



**ITALIAN RAILWAY
TECHNOLOGY**

at IRAN RAIL EXPO 2016



**ITALIAN
PAVILION**

**ITALIAN COMPANIES
PROFILES**

HALL 10-11



15 - 18 MAY 2016



 **RAILEXPO 2016**
4th International Exhibition of Transportation & Rail Industry





**ITALIAN RAILWAY
TECHNOLOGY** at IRAN RAIL EXPO 2016

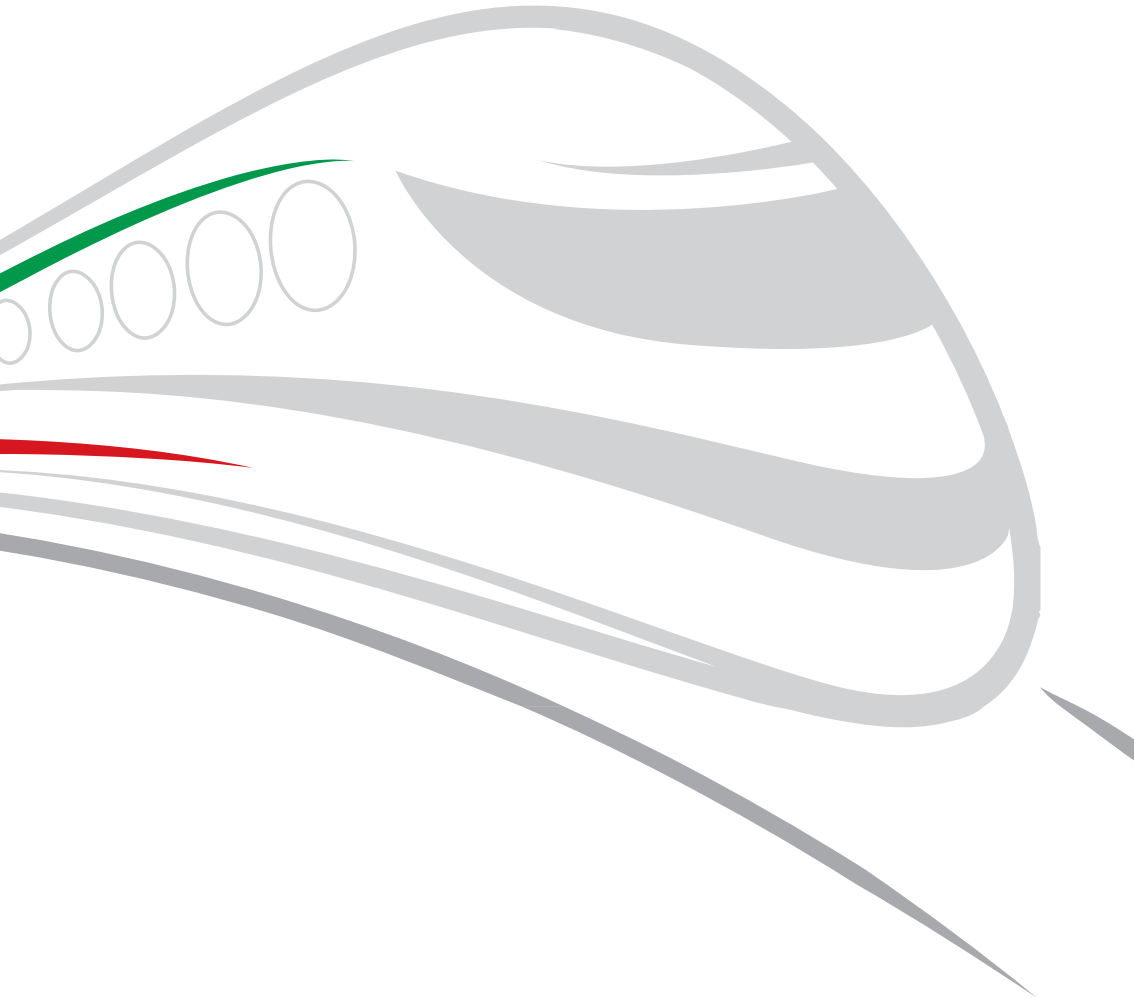


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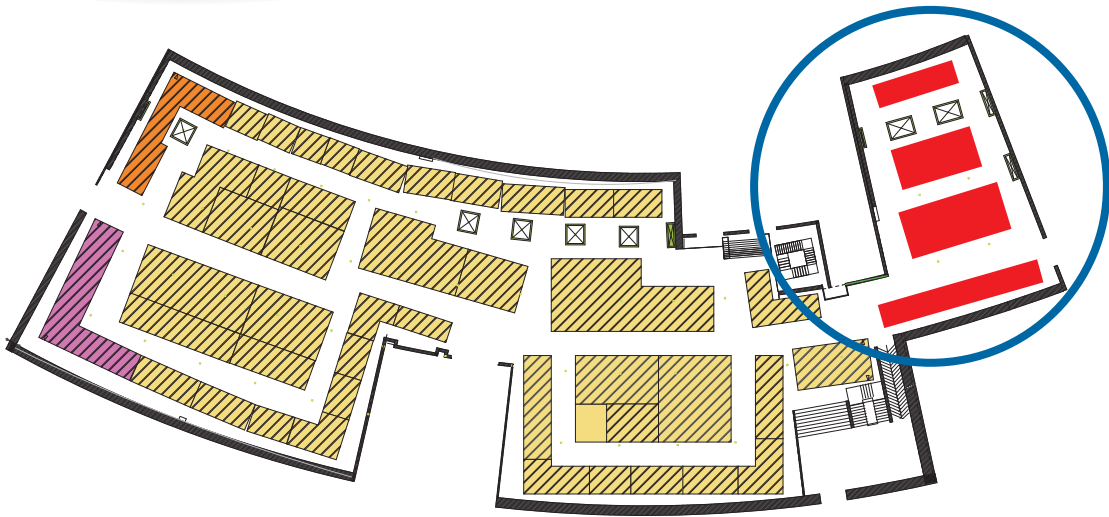


ITALIAN RAILWAY
TECHNOLOGY

TEHRAN
EXHIBITION
CENTRE







43A SYSCO S.p.A.	43B LUCCHINI RS S.p.A.	43C ABET LAMINATI S.p.A.	FCE Group
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HALL 10 - 11

FEDERAZIONE
ANIE
ANIE
ASSIFER

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LETTER FROM THE ANIE VICE PRESIDENT FOR INTERNATIONALIZATION



Federazione ANIE - the Federation representing in Italy the Electrical Engineering and Electronic Industry - supports the participation of Italian companies at Iran Rail Expo 2016, the leading exhibition in the Country for railways technologies.

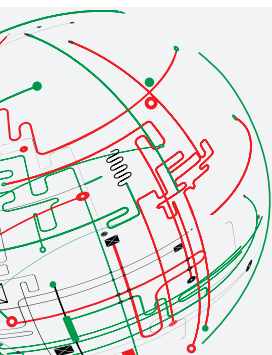
The Italian Electrical Engineering and Electronic Industry represented by ANIE is a driver of innovation in strategic sectors such as energy, building, industry and transport. In particular, the Italian Industry supplying technologies for Railway and Electrified Transport is represented within the ANIE System by the Association Assifer, which has more than 100 Member Companies. The sector in Italy, with a global turnover of 3.4 billion euros in 2015 and 1.4 billion euros in export, is characterized by a wide range of specialized companies offering, thanks to intensive investment in Research and Development, highly innovative and tailor-made solutions, to improve efficiency in rail infrastructures.

During last years the Italian companies acquired a strong manufacturing experience dealing with the need to upgrade the national infrastructures, from rolling stock to protection and control system, from electrification to High Speed Rail grid. New technologies play a key role in the modernization of railways market, enabling smarter, safer and greener transport services.

Promoting the Italian participation to this exhibition and presenting the excellence of Made in Italy is the aim of this catalogue, which collects the profiles of all the Italian companies - technology providers and transport operators - exhibiting at this edition of Iran Rail Expo.

A handwritten signature in black ink, appearing to read 'Andrea Maspero', written in a cursive style.

Andrea Maspero
ANIE Vice President for Internationalization



Federazione ANIE is a Confindustria member representing the Electrical Engineering and Electronic companies operating in Italy. ANIE, with over 1,500 Member Companies, represents the following industrial sectors: Power Production, Power Transmission and Power Distribution, Electrified Transports, Lifts and Escalators, Lighting, Cables, Components and Devices for Electrical Installation, Household Appliances and Catering Equipment, Electronic Components, Factory and Process Automation, Security, Fire Safety and Building Automation, Industrial Plant Engineering.

Italian Electrical Engineering and Electronic Industry in figures for 2015:



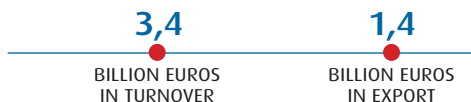
Italian Industrial Plant Engineering Industry in figures for 2015:



ANIE Assifer

ANIE Assifer, with over 100 Member Companies, is the Association that, within Federazione ANIE, represents the Italian manufacturing Industry supplying technologies for Railway and Electrified Transport. ANIE Assifer represents the following industrial segments: Electric and Diesel Locomotives, Electric Trains, Carriage, Freight Wagons, Tramways, Subways, Signalling and Telecommunication systems, Railway electrification.

Italian Electrified Transports Industry in figures for 2015:



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Contact • Marco Galimberti



ITALIAN RAILWAY TECHNOLOGY at IRAN RAIL EXPO 2016

ITALIAN COMPANIES PROFILES
HALL 10-11





Ferrovie dello Stato Italiane Group is an industrial holding managing the Italian railway sector and operating in 5 continents (more than 60 Countries) through its subsidiaries focused on specific businesses, mainly Trenitalia - rail transport, Rete Ferroviaria Italiana - railway infrastructure manager, Italferr - engineering company, Italcertifer - Notified Body certifying railway systems and components. The Group employs about 69,000 persons and operates more than 8,000 trains per day, carrying over 600 million passengers and 50 million tons of freight per year, managing a railway network of more than 16,700 km. FS Italiane Group has achieved revenues of € 8.6 billion in 2015, with a net result of € 464 million and an EBIT margin of 7.5%. Ferrovie dello Stato Italiane Group, with its technical and managerial railway expertise, widely recognized at international level, is one of the most advanced worldwide player in many fields, such as design and realization of High Speed and Conventional Lines, Safety Systems, Certification, Training and Operation and Maintenance.



FERROVIE DELLO STATO ITALIANE S.p.A.

Piazza della Croce Rossa, 1 • 00161 Roma • Italy

www.fsitaliane.it

www.fsitaliane.it/fsi/misc/Contatti

www.trenitalia.com

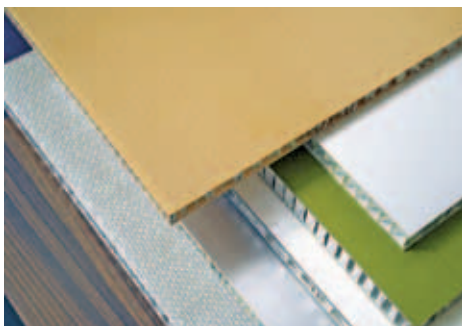
www.rfi.it

www.italferr.it

www.italcertifer.it



Metalleido Composite Panels - merged on 1st January 2015 into **Abet Laminati** - the company founded in Bra (Italy) in the end of the 1950s, now one of the world's leading manufacturers of decorative laminate, is a leader, both nationally and internationally, in the production of composite panels with a honeycomb or Nomex core. Metalleido is constantly engaged in the research to offer state-of-the-art products.

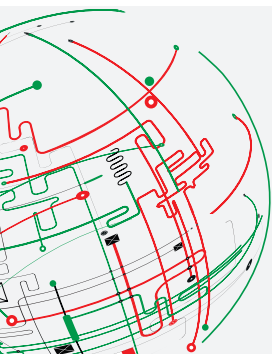


Metalleido Composite Panels

Products:

Esacore: panel made with an aluminium honeycomb core covered with aluminium skins, different types and thicknesses (Esacore AL, Esacore AL AN, Esacore AL PU, Esacore AL ST, Esacore AL VP, Esacore LF, Esacore NX, Esacore NX ST, Esacore STT).

Monocore®: sandwich panel made with full three-dimensional fibreglass impregnated with phenolic resin, patented and mass-produced by Metalleido Composite Panels (Monocore 3D - Monocore 3D FP - Monocore 3D ST).



ABET LAMINATI S.p.A.

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Ansaldo STS is a leading international technology company specialised in Railway Signalling and Integrated Transport Systems for Mass Transit and Passenger and Freight Rail Operations. Ansaldo STS plans, designs, manufactures, installs and commissions signaling components, systems and integrated mobility solutions for the management and control of new and upgraded Railway, Transit and Freight lines worldwide; and acts as a lead contractor and turnkey provider on major projects worldwide. Ansaldo STS has made its mark in the Rail Industry by implementing leading-edge technologies in major projects.



Driverless UTO Metro



Satellite Technologies

Products:

ERTMS/ETCS solutions combined with high speed rail, conventional lines and heavy haul technologies for safer and interoperable networks, satellite positioning technology for safer and more accurate rail traffic management, CBTC and driverless technologies on complex or single metro networks to reduce headways and improve operational efficiency, catenary free combined with tramway technology (TramWave®) to preserve the environment and historical city centers.

ANSALDO STS S.p.A

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AXIST

Axist was founded in 2001 to meet the specific market demand for quality control as a supplier of dimensional measurement services. The company is specialised in applications based at its clients' premises, equipping itself with a range of portable instruments and specific skills in order to undertake this kind of work. Ever since its foundation, the company had two headquarters: one in Northern Italy (in Turin) and one in Southern Italy in order to ensure rapid intervention and lower travel costs. At present, Axist has branches or partnerships in Romania, France and Abu Dhabi. The industrial sectors handled are Aviation, Automotive, Railway, Aerospace, Steel, Energy, Nuclear, Naval and Petrochemical. Especially into this sector Axist has introduced methods and instruments typical of other industries, resulting in a significant reduction in timescales and consistent improvements in terms of measurement precision. For many years the company is certified ISO/EN 9001.



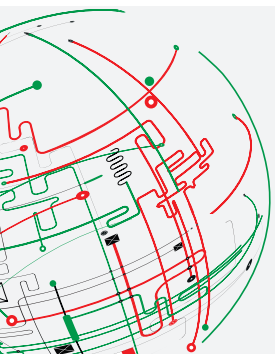
Dimensional inspection



T-Probe-Laser tracker

Products:

Dimensional Inspection.



AXIST S.r.l.

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Established in 1936 by Pietro Ceccato, **Ceccato S.p.A.** is committed to provide excellence with Made in Italy design and technology, friendly environment and energy efficiency. Ceccato's goal is to be among the world leaders in supplying cleaning solutions for all type of vehicles, using the most possible advanced technology that makes people comfortable. With ISO 9001 Certification, Ceccato's production capacity is 1,200 units/year per shift with a covered surface of 15,000 sqm. With over 25,000 working units worldwide and over 100 million cars washed every year worldwide on units, among customers of Ceccato there are most of the major European car manufacturers as well as the major petrol companies worldwide.



Products:

Vehicle washing product range: rolover, tunnel/conveyors, truck and bus wash, train/metro washing systems, garbage truck, special vehicles and mine caterpillars washing systems, jet bays, water treatment, accessories.

CECCATO S.p.A.

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Fax +39 0444 708405

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www.ceccato.it

Contact • Stefano Dal Maso





CPA ELETTRONICA S.r.l.

Since 1989 **CPA ELETTRONICA S.r.l.** is a company specialised in the Railway Sector for design manufacture, installation and maintenance of HVAC systems, electrical systems, electrical panels, driver desks, electronic cards, lighting, on-board equipment, fire fighting system. CPA ELETTRONICA S.r.l. works with the most important railway companies like Bombardier, Alstom, Hitachi, Titagarh-Firema-Adler, Knorr-Bremse, Durmazlar, Trenitalia. CPA ELETTRONICA S.r.l. is certified UNI-ISO9001 and IRIS.



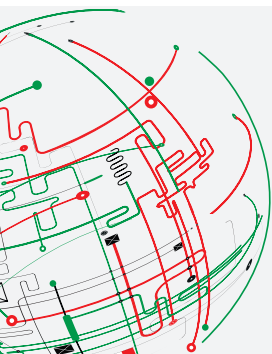
Driver desks



HVAC systems

Products:

HVAC systems, electrical systems, electrical panels, driver desks, electronic cards, lighting and on-board equipment systems and fire fighting systems for technical cabinets and passengers area.



CPA ELETTRONICA S.r.l.

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www.cpaelettronica.it

Contact • **Lorenzo Bitossi**

DITECFER is the consortium R&D-led composed by 32 companies and 3 research bodies specialised in Rail Technologies. DITECFER Companies represent the entire Rail Supply Chain: rolling stock, signalling and control systems, infrastructure, certification and homologation. Thanks to R&D activities, DITECFER Companies can easily integrate their competences in order to provide reliable solutions to critical issues such as the challenges of environmental sustainability and hostile climatic conditions.

DITECFER Companies at Iran Rail Expo:

Argos Engineering (Rolling stock design, prototype, innovative interiors) • Contact • Argeo Bartolomei
abartolomei@argosengineering.it

ECM (ERTMS/ETCS, computer based interlocking, power supply systems) • Contact • Daniele Matteini
• Guido Ancarani • commerciale@ecmre.com

Elettri-Fer (Electric traction, energy production/distribution, TLC) Contact • Sauro Braccini • Duccio Dogi
• sauro@elettri-fer.it

PROSE (Rolling stock engineering, bogie design, safety critical systems) • Contact • Riccardo Loni
riccardo.loni@prose.one

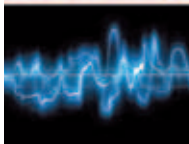
Tecnau Transport Division (SCADA systems, signalling, system integration) • Contact • Giuseppe Cali • Giuseppe Docile • g.cali@tecnaui.it

Z Lab (Acoustics & vibrations analysis and tests, RAMS analysis, V&V) • Contact • Antonio Scofano
a.scofano@zeta-lab.it

DITECFER Companies exhibiting
at Iran Rail Expo



The products: from rolling stock engineering and innovative interiors to acoustic analysis and tests; from signalling to power supply and electrification.



DITECFER (District for Rail Technologies, High Speed, Safety & Security)

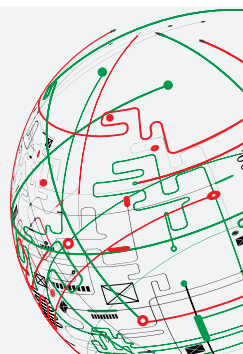
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coordinatore@ditecfer.eu

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Contact • Veronica Elena Bocci



HITACHI

Inspire the Next

Hitachi Rail Italy is the most important railway vehicles manufacturer in Italy, part of Hitachi Rail Europe. Hitachi Rail Italy has extensive experience in the railway and urban sectors as a result of the integration of multiple skills, related to the historical evolution of the company, that allow to design and manufacture state-of-the-art products. Hitachi Rail Italy aims to develop highly innovative technological solutions and is able to respond to the evolving mobility needs in terms of safety, design and comfort.



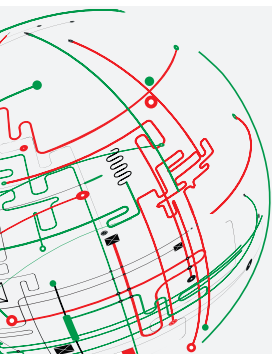
ETR 1000



Driverless Metro Milano

Products:

Among the leading products: the new high speed train currently in operation in Italy, the ETR 1000, and the innovative driverless metros in the cities of Milan, Rome, Taipei, Riyadh, Copenhagen, Honolulu, Thessaloniki and Lima. Wide experience also in the traditional metros and in the regional double-deck trains.



HITACHI RAIL ITALY S.p.A.

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Contact • Alessio De Sio • Barbara Barontini



Isotta Fraschini Motori
a **FINCANTIERI** Company

A Fincantieri Company, **Isotta Fraschini** is a company with advanced technology in the history of Italian industry. Specialised in the production of high speed diesel engines excellent power to weight ratio. Since 1904 Isotta Fraschini has been producing engines for various applications: from the railway, marine and aeronautic. A modern and full range of engines, with outputs from 200 to 3,600 hp for rail traction marine and power generation applications, based on the 1300 and 1700 engine families. Isotta Fraschini brand, for the maximum commitment of men and resources with state of the art production processes, has a strategic mission to accept new challenges being presented by the market. Being part of Fincantieri, today Isotta Fraschini Motori S.p.A. is always more a diesel systems provider rather than only a diesel engine supplier.



Engine V 1712 T3A



Engine VL 1716C2

Products:

High speed diesel engines from 200 kw to 2500 kw.

ISOTTA FRASCHINI MOTORI S.p.A.

Via F. De Blasio Z.I. • 70123 Bari (BA) • Italy

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Fax +39 080 5311 095

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www.isottafraschini.it

Contact • **Fabio Berton** • **Vincenzo Perri**



Since 1974 **La Celsia S.a.s.** has been a company leader in designing, manufacturing and marketing of sintered electrical contacts and electromechanical spare parts for electrical switching devices, transformation and distribution of electricity (disconnectors, switches, combiners, high-speed circuit breakers and electrical machines). The company through the deep and strong experience also plays a revision and regeneration of contacts and complex electrical devices. Production of rigid and flexible electrical connections of any shape and size. Manufacturing of insulating spare parts and fireplaces for switching device.



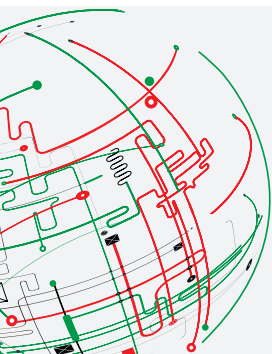
*Finger clamp power contact
for 4,000 Amp. disconnector*



*Arching and power sintered contacts
for high speed circuit breaker*

Products:

Electrical contact, sintered electrical contacts, sintered materials, contacts for combiners, finger clamp contact for medium high currents disconnector, spare parts for electrical machines, tailored spare parts for switches and electrical devices, earthing connection, flexible connections, rigid connections, service of electrical switching device, revisions of component, regeneration of spare parts and contacts, metallic and insulating accessories for electrical devices, insulating fireplaces.



LA CELSIA S.a.s.

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Contact • Elisa Bacchetta

From its works, on the western shore of Iseo Lake (Italy), **Lucchini RS Group** designs, manufactures and develops high technology solutions for the Railway sector, as well as other steel products for a variety of industry markets.

In 1856 the Company was officially established and since 1908 it has been manufacturing railway rolling stock.

In 2007 a great investments program was launched to completely renew the manufacturing facilities in Italy and to further expand abroad.

Today Lucchini RS Group is a world-class leader in providing integrated solutions for the Railway Industry (from High Speed Railway to Urban and Suburban Transport).



Products:

Wheelsets, wheels, tyres, axles, design, R&D, integrated maintenance, non-destructive testing.

LUCCHINI RS S.p.A.

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Contact • Riccardo Pasinetti • Giorgio Bagnaschi



Mont-Ele is a System Integrator for complete conversion substations for railway, tramway and metro applications (3kVdc, 750-1500Vdc) designing and manufacturing its "Railway Energy" switchboards: rectifiers, feeders, disconnecting switches. The company develops automation and Scada systems, integrating our own protection relays.

Mont-Ele realizes customized solutions following the customer from design to implementation.

Mont-Ele proposes itself as reliable partner for traction power supply projects.



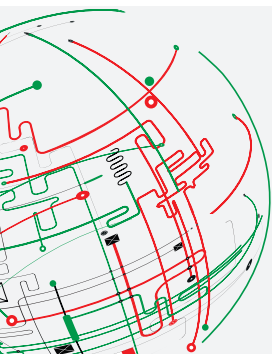
DC SWITCHGEAR 500-750-1500Vdc up to 6000A



RECTIFIER UNIT up to 8MVA

Products:

DC traction conversion substation (fixed or in transportable prefabricated boxes), traction switching units (in transportable prefabricated boxes), DC metal clad switchboards for railway, metro, tramway, 750-1500-3000Vdc rectifier units, DC feeder cubicle, disconnecting switches, two-pole disconnector and filter unit, safety system for tunnels, automation, control and scada system, transducers, DC multifunction protection relays.



MONT-ELE S.r.l.

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Fax +39 0362 851555

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www.mont-ele.it

Contact • Fabrizio Maggioni • Tamara Mazzariello

Poseico Group is a leader in the high power semiconductors market that provides services dedicated to research, design, manufacturing, trade of high power semiconductors and power electronic converters. In a later stage, a development plan aimed at diversify its activities in different sectors has been defined, transforming Poseico S.p.A. into a global provider of products and services that can assist its clients in a wide range of sectors such as Energy, Transport, Dams, Water Resources, Industry.



Rectifier Unit for Metro Application



Press Pack Semiconductors

Products:

Diodes, thyristors, GTO and IGBT discrete power semiconductors, high power modules, heatsinks and cooling systems, power converters and components for DC traction substations, maintenance service, electrical systems, renewable energy systems, thermomechanical systems, seismic and structural engineering, geotechnical engineering, siting, risk analysis and operability assurance (RAMS), HSE studies.

POSEICO Group

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www.poseico.com

Contact • Danilo Cinarelli



Prysmian Group

Prysmian Group is world leader in the energy and telecom cables and systems industry. With almost 140 years of experience, sales of about € 7.5 billion in 2015, over 19,000 employees across 50 Countries and 88 plants, the Group is strongly positioned in high-tech markets and offers the widest possible range of products, services, technologies and knowhow. Prysmian is a public company, listed on the Italian Stock Exchange in the FTSE MIB index.



Cables for railway applications

Products:

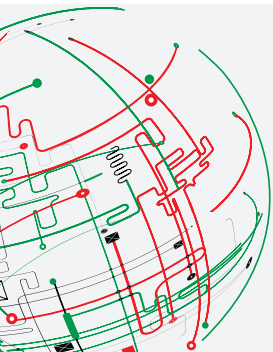
TERAIL power: railway and underground cables

TERAIL signalling: railway and underground cables

TERAIL communication: railway and underground cables

MOVIS GKW: rolling stock cables

TEROL: rolling stock cables.



PRYSMIAN S.p.A.

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marketing.energy@prysmiangroup.com

www.prysmiangroup.com

Contact • Mario Pedretti • Andreas Nolte



Since 1994 **SIRMU-mt** is specialised in the manufacturing of machine tools of high technology and quality suitable for machining components for Railway, Nuclear, Oil & Gas, Aeronautic-space and General Mechanics sectors. SIRMU-mt develops all its project closely collaborating with the customers, aiming to propose and optimize solutions that suit specific machining and requirements needed with the main goals of increasing productivity, cost reduction and end user's satisfaction.



Standalone machine for rouging, finishing and drilling operation



Wheel machining: automatic production line with handling system portal type

Products:

Railway sector: wheel machining roughing, finishing, turning milling and drilling operations, horizontal lathe for axle machining, roughing and finishing operation, wheel set reprofiling horizontal lathe, automatic production line for wheel and axles.

Nuclear and Oil & Gas sector: horizontal deep hole drilling machine.

Aeronautic-space and General Mechanics sector: vertical lathes between 1000-8000mm turning diameter; vertical turning and milling center with Y axis.

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Sysco S.p.A is a company structured into three main business units: electro-mechanical, technological systems and products and systems division. This unit is synonymous of design, production, installation and maintenance of various types of equipment for Passenger Information Display System PIDS. The constant attention given to the selection of materials, the continuous monitoring of IT scenarios, the frequent tests and trials allow Sysco to offer clients a package with the best market standards in terms of safety, quality and reliability. Sysco systems division is able to study, develop and implement, within a suitable time, new equipment design based on specific customer requirements; it has got a complete structure of mechanical design, electronics and software that can create innovative equipment dedicated to specific respondents - including remote management. It provides support for continuing assistance for the entire life cycle of the equipment installed. PIDS are installed throughout the Country with over 300 sites in operation.



Equipment for Passenger Information Display System PIDS



Installation team of Technological Plants, Electrical Panel and Converter

Products:

LED and LCD/TFT technology: display information, monitor, totem, boards, bands, kiosks, city information sign, other (eg LED lighting) for public information, advertisements, LED lighting for buildings and tunnels, LED street lamps in the streets, rail stations, airports and tunnels.



SYSCO S.p.A.

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Contact • Luca Luciani • Simone Caporale



Identification and protection systems, based on adhesive films: **TACK SYSTEM** provides the materials, but also specific expertise which enables it to support customers from design to the finished product and application. TACK SYSTEM offers itself as a partner for the definition of products, the drafting of technical specifications, the applicators training or supply of turnkey solutions. Each stage of the process takes place in its own factory: TACK SYSTEM assembles the different layers that make up the self-adhesive film according to performance that this must guarantee. Printing, cutting and packaging are also carried out internally to ensure in-time delivery of ready application kit, complete with every detail of the liveries and the functional and safety inscriptions.



Products:

Institutional and advertising liveries for train coaches and locomotors, functional inscriptions, descriptive and safety labels, wrapping of internals and externals with anti-graffitis protections and windows glasses protections.

TACK SYSTEM S.r.l.

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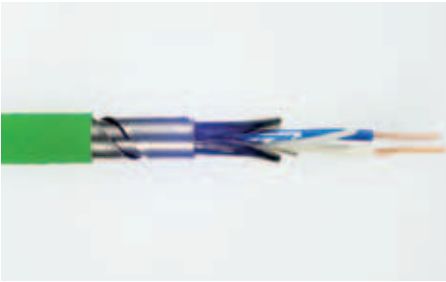
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Since 1978 **TecniKabel** has been designing and producing special electrical and optical cables, with an extensive range of products suitable for different applications. Constant commitment to quality has awarded TecniKabel approval from American and European Authorities, complying with the most demanding international manufacturing and quality standards (IMQ CSQ through UNI EN ISO 9001:2008, ISO 14001:2004 and IRIS REV.2) Divisions: Railways, Oil Gas & Petrochemicals, Telecommunication, Optical, Automation, Submarine, Healthcare, Audiovideo, Naval, Green Energy, Defense, Hybrid.



SCMT System 1x2x0,9 High Magnetic Permeability



*Railway Armoured (H6)
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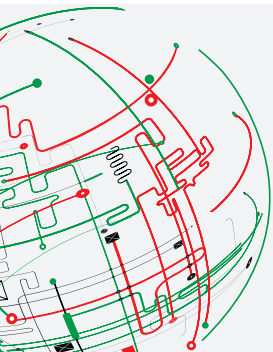
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Rolling stock cables: DIN 5510, EN 45545-2, BS 6853, NFPA130, EN 50306/50264/EN 50200.

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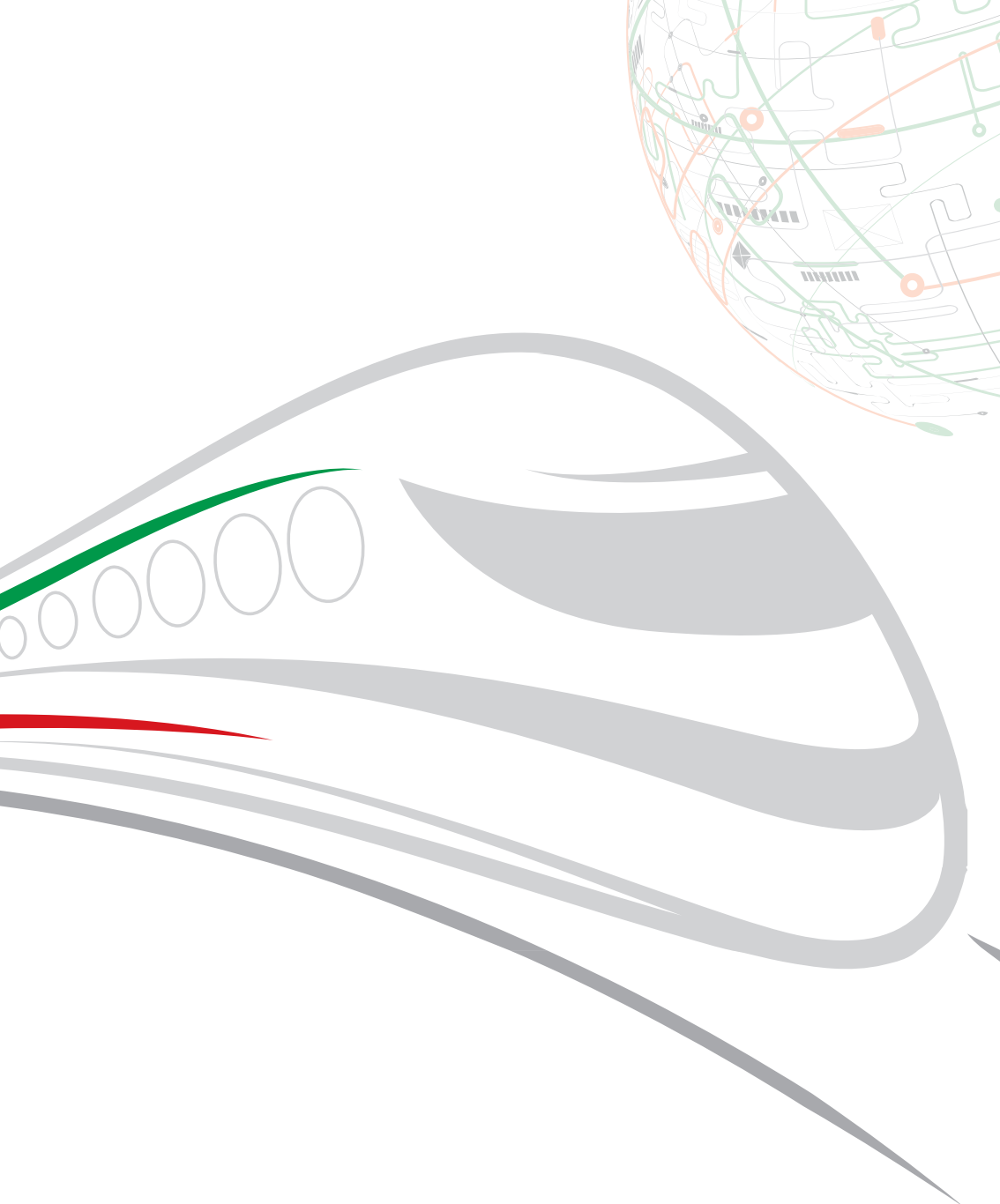
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