

# TRIDEC

## EF-S

The electronic steering system for trailers with kingpin axles

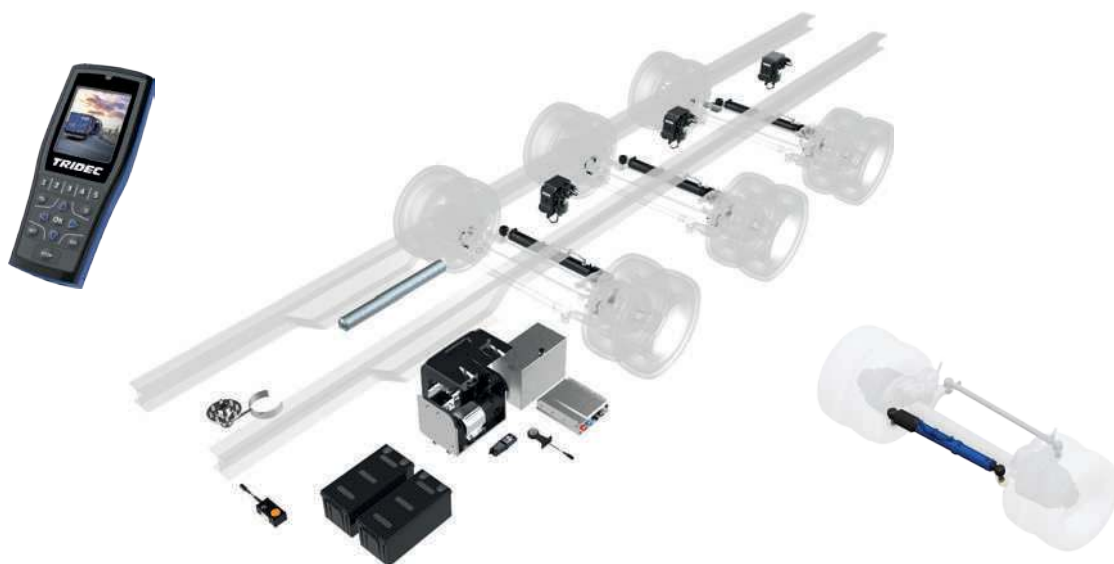






## Winning advantages

TRIDEC's lightweight electronic steering system, which is quick and easy to install, is the solution for trailers with very limited mounting space.



TRIDEC's EF-S steering system enables trailers with an extremely low trailer neck, such as milk and bulk tankers or trailers with monocoque-constructions, to be equipped with a steering system for kingpin axles. Because of the weight advantage, as well as the minimal required mounting space and easy installation, the system can also be applied to low-loaders.

The system can steer a maximum of three kingpin steered axles. The steering angle is easily set to the available mounting space and required manoeuvrability. Manual steering by wireless remote-control offers extra manoeuvrability, making the axles steer in ratio or at equal steering angles ("crab steering").

### Savings on

- time due to manoeuvrability
- fuel consumption
- tyre wear
- vehicle maintenance & damage
- installation time
- neck-height (only 60mm)
- chassis modifications



## Winning technology

TRIDEC's EF-S system reacts to the smallest steering motion and stably follows the truck without any delay, preventing chassis damage. Hydraulic accumulators directly supply the steering energy required. At higher speeds and while driving straight, the wheels are locked into the straight position, ensuring a highly stable straight run.

More technical information on the EF-S systems can be found at [www.tridec.com](http://www.tridec.com)

### EF-S +

As the name suggests, the EF-S + version offers the possibility to operate additional hydraulic and electronic functions with one programmable TRIDEC remote control. The system can be expanded with a combination of either 6 hydraulic or 12 electronic functions. Additional functions can for example include the operating of ramps, an adjustable gooseneck, movable support legs, vehicle widening, etc.

It is also possible to upgrade the system with a so-called soft start mode to run the hydraulic movements even more smoothly and can be operated with extreme accuracy. The user can also set the oil flow per function using the remote control.

- Patented lightweight steering cylinder including mountings
- Steering cylinder with integrated sensor
- Powerpack, electro-hydraulic with brushless motor
- JOST 2" kingpin with integrated steering angle sensor and patented self-centring wedge
- Intelligent trailer battery charging system with temperature compensation
- CAN-bus and Bluetooth communication
- System diagnostics by status-lamp and wireless remote control
- No greasing points on the steering system (only on the kingpin axle)

### EF-S light

A weight and space-saving version has also been implemented, the EF-S Light weighs approximately 140 kg less due to leaving out a separate battery pack, instead the required energy is supplied directly via the truck. The system has been further optimized to use the available energy very efficiently and is suitable for trailers with up to two steered axles. Combining the above versions is also possible forming the EF-S + light.





## Transport

### **JOST**

- 1-3** Systems
- 1** Fifth wheel couplings
- 2** King pins
- 3** Landing gears
- 4** Truck and Trailer axles
- 5** Hubodometers
- 6** Ball bearing turntables
- 7** Container technology

### **TRIDEC**

- 8** Steering systems
- 9** Axle suspensions

### **ROCKINGER**

- 10** Towing hitches
- 11** Drawbars and towing eyes

## Agriculture

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