METALLURGICAL TEST CENTER - MTC

- MTC center comprises a fully new workshop of 700 m² with a machining shop for sample preparation (sawing, oxygen cutting, machining, grinding, drilling and electro erosion cutting of notches are possible), a testing and a metallurgical laboratory associated to chemical analysis facilities.
- MTC center is composed of technicians and engineers with metallurgical skills and railway experience of more than 20 years.
- Wheel and axle defect analysis, steel shop process, mechanical tests can be performed in our lab.
- Steel chemical analysis, harpy impact tests, pre-cracking equipment, tensile tests and Brinell hardness, micrographic examinations are available according to the main Railway European standards EN13261, EN 13262, and testing standards as ASTM E399, EN ISO 6892-1, EN ISO 148 - 1 and ISO 6506-1.
- Accreditation according to EN ISO - 17025 in progress

CONSULTING
Product standardisation, project management, consulting in European certifications and homologations, supplier evaluation, LCC (Life Cycle Cost).

TESTING/MEASUREMENT
Non-destructive testing expertise, acoustic characterization, inspection specification.

DESIGN
Full wheelset design, acoustic studies (STARDAMP, ANSYS ABAQUS), finite element analysis, failure analysis.

METALLURGY
Metallurgical defect analysis, mechanical properties evaluation.
A wide range of Engineering services are provided by MG-Valdunes. Our technical resources are dedicated to devising innovative solutions. Many railway projects for passenger and freight rolling stock have been designed with MG-Valdunes support.

SOLUTIONS
- Extensive experience of railway products.
- Inspection & ND testing experts.
- Mechanical & metallurgical laboratories.
- Relationships with Railway companies.
- Engineering and Design Department.

AN ACTIVE RAILWAY PARTNER
- Member of the Competitive i-Trans French rail hub.
- Member of the IRT Railenium.
- Active member of many Railway Associations (FIF, AIF, …).
- Partners of collaborative Research projects (Euraxles, Stardamp, …).
- Normative expert (CEN, TSI, ISO, …).
- SwitLab laboratory.

OUR MAIN REFERENCES
- Wheelset design (worldwide).
- High Speed wheel design (Talgo, Huynndai Rotem).
- Metallurgical expertise (RATP, …).
- Non destructive testing, wheel / axle defect examination, residual stresses (Eurotunnel, Alstom, Matisa…).
- Resilient wheel design (Alstom, Bombardier, Siemens…).
- Overheated wheels NDT inspection (Matisa, Alstom, RATP, …).

OUR BUSINESS SPIRIT
INNOVATION & PERFORMANCE

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