



Wheel Qualification (Ultrasonic Testing) Machine

The Wheel Qualification Machine is regarded as an integral part of a rail maintenance workshop and is complimentary to other equipment such as the wheel and bearing press and the wheel lathe.

The machine will automatically load the wheel set, spin it at the correct speed, measure the wheel diameter, apply the UT probes for the test and unload the wheel when finished. The WOM tests the wheels using two EPOCH 4 ultrasonic flaw detectors which detect the ultrasonic signal and also measure for distance. The system will analyse the echoes, either those expected such as the Back Wall Echo or echoes from discontinuities such as shelling or cracking.

Discontinuities are then classified as acceptable or unacceptable (defects) depending on their length, their location in the rim, and their location in relation to other discontinuities. Each wheel is given a "Severity Level", with an associated "Corrective Action"



For more information regarding these units and other railway workshop equipment, please contact Atlas Rail

