



LABQUIP

NDT

labquipndt.co.uk



MAGNETIC PARTICLE INSPECTION • AUTOMATIC SYSTEMS • LIQUID PENETRANT INSPECTION

Since 1958...
Your quality relying
on our experience





OUR ORIGINS

CGM CIGIEMME was founded as a one-man business in 1958 by its founder, Corrado Gianni.

The structure develops on 10.000 m² approx. of land, of which 5.000 m² are covered, with 800 m² for offices and 4.200 m² for production works, warehouse and storage areas. **CGM CIGIEMME** currently employs about fifty people at its headquarters, and relays on a trading network with 4 representative offices in Italy, and 20 independent dealers/agents abroad.



since 1958



since 2007

CGM CIGIEMME s.r.l.

since 2016



OUR CERTIFICATIONS

UNI EN ISO 9001 : 2008

UNI EN ISO 14001 : 2004





BRANCHES

CGM CIGIEMME main activities regard following Non Destructive Testing methods:

Magnetic Particle Inspection

Development, design and manufacturing of the entire range: from small portable equipments to automatic in-line systems, from detection products to inspection accessories and tests.

Liquid Penetrant Inspection

Like with MPI, **CGM CIGIEMME** is able to offer a complete range of solutions for PT: from the simple equipment to the automatic system, from consumables (fluorescent and dye - contrast Penetrants - produced on our own or licensed) to accessories.



Turn key systems

Enjoying its 50 years experience in the field of Non Destructive Testing, **CGM CIGIEMME** can also offer in-line solutions employing Eddy Currents and Ultrasonic Testing technologies. Accurate after - sales technical support, offered from our facilities or on-site, complete our supplies with commissioning supervision repair refurbishment & upgrade, calibration and regulation of equipments manufactured either by **CGM CIGIEMME** or by third parties.





YOKES AND GENERATORS

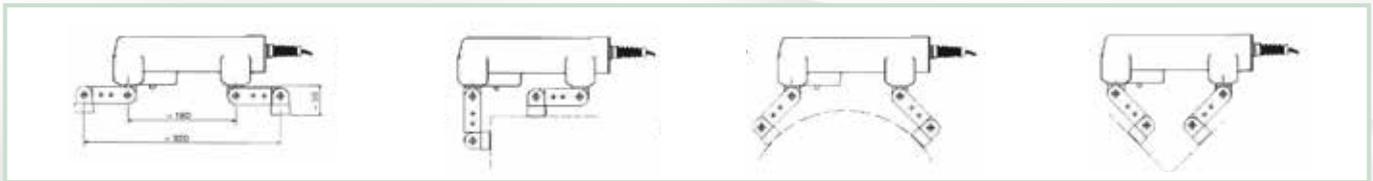
Electromagnetic Yokes

A versatile, portable, reliable and cheap test tool recommended for row or machined surfaces.

POWERFUL • ERGONOMIC • ROBUST



Electromagnetic Yoke + transformer



Electromagnetic generators

Widely employed in foundries, still works, pipe mills, carpentries, forge shops and yards of any kind. Designed for heavy duty working cycles and for large sized manufactures.

Housed in compact structure, dustproof and waterproof, suitable for comfortable and safe work in industrial environments.

TECHNICAL DATA:

- Manufactured in compliance with ASME Standards
- From 1500 to 20000 Amps AC/ HWDC or FWDC
- Up to 3 x 20000 Amps AC/ HWDC or FWDC
- MULTIDIRECTIONAL
- Demagnetization by electronic ramp
- Equipped with digital storage ammeters
- With electronic timers from 0.5 to 5 s
- Conforming to IEC and EEC Accident Preventions Regulations and provided with CE mark



UNIVERSAL MPI BENCHES

A range of universal MPI Benches completing **CGM CIGIEMME** production, suitable to combine high inspection performances with contained operational costs. Benches with working aperture between heads from 500 to 2500 mm, with core and/or through or traversing coil and Generators from 3000 to 10000 Amps, belong to this production line.

Like all the **CGM CIGIEMME** products, also this range can be completed with customised mechanical and electrical solutions to reduce and optimise inspection times and to increase the inspection sensitivity.

Benches can be offered with on-board demagnetizing facilities, tilting inspection booths and conforming to the standards for employ of oil products.



DEMAGNETIZATION TUNNELS

Manually or automatically operated, with AC or FWDC THREE - PHASE.





SPECIAL MAGNETOSCOPES

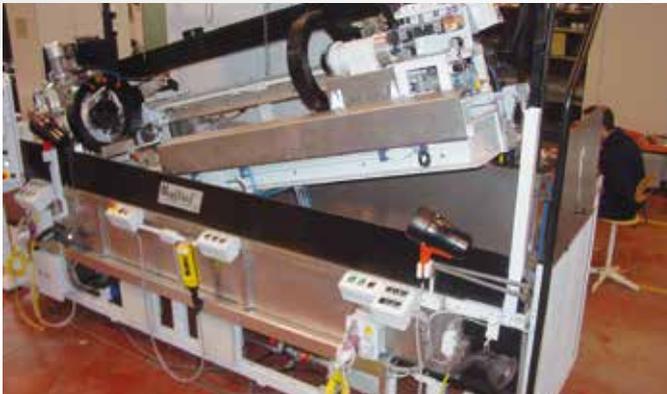
These are the pride of **CGM CIGIEMME** production. They are customised magnetoscopes, designed and manufactured to satisfy special inspection requirements arising from customers, or to comply with the specific standards of every branch.

Within this range you can find magnetoscopes for several metres long parts and for parts weighing more than one thousand kilos, suitable to deliver FWDC THREE - PHASE (peculiar to the aeronautical branch), complete with on-board demagnetization cycle (also by FWDC THREE - PHASE current) and to perform the inner and outer visual inspection with image acquisition and management systems.

One more step forward is **CGM CIGIEMME** development of management systems (HMI Human Machine Interface) able to improve reliability and repeatability of MPI as well as information management.

All our special magnetoscopes are interfaceable with personal computers for the inspection parameters management: presetting, recall, display, storage and generation of a final inspection report.

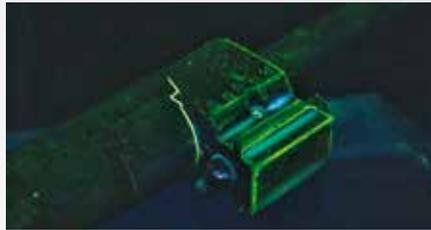
Rotating heads, on-board bench demagnetization, automatic spraying and inspection boots, also air-conditioned for operators comfort, are available also for this range of equipment.



MAGNETIC PARTICLE INSPECTION SYSTEMS

CGM CIGIEMME has been engineering and manufacturing highly productive semi-automatic and automatic turn-key systems for 50 years. Systems can be offered completed with automatic handling facilities (manipulators, walking - beams), storage stations, motorised heads, inspection booths and process parameters management softwares.

Examples of cracked areas - oil-gas pipes



Examples of cracked parts - automotive branch





LIQUID PENETRANT TESTING SYSTEMS

Enjoying our experience in MPI and answering to the increasing employ of light alloys (non ferromagnetic), **CGM CIGIEMME** since the 80's has also been developing Liquid Penetrant Testing Systems.

CGM CIGIEMME can satisfy any requirement: from a single booth to the fully automated line, even equipped with water cleaning system.

Our engineering department, with a skilled staff and CAD stations, grants a high level of design and manufacturing.





Set of tools for periodical verifications

ACCESSORIES

CGM CIGIEMME product range is completed by accessories, tools and test kits, helping to improve the testing efficiency.

CGM CIGIEMME has always stood out for its constant after-sales Service, a well stocked spare parts warehouse and an efficient and reliable technical support granting soon and definitive trouble shooting all over the world.



TFT Set, magnetic field meter



Berthold Test



Octagonal Pie Gauge conforming to ASME Standards



Contact Pads



UV light lamps



Labino UV Light Lamps



UV Lamps and filters



UV absorbing and contrast colour spectacles



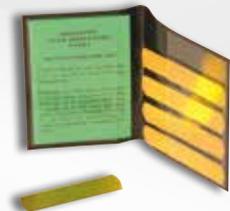
UV/white Light meter



Residual magnetic field meter



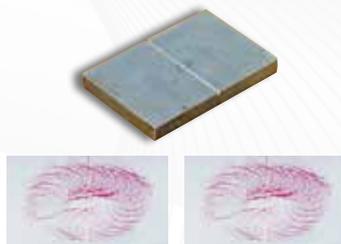
Tam panel reference EN UNI 3452-3



Magnetic flux indicators



Ketos Ring



Aluminium sensitivity test panel



Test panel type NI-CR





MPI PRODUCTS

CGM CIGIEMME has its own chemical department producing magnetic powders, additives and suspension carriers. The magnetic powder range includes dry and wet powders, for use in water or oil, fluorescent or dye contrast and in different grain size (from 2 to 150 μm).

The supervision of our analysis laboratory grants a constant quality level of the entire product range, performing a continuous research for development of new products, more and more performant and environment friendly.



SERIES	DESCRIPTION
K	Pure powders, fluorescent or for natural light, to be dispersed in liquid carrier
PK	Magnetic pastes to be dispersed in fluid oil (Kerosenoil)
PKD	Magnetic powder concentrate doses to prepare predetermined volumes of bath in fluid oil (Kerosenoil)
PAD	Magnetic powder concentrate doses to prepare predetermined volumes of bath in H ₂ O, added with surfactant, corrosion inhibitor and foam preventer (ATA FLUID) and free from nitrites
LK	Magnetic ink ready to use in fluid oil (Kerosenoil)
LA	Magnetic ink ready to use in H ₂ O
V42	Vecoplast – white contrast paint

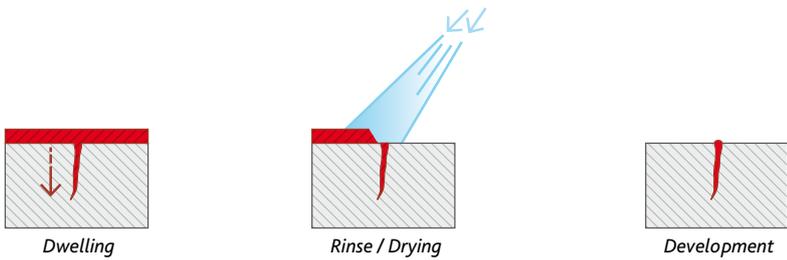




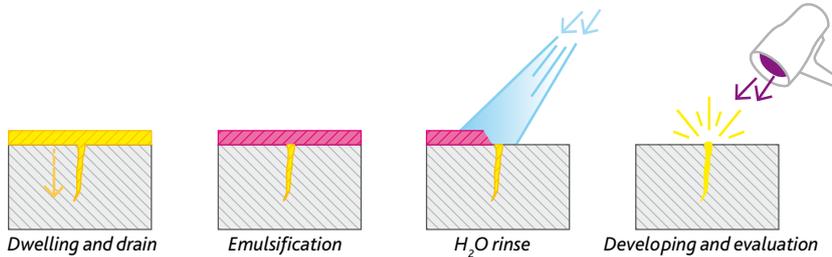
PENETRANTS

Like for the MPI products, **CGM CIGIEMME** produces the whole range of consumables for Penetrant Testing. Any product is analyzed by single batch, to grant a constantly high quality level. The absence of toxic substances in employed raw materials makes our products operator safe and environment friendly. The different sensitivity levels of the Penetrants satisfy any customer requirement:

RED WW - WATER WASHABLE RED PENETRANTS (for inspection at natural light)



MAGISGLOW - POST EMULSIFIABLE FLUORESCENT PENETRANTS (for inspection under UV light)





CGM CIGIEMME S.p.A.
Via Adda, 21 - 20073 Opera (MI)

Tel. +39 02.57600400
Fax. +39 02.57603618

www.cgm-cigiemme.com
cgm@cgm-cigiemme.it

Distributor: