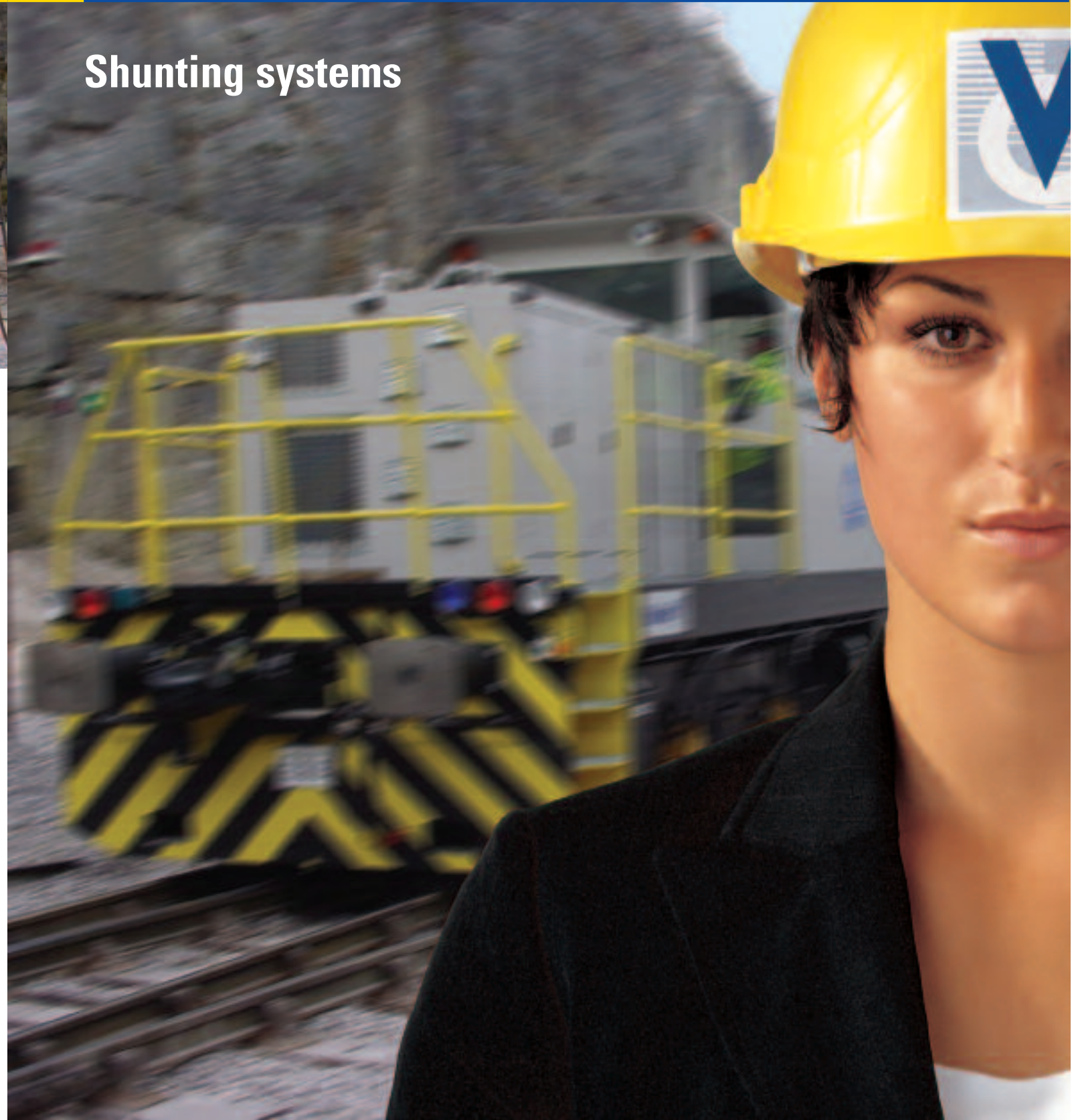




## Shunting systems



Vollert Anlagenbau GmbH + Co. KG  
Stadtseestr. 12  
74189 Weinsberg / Germany  
Tel.: +49 (0) 7134 / 52-220  
Fax: +49 (0) 7134 / 52-222  
intralogistik@vollert.de

[www.vollert.com](http://www.vollert.com)

Quality is our driving force.



In works transport and loading operations, it is important to find a partner who is 100% reliable, 24 hours a day, 7 days a week. As inventor of the shunting robot, and with over fifty years of experience in shunting systems, we are able to offer you an unparalleled wealth of experience, from which you benefit. Every day, each one of our team is freshly motivated to meet the high standards you set us. Try us out – we look forward to working with you!

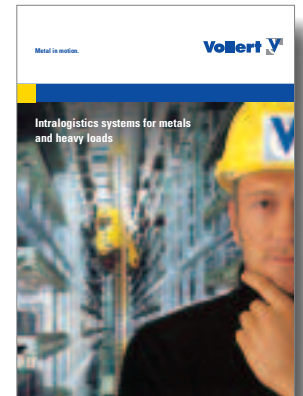
Sincerely yours

Hans-Jörg Vollert

## Our products and services.

### Intralogistics systems for metals and heavy loads

Material handling systems, fully automated high-bay warehousing and conveyor technology for metal producers and processors, aluminium extrusion plant, rolling mills, automotive plant, forging presses – from individual components to complete installations. Custom solutions.



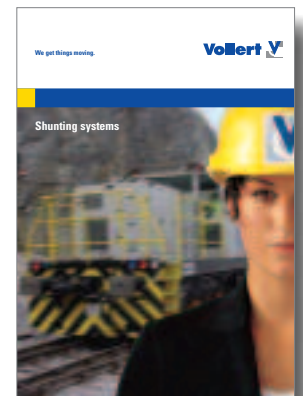
### Plant and machinery for the construction materials industry

Installations for the production of precast concrete panels (e.g. walls, slabs), pre-stressed sleepers, pallet circuits and handling solutions for aerated concrete, sand-lime bricks and concrete pipes. Custom solutions.



### Shunting systems

Railway wagon pulling systems for shunting, loading and works transport – from simple chain-coupled wagon shunting systems to diesel-hydraulic shunters for very heavy loads. Custom solutions.



# Experience is the key.



**Now:** 190 highly skilled and qualified staff, including 80 in sales, project handling and development. 70% of our production is exported, clearly demonstrating the international experience of Vollert. Vollert plant and machinery is being operated by satisfied customers in every continent. Efficient manufacture in our own plant ensures that we have the necessary flexibility to react quickly. Advantages from which you benefit.

## Quality management



Our machining and finishing quality, far exceeding the high standards required by industry, has been exemplary in the sector for more than eighty years. This is confirmed by independent quality auditors. Vollert is EQ certified to DIN EN ISO 9001 : 2000. We also have the general welding certificate to DIN 18800 and the qualification certificate to DIN 6700 for welding track-bound vehicles. We take part both in research projects and industrial standardization projects and push the development of our industry through our work in the VDMA, the head organization of all machine and plant equipment manufacturers in Germany.



## From metalworking shop to global player! For eighty years, Vollert has been synonymous with the ultimate in quality and reliability in plant engineering.



1925

**1925:** Company established by Hermann Vollert, grandfather of the current generation of entrepreneurs.



1950

**1947:** Hermann Vollert killed in an accident. His widow, Mina Vollert, continues to run the company, together with her sons, Herbert and Robert, and the workforce.



1978

**1955:** Use of the first Vollert shunting system.

**1974:** Invention of the Vollert robot for heavy traction loads.

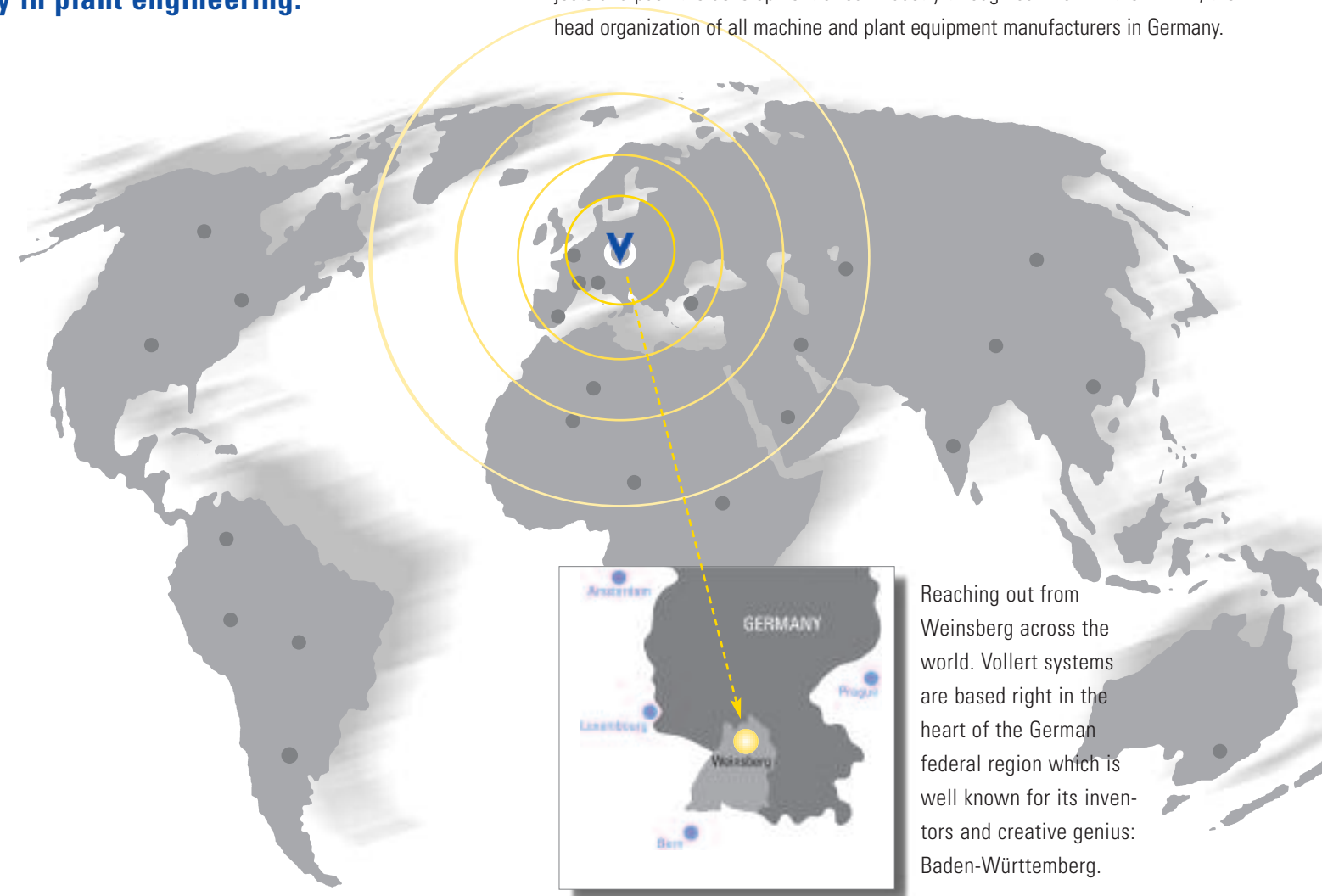


1992

**1999:** Third generation comes on board: Hans-Jörg Vollert takes over at the helm, as Herbert Vollert retires. Gerhard Geist is appointed as a director.

**2001:** Vollert quality management system certified to DIN EN ISO 9001:2000 and VDA 6.4.

**2007:** Operation of the first diesel-electric shunting engine for higher speed.



Reaching out from Weinsberg across the world. Vollert systems are based right in the heart of the German federal region which is well known for its inventors and creative genius: Baden-Württemberg.

## Services

The return on an investment is greatly influenced by regular maintenance and excellent service. That is why we have designed service and maintenance packages for our shunting systems. Modifications, retrofits and factory refurbishment are our forte. This naturally applies to our own products, but we are also happy to service other manufacturers' products. We can offer you maintenance contracts, a 24-hour hotline and other specialised solutions tailored to your requirements.

## Efficient: Stationary shunting systems and special solutions



### **Stationary shunting systems...**

... for shunting single wagons or entire trains. Vollert shunting systems are synonymous with compact, sturdy and reliable technology. Many of our shunting systems have a dual tensioning device for the traction and return ropes. Automatic re-tensioning of the rope is all part of the package. In use around the clock, at loading and unloading stations, in explosion protection zones, rolling-stock washing facilities and maintenance depots worldwide.

# Efficient: Stationary shunting systems and special solutions



## Special conveyor carriages and transfer cars

- \_ Railborne goods handling technology for all applications
- \_ For moving coils, slabs, scrap cages and other heavy or oversize freight
- \_ For transferring lorries, locomotives and railway wagons
- \_ Carrying capacity up to 250 t
- \_ Specialised solutions are our strength

## Standard gauge pusher-truck shunting system

- \_ Traction forces up to 150 kN / max. pulling load approx. 3,500 t
- \_ Shunting speed under load 0.4 m/s / light running 0.8 m/s
- \_ Shunting lengths up to 500 m
- \_ Installation position laterally extendable or behind the buffer beam.

## Pusher-truck shunting system with direct action onto wagon wheels

- \_ Traction forces up to 50 (70) kN / max. pulling load approx. 1,200 t
- \_ Shunting speeds up to 1.4m/s
- \_ Shunting lengths up to 500 m
- \_ Double pusher rollers for reliable operation
- \_ Pusher rollers can be extended and retracted at any point on the shunting line, enabling flexible and fully automated operations.

## Chain-coupled or pusher-truck shunting systems

- \_ Traction forces up to 30 kN / max. pulling load approx. 700 t
- \_ Shunting speeds under load 0.3 m/s / light running 0.6 m/s
- \_ Shunting lengths up to 200 m
- \_ Above-ground and underground installation.



## Economical: Electric shunting robot



### Shunting robot

The shunting robot is the solution for uncomplicated and economical loading and shunting operations. Reduce personnel costs by using a shunting robot to automate your loading, unloading and weighing processes.

Additional arguments in favour of this proven Vollert technology are the high availability, low operating cost and low environmental impact in comparison with other solutions.

Easy operation and the sturdy vehicle design, using tried and tested components, ensure reliable, efficient loading, unloading and shunting operations.

# Economical: Electric shunting robot

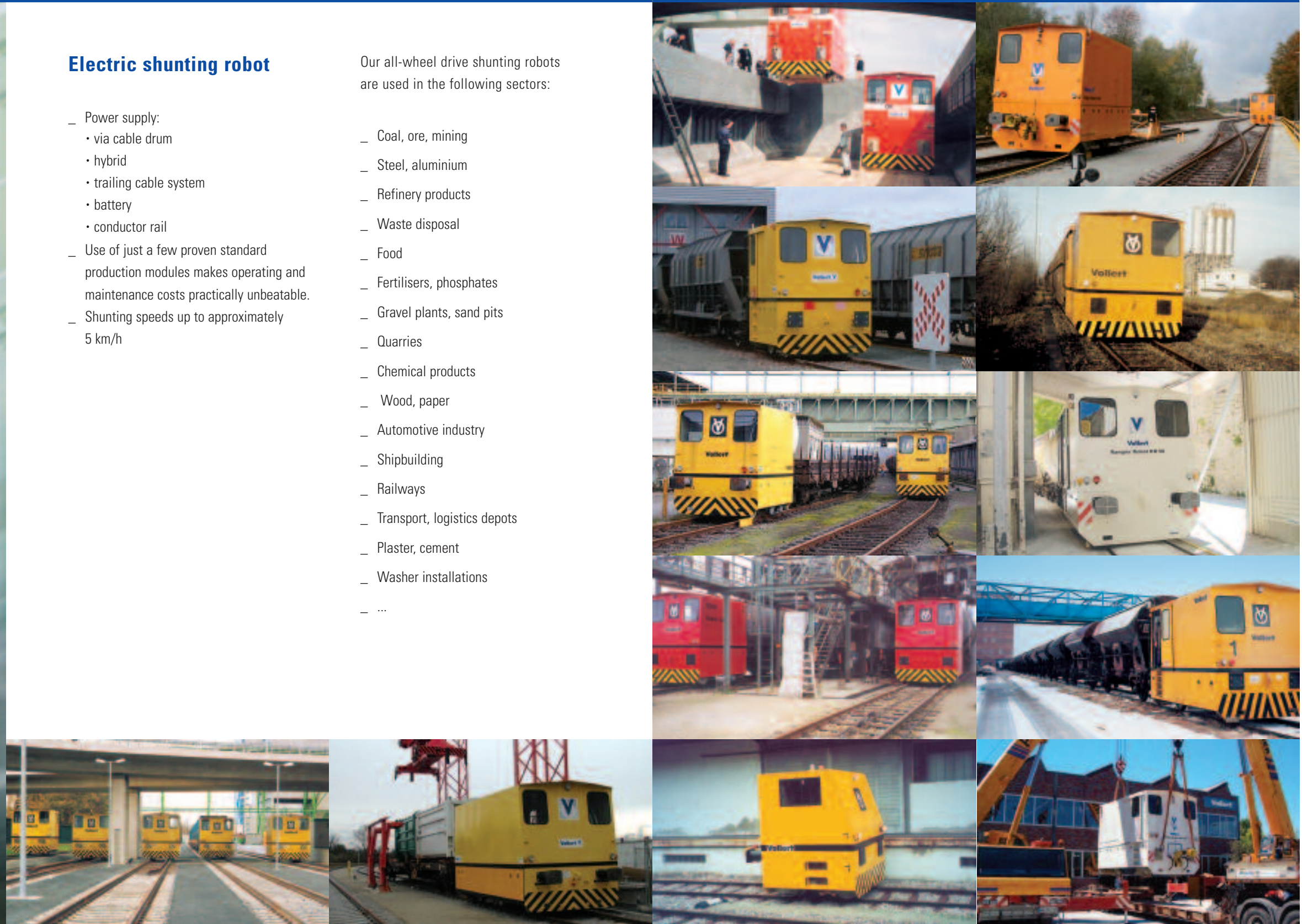


## Electric shunting robot

- Power supply:
  - via cable drum
  - hybrid
  - trailing cable system
  - battery
  - conductor rail
- Use of just a few proven standard production modules makes operating and maintenance costs practically unbeatable.
- Shunting speeds up to approximately 5 km/h

Our all-wheel drive shunting robots are used in the following sectors:

- Coal, ore, mining
- Steel, aluminium
- Refinery products
- Waste disposal
- Food
- Fertilisers, phosphates
- Gravel plants, sand pits
- Quarries
- Chemical products
- Wood, paper
- Automotive industry
- Shipbuilding
- Railways
- Transport, logistics depots
- Plaster, cement
- Washer installations
- ...



## Robust: Diesel shunting robot



### Individually designed and built

Each shunting robot is an individual product, exactly tailored to your needs, including:

- \_ Gauge to your specification
- \_ Suspension
- \_ Bogies
- \_ Radio control
- \_ Compressed-air supply (air braking)
- \_ Sanding systems
- \_ Anti-skid systems
- \_ Shunting coupling of your choice
- \_ Electronic controls by brand-name manufacturers.

# Robust: Diesel shunting robot



## Diesel shunting robot

- \_ Diesel-hydrostatic, diesel-hydrodynamic and diesel-electric drive systems.
- \_ Optional bogies guarantee outstanding curve-holding geometry.
- \_ Our optional tried and tested rubber-metal suspension increases ride comfort.
- \_ All units are easily accessible, ensuring problem-free maintenance.
- \_ Precise, graduated positioning with shunting speeds around 5 cm/s.
- \_ Speed capability of 40 km/h.

Our suppliers of individual components – to customer's requests – include

- \_ Siemens
- \_ Rexroth
- \_ Poclairn Hydraulics
- \_ Hägglunds Drive
- \_ SEW Eurodrive
- \_ Flender AG
- \_ Voith AG
- \_ Sab Wabco
- \_ Knorr Bremse AG
- \_ Cattron-Theimeg GmbH
- \_ HBC Radiomatic GmbH
- \_ MTU Friedrichshafen
- \_ Caterpillar
- \_ Cummins
- \_ Volvo
- \_ Deutz

