



COMPANY PROFILE

2025

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BERKOL



LAZZERI



USLENGHI



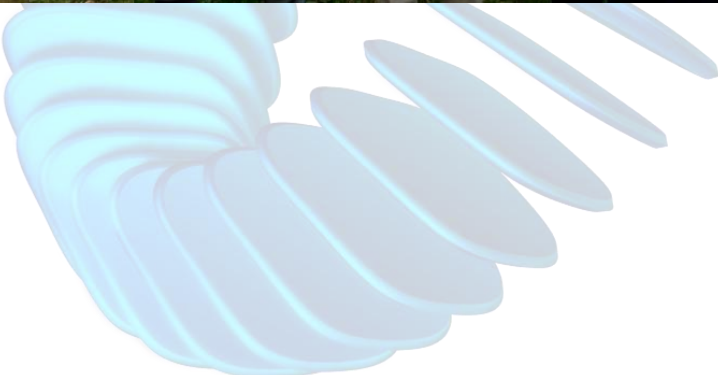
EID

EXCELLENCE IN OUR ROOTS

BLUE Engineering, founded in 1993, provides specific design services to fields of excellence, such as automotive, railway and aerospace. The robust multisectoral know-how and the unique specialization in numerical analysis distinguish us on the market and permit us to give you the highest quality level during all the development stages: **concept & styling, design, engineering, virtual prototyping simulation, testing validating and ICT.**



Multi-disciplinary team



For a development project to be successful, it is essential to integrate skills across all areas, including design, functionality, and innovation. A group of **expert designers, engineers, and technicians** collaborating closely, maximising efficiency and delivering consistently dependable results.

The organization is consistently prepared to tackle new challenges due to its talented and highly driven workforce. The team prioritizes investment in professional development and training to enhance knowledge and skills.

MULTI-SECTOR DESIGN & ENGINEERING EXCELLENCE



AUTOMOTIVE



AERONAUTICS



AEROSPACE



RAILWAY



MARINE



ARCHITECTURE



ITC-INDUSTRIAL

WHAT WE DO

- TURN-KEY DEVELOPMENT
- PLATFORM MANAGEMENT
- CONTRACTOR COORDINATION
- TECHNICAL SPECIFICATION
- TARGET SETTING
- TECHNICAL DOCUMENTATION
- COST ANALYSIS AND RISK ASSESSMENT

BLUE ADVANTAGES

- DESIGN THINKING
- INNOVATIVE COST OPTIMIZATION
- EFFECTIVE PROCESSING METHODS
- OPTIMIZED CAD-FEM-CAE INTEGRATION
- MULTIDISCIPLINARY PROBLEM-SOLVING
- HIGHLY SKILLED TEAM
- UNMATCHED SERVICE FLEXIBILITY

INTEGRATED DESIGN AND ENGINEERING

- CRAFTING UNIQUE PRODUCT IDENTITIES
- BRIDGING DESIGN AND TECHNOLOGY
- ENHANCING QUALITY OF USER EXPERIENCE
- DEFINING AND ENABLING PRODUCT SUCCESS
- COMPLEX SYSTEMS INTEGRATION
- EXPRESSING LOCAL CULTURAL IDENTITY
- DEVELOPING AND IMPROVING LOCAL SUPPLY CHAIN

Located in one the industrial core region of Europe and with its advantages in terms of technology, market, talent and scientific research, BLUE has been successfully engaged in the technical service of transportation products for 30+ years.

Automotive

TRANSFORMING CONCEPTS FROM WHITE PAPER TO PROTOTYPE.

BLUE's automotive development efforts span the globe, serving clients from regions including the EU, China, and the Middle East.

The company offers **TURN-KEY DEVELOPMENT** along with specialized services such as artistic modeling, integrated automotive engineering, simulation analysis, prototype vehicle production, test and homologation management, and ICT for mass production lines.



IVECO



Jeep



Railway

FROM WHITE PAPER TO HOMOLOGATION

The company has a wealth of experience in designing various rail vehicles, which includes **high-speed trains**, EMU, DMU, articulated vehicles, pendulum vehicles, light rail, low-floor, subway, single-decker passenger cars, double-deck passenger cars, bogies, and testing equipment.

Blue is capable of delivering **turn-key project** designs for rail vehicles. Specifically, we possess technical expertise in body design, bogie development, and simulation analysis. Additionally, we have the capability to integrate these skills into other relevant areas.



中车唐山机车车辆有限公司
CRRC TANGSHAN CO., LTD.



中车长春轨道客车股份有限公司
CRRC CHANGCHUN RAILWAY VEHICLES CO., LTD.



Aerospace

VALIDATE AND IMPROVE DESIGN SOLUTIONS

BLUE aerospace collaborates primarily with the European Space Agency and significant aviation and aerospace firms in Italy.

The company offers **services including innovative concepts, theoretical models, aerodynamic analysis, and structural design technology.** Recently, BLUE has broadened its offerings to include structural design, simulation analysis, modeling, testing and certification, along with various design service capabilities for projects.

AIRCRAFT



PRIMARY/SECONDARY &
SUBSYSTEM
COMPONENTS



HELICOPTER



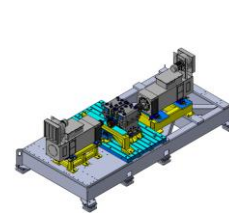
ISS – INTERNATIONAL
SPACE STATION



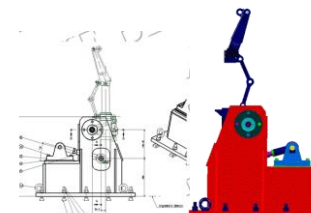
Tailored Test Tools

FROM CONCEPT TO FULL COMMISSIONING

Due to BLUE's vast expertise in test bench engineering, the firm has been selected to create the **16 test benches for the Italian National Railways Test and Certification Centre**, along with developing the test bench for aircraft components. In the past few years, the company has begun offering engineering design services that include the comprehensive design of the test rig, development of testing programs, layout of test sites, and design of process tooling.



SPUR GEAR TEST
BENCH



HELICOPTER TEST
BENCH



DYNAMOMETER



CARBODY



AXLE BOXES



AXLE



TWISTED & SOUPLLESS



MES - Industrial Automation

TURN-KEY TAYLORED SOFTWARE SOLUTION

With its proficiency in product design, software engineering, and information technology, BLUE offers industrial automation technology services to leading automotive manufacturers and parts suppliers in Italy.

BLUE delivers engineering design services that include **smart plant layout, production line configuration, equipment selection, application software development, big data management, quality control, and smart logistics management.** This year, the company is actively participating in the "Industry 4.0" initiative focused on intelligent plant technical services.



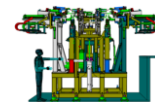
AUTOMATION
SYSTEMS



TRACEABILITY



MANUFACTURING
& LOGISTICS
INFORMATION
TECHNOLOGY



SOFTWARE
PLC & SCADA

Maritime

VALIDATE AND ENHANCE DESIGN SOLUTIONS

The primary partners of BLUE Maritime are yacht manufacturing firms based in Italy. BLUE offers **expert simulation analysis and structural design services**, with a particular emphasis on simulating fluid and gas composite dynamics. Recently, the company has expanded its offerings to include engineering design, graphic design, structural design, and simulation analysis.

YACHT



SPECIAL SHIP



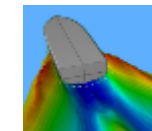
SPEEDBOAT



MEGA YACHT



FLUIDO



MEGA YACHT



Scientific Research

KNOWLEDGE ENHANCEMENT

Over the last three decades, BLUE has enhanced its expertise through participation in various scientific research initiatives in the EU and Italy. These projects spanned multiple disciplines, including **aerospace, automotive, rail vehicles, computing techniques, and software systems**. The research and development outcomes produced by the company have been successfully implemented in practical applications, yielding favorable results.



SELECTED SUCCESS CASES

CHEVROLET NIVA Next Generation Concept

Unveiling at the MIAS – 2014



MICROCAR MODULAR EV CITICAR



MASERATI

- MC20 - Hypercar
- GRECALE - Luxury SUV
- GTS GRANTURISMO - Luxury Sportcar



LAMBORGHINI

- HURACAN - Hypercar
- AVENTADOR - Hypercar
- REVUELTO - Hypercar
- URUS - SUV Sportcar



FERRARI (Italy)

- PUROSANGUE - Luxury Sportcar



AUDI VOLKSWAGEN

- Q3 SUV
- Q5 SUV



VINFAST: supporting the first Vietnam Electric Car domestic Brand

Structural simulation and validation of the whole range: small, medium and large SUV's.

VF6



2023 | eSUV

VF7



2023 | eSUV

VF8



2023 | eSUV

VF9



2023 | eSUV

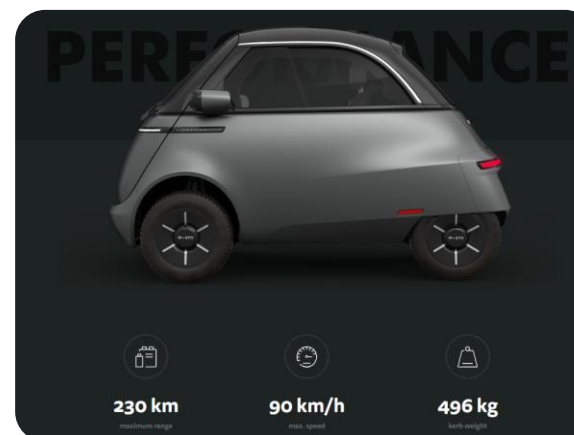


V I N F A S T



CECOMP – MICROLINO (Italy).

Evolution of the Vintage car BMW Isetta, Microlino is the ideal mix between Motorbike and Car.
With this project the Customer started the new factory in Italy for the Microlino production.



Because I care



100% electric
Zero emissions



65% lower energy consumption
needs less energy during both production and driving than any other car



50% fewer parts
less energy consumed and less maintenance required

CLEAN



A/C SKYPOD

First Full Air-Conditioned SKY POD in the world

IDA Design Award winner 2024

Patented technology



GONDOLA LIFT integrated features

 entertainment and information systems
screens, wifi, audio system

 Air Purifier integrated with
on-board A/C system

    Priority seating

 Solar panels for integrated green
and renewable energy system



FRECCIAROSSA (Italy) - co-developed by BLUE

High-Speed train 360 km/h



- Number built 30 trainsets
- Formation 11-car trainset
- Capacity 187 (1st class) 469 (2nd class)
- Operators FS/Trenitalia
- Train length 327.6 m (1,074 ft 10 in)
- Maximum speed 300 km/h (190 mph)
- Weight 598 t (589 long tons; 659 short tons)
- Power output 8,800 kW (11,801 hp)
- Electric system(s) Overhead catenary, 3 kV DC
- Current collector(s) Pantograph
- Safety system(s) RS4, SCMT
- Track gauge 1,435 mm (4 ft 8+1/2 in) std

1997: FIAT and BLUE engineering collaboration
1998: regular service in Italy
2012: refurbishing/facelift

GAZIRAY - EMU (TUVASAS) SERVICE FORESEEN IN 2024



MAIN TECHNICAL CHARACTERISTICS

- | | |
|---------------------|---------------|
| • Train composition | 4 vehicles |
| • 1000 passenger | +2PRM |
| • Voltage | 25 KV |
| • Track gauge | 1435 mm |
| • Max speed | 120 Km/h |
| • Max axle load | 8,5 t/axle |
| • Standards | TS/IEC/EN/UIC |

TECHNOLOGY TRANSFER





INNOVATIVE ROLLING STOCK BOGIE

- Articulated Bogie Frame
- Reduced weight, wear and tear
- Lower maintenance
- Carbon fiber reinforced plastic frame (no welding)



SLEEPING COACHES INDIA (TITAGARH)

TECHNOLOGY TRANSFER



MAIN TECHNICAL CHARACTERISTICS

Train composition	16 vehicles (4 groups of four vehicles) DTC+MC+TC+MC
Voltage	25KV
Gauge	Indian
Track gauge	1676 mm
Max speed	160 Km/h
Max axle load	17 t/axle
Standards	IEC/EN/UIC + Indian standard



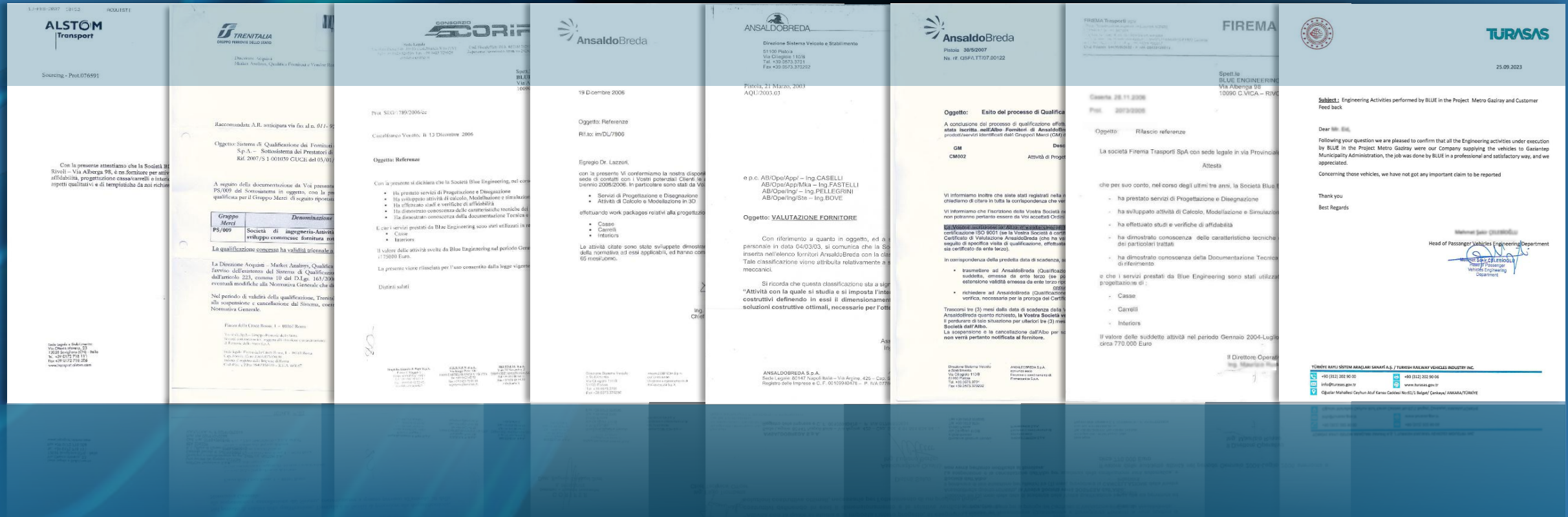
TCDD – TBE NATIONAL EMU 160 (TURASAS) OPERATIONAL SERVICE SINCE 27.04.2023

MAIN TECHNICAL CHARACTERISTICS

- Train composition 3-6 vehicles
410 seat passengers +2PRM
- Voltage 25 KV
- Gauge European EN15273 G2 + GI2
- Track gauge 1435 mm
- Max speed 160 Km/h
- Max axle load 18 t/axle
- Standards TSI/IEC/EN/UIC



ROLLING STOCK CLIENT'S REFERENCES





DIN EN ISO 9001:2015



ISO/IEC 27001:2013



WELDING CERTIFICATE

Quality Certifications

The concept of quality drives our thoughts, resources, and actions. Our current level of progress and the foundation for future growth stem from this motivating force. Quality is what we aim to convey in every word and image. Our goal now is to substantiate this idea with factual evidence. The expertise, knowledge, and capabilities of **BLUE Engineering** are fully demonstrated through the projects we undertake for our clients.

BLUE Engineering is a part of your product.

BLUE Engineering is present in the innovations sought by the market, in the utmost reliability, and in the economic factors that align with the quality you rightfully expect.

INSTITUTIONAL NETWORK

Blue Engineering is part of important Italian and European institutions, public agencies and associations



*Together as One
Driven by Innovation, Trusted for Reliability.*



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**LET'S SHAPE THE
FUTURE TOGETHER**

