



StandardTolerance_table CNC machining: milling, turning, wire edm

CNC MillingTolerances:

	Typical	Feasible
Materials:	Metals Carbon Steel Stainless Steel Aluminum Copper Plastics ABS Delrin Ultem Polycarbonate	
Surface finish - Ra:	32 - 125 µin	8 - 500 µin
Tolerance:	± 0.001 in.	± 0.0005 in.
Max wall thickness:	0.04 - 40 in.	0.04 - 72 in.

CNC TurningTolerances:

	Typical	Feasible
Materials:	Metals Carbon Steel Stainless Steel Aluminum Copper Plastics ABS Delrin Ultem Polycarbonate	
Surface finish - Ra:	16 - 125 µin	2 - 250 µin
Tolerance:	± 0.001 in.	± 0.0002 in.
Max wall thickness:	0.02 - 2.5 in.	0.02 - 80 in.



Wire EDM Tolerances:

	Typical	Feasible
Materials:	Metals Stainless Steel Steel Tool Steel Aluminum Brass Bronze Nickel	
Surface finish - Ra:	6	
Tolerance:	± 0.001 in. (hole)	± 0.0002 in. (contour)

Note that the values represent normal production practice at the most economical level. Greater accuracy should only be specified where required to avoid additional prices. Disclaimer: All tolerance specifications reflect the approximate range of a process's capabilities and should be viewed only as a guide. Actual capabilities are dependent upon manufacturing, equipment, material, and part requirements.