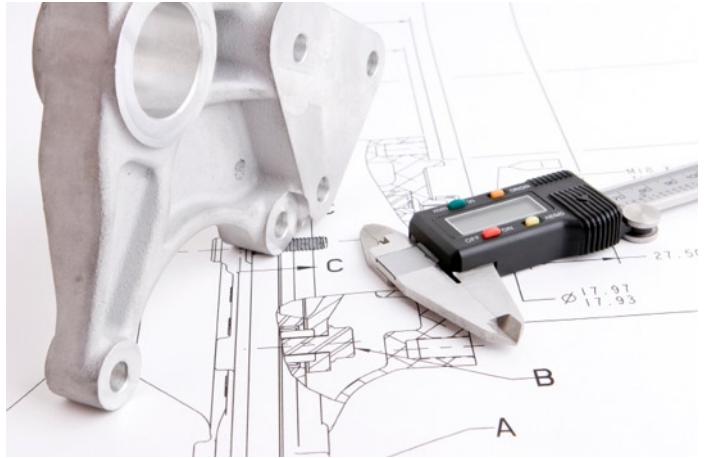


RAPITYPES

ADVANCED MANUFACTURING SUPPORT



QA & GENERAL TOLERANCES

Rapitypes is an ISO 9001:2008 accredited company working towards the Automotive Supply Standard TS:16949 (which we are aiming to achieve in October 2010).

We regard the quality of our work as the number one priority. All models, tools, component parts and assemblies undergo stringent checks before release for shipping, be that a look-see rapid prototype model or a series of production aircraft components. All parts and assemblies are issued with a Certificate of Conformity confirming the geometric tolerances and material specifications ordered and agreed.

As part of our quality regime Rapitypes is equipped with measuring equipment which includes three CMM systems, 1 x 2m x 2m surface plate, and a 2 x 3m x 6m floor level surface plate, all with Renishaw probes, operating through Delcam's Power Inspect software. All measuring devices are calibrated to TS :16949.

Typical tolerance guide sheet

Rapitypes offers the following information as a general guide to our typical prototype tolerances. Please note that closer tolerances can be obtained by prior arrangement on individual projects. Basic 3 axis measurements, based on tolerances shown below, constitute our Certificate of Conformity, but concise inspection reports can be provided through Delcam's Power Inspect on one of our three CMM platforms at a pre-arranged cost.

Rapid Prototyping

Process	Nominal Tolerance (mm)	Dimensional Tolerance (mm)
SLA	0.15	± 0.15 per 100
SLS	0.25	± 0.25 per 100
Vacuum Casting	0.20 + SLA Tolerance	± 0.20 per 100
CNC (China)	0.20	± 0.20 per 100
CNC (UK)*	0.005	± 0.005 per 100

*Denotes best achievable machined tolerance. This is influenced by general size and substrate. Tolerance guarantee stated on individual projects

Metal Casting

Dimension	Tolerance
Up to 15mm	± 0.4mm
Up to 250mm	± 0.5mm
Up to 350mm	± 0.8mm
Up to 500mm	± 1.5mm

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