

Resin 3D Printing

- FDM : Fused Deposition Modeling
- SLS : Selective Laser Sintering
- HP MJF (Multi Jet Fusion)
- SLA、 DLP
- LFAM : Large Format Additive Manufacturing
- DLP : Digital Light Processing
- Material Jetting

Metal 3D Printing

- DED : Directed Energy Deposition
- PBF : Powder Bed Fusion
- Material Jetting Binder
- Material Extrusion

Molding Process

- Casting
- Injection Molding
- Plastic Molding
- Powder Metallurgy Press Forming
- Extrusion Molding
- FRP/CFRP Composite Molding
- Vacuum Forming
- Rotational Molding
- Insert Molding
- Blow Molding
- MIM : Metal Injection Molding
- Cold forming

CNC Machining

- Turning
- Milling
- 3-Axis Machining
- 5-Axis Machining
- EDM: Electrical Discharge Machining
- Grinding
- Laser Machining

Plastic Forming

- Drawing
- Sheet Metal Forming
- Bending
- Spinning
- Spring and coil processing

Quality Measurement Technologies

- Dimensional Measurement
- CMM : Coordinate Measuring Machine
- Surface Roughness Tester
- NDT : Non-Destructive Testing
- 3D Scanning
- Hardness Testing: Vickers, Rockwell, Brinell
- Material Testing
- Tensile Testing
- Compression Testing
- Flexural Testing

Surface Finishing Processes

- Plating
- Painting
- Aluminum Vapor Deposition
- Polishing
- Vapor Smoothing

Other Emerging Technologies

- Hybrid Manufacturing: A combined manufacturing process involving 3D printing and machining.
- Biomaterial Manufacturing: A manufacturing technology that uses bio-derived materials.
- Recycled Material Manufacturing: A manufacturing technology that reuses recycled plastics and used materials.
- FSW : Friction Stir Welding