

DESCRIPTION OF THE METHOD

Magnetic particle testing method (MT) is often used as NDT method for ferromagnetic materials. The major applications are in aerospace, automotive and power industry and transportation. With regard to its relative simplicity and ease of carrying out, it is one of the most important methods even for inspection of equipment in service. MT method is capable of detecting surface and subsurface defects such as tears, cracks, pores, inclusions etc. It is applicable for ferromagnetic materials only.

DESIGN AND PRODUCTION

ATG offers complex solutions for all MPI applications:

- | Gauges and meters
- | UV lamps and testing agents
- | Manual electromagnets
- | Portable, mobile and stationary current sources
- | Special MT equipment
- | Stationary magnetic flaw detectors
- | Demagnetization equipment



ATG products meet requirements of producers like:

Volkswagen, General Electric, Boeing, Airbus, Embraer, Honeywell, Pratt & Whitney, Parker Hannifin, Rolls Royce Aircraft Engines, ...
All products comply with the latest norms: EN, ASTM, ASME Code, NADCAP, NAVSHIP, NADCAP, ...

SELECTED PRODUCTS FOR MT

MAGNETIZER UNIMAG 3000

Suitable for testing in aerospace industry; optionally three phase FWDC current; other accessories; available for up to 3m long products.



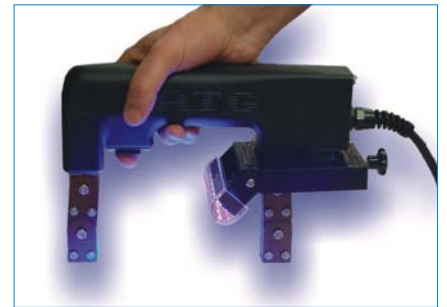
MAGMAN 15-20-40-60-80

Portable generators for testing of welds, castings, forgings, and machined parts. AC / HW demagnetization, continuous current regulation, TRMS value...



YOKE TYPREM 230

Manual electromagnet for 220-230V; suitable for work in detached workplaces and on-site.



CHEMICALS FOR MT

Supplied by Chemetal and Ardrex.



UV LAMPS

Manual or stationary, protective goggles



GAUSS / TESLAMETR

F.W.Bell 5170, 5180 digital signal; TRMS function.



UNIMAG 1200 AC-DC Aerotester

Suitable for testing in aerospace acc. to ASTM E 1444; optionally three phase FWDC current; Quick Break Feature.



DEMAGNETIZATION TUNNELS Demat

For demagnetization of ferromagnetic products magnetized by AC or DC, continuous frequency regulation; timers, movement adjustment.



Results of MT inspection are directly evaluated according to requirements of standards or requirements of customers. The basic methodic standard is EN ISO 9934 - 1 to 3, EN 1290, EN 1369, EN 10228-1 and EN 10246-12 + 18.

Equipment of ATG operators:

Manual electromagnetic yokes REM

Portable and mobile generators MAGMAN, meters and gauges for assurance of appropriate testing conditions - UV meters, luxmeters, magnetic field intensity indicator, ammeters, etc.

Magnetic powders + suspensions (CHEMETALL, Overchek, Ardrex product lines)

Stationary magnetizers: MINIMAG a UNIMAG, AC/AC magnetizers for automotive industry, FWDC type for aviation applications according to ASTM E1444, HW type for casting and others

Systems with sequential multidirectional magnetization for oversized castings and weldments



TRAINING AND SEMINARS

ATG provides qualification of NDT level I, II and III personnel. Our company belongs to the most important training agencies of "special processes" in Europe. During the training personnel is prepared for duties of NDT examination in industrial conditions. **Training courses include practice on professional NDT equipment!**

Each candidate for our NDT training courses obtains:

Attendance certificate

Qualification certificate - after passing the final exam

Qualification of NDT personnel is provided according to the following codes:

EN 473/ISO 9712, EN 4179/NAS 410 for aircraft industry - JAR 145.30

SNT-TC-1A employer certification

