

Manufacturing Process Selection Guide

Choose processes based on volume requirements and part complexity

Part Complexity

Very High

High

Medium

Low

Simple

Prototype
(1–10)

Low
(10–1K)

Medium
(1K–10K)

High
(10K–100K)

Mass
(100K+)

Production Volume

Category



Additive



Forming



Machining



Casting



Joining



Molding

3D Printing

Injection Casting

CNC Machining

Injection Molding

Manual Assembly

Robot Assembly

Die Casting

Thermoforming

Blow Molding

Extrusion

Stamping

Extrusion