

DEMARKO.
SPECIAL
TRAILERS



GET TO KNOW
THE NEW GENERATION
OF LOW LOADER
SEMI-TRAILERS

A VISION THAT HAS BECOME THE REALITY

We are presenting a successor of traditional low loader semi-trailers. It serves as an example of a new generation of semi-trailers combining reliability and ease of use with approved technologies designed for carriers to complete the most demanding tasks.



DEMARKO.
SPECIAL TRAILERS

LOW LOADING SEMI TRAILERS

ST-SERIES
HYDRA-DECK™

BECOME
THE BEST™





A TECHNOLOGY WITH SAFETY IN MIND

The **highest level of safety** is a natural result of engineers creative invention. Thanks to knowledge, skills and in-depth awareness of the latest trends in the new model, the rear-section turning radius of the semi-trailer has been reduced. **This change has substantially facilitated semi-trailer maneuvering operations.**

APPROVED TECHNOLOGIES ONLY

Our semi-trailers use only the verified and reliable, pre-tested technologies.
This makes us feel confident that our solutions feature top quality and reliability.

- CUSTOM TAILORED TRAILERS – configurations tailored to individual preferences (e.g. wheel cavities, scoop cavities, etc.)
- Designs created on the basis of specialized knowledge and global trend expertise
- Larger loads ensuring improved vehicle turning capabilities



RELIABILITY ECONOMY GUARANTEE

We challenge the largest businesses not only in terms of price, but also in terms of quality, ease of use and long-life operation.

We focus on rational thinking.

We think that a modern brand should feature true quality, cutting-edge technologies, and professional teams.

1

RAMPS

Standard version includes profiles designed to use 3-8 m long, various width, demountable ramps shifted with the help of hydraulic servomotors powered by tractor or compact power-generating unit mounted underneath the trailer. Options are provided to add aluminum ramps 2.4-3 m long with load capacity of up to 32 tons.

2

LIGHTING

24V power system and trailer designation meeting the most restrictive regulations. The whole set is assembled using the highest humidity protection class.

3

HYDRAULICALLY WIDENED LOADING FLOOR

Option to widen the trailer up to 3.2 m.



4

CARGO ANCHORAGE

A large number of supports (depending on customer needs) make securing cargoes a trouble-free and seamless operation.

5

STRUCTURE

Semi-trailers are made of high-reliability steel.

7

GOOSE NECK

The front section of the trailer includes a toolbox and a spare wheel holder. The built-in anchorage points and aluminum side walls designed for securing a cargo allow space to be used in a practical way.

6

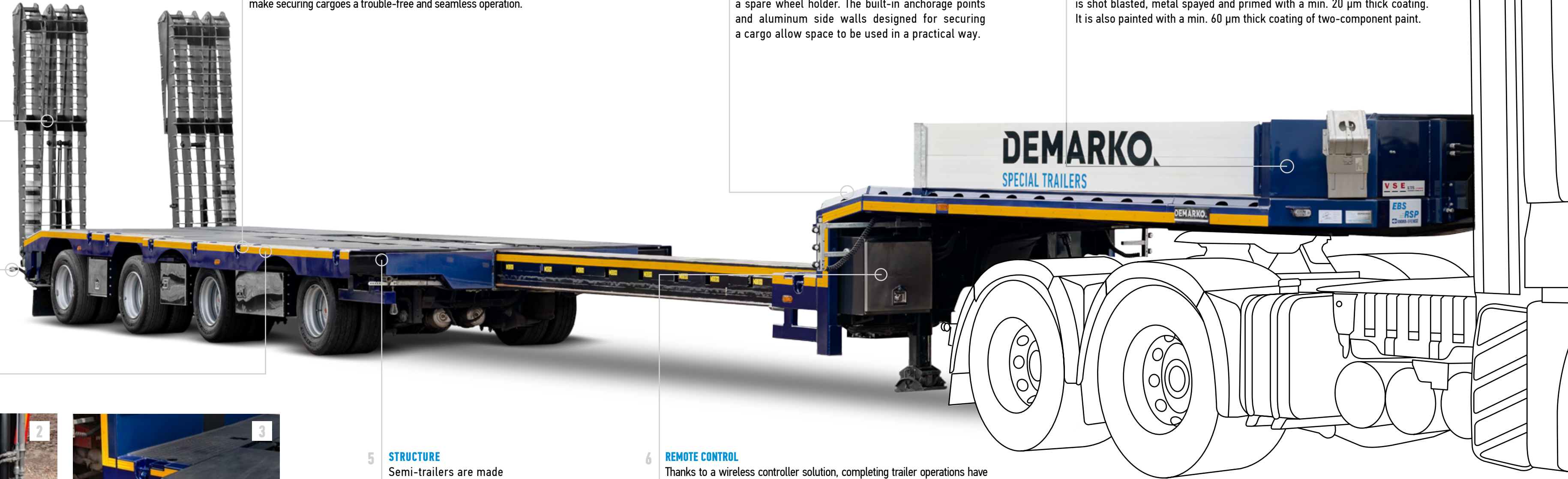
REMOTE CONTROL

Thanks to a wireless controller solution, completing trailer operations have never been easier. Depending on configurations, sections such as loading floor, ramps and trailer steering system can be operated by a remote control.

8

ANTI-CORROSION PROTECTION

Comprehensive varnish protection in standard version: the entire structure is shot blasted, metal spayed and primed with a min. 20 µm thick coating. It is also painted with a min. 60 µm thick coating of two-component paint.





DESIGNED FOR THE DRIVER

The trailer is designed with consideration paid to driver's comfort. The use of hydraulically widened loading floor saves up to 50% of time previously needed to carry out loading operations. A specially designed remote control significantly facilitates trailer operation (hydraulic ramp lifting and lowering, 4-section loading floor control, rear axle maneuvering.)

COMFORT OF USE

iTAP is a system of wireless control over semi-trailer functions using mobile devices developed by Knorr-Bremse. The system is used in DEMARKO semi-trailers to facilitate operation and basic diagnostics. It is compatible with all types of tractors and operates based on a wireless Wi-Fi connection between the tablet or smartphone and a small device installed in the semi-trailers.

iTAP offers the following functions:

- iLvL electronic suspension system operation which enables a driver-activated option to preset four driving heights in relation to the terrain travelled by the semi-trailer. Each height switch may be also automatic depending on the travel speed.
- reading the axle set load,
- reading the vehicle tilt,
- information from coating wear sensors,
- operation of three wireless cameras (for reversing and monitoring of the coupling and load deck),
- optionally, tyre pressure and temperature control is possible.



Remote control for hydraulic functions



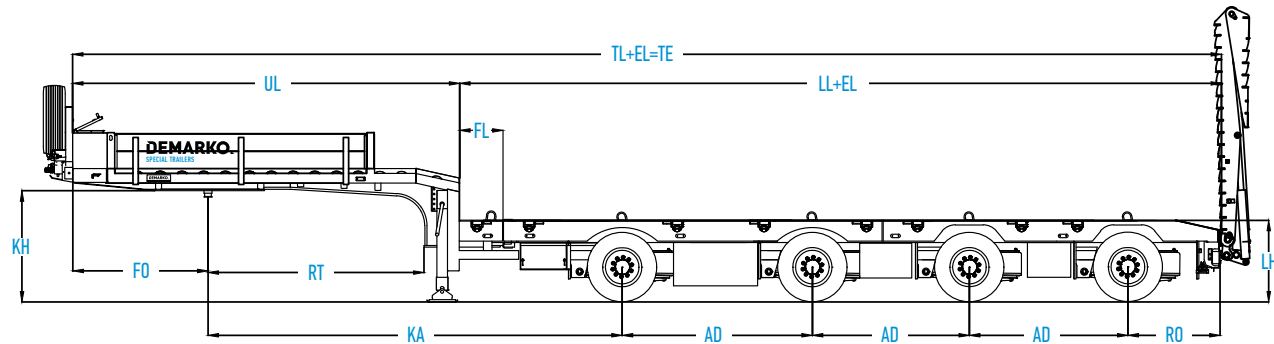
Extended deck



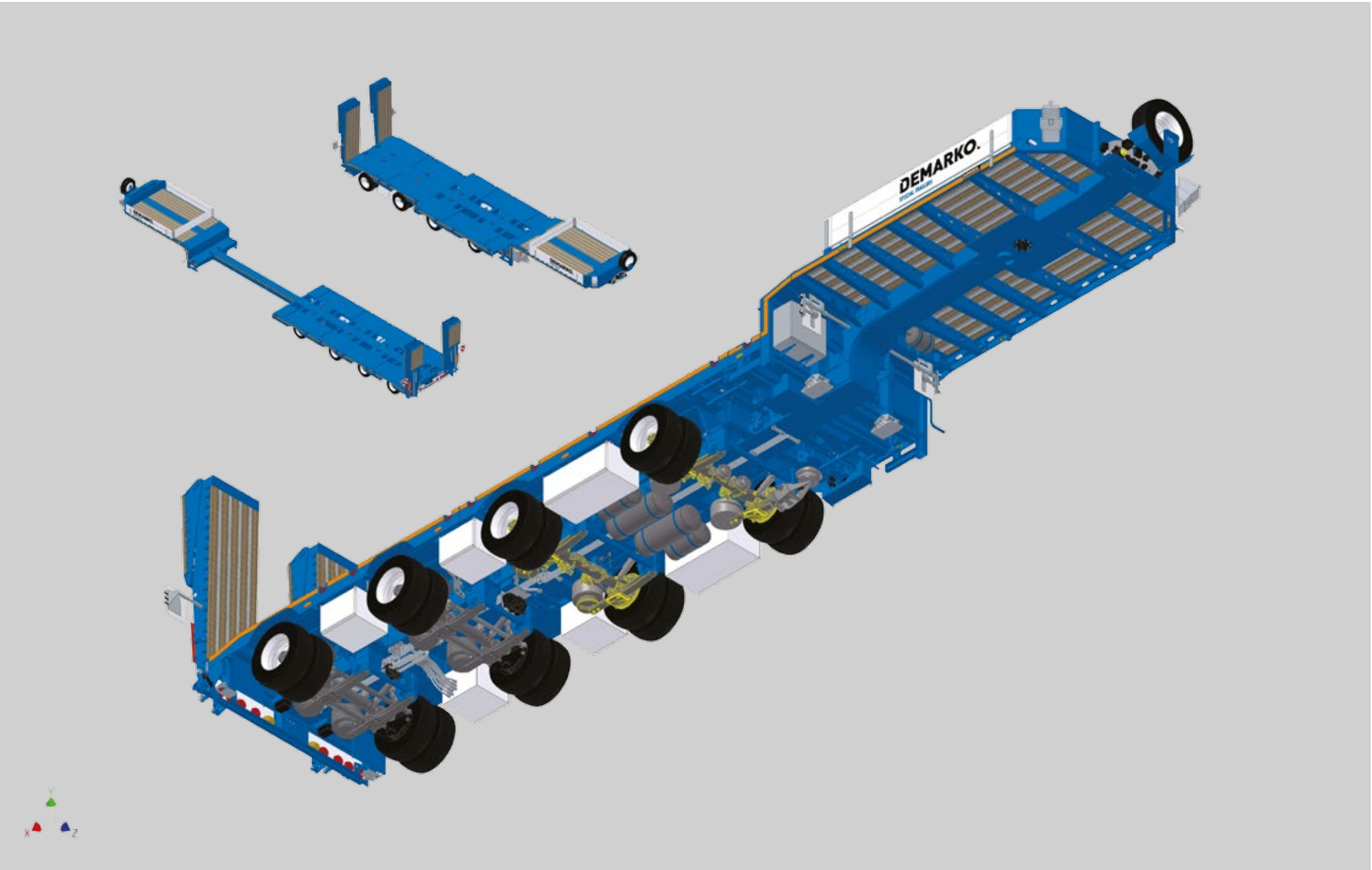
Hydraulic steering system for trailers

ST 4-AXLE SINGLE EXTENDIBLE SEMI-TRAILER WITH ELECTRO-HYDRAULIC STEERING

MAIN DIMENSIONS				WEIGHT	
TL	Total length	13.210 mm	FO	Front overhang	1.560 mm
EL	Extension length	5.500 mm	RO	Rear overhang	1.050 mm
TE	Total length extended	18.710 mm	RT	Swing clearance radius for truck	2.500 mm
W	Width	2.550 mm	RA	Clearance radius for trailer	1.818 mm
KH	Kingpin height	1.250 mm	AD	Axle distance	2.190 / 1.810 / 1.825 mm
LH	Loading area height	920 mm	KA	Distance from kingpin to the 1st axle	4.775 mm
FL	Fixed part behind goose neck	500 mm			
LL	Lower loading area length	8.750 mm			
UL	Upper loading area length	4.460 mm			
				Max. fifth wheel load	25.000 kg
				Axle load capacity	48.000 kg
				Gross vehicle weight	73.000 kg
				Dead weight	15.500 kg
				Payload	58.500 kg



- Heavy duty lashing rings in lower loading area, 13 pairs, LC = min. 5000 daN
- Goose neck with integrated lashing rail on sides
- Stake pockets, 8 pairs
- 2 fixed axles, 2 power steered
- 1 axle lift





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