

**Title:**

Co-ordinate Measuring Machine Gear Capability

**Abstract:**

As metrology equipment, sensors, and software technologies advance at pace, how can businesses be confident that the hardware they invest in has the capability to accept or reject parts, control process capabilities, and serve as a reference system within the supply chain. This presentation will look specifically at the increasing use of CMMs for gear measurement and identify key topics of interest that should be considered when comparing different measurement systems for gear applications.

The presentation will detail the specifications that CMMs and other measurement equipment commonly reference. We will review the parameters that are critical for capable gear inspection, and we will evaluate sensor technologies that are commonly applied to gear measurement, looking at how they are designed, how they collect data and how that data is used to produce accurate evaluation to gear standards.

The aim of this work is to offer objective information that can be used to make informed decisions, offering new and existing manufactures in the gear world a check list of items to consider when investing in gear metrology.