



Together for a safer world

Liquid Penetrant Inspection



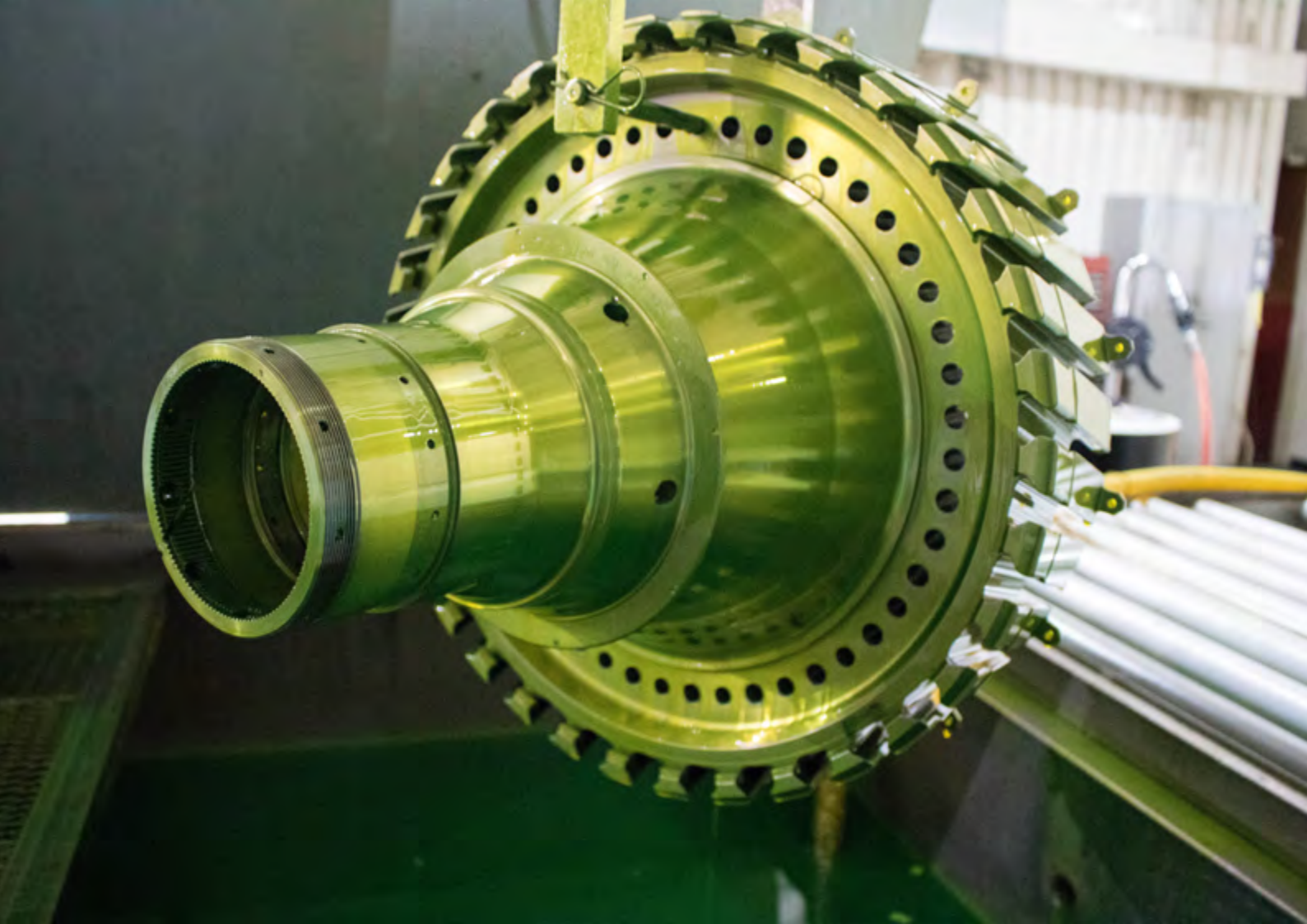


Dedicated and proud Magnaflux® customers are our most important focus: They drive us to be our best as we follow our mission creating market-leading NDT products and processes. We believe listening to our customers is the reason for our successful 80+ years of history developing and producing equipment 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.



Liquid Penetrant Inspection/Penetrant Testing

Magnaflux penetrant inspection products are the most widely used LPI/PT inspection products and best known for reliability on the market. No matter what the industry, Magnaflux customers trust our penetrant products to provide superior results in detection of fine defects and cracks in ferrous and non-ferrous materials.

Fluorescent Penetrants

Made from high-quality fluorescing dyes and solvents, our fluorescent liquid penetrants have outstanding penetrating characteristics and will give superior indications of the smallest crack or flaw.

Water-Washable Fluorescent Penetrants

ZL-15B Level ½
ZL-19 Level 1
ZL-60C Level 2
ZL-60D Level 2
ZL-67B Level 3
ZL-56 Level 4

Post-Emulsifiable Fluorescent Penetrants

ZL-2C Level 2
ZL-27A Level 3
ZL-37 Level 4

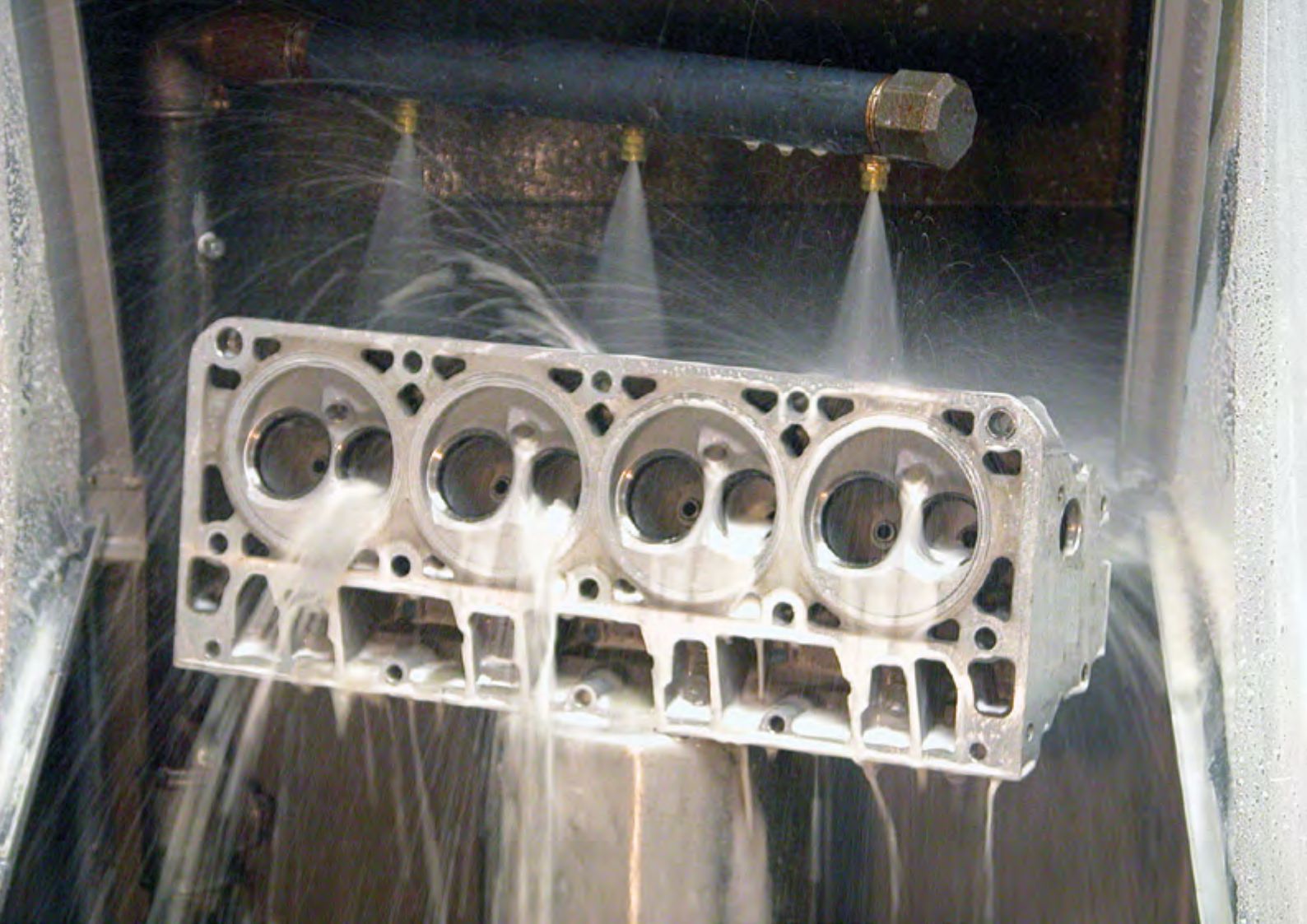
Visible Penetrants

Our visible colour-contrast penetrants have outstanding penetrating characteristics, producing vivid red indications of faults which can easily be seen with the naked eye.

Water-Washable Visible Penetrant SKL-WP2

Solvent-Removable Visible Penetrants
SKL-SP2
RP20
PWL-1

Low-Temperature Visible Penetrant RP20LT



Cleaners/Removers

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

Emulsifiers

ZE-4B is a fast-acting lipophilic emulsifier with a high flash point and low volatility. It is biodegradable and safe to use on all aerospace alloys, including aluminium, steel, nickel and titanium.

ZR-10C is a biodegradable remover concentrate used as the remover/emulsifier in post-removable penetrant systems.

Developers

Our developers are designed to enhance your LPI testing in two ways: they maximise the sensitivity of whatever penetrant you are using, and they provide a white contrasting background on the test surface, making it easy to see any flaw indications.

Dry Powder
ZP-4B

Solvent-based
SKD-S2
D30A
D30plus
DL-20

Aqueous (Water-based)
ZP-5B

Water-soluble
ZP-14A



Specialist Penetrant

Automotive Industry

AL-4B is a biodegradable, fluorescent, water-based penetrant specifically designed for use in the automotive industry. It has excellent water washability and is easy to remove from rough non-ferrous cast parts and complex shapes.

Use AL-4B on all your automotive components, for example:

- Brakes
- Steering components
- Connecting rods
- Wheels
- Engine mounts
- Pistons
- Cylinder blocks
- Welded tanks



Equipment and Accessories

Magnaflux Liquid Penetrant Inspection (LPI) Systems have been engineered for critical part testing in industries with high inspection tolerances.

Whether you are testing small, high-volume automotive parts or tolerance-critical surgical implants, we have the penetrant inspection equipment and supplies to meet the demands of your application.

- Easy to operate.
- Built tough to withstand years of high-volume use.
- Outstanding repeatability.
- Consistent test results across a variety of part sizes and industrial applications.
- Extensive range of optimised materials and accessories.

Penetrant Inspection Systems

ZA-28 and ZA-37 Series
ZA-915

Penetrant Rinsewater Treatment

S200
S500/S500C

Accessories

Electrostatic sprayers and hand sprayers
Process timer
Refractometer
Test panels and 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.