EVOLUTION
INSPECTION SERVICES

COMPANY PROFILE

NON-DESTRUCTIVE TESTING &
INDUSTRIAL INSPECTION SERVICES

Precision in inspection. Confidence in integrity.

MAGNETIC PARTICLE / ULTRASONIC / THICKNESS GAUGING / LIQUID PENETRANT

CONTACT
WESLEY 082 961 9859
wesley@evoinspection.co.za

Inspect with confidence

Specialist non-destructive examination for metallic materials, welds, components and industrial assets.

Evolution Inspection Services provides non-destructive testing (NDT) methods that help clients evaluate material condition, identify discontinuities and support quality assurance without unnecessarily damaging the item under examination.

OUR PURPOSE

To deliver technically sound inspection services that support informed maintenance decisions, manufacturing quality and the safe operation of industrial equipment.

1. **Detect defects**
2. **Assess condition**
3. **Support decisions**

Surface & near-surface testing

01

MAGNETIC PARTICLE INSPECTION

MPI / MT is used to detect surface and near-surface discontinuities in ferromagnetic materials. Typical work includes welds, shafts, gears, steel structures and fabricated assemblies.

02

LIQUID PENETRANT INSPECTION

LPI / PT, also called dye penetrant testing, reveals surface-breaking discontinuities in suitable non-porous materials, including welds, machined components, stainless steel and aluminium.

INSPECTION PRINCIPLE

MPI highlights magnetic flux leakage at relevant defects; penetrant testing reveals indications open to the surface. Neither method is intended to detect deep internal flaws.

Ultrasonic examination

03

ULTRASONIC TESTING

UT uses high-frequency sound waves to examine internal material conditions and identify relevant discontinuities. Applications include weld examination, steel plate, forgings, castings and mechanical components.

04

ULTRASONIC THICKNESS GAUGING

UTG measures the thickness of suitable components, often from one accessible side. It is used for corrosion and erosion monitoring in piping, tanks, pressure equipment and industrial structures.

PRACTICAL VALUE

Ultrasonic methods provide information on internal integrity and remaining wall thickness, helping teams plan repairs, monitor deterioration and prioritise maintenance.

Industrial inspection applications

Our methods support fabrication quality control, in-service inspection and maintenance across multiple industrial environments.

ENGINEERING & MANUFACTURING

Fabricated components, welds and machined parts.

STEEL

Structural steel, welded joints and assemblies.

MINING & PROCESSING

Plant equipment and wear-prone components.

CONSTRUCTION

Equipment integrity and maintenance monitoring.

PIPING & TANKS

Thickness surveys and material condition.

MECHANICAL MAINTENANCE

Inspection of critical mechanical components.

Reliable findings. Clear decisions.

We recognise that inspection results inform decisions about component acceptance, repair, maintenance and continued operation. Our approach prioritises appropriate method selection, careful examination, accurate recording and clear communication of findings.

OUR SERVICE PRINCIPLES

- **Method suitability**
- **Clear reporting of findings**
- **Consistent inspection practice**
- **Safety-conscious execution**

CONTACT EVOLUTION INSPECTION SERVICES

For inspection enquiries, scope discussions and quotations, please contact the Evolution Inspection Services team.

Contact details and technical certifications to be inserted upon confirmation.