

HYDAC INTERNATIONAL

**Goals achieved
safely and speedily
with HYDAC ACCESSORIES**





HYDAC Sulzbach/Saar, Plant 8



HYDAC Denmark



HYDAC China



HYDAC USA



HYDAC Italy



HYDAC France



Your partner for expertise in rail technology.

With over 8,000 employees worldwide, HYDAC is one of the leading suppliers of fluid technology, hydraulic and electronic equipment. With numerous products and solutions, it has a presence in nearly all sectors.

We have been active in the rail technology sector for decades, working with our customers as a development partner from the outset.

HYDAC products are used in countless rail vehicles worldwide:

- complete systems and components for hydraulics, lubrication, cooling
- and mounting solutions for pipes, cables, hoses and components.

Expertise

You can capitalise on our many years of experience and our application knowledge.

Capacity and availability

thanks to in-house development and production.

System solutions. One supplier. One contact.

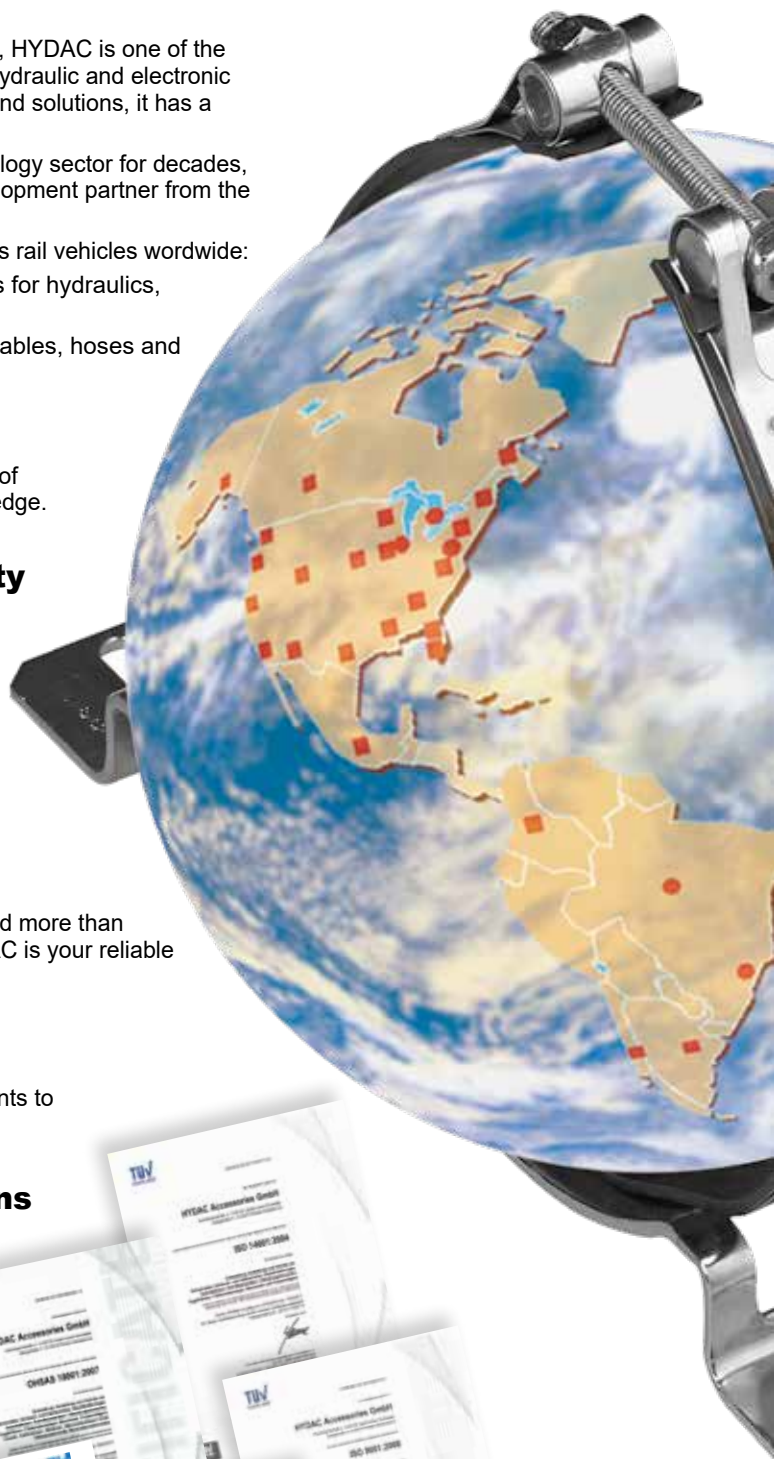
Global presence – local expertise.

With over 45 overseas subsidiaries and more than 500 sales and service partners, HYDAC is your reliable partner worldwide.

Wherever you need us, we are there to help you find the most effective solution.

For every application – from components to a complete system.

Worldwide specifications and approvals.



NOTE

The information in this brochure relates to the operating conditions and applications described. For applications and operating conditions not described, please contact the proper HYDAC department. All technical details are subject to change without notice.

HYDAC ACCESSORIES

All from one supplier

Single-source producer and supplier for accessory components.

In-house development capacity, interdisciplinary transfer of expertise among all HYDAC companies, minimised distances between development, production and sales. Rapid access to an extensive product range thanks to intelligent warehousing and lean logistics.

Individual product development and adjustment to customer specification.

Current range:

HY-ROS mounting technology

- HY-ROS mounts for pipes, hoses, cables and components
- Mounting technology to DIN 3015 for pipes
 - Hose, cable and component mounts in accordance with individual requirements
 - Buegu clamps
 - Series strips
 - Quick release swivel bolt clamps
 - Swivel bolt clamping bands
 - Combinations

HYDAC ball valves for shut-off and change-over without leakage

- Block-type, sleeve-type and manifold mounted ball valves
- Change-over ball valves
- Multi-way ball valves
- DIN, ANSI, SAE, ISO flanges
- High pressure, low pressure
- Isolator sandwich plates
- el./pneum. drives

Coaxial valves for open and closed-loop control

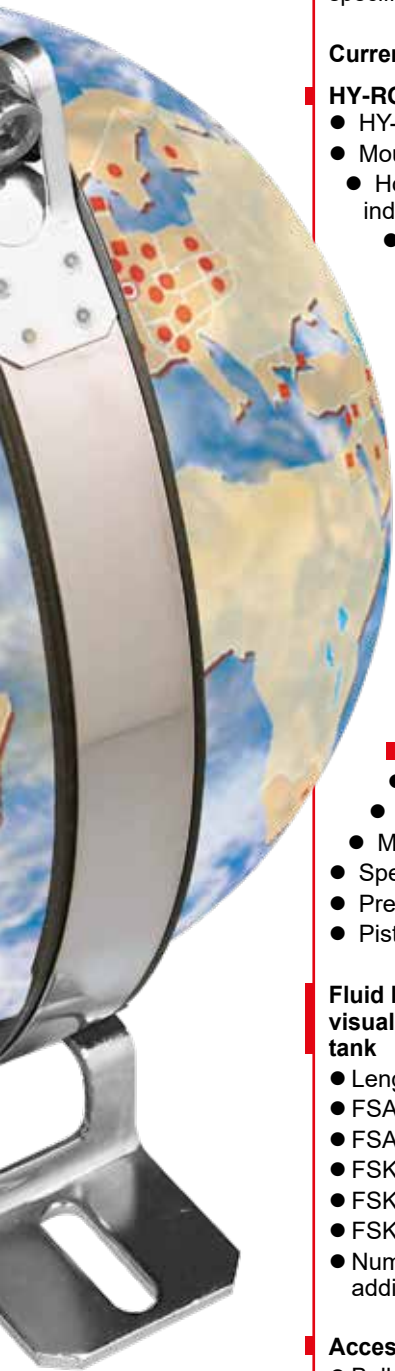
- 2/2-way, 3/2-way
- Direct acting, pilot operated
- Modular series
- Special valves
- Pressure relief valves
- Piston control valves

Fluid level gauges/fluid level sensors for easy recording, visualisation and control of the relevant fluid level values in a tank

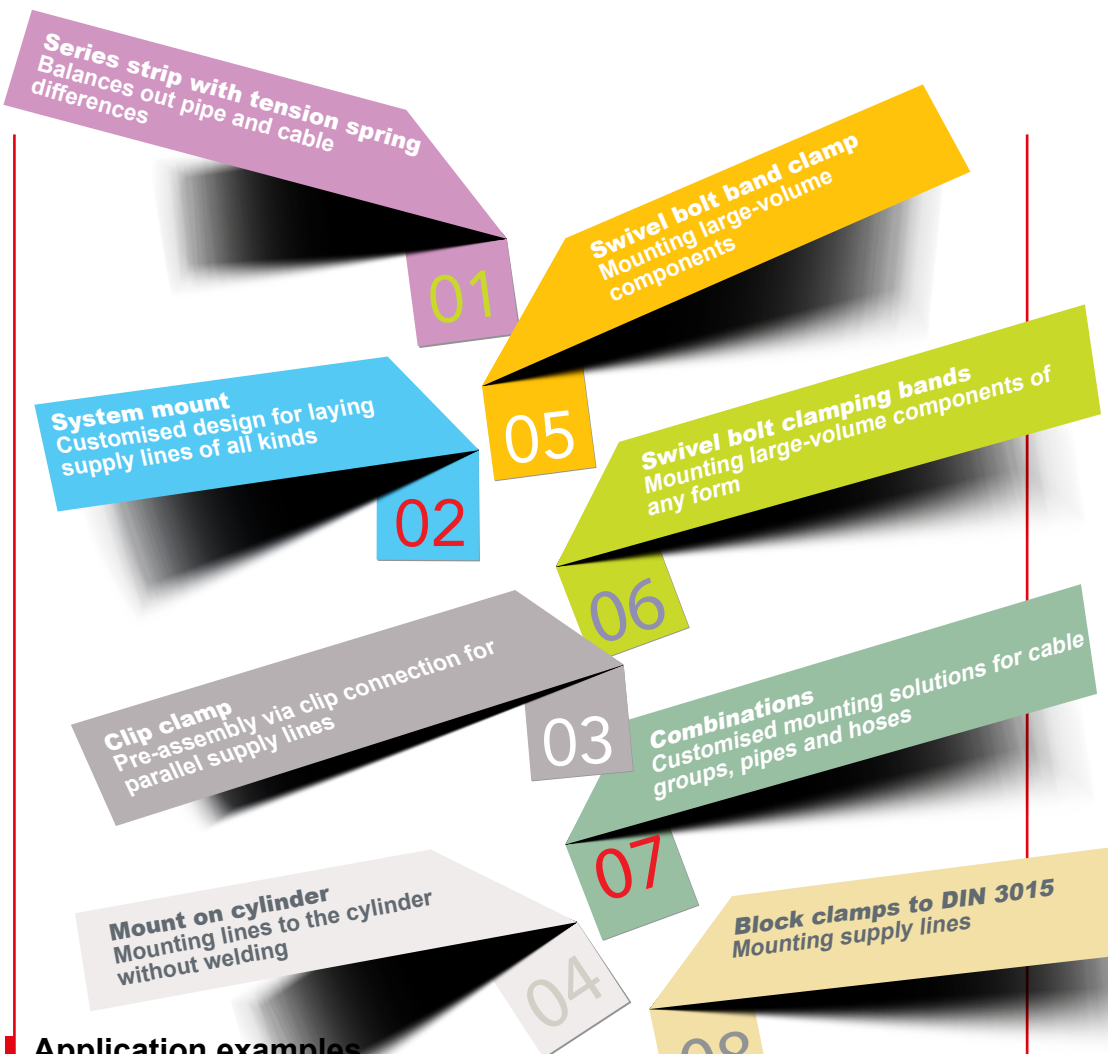
- Lengths from 76 mm to 1000 mm
- FSA, standard
- FSA with side inspection window
- FSK, standard
- FSK with 2 switching points
- FSK with variable switching points
- Numerous options regarding inspection window, pipe, form, additions, etc.

Accessories for traction, damping and tanks...

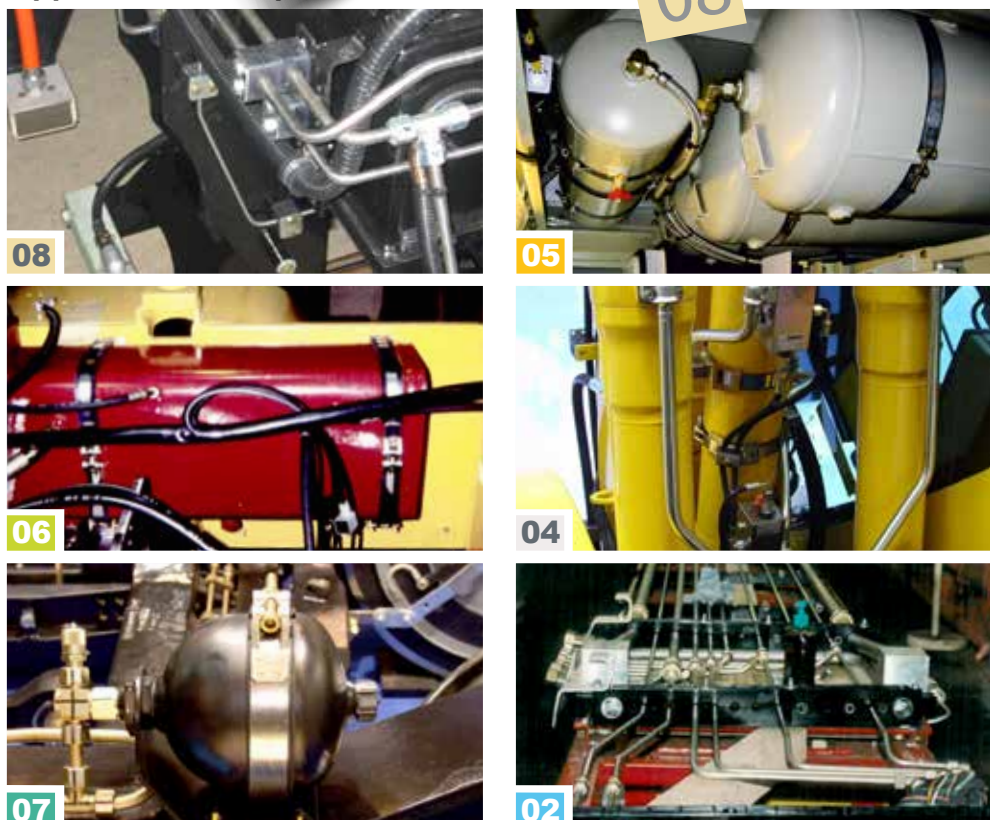
- Bell housings with flexible pump mounting and oil/air cooler
- Flexible and rigid bell housings
- Bell housing accessories
- Tank set
- Flexible drive (spider) and gear couplings



Mounting equipment for all pipes, cables, hoses, components, sensors...



Application examples



Components, assemblies and systems

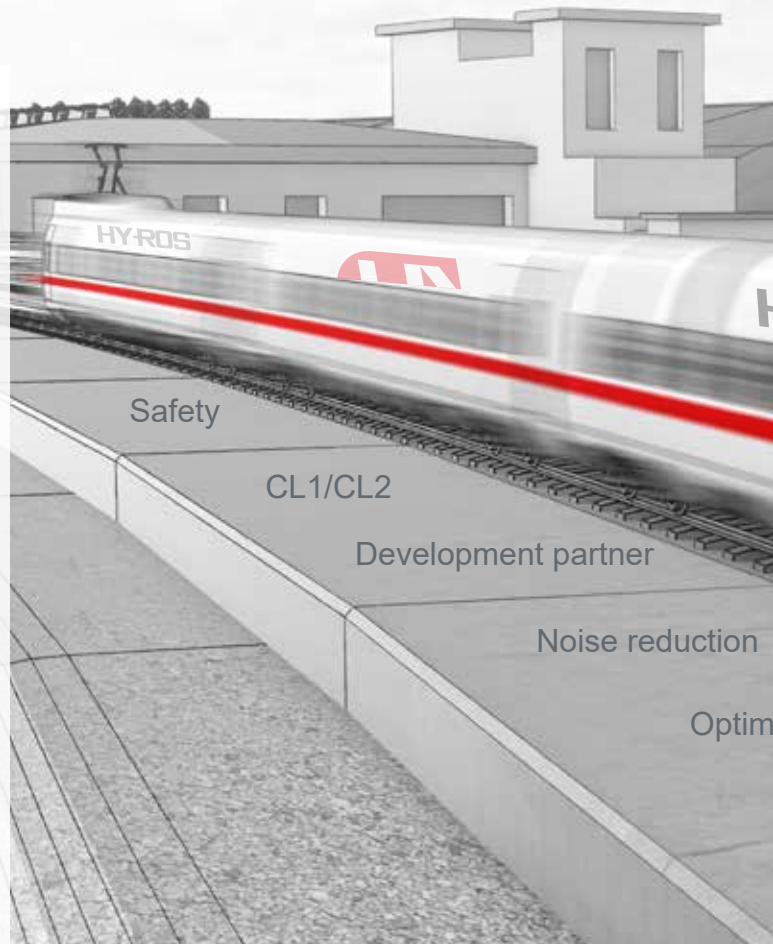
= manufacture, sales and expertise

Part for part, one step ahead: HY-ROS mounting technology

- Shock-absorbing
- Vibration-damping
- Sound-absorbing
- Gentle component mounting
- Space requirements minimised
- Simple installation
- Expertise garnered through 50 years of experience at international level
- In-house development – in-house production
- Materials compliant with international fire protection standards
- Weight-optimised
- Wide range of variants and combination options
- Additional safety for standard clamps according to DIN3015 thanks to use of embossed welding plates and non-rotating M6 support-rail nuts

AccuMount

Suitable mountings for your accumulator can be found on our homepage under Service → Online Tools



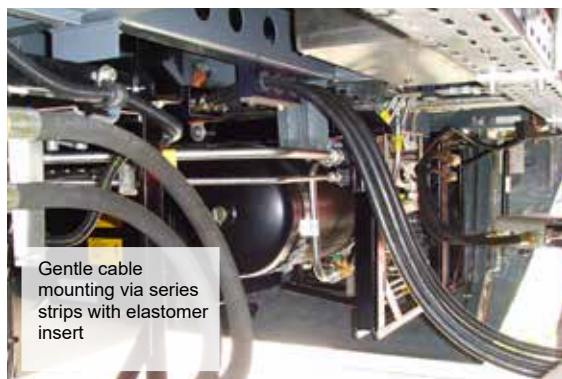
Applications: wheelsets, braking systems, bogies, vehicle transitions, buffers, couplers, tilting equipment, fire-extinguishing systems and much more



Buegu clamps for mounting small lines in engine area



Special shaping of DIN3015 clamps to hold corrugated pipes (e.g. type PMA)



Gentle cable mounting via series strips with elastomer insert



Under-floor installation of supply lines with HY-ROS system mounts



System solutions for rail vehicles

Get advice all from one supplier =



Optimised mounting

Space requirements optimised

Fire protection, e.g. EN 45545

Systematic fire protection

Fire protection is a crucial factor for safety in rail vehicles. Accordingly, very complex requirements apply for fire protection.

In practice this means that the materials used need to fulfil various test procedures and approval criteria to verify that effective fire protection is provided.

HYDAC's product range therefore includes clamps and mounting solutions made from special plastics (PAFF) and elastomers (TPEFF). These materials have been tested to the former national standard and the current European standard.

- EN 45545-2
 - DIN 5510-2
 - BS 6853
 - UNI CEI 11170-2
- UL 94-V0



HRGKSM with fire retardant underlay acc. to EN 45545 HL3

Rolling stock, drive technology, lavatory systems, sanding, air-conditioning equipment,



Swivel bolt band clamps to mount the buffer covering



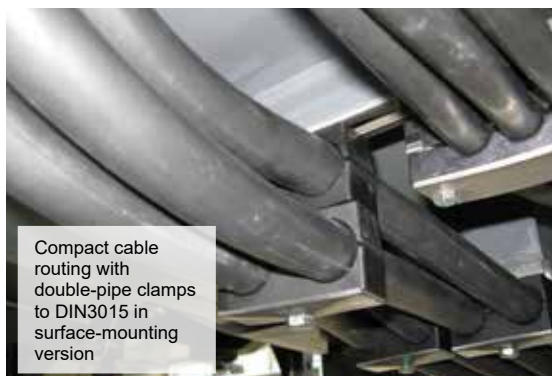
Compressed-air frame, underfloor: receivers mounted with swivel bolt band clamps, pipework mounted with standard DIN 3015 clamps.



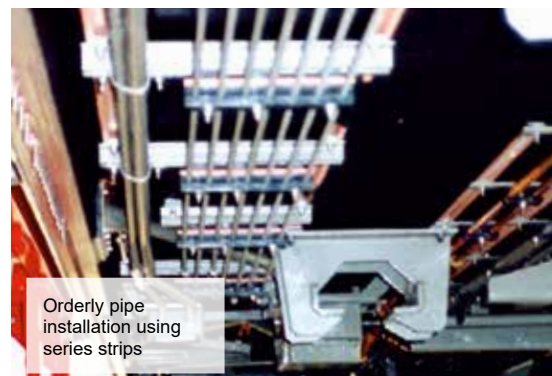
Fire extinguishers mounted and aligned by means of pivoting console clamps



Air reservoirs holding compressed air for sprinkler systems mounted with HY-ROS clamping bands



Compact cable routing with double-pipe clamps to DIN3015 in surface-mounting version



Orderly pipe installation using series strips

Valves and accessories

Fluid level gauges and sensors for mounting on the outside of tanks

09

Pneumatic or electrical drives for automated ball valve change-over

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Ball valves with position monitoring

10

Standard ball valve with DKO port and change-over wing handle

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Low-pressure ball valves to drain all kinds of tank systems

11

Direct acting coaxial valves for rapid blocking of media flows

15

Multi-way ball valves to shut off and change over media flows

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Application examples



09



12



09



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Accumulators 38.000



Filter Technology 20.000



Process Technology 77.000



Filter Systems 79.000



Compact Hydraulics 53.000



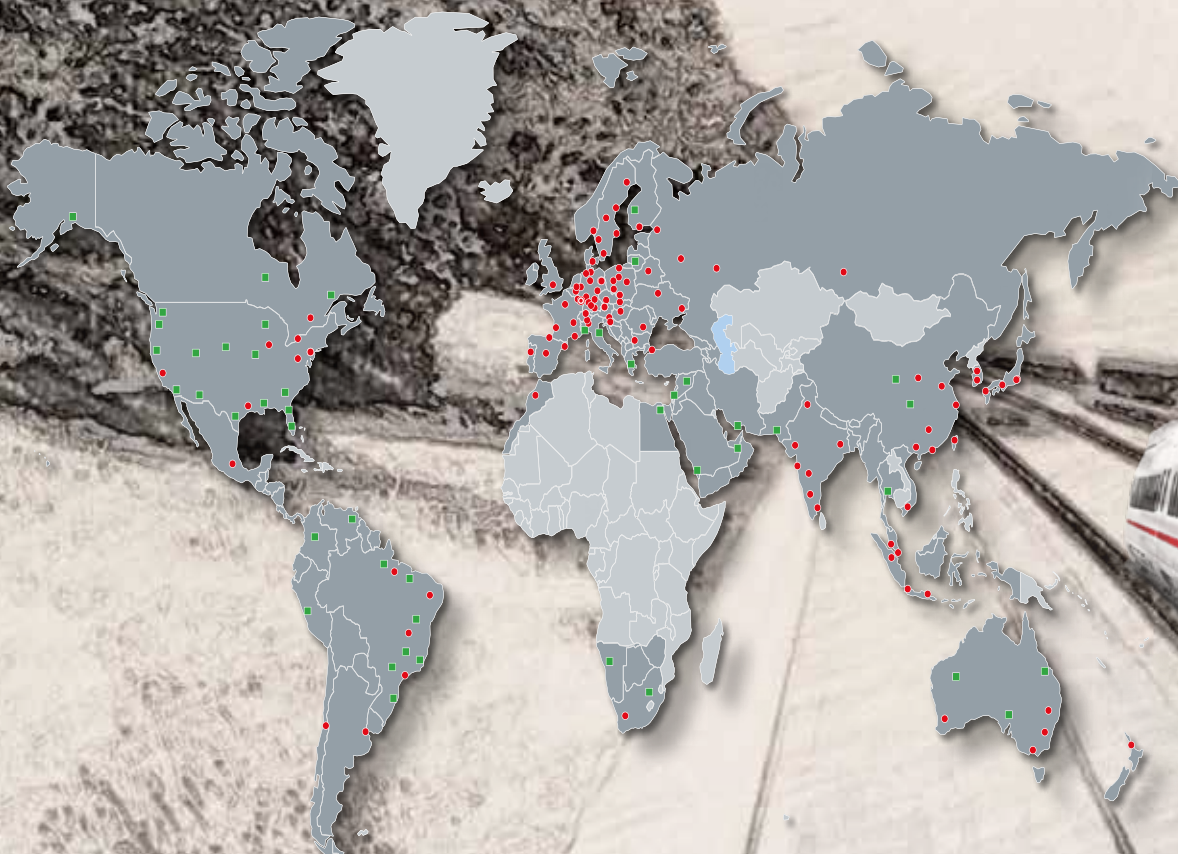
Accessories 61.000



Electronics 180.000



Cooling Systems 57.000



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