

Piece to Process Comparison Sheet

CATEGORIES	Rapid Prototyping	Investment Casting	Ceramic Casting	Sand Casting
1 General Quantities	Based on patterns	1 - 1,000's	1 - 25	1 - 25
2 Quantities/ Tooling	Based on Patterns	Unlimited	Based on Pattern Equipment	Based on Pattern Equipment
3 Weight	Ounces - 30 Lbs.	Ounces - 30 Lbs.	10 Lbs. - 300 Lbs.	10 Lbs. - 300 Lbs.
4 Size	20" Maximum in all Dimensions	20" Maximum in all Dimensions	No Restrictions/Weight	No Restrictions/Weight
5 Configuration	Complex	Complex	Good Detail Not complex	Minimum Detail
6 Dimensional Tolerance	Standard Industry	Standard Industry	+/- .020 inches/inch	+/- .125 inches/inch
7 Surface Finish	125 RMS* Depending on Pattern	125 RMS*	125 - 250+ RMS* Depending on Pattern	250+ RMS*
8 Tooling Material	None	Generally Aluminum	Plastic, Wood, Metal, Rubber	Generally Wood
9 General Delivery Time	2 - 3 Weeks	Tooling 1 - 3 Weeks Samples 1 - 2 Weeks <i>(production based on quantity)</i>	Pattern 1 - 2 Weeks Production 2 4 Weeks	Pattern 1 - 2 Weeks Production 2 4 Weeks
10 Metals <i>For a complete list visit www.mcmprecision.com</i>	All	All	All except Aluminum	All

*RMS = Roughness Measurement System