



# Material List

Standard materials routinely stocked or sourced

## Aluminum

Grade	Notes
6061-T6	General purpose; good strength & machinability; anodize friendly.
7075-T6	High strength; aerospace & motorsports; not ideal for welding.
5052	Sheet parts, formed components; good corrosion resistance.

## Steels

Grade	Notes
1018 / 1020	Low-carbon; easy machining; general purpose.
4140 (HT / Ann.)	High strength; shafts, fixtures; heat treat available.
A2 / D2 Tool Steel	Wear resistance; heat treat; grinding recommended for finish.

## Stainless Steel

Grade	Notes
303	Free-machining; great for fasteners and fittings.
304	General purpose corrosion resistance.
316/316L	Superior corrosion resistance; marine/chemical.

## Copper Alloys

Grade	Notes
360 Brass	Excellent machinability; cosmetic parts.

C110 Copper	High conductivity; electrical.
Bronze (various)	Bushings, wear components.

Plastics

Grade	Notes
Delrin® (Acetal)	Stable, low friction; precision components.
Nylon	Wear parts; can absorb moisture.
ABS / Polycarbonate	Enclosures, prototypes; PC is clear & tough.
UHMW	High impact & abrasion resistance.

Finishes (outsourced when noted)

- Bead-blast (in-house), tumble deburr (in-house)
- Anodize (clear/black/colors), hard-coat (outsourced)
- Powder coat (outsourced), zinc or nickel plate (outsourced)
- Surface grinding (in-house)

Capabilities

Mill: up to 20" x 20" x 40" • Lathe: Ø up to 10" x 16"