



ISAF
BUS
COMPONENTS srl

**A DOORWAY
TO THE FUTURE IN THE
RAILWAY
SECTOR**





PRODUCTION RANGE

Our company is a leading manufacturer of **doors** for **trains** and **buses**, but our expertise goes beyond this.

We also specialize in the design and production of accessories and **components** for the railway sector, such as windows, thresholds, guides, locks, fairings, and internal doors between carriages.

Thanks to our experience and the **innovative technologies** we use, we offer customized, high-quality solutions designed to meet the specific needs of our clients while ensuring the highest standards of safety, functionality, and design.

HISTORY



ISAF has a rich history of innovation and collaboration in the railway sector. Here's an overview of its development:

1970s-1980s: Establishment and Early Activity:

ISAF began its journey by specializing in the production of windows for the railway sector. This period laid the foundation for its expertise and reputation in crafting high-quality components tailored to the needs of railway transportation.

1990s: Expansion into Door Production

During this decade, ISAF expanded its production capabilities by venturing into the manufacturing of doors for the railway sector. This was made possible through strategic collaborations with some of the most prominent companies of the time, including:

- Fiat Ferroviaria Savigliano
- Breda
- Socimi
- Sab Wabco
- Firema

These partnerships enabled ISAF to deliver doors for several landmark railway projects, further cementing its position as a reliable and innovative supplier within the industry.

CONCEPT IN BUSINESS

ISAF's involvement in the **subway sector** represents a significant milestone in its history of innovation and excellence in transportation solutions. During the 1990s, the company made notable contributions by supplying doors for various high-profile subway projects around the world.

ISAF's evolution during the 1990s highlights its resilience and ability to adapt to changing market conditions, particularly during a challenging period in the **railway sector**. Here's a detailed account of its contributions and strategic decisions:

- Contributions to Train Project
- Strategic Shift During the Railway Sector Crisis (1992-1993)



DOORS

These projects highlight ISAF's remarkable ability to adapt and innovate, meeting the specific requirements of subway systems worldwide while navigating turbulent periods with unwavering commitment to quality. This resilience and forward-thinking approach have solidified ISAF's reputation as a dynamic leader in the transportation sector.





A leader in the production of high-performance windows for trains, designed to withstand the most demanding operating conditions.

Windows designed with precision, featuring anti-corrosion treatments and acoustic and thermal insulation to ensure passenger comfort.

Custom materials (laminated, anti-glare, vandal-proof glass) and adaptable designs to meet each customer's specific requirements.

Key Features:

- High-performance glass with UV protection
- Optimal thermal and acoustic insulation
- Customizable opening options
- Impact and weather resistance

SUBWAY



01 Medellìn (Colombia Metro)

ISAF provided high-quality doors for the Colombia Metro, ensuring safety and durability in a bustling urban environment.

02 Washington (Washington Metro)

Collaborating on projects for the Washington Metro, ISAF's products contributed to one of the most prominent public transit systems in the United States.

03 Cairo (Cairo Metro)

ISAF delivered doors tailored to the Cairo Metro, Africa's first and busiest subway system, known for its challenging operational conditions.

04 Rome Lido Line (Italy)

Supplying doors leaf for the Rome-Lido railway, a vital commuter line connecting Rome with the coastal area of Lido di Ostia.

05 Corsica

Although not a traditional subway, ISAF's expertise was applied in Corsica's transportation sector, providing robust solutions suitable for the region's unique needs.

06 Milan Line 3 (Italy)

ISAF contributed to the Milan Metro Line 3, one of the city's major underground lines, recognized for its high passenger traffic and demanding operational standards.

RAILWAY

CONTRIBUTIONS TO TRAIN PROJECTS



01

ETR 460/500 (High-Speed Trains)

ISAF played a key role in the production of critical components for Italy's high-speed train series:

- Underbody Fairings: Designed to improve aerodynamics and efficiency.
- Locomotive Doors leaf: Engineered for durability and reliability under high-speed conditions.
- Cab and Cab Windows: Built to provide safety and visibility for operators, maintaining high standards of quality and precision.

02

Westinghouse Z1 Carriages

ISAF supplied essential components for the Westinghouse Z1 carriages, further demonstrating its capacity to support international projects with tailored solutions.

03

Medium-Distance Train Doors

By delivering high-quality doors leaf for medium-distance trains, ISAF supported the modernization of rail systems, ensuring passenger safety and comfort.

STRATEGIC SHIFT DURING THE RAILWAY SECTOR CRISIS (1992-1993)

In the early 1990s, the Italian railway sector faced a severe crisis, marked by the closure of several major manufacturing companies. Recognizing the need for diversification, ISAF made a pivotal decision to shift its focus toward bus door production.

Market Leadership



ISAF quickly established itself as a European and global leader in the production of bus doors.

Innovation and Expansion



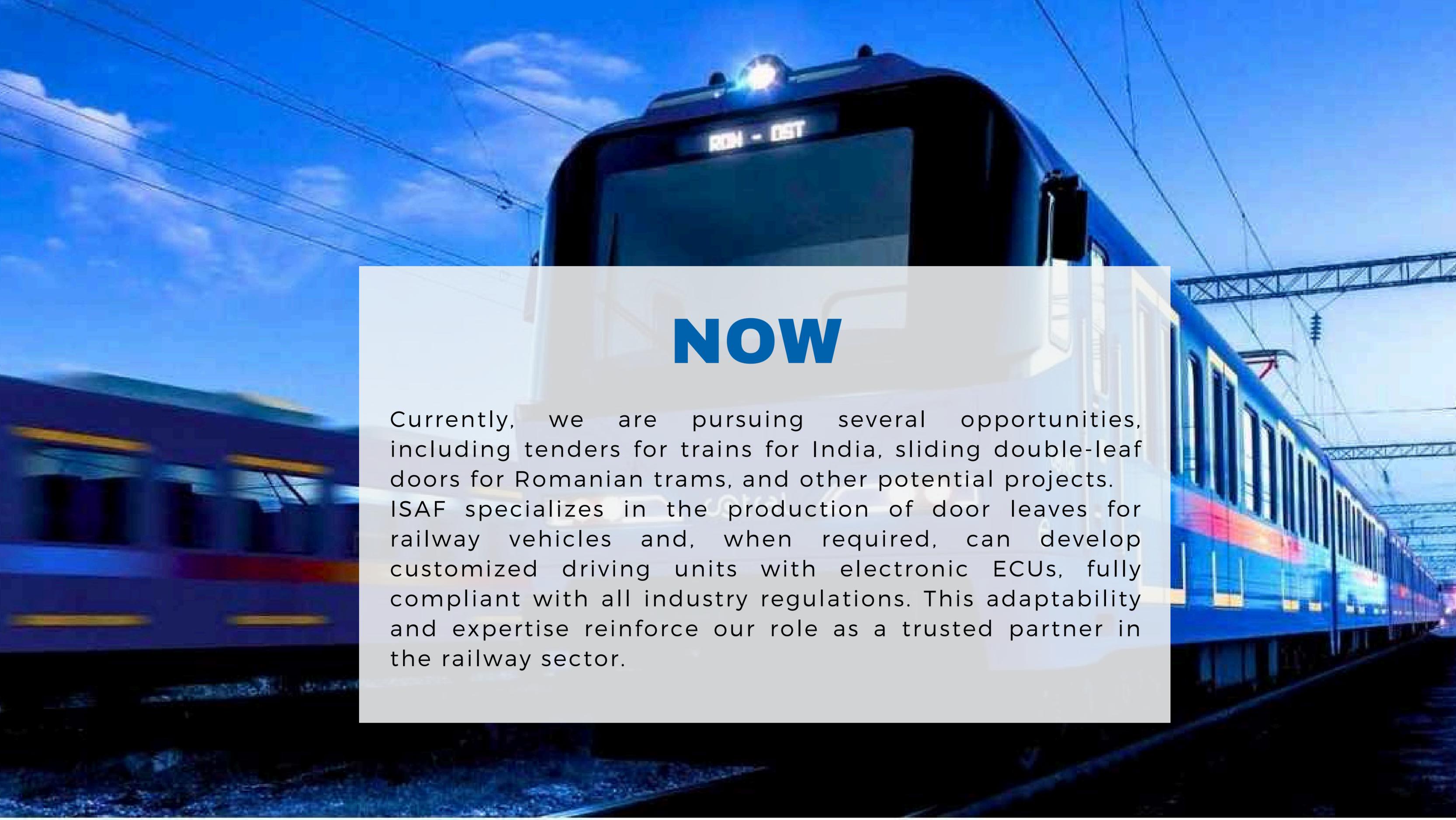
The company leveraged its expertise in design and manufacturing to dominate this new market, providing advanced solutions that met the evolving needs of the transportation industry.

NOWDAYS

In recent years, ISAF has successfully re-entered the railway sector, a move that began just 6-7 years ago. Since then, our turnover in this field has grown steadily and continues to rise. We have contributed to numerous notable projects, including:

- Subway systems: Naples, Circumvesuviana.
- Trams: Projects like Belkommunmash (Belarus), where we supplied complete doors leaf with electric sliding controls.
- Trains: complete doors for Mermec diagnostic trains, currently equipped with manual sliding driving units, which can be upgraded to pneumatic or electric systems if needed.
- Train Renovation of TAF trains, Turin trams, Rome-Viterbo line.





NOW

Currently, we are pursuing several opportunities, including tenders for trains for India, sliding double-leaf doors for Romanian trams, and other potential projects. ISAF specializes in the production of door leaves for railway vehicles and, when required, can develop customized driving units with electronic ECUs, fully compliant with all industry regulations. This adaptability and expertise reinforce our role as a trusted partner in the railway sector.

OUR CERTIFICATIONS

The principles of sustainable development (value creation, sustainable environmental performance and corporate social responsibility) are an integral part of our business strategy. Our approach to sustainable development also includes the collaboration relationship with our suppliers.



IATF 16949



UNI EN ISO 14001



UNI EN ISO 9001

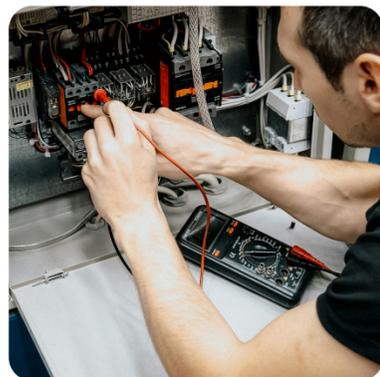
SPECIFIC CERTIFICATIONS FOR RAILWAY

To strengthen our presence in the railway sector and ensure the highest level of expertise, we are already working according to the certification for EN 15085 (Welding) and we have recently started the process to get certified DIN 6701 A1 (Bonding). These certifications are essential to operate according to the standards of excellence demanded by the railway market.

Our staff is certified for assembly and maintenance.

ECM

Maintenance



DIN 6701 A1

Bonding



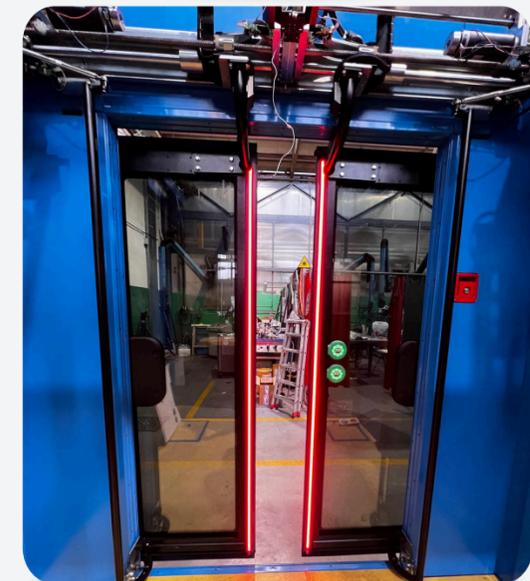
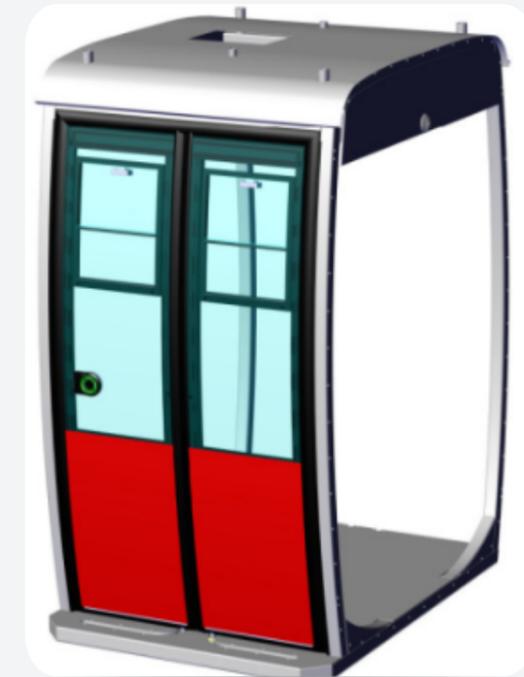
EN 15085

Welding



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THANK YOU

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