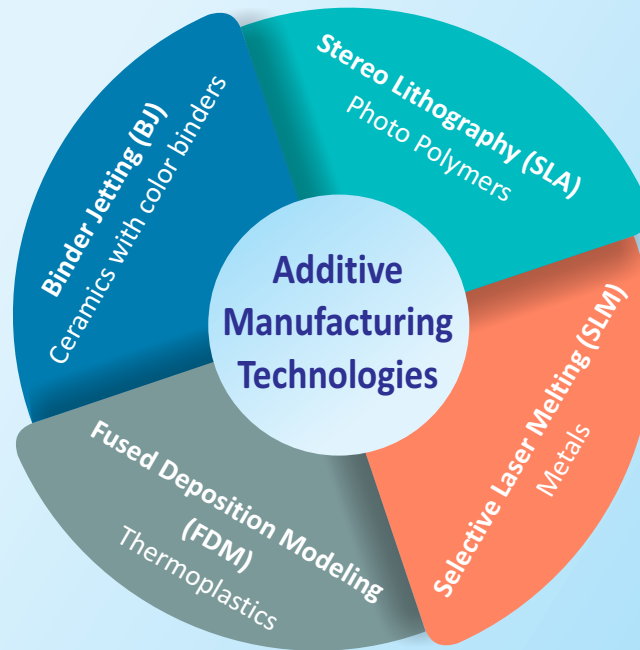


## Our Materials

	PROPERTIES	APPLICATIONS
PLA	Easy to print, reliable, good surface quality	Concept models and prototypes that require aesthetic detail, visualization aids, educational projects
ABS	Strong, rigid, durable	Functional prototypes and end-use parts that need to be rigid
CPE	Strong, slightly flexible, chemically resistant	Functional prototypes and end-use parts that need to be chemically resistant and slightly flexible
PVA	Water soluble support material	Complex models that require supports for large overhangs, deep internal cavities and intricate geometries
PC	Strong, tough, retains shape under high temps	Molds, tools, functional prototypes and parts for short-run manufacturing that need to retain shape near high temperatures or flames
Nylon	Durable, slightly lexible, abrasion resistant	Tools, functional prototypes and end-use parts that require abrasion resistance and flexibility such as gears or fasteners
TPU 95A	Flexible, versatile, high impact strength	Wide array of manufacturing projects that demand the qualities of both rubber and plastic
PP	Durable, fatigue resistant, translucent with low friction, low density, excellent layer bonding, and smooth surfaces	Living hinges, connectors, lab equipment, packing, protective covers, functional prototypes, light shades
Onyx Carbon powder filled Nylon	Much more stiffer and stronger than ABS and simple nylon, good surface finish, chemical resistance and heat tolerance	Jigs, fixtures and other tooling, custom end-use production parts, functional prototyping, structural parts
Photo-polymer	Rigid and stiff plastic, high-heat resistant up to 130°C, Transparent, strong and maintain shape	Hot or coolant fluid flow visualization, HVAC components, under the hood testing, internal structures visualization, Electronic control prototypes, wind tunnel models

## How do we work?

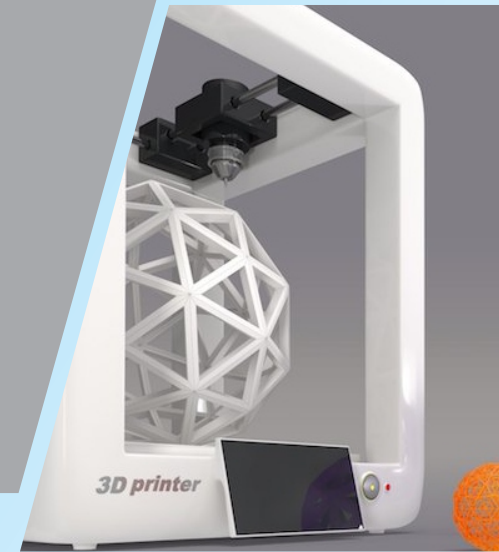
A professional team of engineers and scientists transforms concepts into realities. This is done through a product multi-disciplinary and interdisciplinary approach thus transforming user requirements into desired products and services.



### INQUIRIES:

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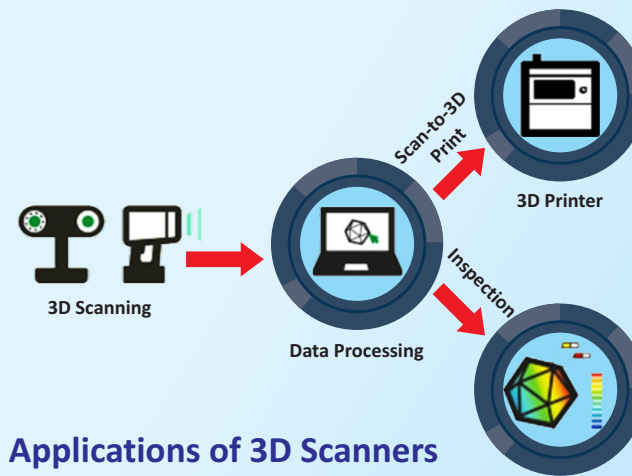
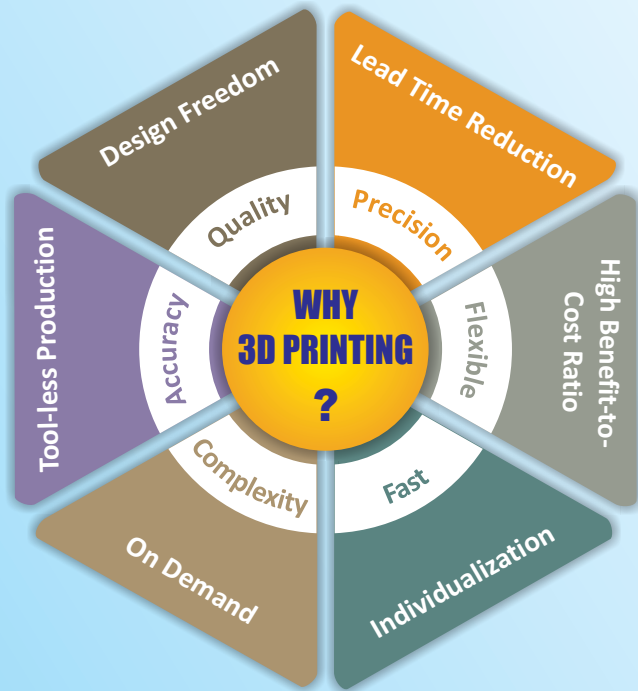
# PIAM 3D

*Bringing ideas to reality!*

Pakistan Institute of Additive Manufacturing

## Pakistan Institute of Additive Manufacturing

This institute is the only complete solution provider in Pakistan in 3D Printing/Additive Manufacturing and 3D scanning enabling industry to reach the forefront of manufacturing technologies from prototyping to low volume production. We are introducing latest technologies in manufacturing through 3D printing in plastics, polymers, fiber composites and full color ceramics.

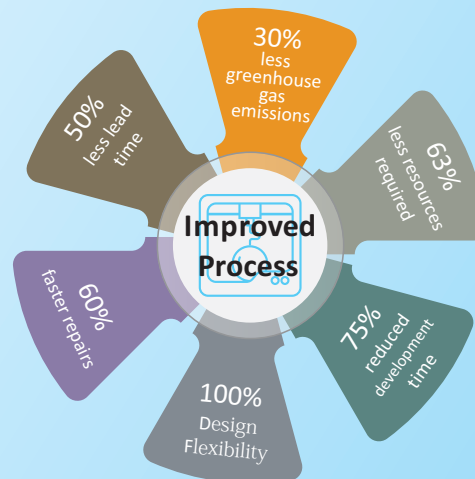


### Applications of 3D Scanners

Conceptualization, Metrology, Designing, Prototyping, Replication, Production, Quality Control, Tool Design, Restoration, Assembling etc.

### Services we offer

- Rapid Prototyping
- Functional Prototyping
- Customized Low Volume Production
- Designing and Scanning
- Reversing Engineering
- Metrology
- Digital Benchmarking
- Historic Preservation
- Virtual Warehousing
- Training Courses
- Consultancy



Process of 3D Printing

