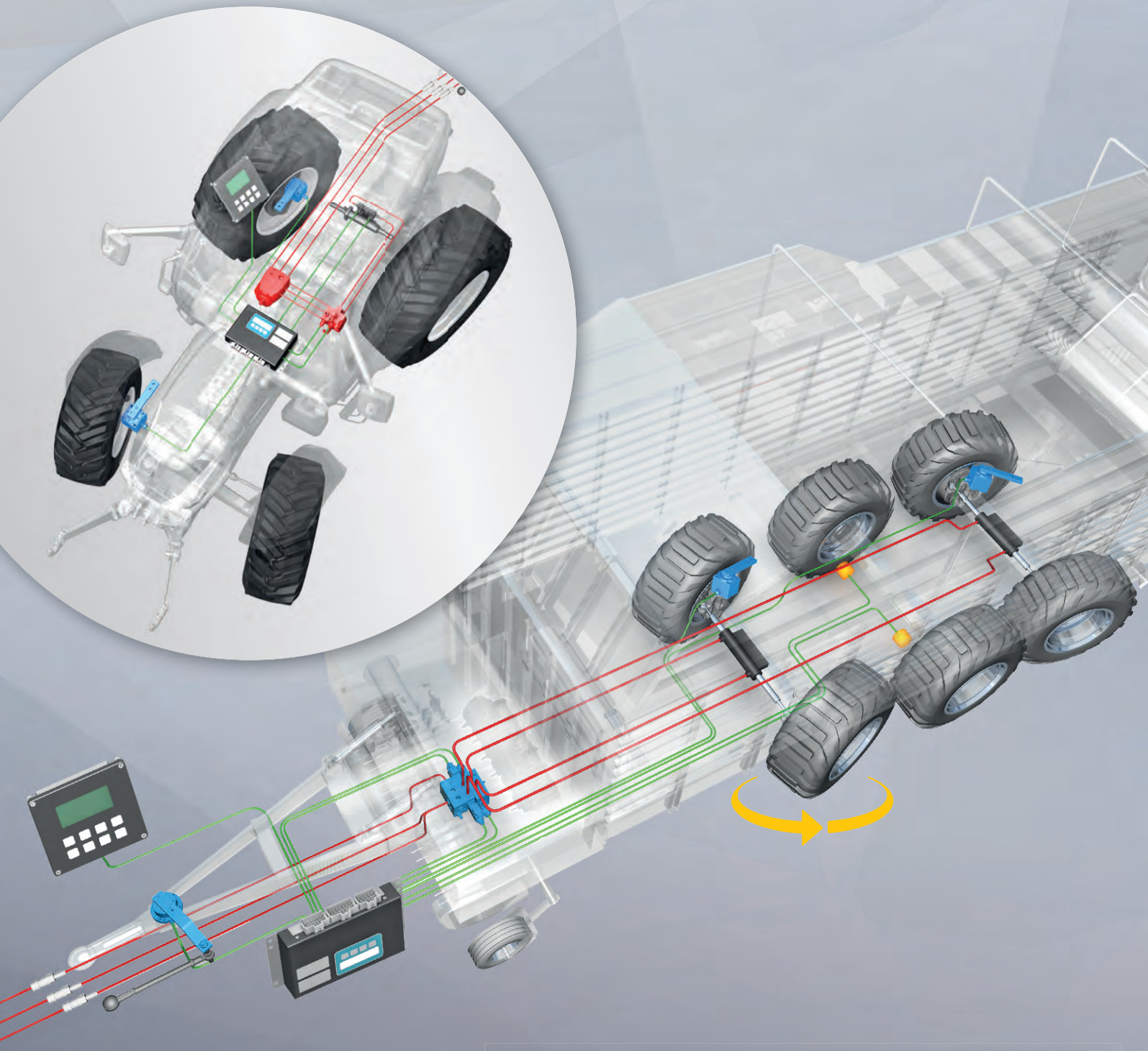
MOBIL
ELEKTRONIK
GMBH

EHLA®

SOLUTIONS & INNOVATIONS
FOR AGRICULTURAL VEHICLES



THE STEERING SYSTEM
MORE THAN JUST COMPONENTS

WORLD MARKET LEADER IN ELEKTRONIC-
HYDRAULIC AUXILIARY STEERING SYSTEMS

MORE THAN JUST A HIGHLIGHT
THE SYSTEMS PROVEN A THOUSAND TIMES OVER

MOBIL ELEKTRONIK GMBH

EHLA®

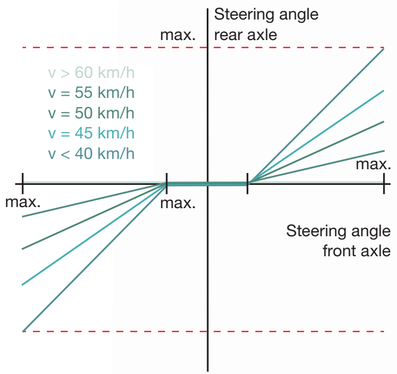
ELECTRONIC-HYDRAULIC AUXILIARY STEERING SYSTEMS

The EHLA® (Electronisch-Hydraulische Lenk-Anlage) product range offers comprehensive system solutions for auxiliary steering of commercial vehicles and trailers with approval for public roads.

From the simple, failsafe working trailing axle to multi-axle fail-operational auxiliary steering systems, every imaginable application can be represented in a modular system that can be combined with virtually unlimited possibilities.

SPEED-DEPENDENT STEERING

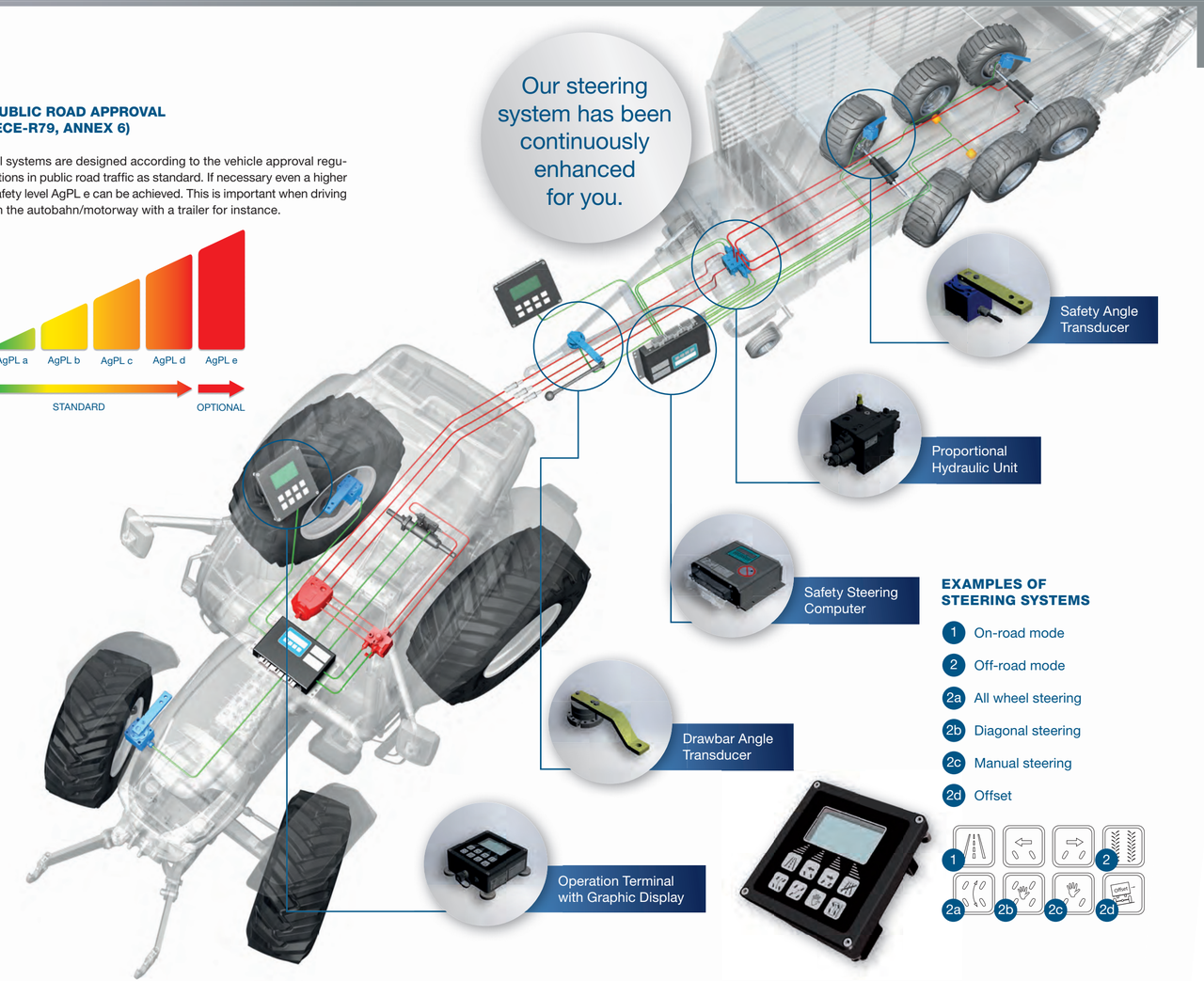
The steering system is designed as dynamically as you need it. At low speed a maximum of manoeuvrability is required and high steering angles are possible. At high speed the steering angles are reduced to enable an optimum of directional stability. These values are configurable via parameters.



PUBLIC ROAD APPROVAL (ECE-R79, ANNEX 6)

All systems are designed according to the vehicle approval regulations in public road traffic as standard. If necessary even a higher safety level AgPL e can be achieved. This is important when driving on the autobahn/motorway with a trailer for instance.

Our steering system has been continuously enhanced for you.



EXAMPLES OF STEERING SYSTEMS

1. On-road mode
2. Off-road mode
2a. All wheel steering
2b. Diagonal steering
2c. Manual steering
2d. Offset

EHLA®

AgriTRAILER

BENEFITS COMPARED TO A CONVENTIONAL DISPLACEMENT SYSTEM

There is no mechanical connection between steered axle and drawbar anymore. This reduces not only the forces on the tractor but also the total weight of the trailer significantly.

The installation and integration of the auxiliary steering system is much easier. Different vehicle geometries can easily be set by parameters.

Due to speed-dependent steering the trailer offers a better vehicle handling.

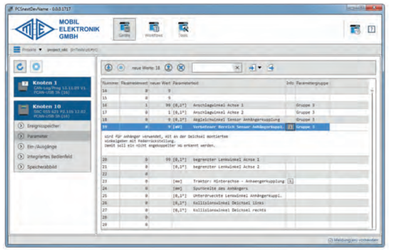
A trailer equipped with EHLA® has significantly less tyre wear, since the system is adjusted to the vehicle's geometry.

If all axles of the trailer can be steered, helpful steering programs like diagonal drive can be used to protect the soil.

NEW: PCSnext SERVICE AND DIAGNOSTIC TOOL

This new service and diagnostic tool can be installed on every notebook and provides an easy and interactive operation. This enables each vehicle manufacturer or garage to carry out the service for the steering system.

A Teamviewer is integrated and the user interface can be adjusted individually by each user.



AUTOMATIC IDENTIFICATION OF OFF-ROAD MODE

By using a signal, e. g. the activation of the trailer's spreader, it is automatically switched to off-road mode.

Different steering strategies and programs can be used for on-road and off-road mode.

DATA EXCHANGE WITH THE VEHICLE

The connection to the vehicle system can be realized via the interface J 1939 if required.

Different concepts are possible – from steering system operation via a control panel in the vehicle up to full linkage with a GPS or autopilot system.

NEW: EASY PARAMETERABILITY WITH PCSnext

Changes to the vehicle geometry such as axle stances, tire sizes, drawbar length, etc., can now be changed by means of the new service tool PCSnext via parameter setting. So the vehicle manufacturer can use the same steering system for different variants of its trailer.

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OVERVIEW OF **EHLA® SYSTEMS**

EHLA STANDARD	Auxiliary steering system for self-tracking tag axles and pusher axles
EHLA STANDARD ECO	Auxiliary steering system with independent hydraulic supply
EHLA PLUS	Auxiliary steering system for locking axles
EHLA OPTIMAL	Auxiliary Steering system for driven, steered rear axles with centering device
EHLA MULTI	Auxiliary steering system for multiple steered rear axles
EHLA FAILOP	Redundant fail-operational auxiliary steering system
EHLA AgriTRAILER	Auxiliary steering system for 2-, 3- or 4-axle agricultural trailers
EHLA SemiTRAILER	Auxiliary steering system with independent hydraulic supply for semitrailers

ABOUT MOBIL ELEKTRONIK

Introducing the first steer-by-wire systems for heavy duty vehicles MOBIL ELEKTRONIK has taken a pioneering role in system technology for mobile automation since 1973. Because a safe and reliable system is more than the sum of its individual components we strengthen our core competences safety technology and systems engineering continuously. This development led to numerous innovative and groundbreaking solutions and we are proud to have substantially filled terms like steer-by-wire und control-by-wire with meaning.

What started as a small engineering office has developed into an internationally active company with more than 100 highly motivated employees. Our complete systems can be found in all areas of commercial and special-purpose vehicle construction today.

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LENKUNG
Steer-by-Wire

BREMSE
Brake-by-Wire

FAHRANTRIEB
Drive-by-Wire

ARBEITSFUNKTION
Control-by-Wire