

Materials and Finishes Reference

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Every material GRACTS machines and every finish applied, with tolerance standards.

Metals

- Aluminum 6061 - general bodies, chassis plates, housings
- Aluminum 7075 - where more strength is wanted than 6061 gives
- Stainless steel 303 - free machining grade
- Stainless steel 304 / 316L - corrosion resistance grades
- Brass C360 - free machining, fine detail, adds weight
- Copper - where conductivity or appearance calls for it
- Carbon steel - strength over corrosion resistance

Engineering plastics

- POM - low friction, insulating, light
- PEEK - higher temperature capability than POM
- Other materials available on request

Surface finishes

- Anodizing Type II - colour finish for aluminum
- Anodizing Type III - harder anodized finish for aluminum
- Electroplating - nickel, chrome, zinc
- Powder coating
- Mirror polishing
- Brushed finish
- Passivation - standard treatment for stainless steel

Tolerances

- Standard: ± 0.05 mm
- Tight: ± 0.01 mm for high-precision applications
- General standard for untoleranced dimensions: ISO 2768-m

Ordering

- Minimum order quantity: 1 piece
- Volume pricing from 100 pieces
- Standard lead time 7-10 business days, rush 3-5 business days
- Quote returned within 24 hours of a complete drawing
- Accepted files: STEP, IGES, DXF, PDF

Notes

- Anodizing and plating add thickness - mask or allow on critical features
- Anodizing applies to aluminum; passivation is the stainless treatment

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