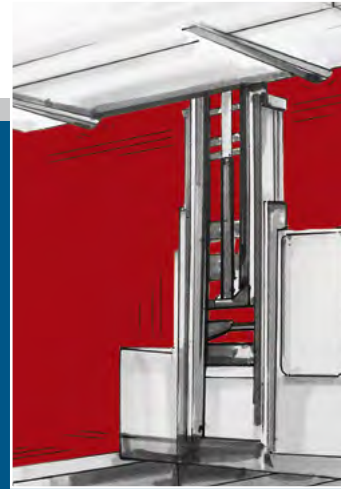
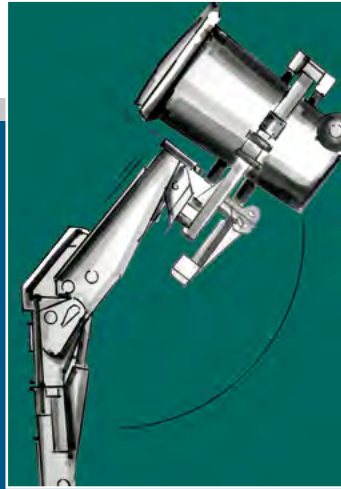




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**The System is more than the
Sum of its Components**

**SYSTEM
COMPONENTS**



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40
Years
Steer-by-Wire

Ladies and Gentlemen,

Introducing the first steer-by-wire applications for heavy load vehicles MOBIL ELEKTRONIK has taken a pioneering role in system technology for mobile automation already in 1973.

Very soon it became clear that a safe and reliable system is more than the sum of particular components. In succession the core competences safety technology and system engineering were extended continuously.

This development led to countless innovative and ground-breaking solutions and we are proud to have defined decisive content to terms like steer-by-wire und control-by-wire.



What started as a small engineering office has developed into an international acting partner with about 90 highly motivated employees, whose complete systems today can be found in all ranges of commercial and special vehicles.

We are looking forward to turn also your challenge into an efficient and flexible solution.

With kind regards



Helmut & Klaus Klugesherz





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LENKUNG Steer-by-Wire

FEDERUNG/ FAHRWERKSREGELUNG Suspension Control

EHLA® CHASSIS C^ÖNTRÖL



ELECTRONIC-HYDRAULIC AUXILIARY STEERING SYSTEMS

The EHLA® product range (German: „Elektronisch-Hydraulische Lenk-Anlage“) offers entire solutions for the steering of rear axles in commercial vehicles and trailers with approval to public traffic.

From simple tag and pusher axles with failsafe design up to multi-axle fail-operational auxiliary systems every application can be gathered from an unlimited choice of system building blocks.

ELECTRONIC-HYDRAULIC SUSPENSION CONTROL

ChassisControl is an electronic suspension control system for hydraulic or pneumatic suspended vehicles. All imaginable functions like adjustment of ride level, level regulation or axle lift are available.

EHLA® and ChassisControl can be combined to an entire axle automation e.g. in mobile cranes, Dutch wide-spread applications or agricultural vehicles.





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LENKUNG
Steer-by-Wire

BREMSE
Brake-by-Wire

ARBEITSFUNKTION
Control-by-Wire
FAHRANTRIEB
Drive-by-Wire

X-by-Wire



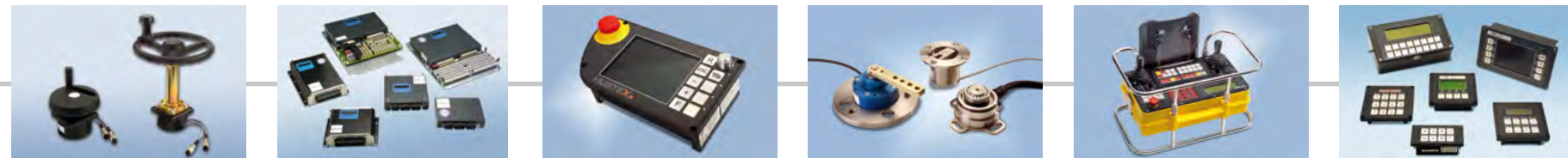
ENTIRE AUTOMATION SOLUTIONS FOR SPECIAL VEHICLES

MOBIL ELEKTRONIK supplies entire automation solutions for all branches of special vehicle construction such as port vehicles, airport vehicles/GSE, heavy load vehicles, industrial trucks/material handling as well as mobile loader cranes and working platforms.

Projection and implementaion is done under observance of the Machine Guideline and branch-specific norms and safety standards. The exhaustive product portfolio contains:

- Steer-by-wire systems
- Control-by-wire of hydraulic systems
- Brake-by-Wire
- Drive-by-Wire
- Load torque regulation/crane control
- Inductive and optical guidance systems/AGV
- Vehicle diagnostics/remote diagnostics/data logger

Our dual-circuit fail-operational steer-by-wire systems are ground-breaking in X-by-wire technologies. Approved for public traffic they are the next milestone in the development of steer-by-wire systems.





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FAHRZEUGSCHNITTSTELLE
Chassis Interface

ARBEITSFUNKTION
Control-by-Wire

Waste disposal technology



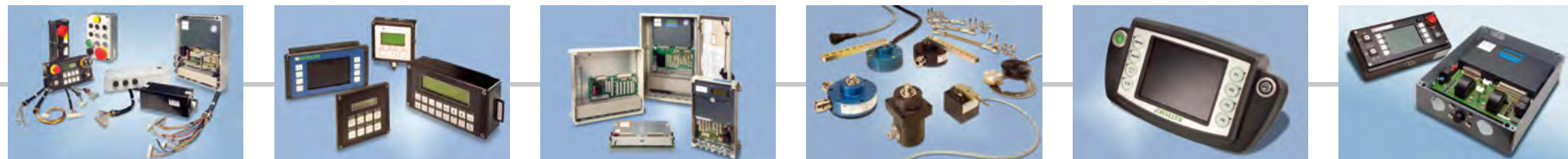
AUTOMATION SOLUTIONS FOR WASTE DISPOSAL AND MUNICIPAL VEHICLES

We are Europe's market leader in system components and software solutions for refuse collecting trucks. The systems are developed in close collaboration with the customers and correspond to current Guidelines and branch-specific norms. The product program contains complete systems for:

- Lifter control
- Rear loader
- Front loader
- Side loader
- Gateway to vehicle and to weighing/identification systems

CleAN^{open}

MOBIL ELEKTRONIK is one of the leading parties in definition of the CleANopen standard, the non-proprietary communication platform for control systems in refuse collecting trucks.



Sensor technology

RUGGED ANGLE TRANSDUCERS AND ELECTRONIC STEERING WHEELS FOR MOBILE APPLICATIONS

The standard for robust angle measurement in vehicle automation

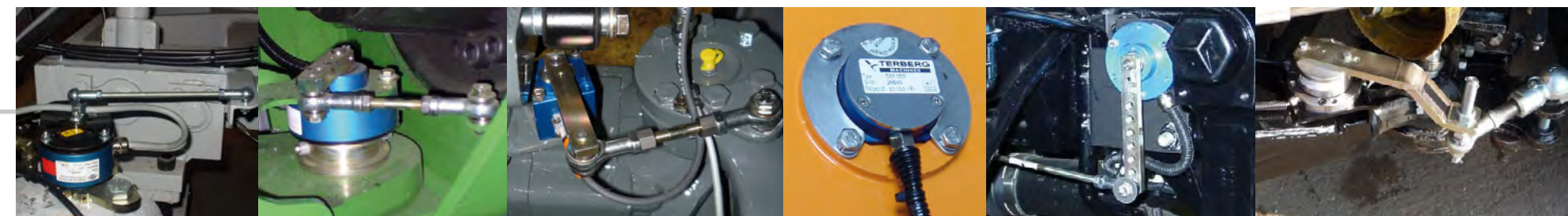
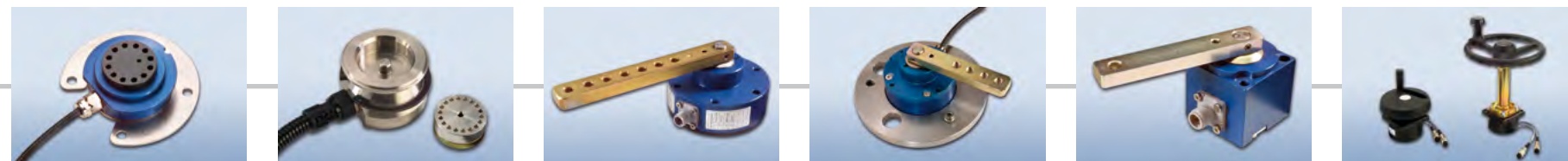
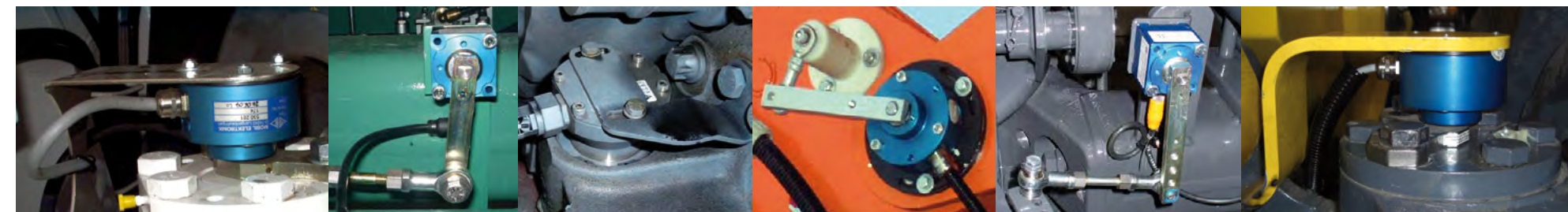
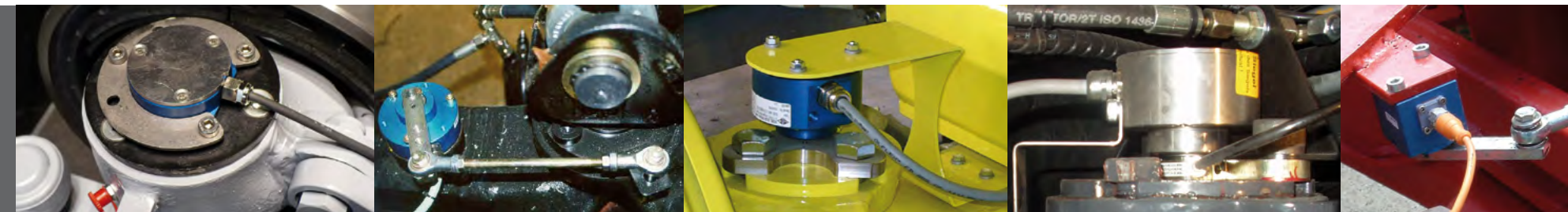
MOBIL ELEKTRONIK can draw on more than 30 years of experience in designing and manufacturing of sensors for all ranges of mobile applications. Our angle transducers are available in potentiometric and contactless technology with single or redundant analog output signal as well as CANopen/CANsafety output.

MOBIL ELEKTRONIK develops and produces customer-specific angle transducers e.g. for direct assembly in pivot bearings or axle knuckle bearings and offers a huge program of accessories.

**MOBIL ELEKTRONIK -
the inventor of the electronic steering wheel**

Since 1973 we are dealing with steer-by-wire systems and have introduced the first setpoint generator with steering force feedback more than 30 years ago.

Until today our products are unrivalled in safety, ruggedness and flexibility.





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Presented by: