

| ROLLING STOCK | BY TYPE | VEHICLE & VEHICLE SUB-EQUIPMENT |
|--|--|---|
| ARGOS ENGINEERING S.r.l. | High Speed Conventional Main Line Commuter and Regional Trains Metro LIV (tram) Freight Locomotive | Air Conditioning System (HMC) and Components Door Systems Brake & Compressor System Traction System Pantograph Systems Gear Box Passenger Information System Chassis & Car Body System Metal Heavy Carpentry Metal Light Carpentry Mechanical Machining Components Raw Parts (foundry) |
| BEDIMENSIONAL S.p.A. | | Innovative High-Performance Materials Interior and External Design Inners and External Body Parts Manufacturing High Performance & Special Coatings Pneumatic On-board Components Electrical On-board Installation Electrical Cabinets and Panels Electronic On-board Systems Electronics Systems Design On-board Diagnostics Systems Fire Protection Systems On-board Signalling Systems Communication & Positioning Systems On-board Sensors Cybersecurity of On-board Systems Painting and Surface Treatment Baggage System Wheels / Wheelsets Axies Wheel Axle Systems Coupler System Vehicle Rubber Components Battery Auxiliary Power System Wagon and Part Production Predictive Maintenance Maintenance & Repair Remote Maintenance Technologies Space Parts Reaming & Refinishing Electric, Electronics, Electromechanics Supply and Assembly Mechanical, Pneumatic & Hydraulic Systems Supply and Assembly |
| CAMOZZI GROUP S.p.A. | | |
| CAMPANELLA COSTRUZIONI MECCANICHE S.r.l. | | |
| CENTRO RICERCHE E ATTIVITÀ INDUSTRIALI S.r.l. | | |
| CIESSE S.p.A. | | |
| CNR NATIONAL RESEARCH COUNCIL OF ITALY | | |
| ECM S.p.A. | | |
| ELFI S.r.l. | | |
| ENGINEERING INGEGNERIA INFORMATICA S.p.A. | | |
| ENGINSOFT S.p.A. | | |
| EURO.FI S.r.l. | | |
| FONDAZIONE PER LA RICERCA E L'INNOVAZIONE - UNIVERSITY OF FLORENCE | | |
| FRETLESS IDEA S.r.l. | | |
| HITACHI RAIL S.p.A. | | |
| I.S.E. INGEGNERIA DEI SISTEMI ELETTRONICI S.r.l. | | |
| INTECS SOLUTIONS S.p.A. | | |
| KNORR-BREMSE RAIL SYSTEMS ITALIA S.r.l. | | |
| LINKS FOUNDATION | | |
| LUCCHINI S.p.A. | | |
| MONT-ELE S.r.l. | | |
| NUOVA I.T. S.r.l. | | |
| OFFICINE MARIO DORIN S.p.A. | | |
| PROSE S.r.l. | | |
| RESILTECH S.r.l. | | |
| RGM S.p.A. | | |
| SITAE S.p.A. | | |
| STM ENGINEERING S.r.l. | | |
| TECHAU TRANSPORT DIVISION S.r.l. | | |
| THALES ITALIA S.p.A. | | |
| TT TECNOSISTEMI S.p.A. | | |
| UNIKA S.p.A. | | |
| VAR GROUP S.p.A. | | |
| VDS RAIL S.r.l. | | |
| ZANARDI FONDERIE S.p.A. | | |

| INFRASTRUCTURE & SIGNALLING | BY TYPE | INFRASTRUCTURE & SIGNALLING |
|--|--|--|
| ARGOS ENGINEERING S.r.l. | High Speed Conventional Metro LIV & Tramway Construction Direction Construction Works Electrical Works Steel Construction Systems for Galleries Maintenance Activities & Technologies for Remote Maintenance Predictive Maintenance Sensors & Big-data Analysis | Air Conditioning System (HMC) and Components Escalator - Elevator Installation High Performance Cables & Harness Signalling Systems Safety Control Systems Power Systems Energy Distribution Systems Cabinet - Panel Production Communication Ticketing & Turnstile Systems Security Systems Cybersecurity of Way-side Systems Automation and Control Traffic Management Systems Railway Operation Services Inspection systems Railroad Vehicles Electrical Works and Equipment Rail Works Railway Materials Rail Lubrication Components Mobile Mixing Plants for Concrete Production Concrete Sleepers Precision Cutting Machines |
| BEDIMENSIONAL S.p.A. | | |
| BLEND PLANTS (FBG S.r.l.) | | |
| CAMPANELLA COSTRUZIONI MECCANICHE S.r.l. | | |
| CENTRO RICERCHE E ATTIVITÀ INDUSTRIALI S.r.l. | | |
| CNR CONSIGLIO NAZIONALE DELLE RICERCHE | | |
| COMESA S.r.l. | | |
| D&T S.r.l. | | |
| ECM S.p.A. | | |
| ELETTI-FER S.r.l. | | |
| ENGINEERING INGEGNERIA INFORMATICA S.p.A. | | |
| FONDAZIONE PER LA RICERCA E L'INNOVAZIONE - UNIVERSITY OF FLORENCE | | |
| HITACHI RAIL S.p.A. | | |
| IDS INGEGNERIA DEI SISTEMI S.p.A. | | |
| INTECS SOLUTIONS S.p.A. | | |
| LINKS FOUNDATION | | |
| MONT-ELE S.r.l. | | |
| NICCHERI TITO S.r.l. | | |
| NUOVA I.T. S.r.l. | | |
| OFFICINE MARIO DORIN S.p.A. | | |
| PROSE S.r.l. | | |
| RESILTECH S.r.l. | | |
| RGM S.p.A. | | |
| S.I.C.E. DI ROCCHI ROBERTO & C. S.N.C. | | |
| SINTAGMA S.r.l. | | |
| SITAE S.p.A. | | |
| STM ENGINEERING S.r.l. | | |
| TE.SI.FER. S.r.l. | | |
| TECHAU TRANSPORT DIVISION S.r.l. | | |
| THALES ITALIA S.p.A. | | |
| TT TECNOSISTEMI S.p.A. | | |
| UNIKA S.p.A. | | |
| VAR GROUP S.p.A. | | |

| ADDITIONAL RAIL COMPETENCES | DESIGN PROJECT & PRODUCT DEVELOPMENT | QUALITY | SOFTWARE PRODUCTS | SIMULATORS | R&D | LABORATORIES (OWNERS) |
|--|---|--|---|---|--|---|
| ARGOS ENGINEERING S.r.l. | Engineering & Consultancy Simulation Software Development RAMS Analysis Manual Drafting | Certification / Homologation Vehicle & Equipment Test Quality & Supervision Verification & Validation Training for Railway Industry Professionals Auditors for Company Certifications (ISO, DIN/AS, ex-IBS, etc.) | Personnel, Assets & Service Planning Personnel, Assets & Service Control Data Exchange & System Integration | Driver Training Simulators Interlocking Simulators Crowd Dynamics Simulation Train Performance Calculation Studies on Electrification | Scientific Bodies Internal R&D Patents ownership | Railway Stock, CDS and Infrastructure Tests and Homologation Acoustic Certification, Tests and R&D Dynamic Modelling and Mechanisms (MM Lab) Urbicam Test with Real Conditions Design of Railway Vehicle Lab (DIT) Telecommunications and Telematics Data-based Systems, Data Intelligence and Internal Technologies (DSIT Lab) Industrial Engineering (IENF) Human Interface in Information Systems (HIS) Ergonomics Labs Mechanics of Materials and Structures (MMS) Signals and Images (SI) Wireless Networks (WN) Software Engineering and Dependable Computing Laboratory (SDC) System and Software Evaluation Center (SEC) Diagnostic Imaging (DI) Electronics for Real Time Applications (ELETRA) Advanced Computing and Applications Data Science for Industrial & Social Applications Promotes & Wireless Solutions Space & Navigation Technologies Urban Mobility & Logistics System Artificial Intelligence (AI) Energy / Creative Economy & Sustainable Living Industry 4.0 |
| BEDIMENSIONAL S.p.A. | | | | | | |
| BLEND PLANTS (FBG S.r.l.) | | | | | | |
| CAMOZZI GROUP S.p.A. | | | | | | |
| CENTRO RICERCHE E ATTIVITÀ INDUSTRIALI S.r.l. | | | | | | |
| CFF-CENTRO DI FORMAZIONE FERROVIARIA | | | | | | |
| CIESSE S.p.A. | | | | | | |
| CNR CONSIGLIO NAZIONALE DELLE RICERCHE | | | | | | |
| COMESA S.r.l. | | | | | | |
| D&T S.r.l. | | | | | | |
| ECM S.p.A. | | | | | | |
| ELFI S.r.l. | | | | | | |
| ENGINEERING INGEGNERIA INFORMATICA S.p.A. | | | | | | |
| ENGINSOFT S.p.A. | | | | | | |
| EURO.FI S.r.l. | | | | | | |
| FONDAZIONE PER LA RICERCA E L'INNOVAZIONE UNIVERSITY OF FLORENCE | | | | | | |
| FRETLESS IDEA S.r.l. | | | | | | |
| HITACHI RAIL S.p.A. | | | | | | |
| I.S.E. INGEGNERIA DEI SISTEMI ELETTRONICI S.r.l. | | | | | | |
| IDS INGEGNERIA DEI SISTEMI S.p.A. | | | | | | |
| INTECS SOLUTIONS S.p.A. | | | | | | |
| ITALCERTIFER S.p.A. | | | | | | |
| ITS PRIME - PRODUCTION OF RAILWAY SYSTEMS | | | | | | |
| LINKS FOUNDATION | | | | | | |
| KNORR-BREMSE RAIL SYSTEMS ITALIA S.r.l. | | | | | | |
| LINKS FOUNDATION | | | | | | |
| LUCCHINI S.p.A. | | | | | | |
| MONT-ELE S.r.l. | | | | | | |
| OFFICINE MARIO DORIN S.r.l. | | | | | | |
| PROSE S.r.l. | | | | | | |
| RESILTECH S.r.l. | | | | | | |
| RGM S.p.A. | | | | | | |
| S.I.C.E. DI ROCCHI ROBERTO & C. S.N.C. | | | | | | |
| SINTAGMA S.r.l. | | | | | | |
| SITAE S.p.A. | | | | | | |
| STM ENGINEERING S.r.l. | | | | | | |
| TE.SI.FER. S.r.l. | | | | | | |
| TECHAU TRANSPORT DIVISION S.r.l. | | | | | | |
| THALES ITALIA S.p.A. | | | | | | |
| TT TECNOSISTEMI S.p.A. | | | | | | |
| UNIKA S.p.A. | | | | | | |
| VAR GROUP S.p.A. | | | | | | |
| VDS RAIL S.r.l. | | | | | | |
| ZANARDI FONDERIE S.p.A. | | | | | | |
| ZETA LAB S.r.l. | | | | | | |

INFRASTRUCTURE & SIGNALLING

ADDITIONAL RAIL COMPETENCES

ROLLING STOCK