



DESIGN AT HIGH SPEED

MULTIDISCIPLINARY
RAILWAY ENGINEERING.

FROM CONCEPT TO
PRODUCTION SUPPORT.

More than mechanical design

THE COMPANY

S.I.D.E.P. is a multidisciplinary engineering company founded in 2010, with headquarters in Livorno and a branch office in Pistoia dedicated to electrical design.

SINCE 2010

Our team supports rolling stock manufacturers and operators throughout complex projects, combining mechanical, electrical and structural design with numerical simulation, systems integration and direct support on the shop floor.



30+ PEOPLE



2 OFFICES
Livorno - Pistoia



ISO 9001 · EN 15085-2
Certified engineering

WHERE WE STEP IN

Concept & feasibility · Design · CAE simulation ·
Systems integration · Compatibility & homologation ·
Production support · Revamping & retrofit

What we do



SCAN THE QR CODE AND EXPLORE OUR WEBSITE

MECHANICAL DESIGN & SYSTEM INTEGRATION

Carbodies, bogies, cabs and interiors. Vehicle layout, underframe and roof arrangement, electrical and pneumatic system integration, ergonomics and weight management.

CAE & ENGINEERING ANALYSIS

FEM structural, fatigue, crash, vibration, acoustic and thermal analysis. Weight and cost optimization, numerical-test correlation, non-compliance resolution.

ELECTRONIC SYSTEMS DEVELOPMENT

In-house hardware and software: microcontroller boards, custom sensors, AC/DC and DC/DC converters, embedded systems, apps and web interfaces. Including the Train Log-S event recorder.

REVAMPING & REVERSE ENGINEERING

Design updating to current standards (EN 45545, TSI-PRM), on-site surveys and 3D scanning, from point cloud to parametric CAD model.

TECHNICAL DOCUMENTATION

Maintenance and installation manuals, spare parts catalogues with exploded views, technical documentation supporting homologation.

COMPATIBILITY & TRACK INTERFACE

Static, kinematic and dynamic gauging (EN 15273, RGS), track negotiation and coupling studies, PTI and stepping distance assessments.

MAINTENANCE VEHICLES & FREIGHT WAGONS

Turnkey design of structures, cab, wheelsets, electrical, hydraulic and pneumatic systems, according to EN 14033 and the latest RFI Road Map.



DISCOVER OUR WEBSITE:



CONTACTS

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ISO 9001 · EN 15085-2 | Since 2010

HEADQUARTERS

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