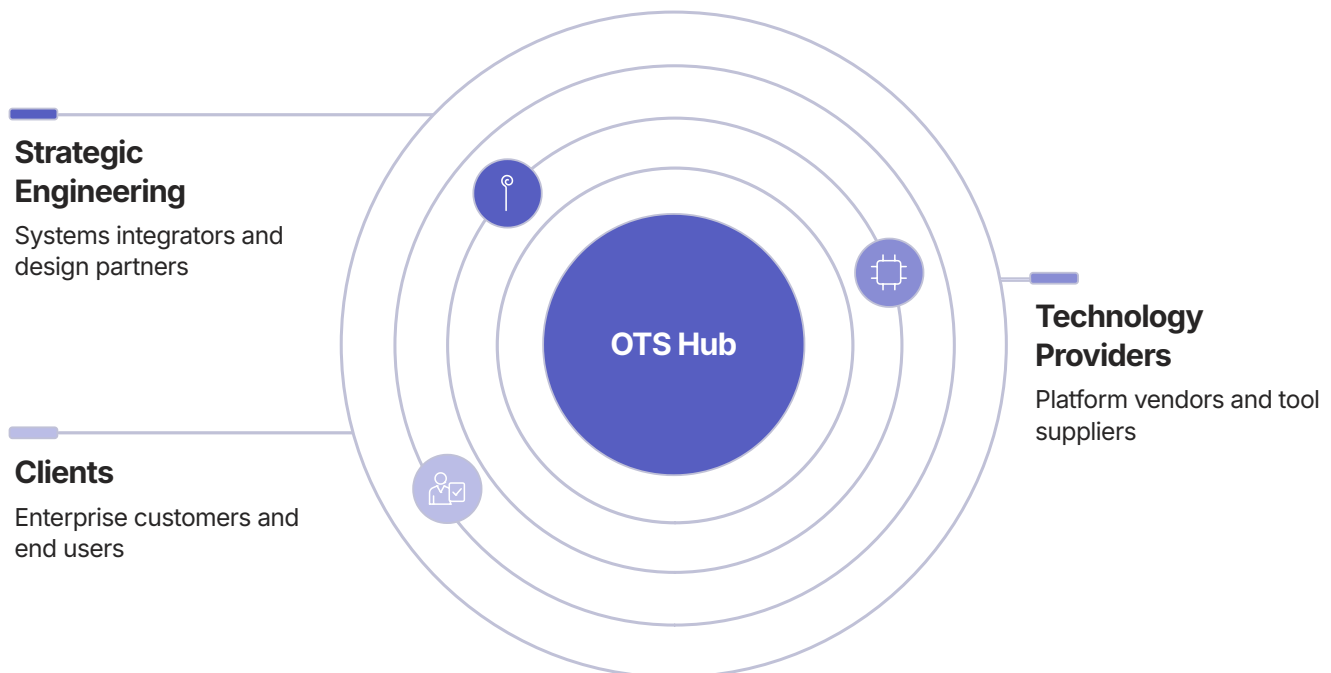
## Strategic Collaboration

Amplifying capabilities through strong partnerships with local engineering experts



## Tangible Solutions

Transforming innovative ideas into high-performance, real-world outcomes for our clients



# Trojans

Founded in 1991, TROJANS is a leading Pakistan-based provider of engineering design and services. they deliver cost-effective, requirements-compliant solutions across the full product-development lifecycle, leveraging deep expertise and strategic partnerships.



## Full Product Lifecycle Solutions

Comprehensive services spanning CAD/CAM/CAE, rapid prototyping, and Product Lifecycle Management (PLM)



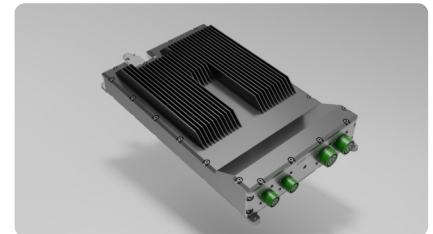
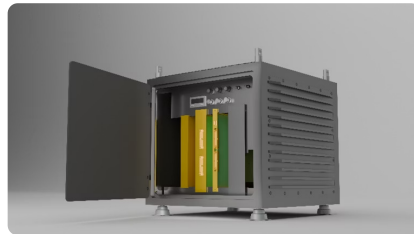
## Cost-Effective & Compliant

Delivering high-quality, requirements-compliant solutions that optimize cost without compromising performance



## Agile & Customer-Focused

Committed to meeting and exceeding client goals with agile methodologies and dedicated helpdesk support



# Paradigm 3D

Paradigm 3D is an **EASA Part 21G certified additive manufacturing facility** specializing in solutions for the **aviation and oil & gas** industries. They deliver high-quality production parts with reliable lead times, expert guidance, and a wide range of materials and finishes.



## EASA Part 21G Certified

As an **EASA Part 21G certified** facility, Paradigm 3D ensures adherence to the highest European aviation safety and quality standards for additive manufacturing

## Aviation Solutions

Specializing in solutions for the **aviation industry**, providing high-performance additive manufactured components that meet stringent aerospace requirements

## Oil & Gas Applications

Delivering specialized additive manufacturing solutions for the demanding environments of the **oil & gas industries**, ensuring durability and performance



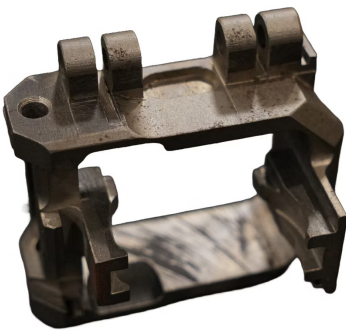
# PIC Technologies

Established in 1993 at Hattar Industrial Estate, Precision Investment Casting (PIC) serves diverse sectors with investment casting, CNC machining, and metal injection molding (MIM). PIC casts steel, aluminum, and brass/bronze alloys and can accommodate other materials per customer needs. Offering concept-to-completion services and small-batch expertise, we deliver international-grade quality with world-class tools—backed by ISO 9001 certification as Pakistan's only certified investment casting facility.



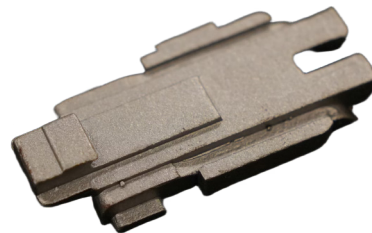
## Investment Casting

Specializing in precision investment casting for complex geometries and intricate parts with excellent surface finish



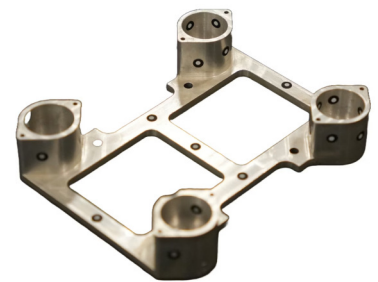
## Metal Injection Molding

Advanced metal injection molding capabilities for producing small, complex, and high-volume metal components efficiently



## CNC Machining Services

Comprehensive CNC machining services offering high precision, repeatability, and versatility for diverse industrial needs



# Summit Benefits & Outcomes

## For Industry Leaders



### Cutting-Edge Technology Access

Gain access to the latest digital manufacturing tools and solutions



### Boost Resilience & Competitiveness

Discover strategies to strengthen your operations and market position



### Zero-Defect Production

Implement modern metrology for flawless production quality

## For Academic & Policy Makers



### Future-Ready Workforce

Acquire insights to develop a skilled workforce for tomorrow's industry



### Scaled Manufacturing Frameworks

Establish effective frameworks to grow and harmonize industrial initiatives



### Digital Transformation Pathways

Identify clear routes for modernizing Pakistan's industrial landscape

- Join Octave Technology Solutions (OTS) and their partners for this landmark summit that will reshape the future of manufacturing in Pakistan through advanced digital solutions across the entire product lifecycle.



**OTS**  
Octave Technology Solutions