

5L next –
next generation of
freight wagons.

EP Freight – mechatronic brake control for freight cars

Knorr-Bremse AG

EP Freight – mechatronic brake control for freight cars.



EP Freight – mechatronic brake control for freight cars.

5L next – next generation of freight wagons.

Market changes, such as the fast-paced innovation on the roads or rising customer demands, are posing major challenges for European rail freight companies. But opportunities opened up by new technology offer great potential for developing the efficiency of freight services.

Innovative freight wagons are key to being able to take full advantage of the Internet of Things (IoT) and automation. As part of the 5L initiative, SBB Cargo, Hupac, VTG and the Federal Office for the Environment (FOEN) as well as many suppliers are developing the next generation of freight wagons.

The next generation is being completely redesigned. The chassis, for example, is considerably lighter than that of a conventional standard flat wagon. The middle segment is not welded but riveted and bolted – just like the lightweight production methods from the lorry sector. SBB Cargo's extensive modernisation steps offer major benefits for customers, wagon keepers, railway undertakings and infrastructure. Find out more at www.sbbcargo.com/innovation

Contact.

SBB Cargo AG, Olten, Schweiz
media.relations@sbbcargo.com / www.sbbcargo.com

EP Freight is a mechatronic brake control system offering groundbreaking functionality for making rail transport sustainably competitive. Featuring seamless interaction of electronics, software and pneumatics it sets a new standard for future-viable freight trains with high degree of automation capabilities.

EP Freight combines in a standardized, compact and modular design a variety of benefits making it perfectly suitable for the requirements of tomorrow's freight cars and trains. The system provides full electro-pneumatic brake control and comes along with integrated wheel slide protection. At the same time piping is reduced to a minimum as one main pipe is enough to realize the system functionality. EP Freight makes available important features being imperative to ensure successful rail freight in future. Amongst that is the ability to incorporate I/O extension devices allowing flexible adaption of process automation needs. It supports optimization of brake mechanics and operational functions by providing brake disc temperature monitoring, deceleration control and processing electronic as well as pneumatic load signals. Additional features like parking brake control, derailment detection and the input from a distributor valve to allow a pneumatic backup brake pipe control system complete the comprehensive capabilities. Finally, it offers flexible connectivity due to various train bus connections.

Company.

Knorr-Bremse is the global market leader for braking systems and a leading supplier of other safety-critical rail and commercial vehicle subsystems. Knorr-Bremse's products make a decisive contribution to greater safety and energy efficiency on rail tracks and roads around the world. Approximately 29,000 employees at over 100 sites in more than 30 countries use their competence and motivation to satisfy customers worldwide with products and services. For more than 110 years the company has been the industry innovator, driving innovation in mobility and transportation technologies with an edge in connected system solutions. Knorr-Bremse is one of Germany's most successful industrial companies and profits from the key global megatrends: urbanization, eco-efficiency, digitization and automated driving.

Contact.

Knorr-Bremse AG, D-80809 München
Tel.: +49 89 3547-0, E-Mail: info@knorr-bremse.com