



Together for a safer world

# Magnetic Particle Inspection





Dedicated and proud Magnaflux® customers are our most important focus: They drive us to be our best as we follow our mission creating market-leading NDT products and processes. We believe listening to our customers is the reason for our successful 80+ years of history developing and producing equipment and materials for the NDT community. Simply, we make the best quality and highest performing products because our loyal users ask for them.

We see the best way to make our passion work is to lead the advancement of processes and products that make our customers, the dedicated non-destructive testing and quality assurance professionals, advance the safety and reliability, efficiency and convenience, of their industries. Every part we touch is our part.

Magnaflux product and performance results grow our accountability with our customers. Convenience, reliability, safety and reduced exposure, all of these issues are related and integral to the way we operate.

We follow every detail of the development process from cradle to grave, micro-managing our product lifespan so we can learn every aspect of NDT knowledge. That's our way of continuously improving both quality and necessary bottom line performance. Our customers count on us to know, and to share that knowledge through our people.



## Magnetic Particle Inspection/Magnetic Particle Testing

The first Magnaflux inspection systems appeared in 1929, since then we have grown into the global leader for magnetic particles. 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 MPI products are perfect for high-sensitivity, wet method magnetic particle inspection. They produce bright yellow/green indications when viewed under UV(A) light.

#### Powders

14A  
MG 410  
MG 601  
601.1

#### Ready-to-use Inks

14HF  
410HF  
101  
690.1

#### Liquid Concentrates

WB-12  
622.1  
MF-655 WB

### Visible Magnetic Particles

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

#### Dry Method Powders

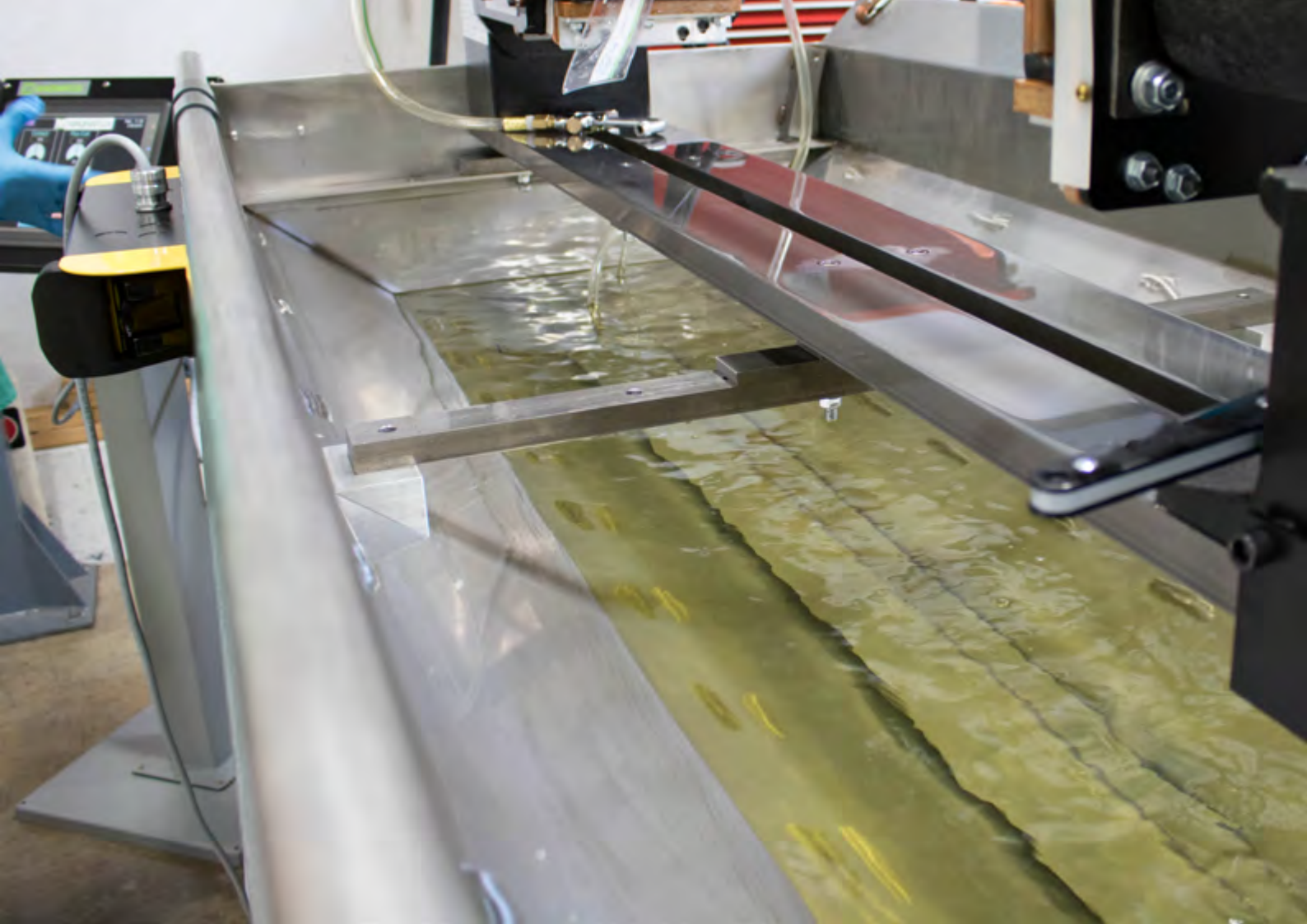
1 Grey  
8A Red

#### Ready-to-use Inks

7HF  
103  
690.2

#### Water-based Concentrate

WB-27



## Contrast Paints

Use our rapid-drying white contrast paints wherever you need a better contrast between your test surface and the magnetic particles. The paint will produce an opaque white background, making it easy to see even the smallest indication

WCP-2  
104A  
104plus  
695.1

## Cleaners

Use our solvent-based cleaners for general cleaning of your components, both before and after testing, to remove penetrant, oil, grease and other contaminants.

SKC-S  
C5  
C10  
RL-40

## Water Bath Additives

**WA-1** disperses rapidly in water baths, aiding the suspension of magnetic particles and ensuring that the resulting ink gives good surface wetting of the test part.

**WA-2** eliminates foaming in water-based baths.

## Oil-based Carrier

**MG/MX Carrier II Oil** is an oil-based carrier fluid used for the suspension of wet method magnetic particles. It contains special additives to minimise background fluorescence when using fluorescent materials.



## Equipment and Accessories

Whether you are testing a small bolt, a large turbine rotor or anything inbetween, we can supply a wide range of high-quality magnetic particle inspection equipment for any application.

Manufactured to meet government and industry specifications, our MPI equipment gives you:

- Simple, fast and reliable operation.
- Versatility to locate both surface and near-surface defects.
- Economical operation for high-volume inspection.
- Built-in durability for tough industrial environments.
- Virtually no limitations on the size of part that can be tested.

### Test Bench Units

Ferroflux  
MAG 20  
MAG 40  
MAG 50 and 50/FR  
Universal SW series  
Universal WE

### Mobile Test Units

Chain Inspection  
Ferrotest  
Isotest  
MAG 50/3HM, 50/5HM  
P920

### Demagnetisation Units

ETT Series  
ETW Series  
ETB Series  
SB Series  
S-66 and S-1212

### Magnetic Yokes

TWM 42 N  
TWM 220 N  
Y1  
Y6  
Y7  
Y8  
YM5



## Accessories

Centrifuge Tubes  
Conductors and Adaptors  
Connectors  
Contact Clamps and Blocks  
Contact Pads and Plates  
Electrodes  
Field Indicators  
Field Strength Meters  
Hand Sprayers  
Magnetising Coils  
Monitoring Devices  
Prod Sets  
Quantitative Quality Indicators (QQI)  
Quick Break Testers  
Steady Rests  
Test Pieces

## UV Inspection Lamps

For professional who want to use UV technology developed exclusively for nondestructive testing, Magnaflux UV lights and lamps help our customers find indications faster and more reliably.



## Industries and Applications

- Aerospace
- Automotive
- Foundry castings and forgings
- Critical military components
- Rail components
- Offshore oil and gas
- Weld inspections
- Pipelines

Manufacturers and testing service providers choose Magnaflux solutions because our line of products have superior abilities to detect the smallest flaws and indications, and do so in critical areas of testing. Our longtime mission is to simplify and improve NDT processes of limiting unnecessary rejection of quality parts, and exposure to failures in bad parts. We have over 80-years of testing and learning experience, and a culture of customer and expert interaction.

Our sales and technical staff are trained to provide answers, provide product comparisons and review existing processes for potential areas of improvements and cost reductions. Reach out to our local representatives at +44 (0)1793 524566 or [sales.eu@magnaflux.com](mailto:sales.eu@magnaflux.com).