

# INTRODUCING METAL 3D PRINTING SERVICES



## Introducing Metal 3D printing services for the first time in Pakistan- Desktop Metal Studio System™ 2

- Our mission is to make metal 3D printing accessible for engineers and manufacturers all over the country.
- A complete product life cycle solution from prototyping to mass production.
- Designed around the chemistry and powder supply chain of metal injection moulding (MIM).

### Benefits of additive manufacturing

- Rapid prototyping
- Part consolidation
- Complex geometries
- Design customization
- On-demand manufacturing
- Supply chain re-engineering
- Rethinking product lines and designs
- Small, nimble manufacturers can now compete

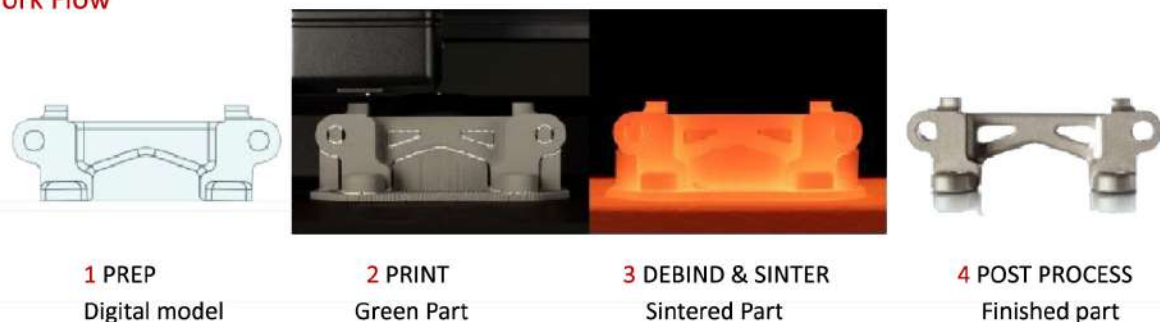


### Near-net-shape - Similar to casting

- Critical dimensions achieved via post-processing
- Resolution, accuracy and surface finish similar to casting
- Denser, better tensile strength, more regular microstructure
- Dimensional capabilities  $\pm 0.8\%$



### Work Flow





# Desktop Metal Studio System™ 2

## APPLICATIONS

- Medical
- Dental
- Orthopedic
- Implants
- Surgical Tools
- Manufacturing
- Automotive
- Motorsports
- Aerospace
- Industrial
- After Market
- Hinges
- Fasteners
- Brackets
- Fittings
- Impellers
- Tools
- Punches
- Dies
- Fixtures
- Jigs
- Molds
- Cooling channels
- Assemblies
- Sectioned Parts
- Complex
- Geometry
- Non-Machinable
- Art
- Lattices
- Architecture
- Jewellery



## MATERIALS

- 17-4PH Stainless Steel
- 316L Stainless Steel
- Inconel 625 Super Alloy
- H13 Steel Tools
- Ti64 Titanium
- 4140 Steel Tools
- D2 Tool Steel
- Cu Copper
- Kovar F-15 low expansion

## PARTS GALLERY

### Automotive applications



### Consumer Goods



### Education



### Machine Design



### Heavy Industry



### Tools Manufacturing

