

## *Fire protection for rolling stock*

Dear Ladies and Gentlemen,

InnoTrans is just around the corner and the rail industry can hardly wait to finally get back into direct contact with customers, interested parties and companions at this major international event. And we, as a worldwide expert in fire protection for rail vehicles, will also be there. This time under the umbrella of the Swiss association Swiss Rail. We are looking forward to numerous talks and opportunities to exchange information about our innovative solutions and exciting references. And if you want to get a first impression of the latter, drop by the outdoor area of the Berlin exhibition grounds. More than 3,500 linear meters of rail will be laid there. Many innovations from train manufacturers such as Siemens, Alstom, Stadler and other suppliers will be on display – where fire protection is installed – often equipped with the innovative solutions from WAGNER Rail.

But it's not just the upcoming trade fair that's on our minds at the moment. The issue of sustainability plays a very important role in rail transport. The entire industry is undergoing a radical change toward zero emissions and is therefore looking for alternative drive systems. Because what has become apparent as if through a magnifying glass for current events around the world – not only Russia's terrible war against Ukraine, but also since the last InnoTrans various environmental disasters attributable to climate change, such as droughts, forest fires and floods: There must be a path away from fossil fuels – for less dependency and for active climate protection. WAGNER Rail is making its contribution here with its sophisticated, individual solutions for passenger and technical areas. After all, not allowing a fire to start, which can sometimes produce toxic fire by-products, and contaminating extinguishing water, which in turn has to be disposed of, is still the best way to protect the environment.

We hope you enjoy reading this issue. Stay healthy and keep riding the train!

With kind regards  
Dr. Markus Müller, Managing Director WAGNER Rail GmbH

# TRAVERSO TRAINS RUN THE MOST BEAUTIFUL ROUTES IN SWITZERLAND

## WAGNER Rail installs fire suppression system for comprehensive fire protection

As part of the cooperation between the Swiss Südostbahn AG (SOB) and the Swiss Federal Railways AG (SBB), the Traverso operates as a panoramic train on the old Gotthard mountain route. To Locarno via the Gotthard route, the train alternates from Basel and from Zurich. The Traverso trains will also operate between Bern, Zurich and Chur (Aare Linth) and Lucerne and St. Gallen (Voralpen-Express). With a customized solution consisting of water mist technology and fire detection, WAGNER Rail provides ideal fire protection in the Traverso.

The Gotthard mountain route is united by impressive mountains, lakes and engineering and is one of the most spectacular railroad lines in Switzerland. From the train, many natural landscapes can be discovered from Zurich, Basel and Lucerne towards Ticino. The connections on the Gotthard mountain route are served by the Traversos designed by train builder Stadler. These are 24 eight-car, copper-colored long-distance low-floor multiple units, each of which has 359 seats.

The individual fire protection solution from WAGNER Rail was used here as follows: To protect all passengers and train staff, a water mist system in combination with SIL-1 approved smoke detectors are installed in the passenger area of the Traverso trains. The fire detectors detect fires at an early stage. Water is used as the extinguishing agent to fight the fire. This is sprayed from nozzles in very fine droplets. The fine water mist not only contains the fire, but also prevents the spread of toxic smoke gases. This side effect is particularly useful on long escape routes with limited visibility.

The high-quality Traverso panorama trains are thus optimally protected against fires. As a result, passengers can relax and enjoy the beautiful scenery. ■



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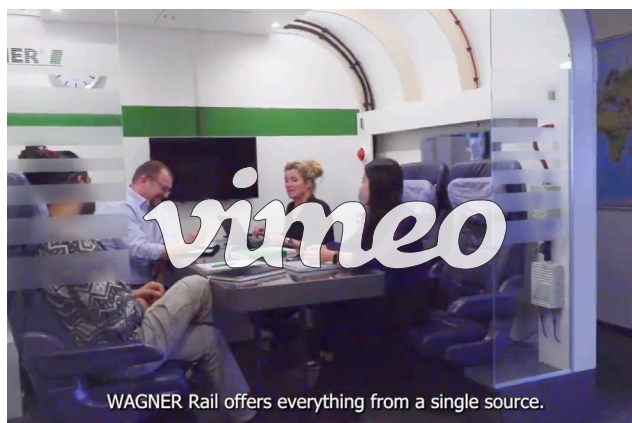
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## NEW IMAGE FILM SHOWS THE WORK OF WAGNER RAIL

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A look behind the scenes at the Munich site

New image film – produced via the Swiss association Swiss Rail – presents WAGNER Rail, shows innovative solutions and gives insights behind the scenes of the fire protection expert. ■



# INNOVATIVE FIRE PROTECTION GOES INNOTRANS

## The international trade fair takes place in Berlin

The 13th InnoTrans, the leading international trade fair for transport technology, will take place this year in Berlin from September 20 to 23, 2022. In 2018, InnoTrans already managed to become the world's leading international trade fair for the sector, with 3,062 exhibitors from 60 countries and the Berlin exhibition grounds completely occupied. This time, the 42 halls will be divided into five trade fair segments:

- Railway Technology
- Railway Infrastructure
- Public Transport- Interiors
- Tunnel Construction

The trade fair will be enhanced by the outstanding supporting program "InnoTrans Convention". In addition, you can

see everything from tank cars to high-speed trains on the open-air and track areas on 3,500 running meters of rail. Daily from 9 a.m. to 6 p.m. you can meet WAGNER Rail as fire protection expert for rail vehicles in hall 2.2 at the joint booth 250:

There WAGNER Rail will present innovative standalone fire protection systems for streetcars, light rail vehicles, elevated trains and people movers. These systems are equally suitable for new vehicles and retrofits of existing vehicles.

WAGNER Rail will also be exhibiting its standalone systems for early fire detection:

- TITANUS MICRO·SENS® and TITANUS PRO·SENS® air sampling smoke detectors.
- Smoke switches (multi-criteria detectors) "non SIL" or "SIL"

In addition, WAGNER Rail develops fire protection solutions for fire fighting (e.g. water mist) and fire extinguishing (with aerosol and inert/chemical gases). Thanks to WAGNER, trains and railroads are safe on the rails worldwide. Many reference customers trust in tailor-made fire protection from the expert. ■



# VIAGGIO LONG-DISTANCE TRAINS CONNECT JOURNEYS BETWEEN THE CZECH REPUBLIC AND AUSTRIA

## With fire protection from WAGNER Rail

**Faster and safer: this is the goal of the Czech rail operator České Drahy (CD) for the long-distance route. CD has therefore again ordered Viaggio Comfort trains from the Siemens and Škoda Transportation train construction cooperation project. The train sets with a total of 182 passenger coaches will receive fire protection from the experts at WAGNER Rail. The trains will be used mainly on the Prague – Ústí nad Labem – Berlin – Hamburg route, but operation on the Prague – Brno – Budapest and Prague – Brno – Vienna – Graz – Villach routes is also possible.**

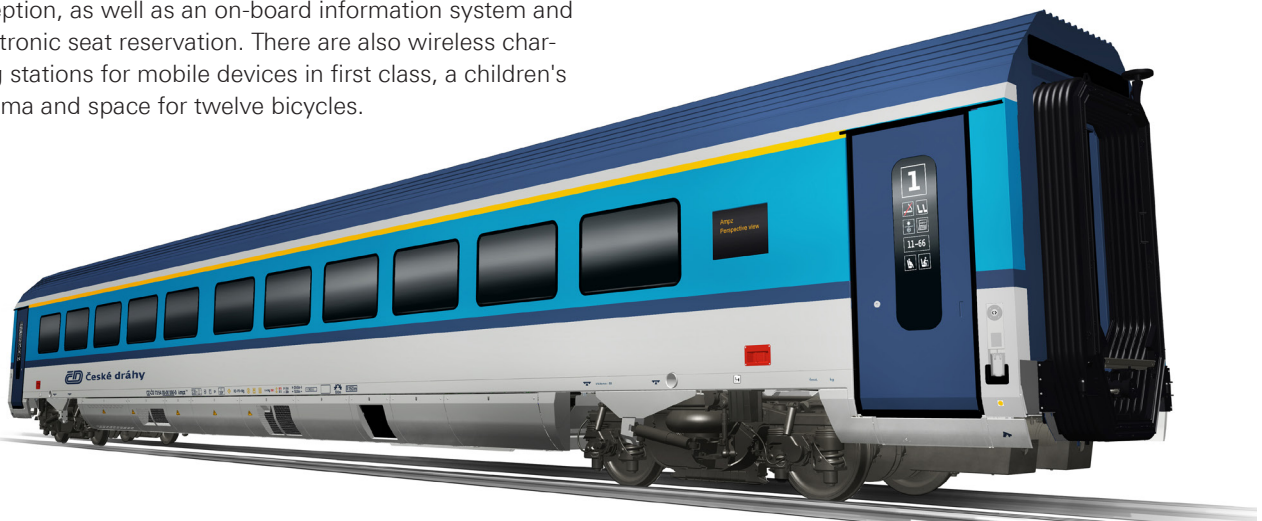
WAGNER ensures the highest level of protection for passengers with active early fire detection. This is because they are given a particularly large amount of space in the modern trains, which can travel at speeds of up to 230 km/h. The trains are equipped with barrier-free access. These feature barrier-free access, reclining seats in first and second class, charging ports for e-bikes and modern bistro cars. The cars are equipped as standard with WLAN, frequency-permeable windows for stable cell phone reception, as well as an on-board information system and electronic seat reservation. There are also wireless charging stations for mobile devices in first class, a children's cinema and space for twelve bicycles.

The fire protection solution is as follows: The technical areas will be equipped with linear heat detectors. In the passenger areas, air sampling smoke detectors from the TITANUS® Components Professional series, or C-Pro series for short, are used. The core of this modular system is a TITANUS MICRO-SENS®, a flexible aspirating pipe and the associated connecting elements. The advantages of this solution are:

- Fast, simple and safe to use installation with a savings time of up to 50 percent
- Clear identification as an early fire detection system through the use of red intake pipes
- A patented connection plug-in technology prevents leaks in the intake pipe system

For a functioning interaction, all detectors are connected to a Rail 256 fire alarm control panel, so that in the event of an alarm or malfunction, the message can be forwarded quickly and precisely and appropriate countermeasures can be initiated.

From 2024, the first trains should be on the rails – with the highest level of protection from WAGNER Rail. ■



Viaggio trains run between the Czech Republic, Germany and Austria