

SAF TRAKr

Powerful e-axle for heavy-load traffic





Towards e-mobility with SAF-HOLLAND.

Heavy-load traffic will be electric, green and quiet.

The future runs on electricity.

Stricter CO₂ legislation and bans on diesel-operated vehicles in inner cities.

According to Europe-wide directives, new trucks must have significantly lower CO₂ emissions. By 2050, all traffic is supposed to be emission-free. So there is an urgent need for vehicle manufacturers and fleet managers to act.

Electromobility as a technology changer.

Electrification is the game changer and future enabler for the commercial vehicle industry. This is because electromobility provides emission-free commercial vehicles and sustainable eco-friendly logistics and transport processes through innovative technologies.

Join us in pushing the electrical transformation.
The electrified trailer axles from SAF-HOLLAND prepare heavy-load traffic for the future.



Powerful e-axle for heavy-load traffic.

Convert your vehicles with SAF-HOLLAND, the leader in this technology.

SAF-HOLLAND pioneers e-axles for heavy-load traffic. As a leading global supplier for the commercial vehicle industry, we develop innovative solutions for an optimized and resource-friendly world of transport. Our vision is to shape the industry with sustainable and future-proof solutions. After all: every saved litre of diesel counts.

Our e-axle systems were specially developed in dialogue with our customers to meet the stringent demands of heavy-load traffic. The e-axle SAF TRAKr for large trailers makes commercial vehicles greener, quieter and more efficient.

Sustainable. Economical. Future-proof.



The future of e-transport.

The e-axle SAF TRAKr: powerful e-axle for large trailers.

Advantages at a glance



Lower fuel consumption, fewer CO, emissions

The e-axle SAF TRAKr uses kinetic energy of the vehicle to generate additional energy that relieves the vehicle and its units on the road. This lowers fuel consumption and carbon emissions and thus makes a valuable contribution towards achieving the emission targets.



Noise protection through noise reduction

The quiet e-axle reduce the noise of refrigerated trucks and similar vehicles on the road and reduce noise emissions to below the limits that will apply in future. This means that SAF TRAKr meet the ever more stringent noise protection standards for harbours, airports and night or inner-city traffic.



Reliable compliance with legislation

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m CO}_2$ reduction, noise reduction, diesel travel bans and other laws to protect inner cities and high-density areas are among an increasing number of challenges facing the world of transport. Electrified axles help you meet strict legal requirements.



Fewer particulates for clean air

Diesel-powered commercial vehicles are among the biggest producers of particulate matter. The clean electric engines of e-axles significantly reduce the particulate and soot emissions of the entire truck. This ensures compliance with nitrogen oxide and particulate limits and simultaneously improves air quality.



Efficient and future-proof transport processes

The e-axle from SAF-HOLLAND ensure greater availability, efficiency and sustainability: They save fuel, avoid exhaust emissions, and comply with legal regulations. The generated energy also reduces downtimes considerably.

Another contribution towards
resource conservation: The TRAKr
generator (air-cooled version) is
generator without rare earth metals.

E-axle SAF TRAKr.

Converting movement into energy.

The e-axle SAF TRAKr uses recuperation for energy recovery. This reduces fuel consumption as well as carbon and particulate emissions and makes commercial vehicles more eco-friendly.

SAF TRAKr: Electrical recuperation.

Generating power on the move.

During braking or acceleration phases, the centrally located high-voltage generator unit of the SAF TRAKr converts the kinetic energy of the vehicle into electrical energy. This energy is stored in a Li-ion battery of the proven electrical system from CARRIER/ADDVOLT – or can supply auxiliary

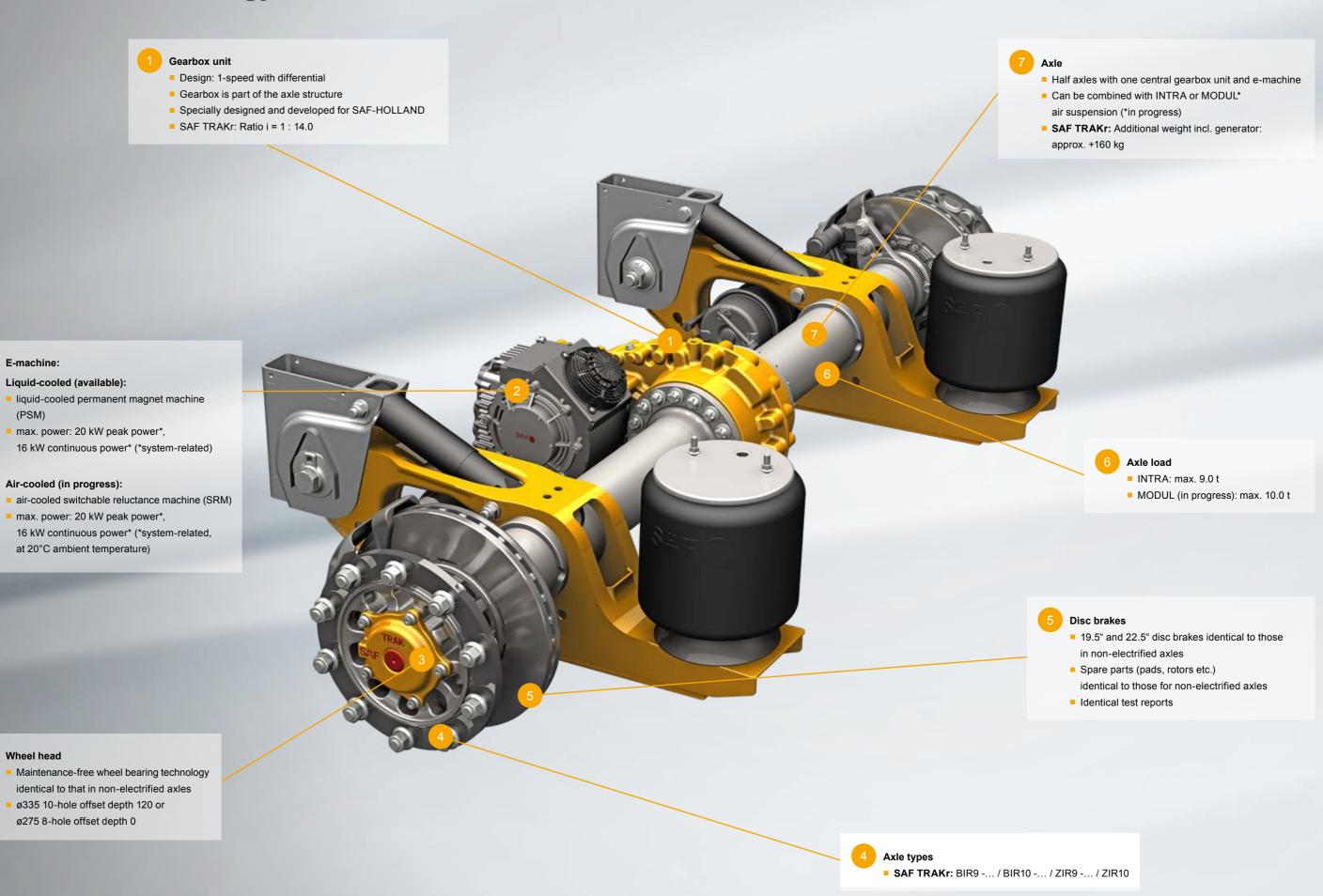
consumers in the trailer such as cooling units, heaters or hydraulic platforms while the vehicle is moving. The SAF TRAKr is favoured for use in refrigerated trucks, where the cooling units can be operated in fully electrical mode.



SAF TRAKr technology

E-machine:

Wheel head





Sustainable power for your transports.

Powerful support for heavy-load traffic.

In long-haul traffic and urban spaces, heavy trucks and trailers receive optimal support in every setting with the e-axle SAF TRAKr.

That's because the energy generated by the e-axle is used where it is generated: It supplies the vehicle and its electrical components with power during the journey. Thanks

to emission-free driving, e-axles enable night transports in high-density urban areas. In short: The SAF TRAKr provides sustainable power for your transport processes.

A diverse range of possible applications. SAF TRAKr



Cooler

Cooling units are operated temporarily in fully electric mode thanks to the recuperation of SAF TRAKr. This safety backup reliably protects highly sensitive goods during transport.



Silo and tanker

The electrical compressor is powered by the energy of the e-axles and independently of the truck. This saves energy and ensures additional protection for the liquid transport or bulk goods.



Moving-floor trailers

The hydraulically controlled floor system or moving sliding panel is electrically operated by SAF TRAKr and helps the driver load goods safely and without leaving residues.



Trailer with lift gates

Thanks to the electrical drive solution, the electrical pump for hydraulic tailgates (lifting door) is powered by the vehicle without dependence on the axles.



Transportable e-forklift

With the SAF TRAKr, e-forklifts can be charged during the trip, so they are ready for use as soon as the vehicle stops.



The future of e-mobility: SAF TRAKr for heavy-load trailers

Standardised, modular, flexible.

- Standardised system: same design as standard axles
- Modular design for different versions
- Plug & Play thanks to standardised interfaces
- Retrofitting possible
- Independent of trailer or cooling system manufacturers

Service-friendly.

- Standard wear parts for a simplified spare parts supply
- Simple maintenance tasks: Tyres, wheel heads and brakes can be serviced without dismantling the system
- Large global service network

Driver-friendly and easy to operate.

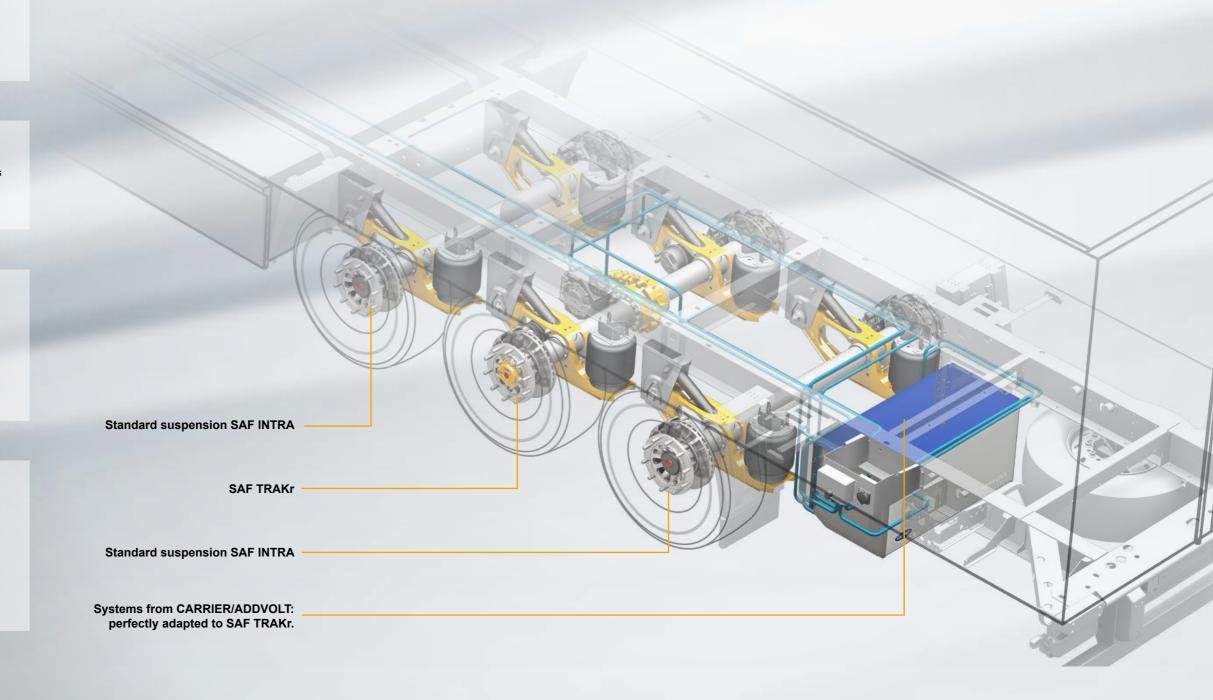
- Fully automatic operating system
- Little training and instruction required (no prior knowledge required!)
- Easy handling
- Less background noise during the trip
- Greater efficiency thanks to short loading and downtimes

Identical wear and spare parts.

- INTEGRAL brake disc
- Brake calliper
- Brake cylinder
- Brake padsAirbag
- Shock absorber
- 3D bushing

Quick and easy to install.

lotal system with e-axie, control electronics, battery system an control unit with standard interfaces for smooth integration and flawless operation.



15

Convert to e-axles from SAF-HOLLAND now

And push forward with e-mobility.

Thanks to lower fuel consumption, fewer exhaust emissions and reduced noise emissions, electrified axles are a sustainable solution for future-proof transport and logistics processes. With our modular e-axle SAF TRAKr, we offer powerful technologies that were specially developed to meet the challenging requirements in heavy-load traffic.

A perfect solution for your vehicles.

The e-axle SAF TRAKr is characterised by uncompromising quality, high functional reliability and cost-effectiveness. It's the perfect solution for retrofitting diesel-operated vehicles and equipping new vehicles.

Let's push the electrical revolution of the commercial vehicle industry together.

E-axles from SAF-HOLLAND: Greener, more economical, future-proof.

Do you have any questions about the e-axles? We are happy to help and look forward to hearing from you.

Your OEM sales team

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The SAF-HOLLAND Group is one of the leading international manufacturers of suspension-related assemblies and components for trailers, trucks and buses. Our innovative products increase the efficiency, safety and environmental friendliness of commercial vehicles, contribute to the success of our customers. With around 6,000 employees worldwide, we are at the forefront of shaping the future of the transportation industry.























