



NDT for the Railway Industry

Magnaflux non-destructive testing (NDT) solutions are designed for rail operators, fleet owners, component manufacturers, railway service companies and overhaul providers.

Rolling stock and safety critical components require periodic inspection. Integrity and reliability of wheels, wheel axels, roller bearings and coil springs are essential to keeping railroads operating / to keeping railroads on track.

Universal SW

Magnetic Test Bench

Our Universal SW stationary test benches are suitable for testing workpieces with clamping lengths from 1,200mm to 3,200mm. The clearance coil diameters of the basic units are 400 or 500mm. Universal benches can process test pieces with a maximum weight of 300kg (standard) or 1,000kg (optional).

The standard Universal test benches of the SW series are equipped with two AC circuits. This allows the indication of longitudinal and transversal cracks at the same time. For longitudinal cracks, use axial current flow; for transversal cracks, use coil magnetisation.

- pneumatic clamping of the test pieces
- infinitely variable clamping length adjustment
- manually moveable magnetisation coil
- stainless steel test liquid drip tray and tank
- separate dust-proof switch cabinet with display and operating elements
- command box with control keys and emergency-off at the front of the test bench
- demagnetisation for both magnetisation circuits



Y-2

AC Electromagnetic Yoke

The Y-2 is an AC electromagnetic yoke, ergonomically designed to improve productivity and reduce operator arm and wrist fatigue. The yoke generates a strong AC magnetic field for the detection of surface indications during magnetic particle testing.

Lightweight with an ergonomic grip and trigger, the Y-2 is designed for the rugged demands of field inspection. Featuring a field swappable cord and isolated trigger switch; the Y-2 is easily serviceable because a severed cord should not stop a job from getting done.

A super-bright LED attachment is available as an optional item to help illuminate the inspection area while simultaneously magnetising the part.



MINDEN Type Coil

For testing rail wheels. Needs to be connected to a power pack; we recommend our Ferrotest range, depending on the lengths of the connecting cables and the size of the magnetising coil. Available for wheels disks with rolling circles up to 920 mm (Minden type 1000) and 1,250 mm (Minden type 1300).



Magnetic Particle Inspection Consumables

The first Magnaflux inspection systems appeared in 1929; since then we have grown into the global leader for magnetic particle consumables. Our customers rely on Magnaflux magnetic particle testing solutions to set the global standard for fluorescent and non-fluorescent testing of surface and sub-surface defects in ferromagnetic parts.



Fluorescent Magnetic Particles

Our fluorescent products are perfect for high-sensitivity, wet method magnetic particle inspection. They produce bright yellow/green indications when viewed under UV(A) light.

Visible Magnetic Particles

Our visible magnetic particles are finely controlled to produce vivid indications that are easy to see without special lighting.