

ULTRASONIC PISTON TEST SYSTEM

Job Description:

Piston Diameter : 60mm to 180mm
Piston Height : 50 to 220 mm
Weight : 500 g to 6.5kg
Machine can be design for single & double grooved or ungrooved Pistons

Test Task Features:

Top Band, Bottom Band, Back Bond & overlap
Cooling gallery position from axial with porosity defects
Cooling gallery position from radial with porosity defects
Crown crack, skirt crack
Porosity defect between cooling gallery & cast iron ring
Porosity defect in pre bowl area
Other type of defect if required

Test Electronic

The Test System uses the
Socomate Ultrasonic Test Electronic
Model USPC 7100 MHA+



DUT 31 based Ultrasonic Piston Test System has very high repeatability and accuracy of

measurement due to rugged mechanics suitable for 24x7 operation with versatility of up to 22 combination or more 'Test Task' which can be user selectable for inspection of Pistons. The repeatability of the system for finished piston will be around +/-0.15 to +/-0.5% or better, depends on piston diameter, profile & master piece preparation.

Additionally masking features, point to point cooling gallery Monitoring. B scan features can be provided for testing of the pistons on specific requirement.

Various customized report format can be design for each job, each shift, day wise, month wise.

The Test Mechanic will have test station, Piston drive mechanism, probe mechanism, marking system.

In India we have reference M/s SPRL , M/s Federal Mogul, M/s Mahle India, M/s India Piston, M/s Menon Piston, M/s DGC Automotive, etc. We exported the test system in Turkey recently.