



PROTOTYPE INVESTMENT CASTING STANDARD TOLERANCES

Attainable prototype dimensional tolerances depends on the choice of technology used to make the prototype or short-run parts. Actual capabilities are dependent upon manufacturing, equipment, material selection, and part requirements. For unique requirements to ensure specs are met within the limitation of our technologies, capabilities and processes, a 2D drawing print (s), tolerances, and / or other requirements are required in writing when quotation is requested. We are fully equipped to fabricate components for companies and can quote from PDF 2D drawing (s), STEP, IGES, and SLDPRT model formats.

Technology:	Investment Casting
Material type:	Metal
Materials:	Aluminum, Carbon, Cast Iron, Copper, Ductile Iron, Stainless Steel, Tool Steel
Part Size Weight :	0.02 oz. ~ 500 lb.
Surface Finish – Ra :	50 ~ 125 µin (Typical) ~ 16 ~ 300 µin (Feasible)
Dimensional Tolerances:	± 0.005 in. (Typical) ~ ± 0.002 in. (Feasible)
Wall Thickness:	0.06 ~ 0.80 in. (Typical) ~ 0.025 ~ 5.0 in. (Feasible)
Ideal Uses For This Technology:	Assembly Components, Closed Impellers, Complex Shapes, Fittings, Housings, Inserts, Lock Parts, Turbine Blades.

Disclaimer: The data above is general information and may vary from machine to machine or supplier to supplier. All tolerance specifications reflect the approximate range of a process’s capabilities and should be viewed only as a guide. These dimensional tolerances, buyer assumes sole responsibility for the design, and must test and verify the material of the product for each specific application applies to their internal requirements.