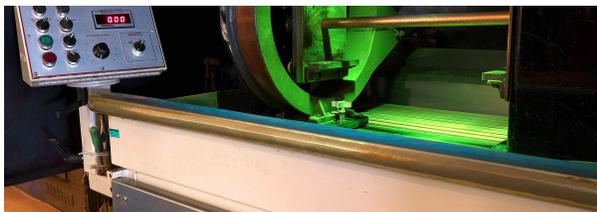


Nadcap Accredited Magnetic Particle Inspection

Applus+ delivers Nadcap NDT services, accredited to deliver magnetic particle inspections to the aerospace and other industry sectors.

Magnetic particle inspection (MPI) and testing is an extremely sensitive non-destructive testing (NDT) method for use on ferrous materials. The method can detect minute cracks open to the surface as well as some sub-surface discontinuities or flaws.

NDT magnetic particle inspection is also one of the most economical and fastest ways to ensure that ferrous materials are safe and ready for use in any industry sector or field. Magnetic particle testing is performed by creating a magnetic field around the material and then applying a carrier fluid holding particles, typically of iron oxide. Any defect in the surface or just under the surface of the material will distort the magnetic field surrounding it, causing the particles in the carrier fluid to be drawn to the magnetic field. The productivity and sensitivity of MPI as an NDT inspection makes it a standard requirement in the aerospace inspection.



THE Applus+ SOLUTION

With ten Nadcap-accredited locations in the US and four in the UK, Applus+ is the largest provider of Nadcap-accredited NDT services in both of these regional markets.

Our magnetic particle testing capabilities and MPI NDT services cover almost all of the potential applications and industry requirements of magnetic particle inspection. Conventional methods of direct or induced magnetisation can be performed with either portable or fixed inspection systems, and Applus+ can deploy multidirectional systems for magnetic particle testing on large-volume NDT projects.

Applus+ only uses magnetic particle equipment and supplies from reputable manufacturers, who ensure their products meet code requirements, and our technicians are trained to NAS410/EN4179 written-practice level.

Target customers

Nadcap accreditation is required to carry out the magnetic particle inspection for NDT on aerospace components.

Key customer benefits

Partnering with Applus+ as a Nadcap-approved provider helps ensure our clients' products and processes comply with their industry regulations and requirements.

When applied effectively in NDT, magnetic particle testing can also:

- Increase product reliability
- Improve production processes by identifying discontinuities early
- Reduce rework costs and number of returned items
- Improve quality processes and assurance