



Choose certainty.
Add value.

Technical Documentation services

Product-related information from a
single source



Your challenges

Documentation is an essential part of many phases throughout the product life cycle, from the design and detailed development stages to approval and drafting of maintenance records. During the life cycle of rail vehicles, product-related information is always subject to requirements set forth for documentation by standards and legal frameworks. Provision of information to ensure safe vehicle operation requires sophisticated documentation concepts. At the interface between owner and operator, a variety of needs imposed by differing standards and project-related requirements must be managed. High-quality documentation fosters successful sales and supports smooth approval procedures, fault-free operation and long-term customer relationships.

How can we help you?

Our Technical Documentation unit provides you with valuable support in preparing complete vehicle documentation right from the development stage of

your vehicle. Our Berlin offices house our versatile team of highly trained technical editors, in state of the art offices equipped with all the necessary editing and graphic design tools. We are one of the first rail sector service providers in the world to use linguistic software in optimising documentation terminology and style. Our experts are charged with preparing safety-relevant instructive and informative data in conformity with regulations, in the form of user-specific instructions or complete vehicle documentation. The documentation they produce is structured and straightforward to navigate, with easy-to-find information.

Our Technical Documentation services

Offering long-standing experience in the field of Technical Documentation, we provide integrated support in producing and editing information from every stage of your vehicle's life cycle. We produce rail drivers' and operating manuals based on clients' control technology and operating concepts, and draw



up service-oriented schedules of preventive/corrective maintenance measures. Supplier documentation and maintenance plans are not only our basis for producing your task-based maintenance documentation; we also benefit your maintenance management by delivering systematic plans and schedules for the actions you need. Our interactive electronic parts catalogues easily enable your technical staff to identify parts or order components. The project is concluded with the completion of the Technical Documentation for the operator, reflecting the state of the art of your vehicle development. All documents are produced to a hierarchical structure and delivered in electronic and hard-copy formats. Electronic documentation is linked (e.g. service information with parts information). Our portfolio of services is completed by HTML documents and HTML online help.

Our expertise in the increasingly complex requirements of standards and regulations is international and always state of the art. We take the following standards into account:

- Ril 900.503, Ril 900.504, Ril 984 26, Ril 915 02
- TSI 2011/291/EU, VO (EU) 321/2013
- 2006/42/EG
- DIN EN 82079, ISO 3864, ANSI Z535

References (selected)

Multiple units

- Stadler Pankow GmbH: FLIRT ENR, KISS (VNS, CFL)

Light rail vehicles

- Bombardier Transportation: dual-system light rail vehicles Karlsruhe ET 2010, trams Frankfurt U5

Metro systems

- Bombardier Transportation: Singapore Downtown Line (DTL)

Locomotives

- Bombardier Transportation: TRAXX 140 DE
- Siemens Transportation Systems: Europrinter ES64U4, DJ4/HXD1, BR189
- Vossloh Locomotives: G2000BB, G1206BB

Operating manuals

- Vossloh Kiepe GmbH: BNU 547 converters, roof-mounted cooling systems for Tramlink 6N2 Rostock

Rolling stock approval

(Editorial support of certification as per TSI/PRM, production of type test reports)

- Alstom: Lint
- Bombardier Transportation: Talent2

Your business benefits

- **Minimise risk** – by commissioning our highly professional team to produce complete, instructive and user-friendly manuals and documentation.
- **Save time and money** – because we apply our experience in results-oriented methods that address your requirements and processes.

Why TÜV SÜD?

TÜV SÜD has nearly half a century of experience in the rail sector, with extensive editorial and technological expertise in the field of Technical Documentation. Our specialist knowledge and modern team-based organisation is our starting-point for delivering consistently high-quality results in words and images. Our experts hold qualifications in communications, languages and documentation processes.

Choose certainty. Add value.

TÜV SÜD is a premium quality, safety and sustainability solutions provider that specialises in testing, inspection, auditing, certification, training and knowledge services. Represented in over 800 locations worldwide, we hold accreditations in Europe, the Americas, the Middle East, Asia and Africa. By delivering objective solutions to our customers, we add tangible value to businesses, consumers and the environment.

Related Services

TÜV SÜD provides the following related services:

- Publication and visualisation services
- Testing and certification services (DIN EN 82079)