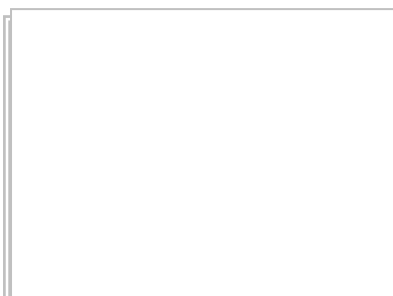


Alan Browne Gauges

Gauge Block Calibration & Manufacture



Case Study: “Tiny” Pins



From the sublime to the almost ridiculous – From 175mm diameter in tool steel with a mirror flawless finish to tool steel pins 2.00mm diameter and 2.00mm long, controlled to plus/minus 1 microns on length, with a DOUBLE ENDED lapped mirror finish!

Alan Browne Gauges rose to the challenge for a blue chip scientific customer, the problem was considered and custom tooling was designed and manufactured to meet this requirement.

The problem was of course to maintain the perfectly correct attitude of the pins to the lapping process, hence the need for the custom tooling.

Following manufacturing trials it was determined that there was an optimum minimum quantity to be manufactured simultaneously of 50off. A regular manufacturing cycle of 50off is now scheduled through Alan Browne’s workshops.

The inspection procedure is in some respects even more critical, the results still have to be reliably inspected, measured and certified, and such a small diameter and length -difficult.

A triple procedure is employed, a combination of visual inspection and measurement, implemented by three independent engineers.

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