Molinari Rail
Mission

«At Molinari Rail we want to use our broad technology knowledge to design cost-efficient solutions, which we integrate in the modern and attractive railway vehicles we conceive for our customers and to support the efficient operation of rolling stock.»

Michele Molinari
Owner and Chairman of Molinari Rail-Group
# Molinari Rail Competences and Services

## Consulting
- Tender and bid support
- Market and feasibility studies
- Export support
- Fleet & Workshop Management
- Build supervision
- Project & Homologation Management

## Analysis
- Feasibility studies and optimization
- Proof of structural integrity
- Crash analysis
- Planning and evaluation of tests
- Analysis of welded designs
- Simulation of railway vehicle dynamics

## Engineering
- Comprehensive design of railway vehicles
- Systems Engineering
- Mechanical and electrical systems integration
- RAMS & LCC analysis
- Electrical schematics
- Requirements management

## Systems
- Complete subsystems
- Workshop infrastructure
- Workshop and manufacturing equipment
- Turn-key projects
- Transfer of technology
- Training
Molinari Rail employs about 100 Experts, Engineers and Technicians
Long experience in all aspects of rolling stock technology, design, manufacturing and maintenance of railway vehicles and in the operation of railways
Molinari Rail has its headquarters in Switzerland and has branch offices and representations in Austria, Germany, Italy, USA, Turkey, Malaysia and Colombia.
The international clientele of Molinari Rail consist of rolling stock manufacturers, railway operators, construction companies, bancs, leasing companies, authorities, etc.
Molinari Rail has completed with great success demanding projects in the whole world: Europe, UK, CIS, China, Asia, Americas

"We are a Full-Service Engineering-Partner."
Molinari Rail
Consulting – Key Competences

«Experience as base for the right actions.»

- Tender support, Project Management, Build supervision for transportation services and rolling stock procurement
- Export support & financing
- Fleet & workshop management
- Asset Management
- Consulting for transportation systems for green/brown field projects and to improve efficiency/performance/safety
- Market analysis for all kinds of railway services and products
- Operation analysis/audit for existing rail and maintenance operations
- Simulations to optimize operation and maintenance for new/existing services
- Technical due diligence in sales and M&A projects
Molinari Rail
Engineering – Key Competences

«We are your Engineering-Partner.»

- Comprehensive system design of EMUs, DMUs, tram, locomotives, coaches
- Systems Engineering of EMUs, DMUs, tram, locomotives, passenger coaches
- Functional design according to technical, operational, economical requirements
- Requirements Management and RAMS/LCC-Engineering
- Mechanical and electrical system integration of ALL subsystems
- Electromechanical design e.g. electrical wiring diagrams, cabinets, driver’s desk
- Bogies for EMUs, DMUs, tram, locomotives, passenger coaches, freight wagons
- FEM and MBS simulation, crash worthiness according to EN and other standards
- 2D drawings, welding and manufacturing drawings
Molinari Rail
Engineering – Key Competences

Systems Engineering

Systems Integration

Detail Design

Bogies

Simulation
FEM Analysis

Electrical cabinets
Wiring Diagrams
Molinari Rail Systems – Key Competences

“We deliver what we design.”

- Turnkey supplier for design, manufacturing, assembly, commissioning and After-Sales-Service of complex subsystems for worldwide projects and delivery
- Turnkey projects for maintenance workshop infrastructure and equipment
- The Molinari One-Stop-Shop minimizes the number of interfaces for lean project delivery
Molinari Rail
References – Worldwide
Molinari Rail
Global Customers – Global Recognition

- Bombardier
- Stadler
- Siemens
- Knorr-Bremse
- Scomi
- GE Transportation
- Alstom
- SBB CFF FFS
- DB Bahn
- OBB
- RATP
- Veolia Verkehr
- MRCE dispolok
- BOB
Molinari Rail
Global Customers – Global Presence

Molinari Rail presence: Switzerland, Austria, Germany, Italy, USA, Russia, Colombia, Bolivia
Molinari Rail stands for…

- Integrity
- Independence
- Passion
- Interdisciplinary thinking
- Professional doing
- Customized solutions
- Sustainability

Molinari Rail acts…

- ... proactive
- ... transparent
- ... reliable
- ... customer oriented
- ... goal oriented
- ... focused
- ... as one team with the customer
A PASSION FOR RAILWAY SOLUTIONS

Technologies for the most sustainable mode of transport

Made by Molinari