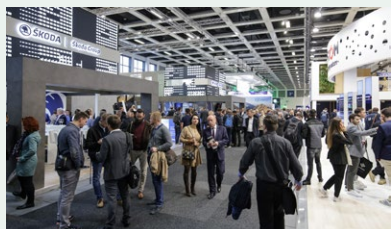
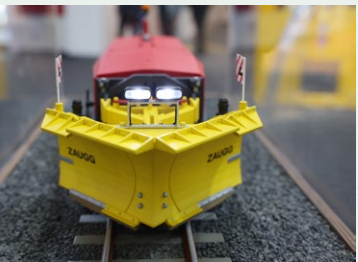




InnoTrans 2024

Berlín, 24 al 27 de septiembre

Railway Technology, Railway Infrastructure, Public Transport, Interiors, Tunnel Construction.



ALSTOM

Innovando para una movilidad más sostenible e inteligente

Alstom muestra en InnoTrans su compromiso para contribuir a un futuro con bajas emisiones de carbono, desarrollando y promoviendo soluciones de transporte innovadoras y sostenibles en las que los pasajeros disfrutan viajando. Desde trenes de alta velocidad, metros, monorraíles y tranvías, hasta sistemas integrados, servicios personalizados de mantenimiento, infraestructuras, soluciones de señalización o movilidad digital, Alstom ofrece a sus distintos clientes la cartera más amplia del sector.

Hall 3.2 – Stand 450

Innovating for a more sustainable and smarter mobility

Alstom showcases at InnoTrans its commitment to contribute to a low carbon future by developing and



promoting innovative and sustainable transportation solutions that people enjoy riding. From high-speed trains, metros, monorails, trams, to turnkey systems, services, infrastructure, signalling and digital mobility, Alstom offers its diverse customers the broadest portfolio in the industry.

Hall 322 – Booth 450



**CLEAN [AIR]
GREEN [AIR]
SMART [AIR]**

Sustainable Health & Comfort – all round

At the InnoTrans in Berlin, Knorr-Bremse brand Merak, market leader in climatization solutions for rail vehicles worldwide, showcases its clean[air] solutions for health and comfort as well as how rail operators can benefit from the efficiency of green[air] technologies and how these systems are interconnected thanks to smart[air]. All in an interactive “real air feeling” simulation at the Knorr-Bremse Booth. **Don't miss it!**

| www.merak-hvac.com |

Visit us at InnoTrans 2024
24 – 27 September
Hall 1.2, Booth 250



MERAK

AMURRIO FERROCARRIL Y EQUIPOS



Amurrio es un líder global en el diseño y fabricación de desvíos ferroviarios de Alta Velocidad, Ferrocarril Convencional, Urban Rail y Heavy Haul applications, instalados en Europa, Norte y Sudamérica, Asia y África.

Uno de los puntos fuertes de Amurrio está en la fabricación de corazones monobloque en acero al manganeso, fundidos y soldados a antena por chisporroteo en instalaciones propias de la empresa.

Amurrio también fabrica corazones con otras tecnologías, como los de punta móvil para Alta Velocidad, mecanizados partir de plancha de acero, o soluciones especiales para varios anchos de vía.

Amurrio is a global leader in the design and manufacture of rail turnouts for High Speed, Conventional Rail, Urban Rail and Heavy Haul applications, installed in Europe, North and South America, Asia and Africa.

One of Amurrio's strengths lies in the manufacture of monobloc manganese steel crossings, cast and welded by sputtering in the company's own facilities.

Amurrio also manufactures crossings with other technologies, such as mobile point crossings for High Speed, machined from steel plate, or special solutions for various track gauges.

Azvi //

AZVI

Azvi es una empresa familiar española cuyos orígenes se remontan a mediados del siglo XIX.

Nuestra gran experiencia en todo el ámbito del ferrocarril nos permite diseñar para nuestros clientes soluciones a medida, desde proyectos de infraestructuras hasta transporte, servicios de mantenimiento y operación ferroviaria. Es nuestro principal objetivo.

Trabajamos para desarrollar ferrocarriles que conecten personas y territorios y mejoren la movilidad en las ciudades y la vida de sus ciudadanos, a través de un transporte más eficiente, inteligente, seguro, sostenible y respetuoso con el medio ambiente.

Hoy somos una empresa innovadora, internacionalizada y sostenible, con sólidos valores, experiencia de más de un siglo y orgullosa de su gran equipo humano.

Azvi is a Spanish family business dating back to the mid of the 19th century.

Railway is our core business and we drive our efforts to offer the best bespoke solutions in the wide range of railway projects to our clients, from infrastructure activities to railway transport and operation. That is our main goal.

We work to develop railways to connect people and territories and to improve mobility in cities and the life of their citizens, through a more efficient, smart, safe, sustainable and environmentally friendly transport.

Today, we are an innovative, internationalized and sustainable Company with solid values, experience for over a century and proud of our great human team.

CAF

CAF es uno de los líderes internacionales en el diseño e implantación de sistemas integrales de transporte. Referente en el sector de la movilidad sostenible, la compañía ofrece una amplia gama de productos y servicios que incluye el suministro de trenes, autobuses, componentes, sistemas de señalización, servicios y concesiones y sistemas integrales.

En lo que a material rodante se refiere, CAF diseña, fabrica y mantiene trenes de alta velocidad, unidades regionales y de cercanías, locomotoras, metros y tranvías.

A día de hoy, la compañía está presente en más de 60 países en todo el mundo y cuenta con una plantilla superior a las 15.000 personas.



**TRUST
IN MOTION**

CAF is one of the international leaders in the design and supply of comprehensive transportation systems. A benchmark in sustainable mobility solutions, the company offers a wide range of products and services that includes the supply of trains, buses, components, signaling systems, services and concessions and comprehensive systems.

In terms of rolling stock, CAF designs, supplies and maintains high-speed trains, regional and commuter units, locomotives, metros and tramways.

Today, the company is present in more than 60 countries around the world and has a workforce of more than 15,000 people.

www.caf.net

Visit us at Stand 130, Hall 4.2



Visit us at HUB 27 / No. 230!

INNOTRANS 2024

Transform **mobility** for everyone

At InnoTrans 2024 we will demonstrate our latest technology and put customer benefits in the spotlight with powerful proof points to make software more modular, create APIs and develop rail-software into the cloud, thus combining real and digital worlds. Visit our website and explore how we transform mobility for everyone.

[siemens.com/mobility](https://www.siemens.com/mobility)

SIEMENS

CERTIFER



Desde hace 25 años, CERTIFER ofrece servicios de certificación, inspección, auditoría y ensayos, en transporte ferroviario, guiado y otros. Con nuestra red de 650 expertos, estamos comprometidos a hacer que el ferrocarril, el transporte urbano y las nuevas movilidades sean más seguras, fiables y conectadas en todo el mundo. Somos conscientes de las necesidades futuras del transporte ferroviario y participamos en varios proyectos de innovación relacionados con Ciberseguridad, Hyperloop, Supraways, Trenes de Hidrógeno, etc.

En CERTIFER trabajamos con un enfoque colaborativo y pragmático para ayudar a nuestros clientes a conseguir la certificación y puesta en servicio de sus productos con éxito.

For 25 years, CERTIFER offers certification, inspection, audit and testing services in railway, guided transportation and beyond. With our network of 650 experts, we are committed to making railway, urban transport and new mobilities safer, more reliable and more connected around the world. We are aware of the future needs of rail transport and we involved in several innovation projects related to Cybersecurity, Hyperloop, Supraways, Hydrogen trains, etc.

At CERTIFER we work with a collaborative and pragmatic approach in order to help our customers succeed in the certification and placing into service of their products.



COMSA CORPORACIÓN

COMSA Corporación is a global group focused on infrastructure development, industrial engineering and services with more than 130 years of experience, specialised in railway projects involving the construction of infrastructure and superstructure, stations, track maintenance, electrification, installations, control and communications systems for conventional and high-speed railways, trams, metros and regional railways. Thanks to this extensive experience, COMSA has exported its high level of specialisation mainly to European and Latin American countries.

It has participated in the development of all the high-speed lines in Spain, as well as in the construction of metros and trams in cities such as Madrid, Barcelona, Lisbon, Ankara, Odense, Mexico City and São Paulo, while it is especially renowned for its active participation in the renovation, maintenance and conservation of conventional lines.

Among the most emblematic railway projects currently underway are the expansion of the Yellow and Green lines of the Lisbon Metro, the remodelling of the Chamartín station in Madrid, the construction of the La Sagrera AVE station in Barcelona, the renovation of a section on the Beira Alta line (Portugal) and the construction of the sector 3 on the Basque high-speed railway (Basque Y), among many others.

ENYSE

The month of August has been one of celebration for Enyse – back in 1924 the first electric interlocking was commissioned at Don Carlos junction in Barcelona, followed by the much bigger Barcelona Terminus in 1927, today Barcelona França, controlling 116 “mechanical route levers”. Since those days up to the latest projects under execution in Asturias, Valencia or Madrid, Enyse and its predecessors have developed a way of working with a clear customer-oriented focus. This has allowed us to be the Signalling company with the highest number of commissioned electronic interlockings in Spain for the last two years.



This flexibility and great deal of experience have allowed our customers to trust Enyse for the execution of projects as relevant as the re-signalling of the Henares Corridor, holding the Northeast commuter services in Madrid, or the Stations Neuronal Centre (CNE) in Valdebebas, which will control auxiliary services in all railway stations in Spain. The CNE leads the way to solve the challenges of a future already here – digitalization and sustainability to make the railway the most powerful mobility tool in the fight against the climate change.

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FCC CONSTRUCCIÓN Y CONVENSA

Acercando a las personas

FCC Construcción y Convensa han ejecutado más de 2.600 kilómetros de ferrocarril en cualquiera de sus modalidades, desde el ferrocarril de alta velocidad hasta el metro o los nuevos tranvías, incluyendo el mantenimiento (más de 12.000 kilómetros) y renovación de líneas existentes y la construcción de nuevas estaciones.

FCC Construcción y Convensa son referentes internacionales en infraestructuras sostenibles.

FCC Construcción & Convensa bringing people closer

FCC Construcción and Convensa have built more than 2,600 kilometres of railways in any of their modalities, from high-speed railways to the metro or the new trams, including maintenance (more than 12,000 kilometres) and renovation of existing lines and the construction of new stations.

FCC Construcción and Convensa are international benchmarks in sustainable infrastructures.



TOMORROW. MOBILITY WORLD CONGRESS

FIRA BARCELONA

TOMORROW.MOBILITY WORLD CONGRESS

Fira Barcelona & EIT Urban Mobility celebran de nuevo Tomorrow.Mobility World Congress (5-7 noviembre, Fira Barcelona), evento de referencia mundial en movilidad sostenible e inteligente. El congreso y la expo se centrarán en temas clave como nuevos servicios de movilidad, logística de última milla, vehículos autónomos, infraestructuras, movilidad activa, transporte público, seguridad vial y movilidad inclusiva.

TMWC se celebrará junto con Smart City Expo World Congress, evento líder mundial para ciudades e innovación urbana. Juntos reunirán más de 25.000 visitantes profesionales de 130 países, 600 ponentes y 1.100 expositores, incluyendo las principales marcas e instituciones del sector.

TOMORROW.MOBILITY WORLD CONGRESS

Fira Barcelona & EIT Urban Mobility celebrate again the Tomorrow.Mobility World Congress (5-7 November, Fira Barcelona), the global event accelerating sustainable and intelligent urban mobility. The summit & expo will focus on key issues such as new mobility services, last mile logistics, autonomous vehicles, infrastructures, active & low-emission mobility, public transport, road safety and inclusive mobility.

TMWC will be held together with Smart City Expo World Congress, the world's leading event for cities and urban innovation. Both events will gather over 25,000 professional attendees from 130 countries, 600 speakers, and 1,100 exhibitors, including some of the sector's biggest brands and institutions.

www.tomorrowmobility.com

GLOBAL RAIL GROUP

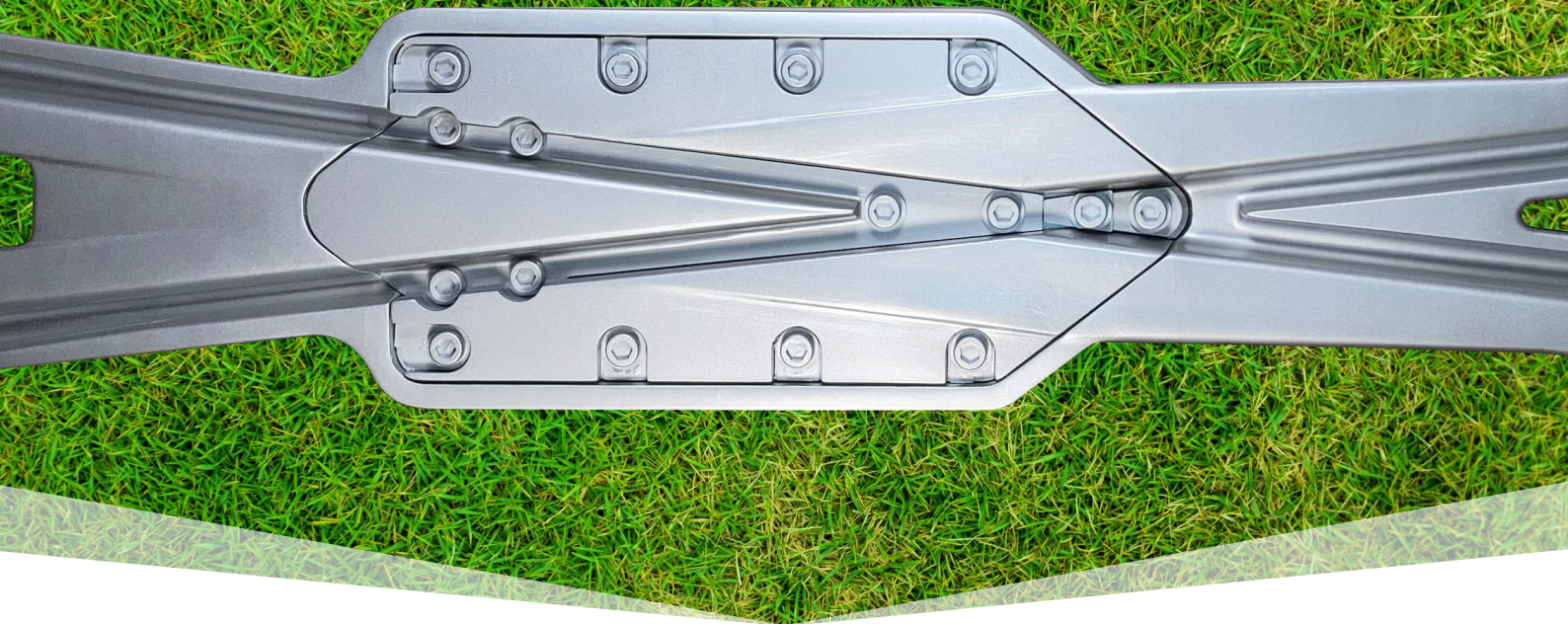
Global Rail Group es un equipo de expertos ferroviarios especializados en infraestructura ferroviaria a nivel mundial, que ofrece soluciones y servicios que van desde la consultoría en optimización de la gestión de activos ferroviarios hasta analítica de datos del estado y condición de la infraestructura, formación técnica, acceso a conocimiento y publicaciones a través de diferentes medios, y captación de talento ferroviario. Con más de 60 expertos empleados en 12 ubicaciones globales, Global Rail Group aporta a los administradores de redes ferroviarias experiencia ferroviaria junto con una perspectiva global de la industria. Contamos con una red de socios locales que nos ayudan a implementar nuestras soluciones globales en un contexto local.



Global Rail Group is a team of experienced railway experts specialized in global railway infrastructure, offering solutions and services ranging from consultancy in railway asset management optimization to data analytics on the state and condition of infrastructure, technical training, access to knowledge and publications through various media, and recruitment services. With 60+ expert employees across 12 global locations Global Rail Group brings railway network providers with railway expertise along with a global perspective to the industry. We have a network of some of the best local on-ground partners that help us execute our global solutions in a local context.



THE CROSSING THAT BREAKS THE RULES ON URBAN RAIL



Who said that all tram crossings have to be monoblock?

Why is it that every time a turnout has to be repaired on an urban route, traffic has to be stopped on one of the city's arteries?

Is there not **a simpler solution?**

There is now.

Amurrio presents CMUR1.

A Modular Crossing for Urban Rail that allows to **replace only the parts that suffer wear** in a crossing: the frog point and the closure rails. Without the need to replace the entire crossing.

Substantially reducing the intervention time. Multiplying the service life of the turnout. And reducing the maintenance costs.

Do the maths.

Call Amurrio to get to know the new CMUR1.





HEXIS

El grupo HEXIS es un referente internacional en la fabricación y distribución de films adhesivos para la industria ferroviaria, con una oferta diversificada de soluciones personalizadas, creativas y técnicamente avanzadas.

Los films HEXIS cumplen los estándares de calidad, sostenibilidad y seguridad, exigibles en proyectos de revestimiento interiores o exteriores, así como para el reacondicionamiento y sustitución de pinturas. La instalación de films imprimibles, de corte o protectores -especialmente los anti-graffiti- permite mejorar la percepción de los usuarios y reducir los tiempos y costes de mantenimiento del material rodante. HEXIS acompaña integralmente a sus clientes, desde la concepción técnica hasta la implantación de las mejores alternativas y la posterior asistencia operativa.

As a global manufacturer and distributor of self-adhesive films, the HEXIS Group is a major force in the railway industry, offering highly creative and technologically advanced customised solutions.

HEXIS films offer a complete range of solutions suitable for indoor and outdoor applications that meet the most challenging criteria for quality, sustainability and safety to enhance and protect railway equipment. The installation of printable, coloured or protective films - such as the anti-graffiti laminates - improves user perception and reduces maintenance times and costs. HEXIS supports its customers at all stages of their projects, from technical design to the implementation of the best personalised alternatives and technical assistance.

IMATHIA CONSTRUCCIÓN

IMATHIA Construcción, fundada en 1989, se establece a nivel nacional e internacional como empresa especializada en obra civil, con especial vocación por el sector ferroviario.

Con proyectos en los corredores principales de la península y alrededor del mundo, construyendo líneas de AV, convencionales, metros y trenes ligeros. Nuestra referencia más conocida es el AVE Meca Medina en Arabia Saudí (tendido de vía y mantenimiento). Actualmente trabajamos en la rehabilitación de la línea Kampala - Malaba (Uganda), en el nuevo taller de Fuencarral II (Madrid-España) y en la conexión ferroviaria del Basora - Salamcha (Iraq).



IMATHIA Construcción, founded in 1989, is established nationally and internationally as a company specialized in civil engineering, with a particular focus on the railway sector. We undertake projects in the main corridors of Spain and around the world, constructing high-speed lines, conventional railways, metros, and light trains. Our most well-known reference is the Mecca-Medina High-Speed Railway in Saudi Arabia (track laying and maintenance). Currently, we are working on the rehabilitation of the Kampala-Malaba line (Uganda), the new Fuencarral II workshop (Madrid, Spain), and the railway connection from Basra to Salamcha (Iraq).

INECO



Ineco es actor clave en el desarrollo del sector ferroviario español, modelo de referencia en todo el mundo por su eficiencia, calidad y alta especialización. Como ingeniería y consultoría integral, participamos en todas las fases del ciclo de vida de los proyectos: planificación, diseño conceptual y constructivo, supervisión de obra, operación y mantenimiento.

Esta experiencia nos ha permitido trabajar en todos los continentes y situarnos como una de las compañías líderes en el exterior, con fuerte presencia en Latinoamérica, Medio Oriente y Europa.

Ineco is a key player in the development of the Spanish railway sector, recognized worldwide for its efficiency, quality, and high specialization. As a comprehensive engineering and consulting firm, we engage in all phases of the project lifecycle: planning, conceptual and detailed design, construction supervision, operation, and maintenance.

This extensive experience has enabled us to work across all continents, establishing ourselves as one of the leading companies internationally, with a strong presence in Latin America, the Middle East, and Europe.

INGETEAM

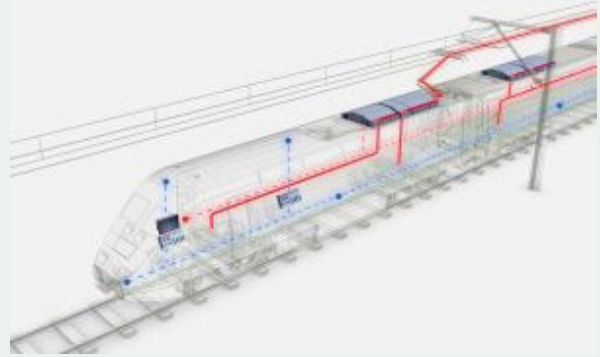
INGETEAM diseña y suministra sistemas completos de tracción y convertidores, sistemas de control y soluciones de mantenimiento predictivo, basados en desarrollos propios en electrónica de potencia y control.

En InnoTrans 2024 destacaremos nuestros últimos proyectos para vehículos híbridos y alta velocidad. El equipo de sistemas de tracción le dará la bienvenida en el pabellón 9, stand 615.

En el pabellón 27 expondremos la gama de control INGESYS, específicamente diseñada para aplicaciones ferroviarias que da respuesta a las necesidades de automatización existentes en el tren (VCU, RIO, HMI, Datalogger...) y subsistemas (HVAC, DCU, Galley, WC, etc.).

INGETEAM designs and supplies complete traction systems and converters, control systems and predictive maintenance solutions, based on in-house developments in power and control electronics.

At InnoTrans 2024, we will be showing products used in the latest railway rolling stock. In particular, we



will highlight our latest projects for hybrid vehicles and integration of batteries in traction systems. The Traction systems team will welcome you on Hall 9, stand 615.

In Hall 27, we will be exhibiting INGESYS control range, specifically designed for railway applications which responds to the automation needs existing in the train (VCU, RIO, HMI, Datalogger...) and its subsystems (HVAC, DCU, WC, etc.).

ZÖLLNER
signal system technologies

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safety solutions.**

**for railway
light rail
metro industry**

InnoTrans
Hall 25 // Stand 565
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MASATS

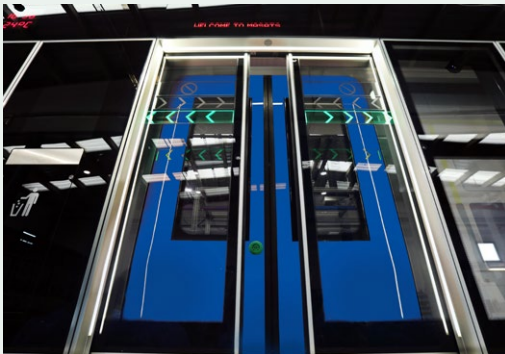
Masats specialises in the design and manufacture of accessibility systems for public transport. Its product range includes sliding for passenger, as well as ramps and access steps. In addition, for station infrastructures, it offers platform screen doors (PSD) and Gap Fillers to cover the gap between the station and the train.

It will exhibit three innovative products at Innotrans:

- Platform Screen Doors, or PSD, form a barrier installed at the edge of the platform, with doors that open synchronously with the train doors. The unique and elegant avant-garde design provides a functional façade that can be adapted and customised to the needs of the end user. Its acoustic and light signalling makes it easy for the user to understand the operational status of the sliding door, increasing safety and reducing boarding times.
- The compact 00Gb sliding door offers high performance for trains reaching speeds of up to 160 km/h. A fast and high-availability door.
- The RF3+ contactless step-ramp, a contactless access device that detects the platform position and deploys as a ramp, step, or gap bridge as required.

Masats' accessibility systems are essential to ensure a safer and more accessible world.

Hall 3.1 Stand 360
www.masats.es



METRO LIGERO OESTE (MLO)

Metro Ligero Oeste (MLO) is a public transport concession of the Community of Madrid that connects Boadilla del Monte, Alcorcón, Pozuelo de Alarcón and Madrid. Since its inauguration in July 2007, MLO has become an example in sustainable, punctual and safe transport. The network includes two lines, ML2 and ML3, which offers complete connectivity to nearly 200,000 inhabitants. With more than 25 million kilometers traveled, MLO is proud to have reached 100 million validations during 2024.

MLO's commitment to sustainability is evident in its recent achievements. Between 2022 and 2023, the company reduced its carbon footprint by 27%, avoiding more than 3,000 tons of CO2 emissions, which was made possible by encouraging self-consumption through the installation of 1,600 photovoltaic panels, producing 1.2 GWh annually, and the formation of an Energy Committee that improved energy efficiency by 7%. These efforts have reinforced MLO's dedication to environmental responsibility and innovation.

In addition, MLO has invested €43.1 million in infrastructure improvements since 2007 seeking to ensure safe and sustainable future mobility. Celebrating 17 years of operation this summer, MLO has consistently received high ratings from its users. In 2023, the Service Quality Index reached 8.4, with 88.5% of passengers rating the service as "excellent" or "satisfactory."

OHLA



OHLA es un grupo global de infraestructuras con más de 110 años de historia. Forma parte de los 50 mayores grupos de construcción a nivel internacional, según la publicación ENR. La compañía, con una cartera cercana a los 8.500 millones, está especializada en ingeniería civil, infraestructuras ferroviarias, edificación singular y hospitalaria.

En el sector ferroviario destacan sus filiales EyM y G&O. Con más de 75 años de trayectoria, G&O tiene experiencia en la construcción de infraestructura y superestructura, incluidos trabajos de electrificación y señalización en líneas convencionales, metro y metro ligero, destacando su posicionamiento en alta velocidad.

OHLA is a global infrastructure group with more than 110 years of history. It is one of the 50 largest international construction groups, according to the publication ENR. With a portfolio of nearly 8.5 billion, it specializes in civil engineering, railway infrastructures, singular and hospital construction.

In the railway sector, it has a strong position through subsidiaries such as EyM and G&O. With more than 75 years, G&O has an extensive experience in the construction of infrastructure and superstructure, including electrification and signaling works in conventional lines, subway and light rail. Special mention should be made of its work in the field of high-speed rail.



IRYO

iryo, the new way to travel by High Speed

iryo has created a new way of getting around that is redefining the rail sector. This innovation is reflected in the more than 10 million passengers who last year chose the first Spanish private high-speed operator, owned by partners Air Nostrum, Globalvia and Trenitalia, to travel to one of its 11 destinations: Madrid, Barcelona, Zaragoza, Valencia, Seville, Malaga, Cuenca, Cordoba, Alicante, Albacete and Tarragona. Last December, the first route to link Barcelona with Seville in under 6 hours and without changing trains was also added to these options.

The overwhelmingly positive reception of iryo is due to the value proposition that the operator has designed to meet the needs of all travellers, regardless of whether they are travelling for leisure or business. Its fleet of 20 Frecciarossa trains offers the best quality on the market with leather seats, individual tables, 5G connectivity and exclusive access to its on-board entertainment platform 'YO', so passengers can enjoy maximum comfort during their journey. These options are offered through four different fares, from the most premium, the 'Infinita Bistró', to the more competitively priced 'Inicial' class, and the 'Singular' and 'Singular Only YOU', which contain more extensive options for the corporate sector.



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Operation and Maintenance.
Experience on 4 continents

More info



QR ticketing system
without need
of physical
infrastructure

Advanced Driver Assistance
System designed to monitor
operations and to avoid
accidents due to over speeding

SIMOVE
FOR RAILWAYS

REMOVABLE INSULATING CHAMBER

Designed and patented by:



Chambered system designed to improve the
maintenance of the railway track

Commercialised by:



rails.specialsections@arcelormittal.com

Technical data



KNORR-BREMSE ESPAÑA, S.A.



Leading company in braking and HVAC systems and automatic access doors systems for all type of railway vehicles.

Knorr-Bremse España belongs to the Rail Vehicle Division of the German group Knorr-Bremse, global leading manufacturer of braking and on-board systems for rail and commercial vehicles. Based in Getafe, Madrid, Knorr-Bremse España, through its FRENOS division, is leader in the Spanish market for the design, manufacturing and supply of brake systems and derailment detection systems for railway vehicles, as well as automatic access door systems IFE.

MERAK is the leading climatization brand for rail vehicles, with more than 100.000 systems in daily operation worldwide, in all modes and all kinds of environmental conditions.

MERAK offers solutions that stand out through their cutting-edge technology like the air distribution, filtration, and purification system clean[air], or green[air], a portfolio of energy-efficient technologies alongside sustainable refrigerants, as well as an excellent customer service in the complete value chain.

<https://rail.knorr-bremse.com/en/es/>
www.merak-hvac.com

RAILLIVE!

RAIL LIVE

Rail Live, edición del congreso 2024, se llevará a cabo el 26 y 27 de noviembre en el Palacio de Congresos de Zaragoza, España. El evento reunirá a los líderes de la industria ferroviaria, haciéndolo el punto de encuentro para el conocimiento, la innovación y nuevas oportunidades de negocio que beneficiarán a toda la cadena de valor. La conferencia se enfocará en los elementos claves de la evolución ferroviaria abarcando 8 tracks que incluyen transformación digital, energía y resiliencia climática, e infraestructura inteligente.

En noviembre se esperan más de 200 ponentes que sumergirán a los asistentes en una variedad de sesiones diseñadas para explorar las tendencias, los desafíos, y las oportunidades que transformarán el futuro del ferrocarril. Desde influyentes figuras gubernamentales hasta líderes de prestigiosas empresas del sector. Entre los nombres ya confirmados están Ángel Contreras Marín (ADIF), Raül Blanco (Renfe), Miguel Jorge De Campos Cruz, (Infraestructuras de Portugal), Marko Kivila (Rail Baltica), Nina Avramovic Trninic, (Austrian Federal Ministry BMK), James Heslop (Network Rail), Jörn Schwarze, (Kölner Verkehrs-Betriebe AG), Gediminas Šeckus (Lithuanian Railway), Simone Gorini (iryó), Ana Moreno Lorente (Tranvías de Zaragoza), José Humberto Solorza Estevéz (EFE Chile) and Leonidas Narváez (Metro Bogotá).



RENFE

Renfe es la empresa líder del transporte ferroviario, tanto de viajeros como mercancías, y referente en el sector de la movilidad en España. Con 5.000 trenes que circulan cada día en España, más de 500 millones de viajeros al año, cerca de 15.000 empleados comprometidos con su trabajo y los más destacados índices de puntualidad, calidad y satisfacción, en Renfe trabajamos para que el tren sea el protagonista de la movilidad en España y, al tiempo, ampliar nuestro negocio y traspasar fronteras.

En la actualidad, Renfe opera los trenes incluidos en obligaciones de Servicio Público, OSP, los correspondientes a los servicios de Cercanías y Media Distancia. Estos servicios son considerados esenciales y con ese planteamiento reciben subvención del Estado, que es el titular de estos servicios. Así, el Gobierno de España o las Comunidades Autónomas, con competencias, son las Instituciones las que fijan los servicios que deben prestarse en cada territorio mediante un contrato-programa.

Servicios liberalizados

En cuanto a los servicios liberalizados, Renfe compite en el mercado, sin ningún tipo de subvención estatal, con otras empresas ferroviarias que también prestan servicios de transporte: desde 2005 por lo que respecta al transporte de mercancías y desde diciembre de 2020 en el de viajeros.

Renfe comercializa estos servicios en competencia a través del Área de Negocio de Servicios Comerciales de Renfe Viajeros (AVE, Avlo, Alvia, Euromed e Intercity) y de la Dirección General de Renfe Mercancías. Tanto en el caso de viajeros como en el de mercancías la empresa, que debe ser rentable, está sometida a las mismas reglas que la competencia a la hora de fijar precios, definir el esquema comercial más ventajoso, conseguir la máxima satisfacción del cliente y garantizar beneficios y, por tanto, la sostenibilidad económica de la empresa



ONUEVE

Conectamos mercados, Aportamos valor

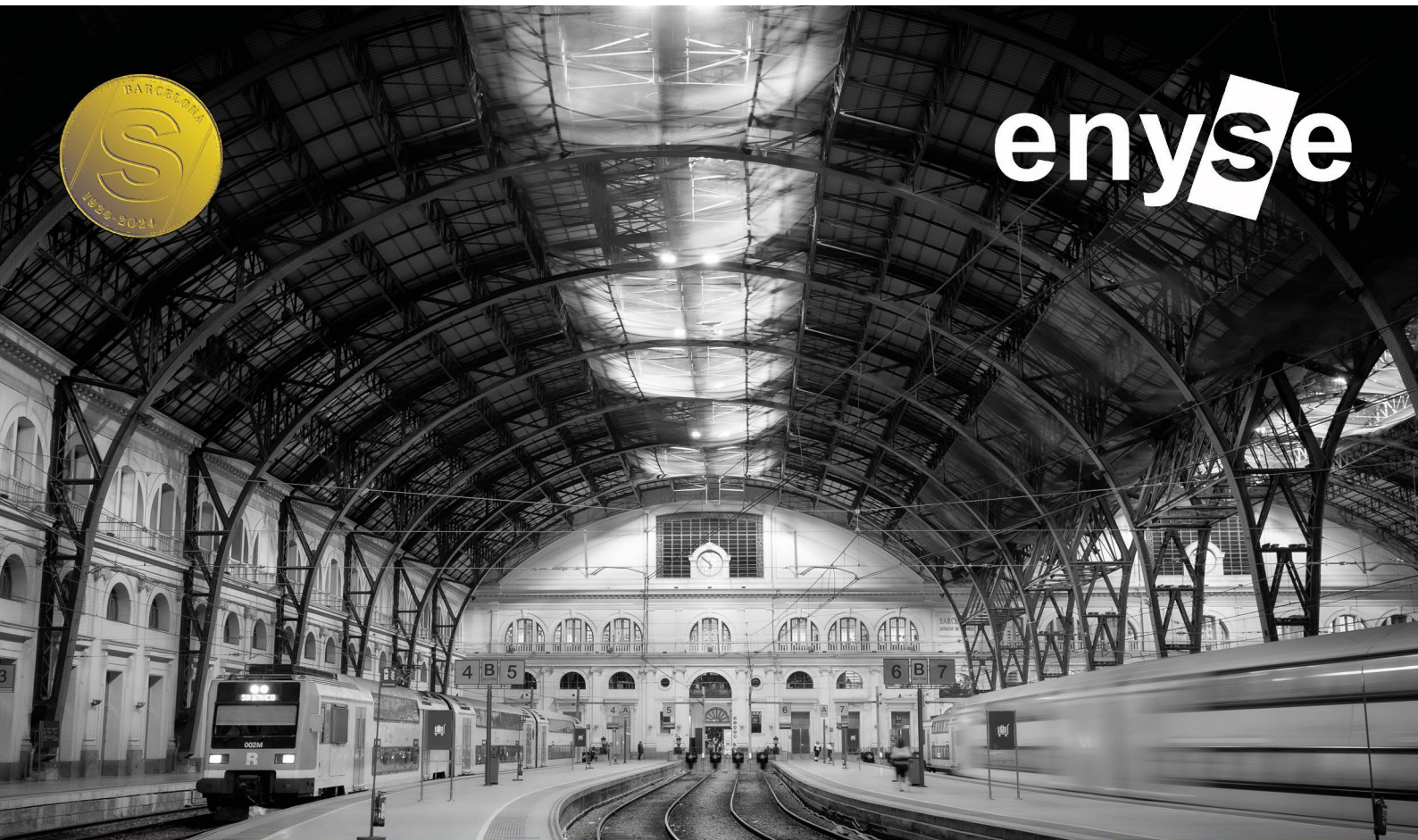
Onueve comercializa cables, conectores y sistemas de protección de cable para el sector ferroviario tanto de infraestructura como embarcado. Buscamos aportar valor añadido al mercado con productos, a poder ser europeos, innovadores y exitosos en sus mercados naturales y adaptando el servicio a las necesidades propias de los mercados español y portugués. Buscamos siempre poner en contacto directo a fabricantes con nuestros clientes para aportarles las soluciones más adaptadas a sus necesidades. Queremos ser un proveedor de alto valor añadido tanto en producto como en servicio.

Connecting markets, Adding value

Onueve commercialises cables, connectors and cable protection systems for the railway sector, both for

infrastructure and on-board applications. Our aim is to provide added value to the market by providing innovative products, preferably European, successful in their natural markets and adapting the service to the specific needs of the Spanish and Portuguese markets. We always seek to put manufacturers in direct contact with our clients to provide them with the most adapted solutions to fulfil their needs. We want to be a high added value supplier not only for product but also for service.

En el avance industrial



Cien años del primer enclavamiento eléctrico en España

METROTENERIFE

METROTENERIFE es una empresa operadora de tren ligero constituida en España en 2001. Su experiencia acumulada en O&M de sistemas ferroviarios le permite ofrecer servicios de consultoría a otros operadores y Autoridades de Transporte en: planificación, diseño, pruebas y puesta en marcha, formaciones, O&M, etc.

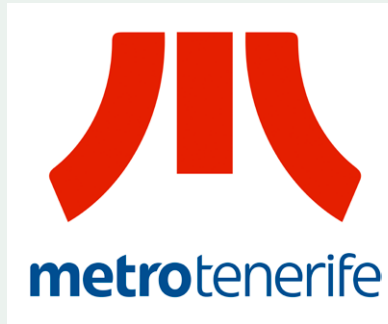
Además, su equipo de ingeniería desarrolla soluciones innovadoras para satisfacer las necesidades de otros operadores, creando sistemas de transporte más eficientes, por ejemplo: SIMOVE for railways, Via-Movil y la Chaqueta extraíble de carril.

METROTENERIFE ha desarrollado proyectos de transporte urbano e interurbano para clientes de Europa, América, África y Oriente Medio.

*** Visítanos en InnoTrans 2024, en el hall 22 stand 700 posición 12**



METROTENERIFE is an LRT operator constituted in 2001 in Spain. The accumulated expertise operating and maintaining railway systems, provides the company the ability to offer a variety of consultancy services to other operators and Transport Authorities: planning, design, testing&commissioning, service simulations, trainings, O&M, etc. Furthermore, its engineering team develops innovative solutions that meet the needs of operators worldwide, creating more efficient transport systems, as for instance:



SIMOVE for railways, Via-Movil and the Removable Insulating Chamber.

METROTENERIFE has developed projects for clients in Europe, America, Africa and Middle East, involving urban and interurban rail transport.

contact@metrotenerife.com
<https://metrotenerife.com/services-and-consultancy/>
<https://via-movil.es/>
<https://simoverail.com/>

*** Visit us at InnoTrans 2024, at the hall 22 stand 700 position12**



TALLERES ALEGRÍA

Desvíos y material fijo de vía Material rodante

Empresa con actividad exclusiva en el sector ferroviario que desarrolla en dos líneas de negocio altamente especializadas:

- Fabricación de todo tipo de desvíos y material fijo de vía para ferrocarriles de alta velocidad, convencionales, mercancías, metros, tranvías, etc.
- Fabricación y mantenimiento de material rodante, es la Entidad Encargada de Mantenimiento Certificada y fabricante de todo tipo de material remolcado y vehículos

autopropulsados para mantenimiento de vía y catenaria.

Con más de 100 años de experiencia empresarial, Talleres Alegría cuenta con una tecnología puntera, los más modernos equipos y máquinas y un equipo humano de profesionales y técnicos altamente cualificados. Consciente de la importancia que tiene la fiabilidad de sus productos, constantemente renueva su compromiso de avance y desarrollo en las últimas y más actuales técnicas de producción, diseño, calidad e investigación con el objetivo de alcanzar la plena satisfacción de sus clientes.

Turnout Systems Rolling Stock

A Company dedicated exclusively to the Railway Industry and developed into two highly specialized business lines.

First, the design and manufacturing of all types of turnout systems and other fixed track material for high speed, conventional, heavy haul, metro or tram railway lines.

Second, the construction and maintenance of rolling stock; it is a Certified Maintenance Entity and manufacturer of freight wagons and self-propelled vehicles for track and catenary works.

With more than 100 years of business experience, Talleres Alegría relies on a state-of-the-art technology, the most modern equipment, and a highly qualified human team of engineers and technicians. Aware of the importance of the reliability of its products, TA is continuously renewing its compromise for advance and development into the latest design, production, quality and research techniques. All with the objective of acquiring the full satisfaction of its clients.

HALL 26 – STAND 880
www.talegria.com



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SIEMENS MOBILITY

Scalable ATO over ETCS solution by Siemens Mobility helps maximize rail capacity

Siemens Mobility has developed the solution ATO over ETCS to help to maximize capacity and optimize energy efficiency in the local transport network. While Sidytrac provides live forecasts that calculate energy demand on the electrical network and Sidytrac Energy Optimized Operations (EOO) optimizes energy efficiency, TPS.live reschedules trains in response to disruptions. Adding all the benefits of these applications the result is a train network operating with greater capacity, true energy efficiency and an even better passenger experience.

One delayed train can slow down the whole local transport system. To keep the network running smoothly the TPS.live application responds to delays using an algorithm to efficiently synchronize all deployed trains. SidyTrac Energy Optimized Operations (EOO) boosts efficiency via regenerative braking, which involves the precise timing of braking and acceleration.

These combined applications will increase

- Network capacity by up to 30%
- Punctuality improving by up to 15%
- Savings up to 30% energy

ATO over ETCS by Siemens Mobility is versatile and scalable and ready to be adapted to the rail network. The local transport system can be level up so that it truly meets the demands placed on it.

**HUB 27 / No. 230 / 220/
135 – Tracks 6&7**

MIERES RAIL

Mieres Rail S.A., certificada ISO 9001, ISO 14.001, ISO 45.001 e ISO 50.001, está especializada en el diseño y fabricación de aparatos de vía y cruzamientos fundidos de acero al manganeso. Damos respuesta a las necesidades planteadas por nuestros clientes en cuanto a geometrías o especificaciones técnicas, tanto para metros, como líneas convencionales, líneas de Alta Velocidad, ferrocarriles industriales, con alta carga por eje, cocheras ..., y para cualquier tipo de carril, inclinación, ancho de vía, tipo de plataforma, cruzamientos de punta fija o punta móvil, traviesas de madera u hormigón, velocidad o carga/eje.



Mieres Rail S.A., certified ISO 9001, ISO 14.001, ISO 45.001 e ISO 50.001, is specialized in designing and manufacturing railway turnout systems and manganese steel casted crossings. We provide solutions to our customer's requests regarding geometries or technical specifications, for metro, conventional lines, High Speed lines, industrial railways, high axle loads, depots, ..., for any type of rail and inclination, gauge, type of track, fixed or swing nose crossings, wooden or concrete sleepers, speeds or axle/loads.

STADLER

STADLER

Primicia mundial en transporte sostenible

El ferrocarril contribuye a la lucha contra el cambio climático y la contaminación. Stadler construye vehículos y ofrece servicios y soluciones de digitalización que hacen que el transporte ferroviario sea más atractivo, más competitivo y más sostenible.

Este año presentamos 8 vehículos con soluciones innovadoras para todos los segmentos del transporte ferroviario: la locomotora bimodal de mercancías Class 99 para Reino Unido, el Citylink Tram-Train para el consorcio austro-germano VDV, los nuevos trenes de rescate de la ÖBB así como diversos trenes de pasajeros. Como primicia mundial, presentamos el nuevo Regio Shuttle, un tren para el transporte regional en redes sin electrificar, con tecnologías de tracción alternativas, por supuesto.

World premiere in sustainable rail transport

Railways protect the climate. Stadler builds rail vehicles that make rail transport more attractive, more competitive and more sustainable.

This year, Stadler will be unveiling eight new rail vehicles featuring a range of innovative solutions to promote sustainable rail transport as well as presenting new service and digitalisation developments. As world premiere, Stadler presents the ultimate rail vehicle for non-electrified branch lines in the tradition of our Regio Shuttle – with alternative traction drives, of course!

**HALL 2.2 / Stand 230.
Outside area: T04, T08, T09, T10
stadlerrail.com**

BE MOTION.

The energy transition is an unstoppable process. To face this challenge, **The Real Dream Team** is born, a movement based on Heroes and Heroines that just like you do, share the same dream: a world where the energy production and the consumption are clean. Will you join?



• INNOTRANS

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THE
REAL
DREAM
team

BE PART OF
THE ENERGY
TRANSITION.
BE A
HERO.

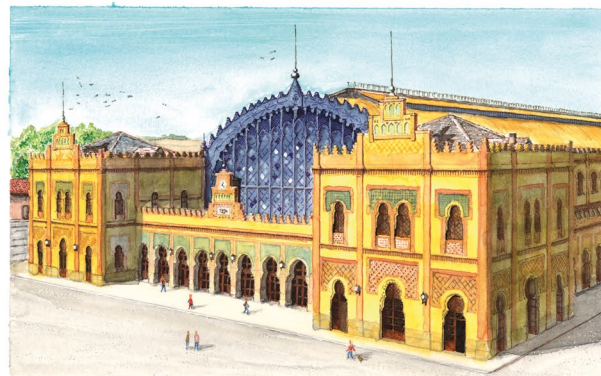
Ingeteam

ELECTRIFYING
A SUSTAINABLE FUTURE

COLECCIÓN
vía libre

la revista del ferrocarril desde 1964

Desde enero de 2024
a febrero de 2025



ESTACIÓN DE SEVILLA. PLAZA DE ARMAS.

A. BERNARDO

EDITA



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Self-propelled Railbound Vehicles



Material rodante remolcado de mercancías

Railbound Vehicles for Freight Transport



Desvíos y material fijo de vía

Turnouts & Fixed Track Material



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www.talegria.com



**Transports
Metropolitans
de Barcelona**

TRANSPORTS METROPOLITANS DE BARCELONA (TMB)

Transports Metropolitans de Barcelona (TMB) es el principal operador de transporte público del área metropolitana de Barcelona y ofrece el servicio de metro y bus, así como otros servicios de movilidad y de transportes de ocio.

TMB trabaja para garantizar el derecho a la movilidad de la ciudadanía de manera sostenible, con el objetivo de mejorar la ciudad, su entorno y la vida de las personas, y con esta finalidad impulsa todas sus actuaciones asumiendo los retos de futuro que generan los cambios en la sociedad.

La protección del medio ambiente, la eficiencia energética, la promoción de la inclusión social y el impulso de las políticas de accesibilidad, vectores de una movilidad sostenible y segura, son criterios fundamentales de su gestión, siempre con el objetivo de ser una empresa pública de referencia en su sector.

Transports Metropolitans de Barcelona (TMB) is the main public transport operator in the Barcelona metropolitan area and offers metro and bus services, as well as other mobility and leisure transport services.

TMB works to guarantee citizens' right to mobility in a sustainable way, with the aim of improving the city, its environment and people's lives, and with this purpose it promotes all its actions, taking on the future challenges of a changing world.

Environmental protection,

energy efficiency, promoting social inclusion and accessibility policies, key pillars of sustainable and safe mobility, are fundamental aspects of its management, always with the aim of being a leading public company in its sector.



TALGO

Talgo mostrará los últimos avances tecnológicos y una propuesta de valor para una movilidad accesible, descarbonizada y conectada en toda Europa. Descubra una nueva experiencia de viaje a bordo de Talgo 230, el tren interurbano que estamos fabricando para el operador danés DSB, y conozca la locomotora DB-Baureihe 105, que pronto entrará en servicio en Alemania.

Talgo will showcase the latest technology advances and a value proposition for accessible, decarbonised, and connected mobility across Europe. Discover a new travel experience aboard Talgo 230, the Intercity train that we are manufacturing for Danish operator DSB and find out about DB-Baureihe 105 locomotive, soon in service in Germany.

Hall 4.2



VOESTALPINE RAILWAY SYSTEMS JEZ

voestalpine Railway Systems JEZ, S.L. se dedica al diseño, la fabricación, el suministro y el mantenimiento de todo tipo de aparatos de vía y sistemas de vías férreas para ferrocarriles y tranvías.

Somos parte del grupo voestalpine Railway Systems, líder del mercado mundial de soluciones de sistemas de infraestructura ferroviaria. Como empresa global de tecnología de vías y proveedor de gama completa, ofrecemos a nuestros clientes de todo el mundo soluciones ferroviarias totalmente integradas para todo tipo de tráfico ferroviario.

voestalpine Railway Systems JEZ, S.L., su proveedor global de sistemas de infraestructura ferroviaria completos e innovadores (carriles, desvíos y corazones, fijaciones, señalización y servicios).

voestalpine Railway Systems JEZ, S.L. is committed to the designing, manufacturing, supplying and maintenance of all types of points and crossings and railway track systems for railways and tramways.

We are part of voestalpine Railway Systems, the global market leader for railway infrastructure system solutions. As the global track technology company and full-range supplier, we offer our customers throughout the world fully integrated railway solutions for all types of rail traffic.

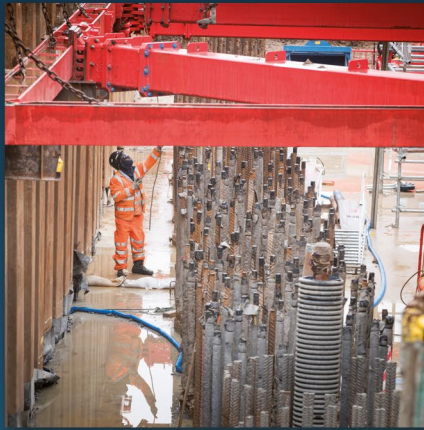
voestalpine Railway Systems JEZ, S.L., your global provider of complete and innovative railway infrastructure systems (rails, turnout & fixations, crossings, signaling and services).

First High-Speed Rail in USA

Track and Overhead Contact System of the High-Speed Line connecting Merced and Bakersfield, California

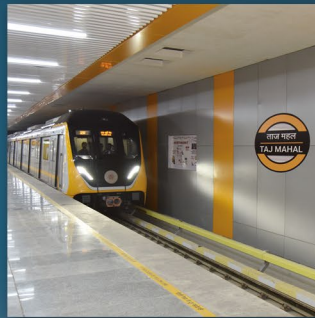


▶ HS2 High-Speed Railway,
United Kingdom



▲ Doha Metro Network,
Qatar

- Knowledge, experience, technical skill and corporate independence.
- More than 55 years' experience designing conventional and high-speed railways, metros and light-rail, enables us to develop ambitious plans all over the world.
- Designing and managing to build more than 100 km of tunnel a year.
- In-house applied technology and new advanced systems. More than 30 R&D projects currently underway.
- Exporting Spanish engineering to all continents for sustainable development and improving quality of life.



◀ New Agra Metro Network,
India



great infrastructure is built on great engineering

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CONECTORES Y CABLES VAHER



Desde nuestra fundación en 1998, en CONECTORES Y CABLES VAHER nos especializamos en la importación, distribución y suministro B2B de componentes ferroviarios embarcados.

Gracias a estos valores y a nuestro esfuerzo de mejora continuo, hemos logrado establecernos como proveedores de los principales fabricantes tanto de vehículos como de subsistemas, así como de los principales operadores ferroviarios a nivel nacional.

Apostando por la innovación, en CONECTORES Y CABLES VAHER garantizamos la total trazabilidad de los suministros desde su origen hasta su destino; ofreciendo además total disponibilidad documental en materia de calidad, flexibilidad en el suministro y precios competitivos.

Una cartera de clientes y proyectos plenamente establecida y 25 años de experiencia son nuestro mejor aval.

Since our establishment in 1998, CONECTORES Y CABLES VAHER has been specialized in the import, distribution and B2B supply of on-board railway compliant components.

Thanks to these values and our constant effort for improving ourselves, we have managed to become suppliers of the main manufacturers of both vehicles and subsystems, as well as of the main railway operators at a national scope.

With our commitment to innovation, we guarantee full traceability of supplies from their origin to their destination; we also provide

full documentary availability in terms of quality, flexibility in supply and competitive prices.

A portfolio of customers and projects fully established along with 25 years of experience are our best guarantee.

ZÖLLNER

ZÖLLNER ofrece soluciones flexibles para la industria ferroviaria, tranvía y metro. Nuestro SAAT SIL4-radio o cable garantiza que todos los vehículos ferroviarios que se acerquen a una zona de obra activan alarmas para proteger a todos los trabajadores.

El innovador sistema COBRA activa a distancia las eurobalizas para evitar que los trenes entren en determinadas zonas.

ZGP mide la velocidad del tren y puede actuar sobre los frenos para evitar el exceso de velocidad.

Zcloud conectividad es para verificar la seguridad de su obra en cualquier lugar y momento.

Con más de 75 años de experiencia, somos un socio fiable para sus preocupaciones de seguridad.

ZÖLLNER offers flexible solutions for the railway, light rail and metro industry.

Our MRWS SIL4-radio or cable systems ensure that all rail vehicles approaching a worksite activate warnings to protect all track workers enhancing safety on the tracks.

The innovative COBRA system, remotely activates Eurobalises to prevent trains from entering certain areas on ETCS routes. ZGP measures the train speed and can act on the train breaks avoiding overspeed. Wherever you are ZCloud allows you to monitor your devices at any time. We are your partner for your safety concerns with more than 75 years of experience.

Hall 25 // Stand 565



TYPSA GROUP

Over 55 years designing railways, metros and tramways

TYPSA is recognized as a rail engineering authority and the partner of choice for a large number of public and private companies to work in complex projects around the world.

Wide experience in high-speed rail and conventional railways:

TYPSA's railway infrastructure experience places the Group among Spain's top consulting firms, having participated in the planning, design and construction supervision of more than 6,500 km of high-speed lines and more than 7,200 km of conventional lines.

Participation in major international projects:

- Dar es Salaam-Mwanza and Kigoma-Tabora section railway expansion in Tanzania.
- New railway line between the cities of Yavatmal and Nanded in India.
- Four packages of the High-speed between London and Birmingham, in UK.
- High-speed networks in Sweden and Portugal
- High-speed railway (Track and OCS, in California, United States.

Wide experience in Metropolitan transport:

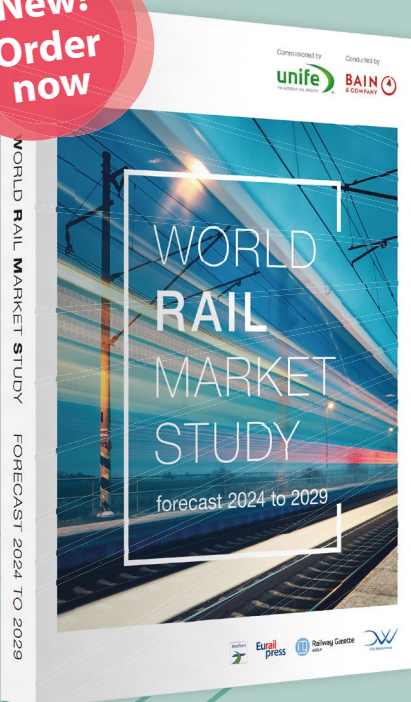


TYPSA has considerable experience in this field, not only in metros but also in light metro, tramways and commuter rail lines, and is a leader in design and works supervision. TYPSA has contributed to more than 560 km of metro lines including 420 stations, and more than 585 km of LRT or tramway lines with 335 stops, located in different countries.

Participation in major international projects:

- Sydney Metro West Line, Australia.
- Riyadh Metro, Lines 4, 5 & 6, Saudi Arabia.
- Toronto Metro, Eglinton Crosstown West LRT Extension, Canada.
- New Kanpur and Agra Metro Networks, India.
- Guadalajara Light Rail Line 4, Mexico.
- Stockholm Metro extension from Kungsträdgården to Nacka and Gullmarsplan, Sweden.
- Abu Dhabi Light Rail Transit Network, UAE.
- 3 new Lines in Monterrey Metro, Nuevo León, Mexico.
- São Paulo metro extensión, Line 4, Brazil.
- The new underground metro in Dhaka, Bangladesh.
- Capital Extension LRT in Phoenix, United States.

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