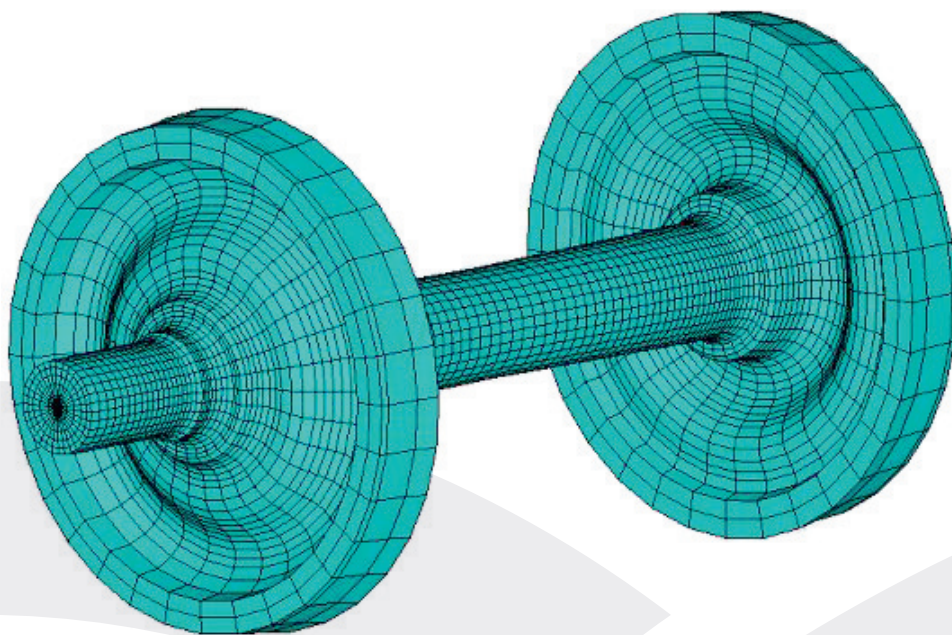
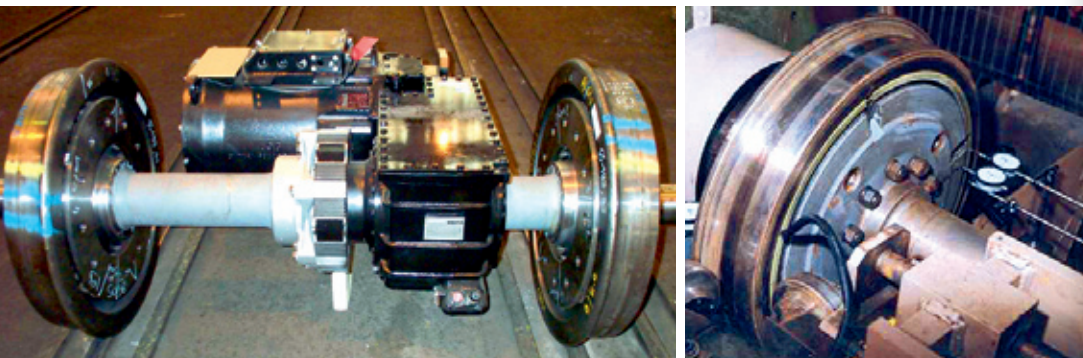


DESIGN & EXPERTISE

# ExperRail™



METALLURGICAL  
EXPERTISE

DESIGN  
& TESTING

STANDARDISATION

**CONSULTING**

Product standardisation, project management, consulting in European certifications and worldwide homologations, supplier evaluation.

**TESTING/MEASUREMENT**


Non-destructive testing expertise, acoustic characterization, inspection specification.

**DESIGN**

Full wheelset design, acoustic studies, finite element analysis, failure analysis.

**METALLURGY**

Metallurgical defect analysis, mechanical properties evaluation.

 A wide range of technical services



**GHH-VALDUNES**  
[www.ghh-valdunes.com](http://www.ghh-valdunes.com)

# ExperRail™



## BACKGROUND

A wide range of Engineering services are provided by **GHH-VALDUNES**. Our technical resources are mainly dedicated to **innovative solutions**. Many railway projects for passenger and freight rolling stock have been designed with **GHH-VALDUNES** support.

## SOLUTIONS

- Deep 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.
- Active member of many Railway Associations (ERWA, UNIFE, FIF, RWMEC, ...).
- Research Group partner (GRRT, Polytech' Lille, Centrale Paris, ...).
- Normative expert (CEN, TSI, ...).

## OUR MAIN REFERENCES

- Wheelset design (worldwide).
- High Speed wheel design (Talgo 350).
- Metallurgical expertise (RATP, ...).
- Non destructive testing on bogie.
- Resilient wheel design (Alstom, Bombardier, Siemens...).



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