

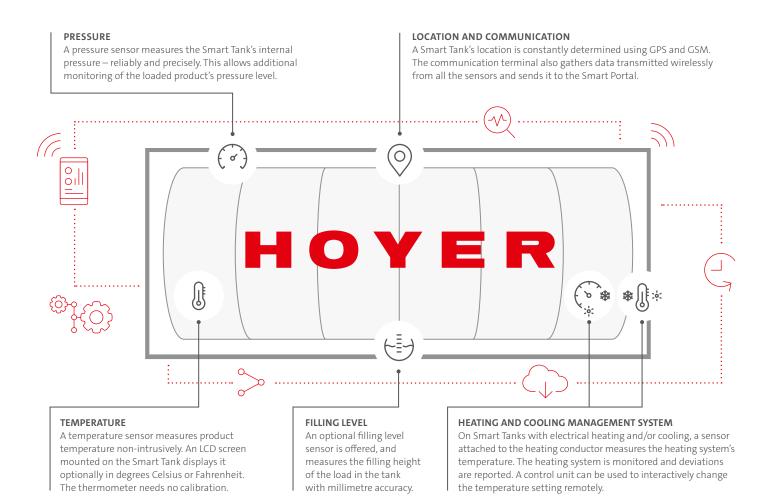


SMART TANK

Intelligently networked container fleets

Smart Tank is the centrepiece of the intelligently networked logistics management of the HOYER Group. Whether chemical products, foodstuffs, gas or mineral oil: Smart Tank will transport liquid goods safely, securely and reliably – by road, rail and sea.

Sensors fitted to the tank container continuously measure important parameters. Combined with information and warning systems and its own online portal, Smart Tank ensures optimum load monitoring and offers prospective analysis options. Networked logistics services have great potential. That is why HOYER constantly works towards equipping its entire tank container fleet as Smart Tanks. This allows the logistics provider to further consolidate the pioneering market role.



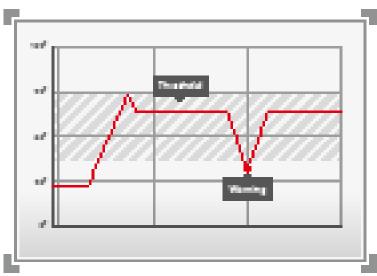


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All information at a glance

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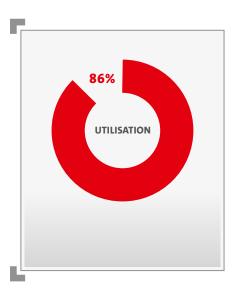
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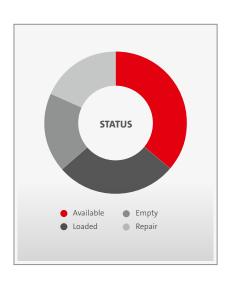


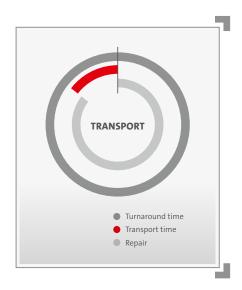


It is possible to store parameters for which a critical upper or lower limit violation triggers an inmediate warning report for the designated recipient. Additional information about the previous transport route or the specification of geo-zones can be used to optimise logistics processes.

Fleet management reaches a new level: detailed information on the Smart Portal about fleet status, idle or turnaround times can be used to increase the fleet's utilisation and avoid empty repositioning. Thus Smart Tank and Smart Portal make logistics not only more cost-efficient but also more environmentally friendly.







INTELLIGENTLY NETWORKED LOGISTICS

A transport innovation — the Smart Tank from HOYER

QUALITY

Where is the tank container currently located? Are key product properties in accordance with the specifications? While such information had to be checked manually in the past, all that is needed today is a glance at the Smart Portal, which provides precise, current information about the Smart Tank and its load. This improves transparency and transport quality because customers can be informed at an early stage, e.g. about delays or deviations from the transport route. Moreover, the Smart Tank's sensor equipment also guarantees consistently high

product quality. Up-to-date monitoring data enable timely intervention in the event of deviations. Smart Tanks with a monitoring system for heating and cooling even ensure proactive control from a desktop PC or smartphone.

- User-friendly and reliable
- Safeguarding transport and product quality
- I Smart Tank and Smart Portal as the basis for new, innovative services

SAFETY

Liquid goods are sensitive products, and transporting them needs special attention. It is important that parameters, such as pressure and temperature, are kept stable to avoid endangering people or the environment, especially in the case of chemical products. A Smart Tank constantly measures and stores these important factors, and deviations of a predefined route or parameters can be output as warnings and then enable timely intervention. This is how the Smart Tank makes an important contribution to the safety of people, the environment and the product,

which allows HOYER and its customers to meet this special responsibility.

- Transparent product monitoring by using sensors and telematics
- Automatic warning if parameters deviate from predefined values
- More safety and security for people, the environment and the product

FLEET OPTIMISATION

The future of networked logistics is based on intelligent linking of information derived from the Smart Tank's sensor data. For example, the information collected and displayed in the Smart Portal can be linked to the customer's own transport management system — evaluation of the key figures that are collected enables more efficient fleet management: weaknesses in the logistics chain are identified

and the container fleet's capacity utilisation is optimised.

- Time and cost savings
- More efficient use of equipment
- I Environmentally friendly and resource-friendly avoidance of empty repositioning

The HOYER Group constantly works on solutions for tomorrow's intelligently networked logistics with concepts to use the Smart Tank's digital data for innovative, customer-oriented services. The vision: forward-looking, safe, secure and yet more efficient logistics services. In future, for example, it will be possible to obtain early recommendations for a better route and to automatically determine a tank container's arrival time. Acting before a reaction is needed:

that's how HOYER shapes the future of networked logistics.

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