



A Look Into KMP Brand's Quality Control

PREMIUM QUALITY REPLACEMENT ENGINE PARTS

Suitable for: Komatsu®, Caterpillar®, Cummins®, Perkins® & John Deere® applications.

KMP Brand Quality Department has a library of several thousands of developed and approved drawings and samples which are frequently referred to, along with our extensive OEM Part Store, to ensure that all KMP Brand parts are manufactured to the correct specification.

The QC department, based in the UK, uses a selection of metrology techniques and equipment throughout the development and quality control process, some of which are shown below.



1. X-Ray Fluorescence (XRF) Analyser

KMP is proud to announce the latest addition to the KMP Quality Department - new X-Ray Fluorescence (XRF) Analyser. This high-tech, handheld piece of technology is able to determine the material composition of many different types of components through non-destructive spectroscopy, ensuring KMP Brand material specifications are being met.



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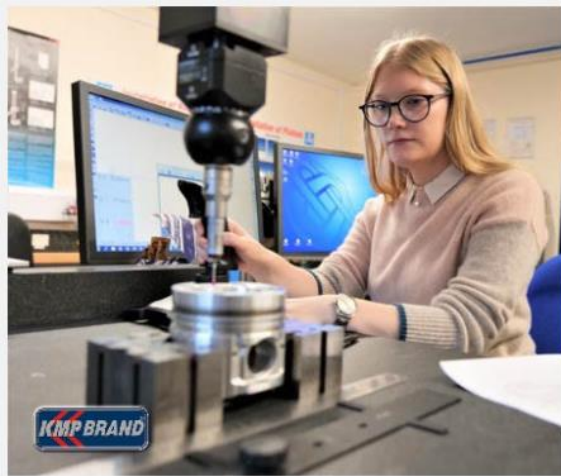
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2. Co-ordinate Measuring Machine

Our Co-ordinate Measuring Machine (CMM) is a robotic machine used to measure the geometry and dimensions of our parts such as pistons, ring gears, crankshafts, camshafts and valve train components.



3. Digital Microscope

The digital video microscope can zoom up to 160x and is invaluable in the measurement of bearing material thickness, piston ring coating analysis and close up surface analysis.



4. Mechanical Piston Ring Tester

The mechanical piston ring tester is used to measure the tangential tension force (springiness) of piston rings.



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5. Crankshaft and Camshaft Analysis

We use a calibrated digital micrometer to measure the journal diameters of crankshafts and camshafts. The digital micrometer has a resolution of 1 micron.



6. Hardness testing

Hardened components can be tested using either a Leeb Hardness Tester or the Rockwell Hardness Tester to measure the hardness of valves, piston pins, cam followers, crankshaft/camshaft journals, valve seats etc.



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7. Shadowgraph

The shadowgraph is used to analyse part profiles and is beneficial in the measurement of valve angles and piston ring profiles.



8. Shore Durometer

We use a shore durometer which measures the hardness of rubber materials like gaskets and seals to aid in our development process.

We hope this helps you gain a better understanding of the care and professionalism which goes into every KMP Brand product.

KMP understands the criticality of engine parts, therefore we spare no effort in providing only the best quality and service to our customers all around the world.



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