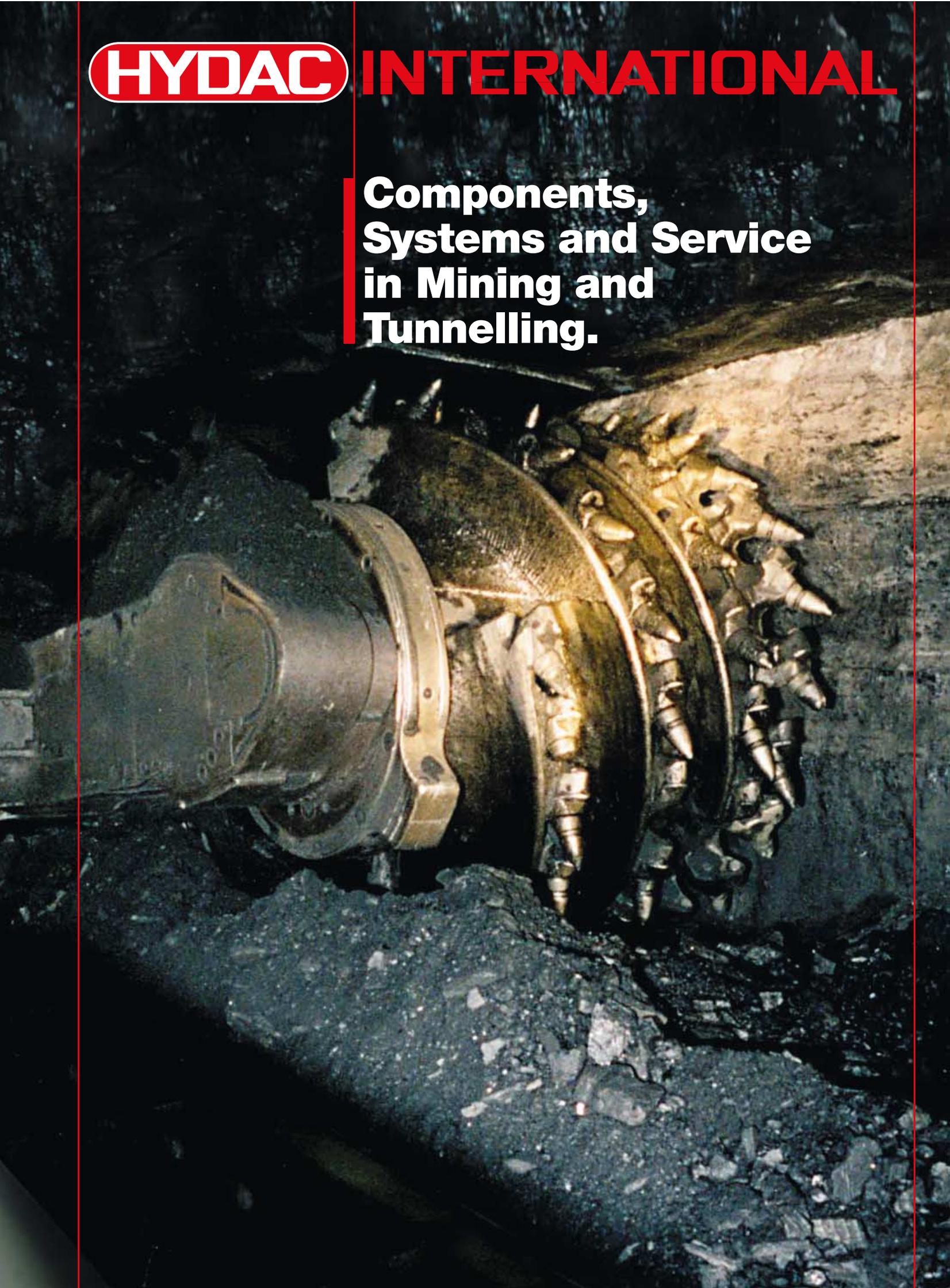


HYDAC

INTERNATIONAL

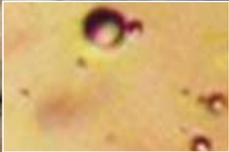
**Components,
Systems and Service
in Mining and
Tunnelling.**



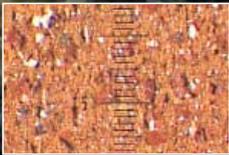
These fluid problems can and will cost you a fortune. HYDAC will help you to overcome them, saving you time, money and frustration.



Oil ageing



Water in oil



Rust



Particle contamination



Bearing wear and tear



Zinc soap



Damaged Components

HYDAC, your professional partner underground.

Our strategy is clear and simple

HYDAC has many years' experience in developing components and subsystems for the mining and tunnelling sector. Wherever hydraulics and lubrication systems are used, HYDAC plays a key role.

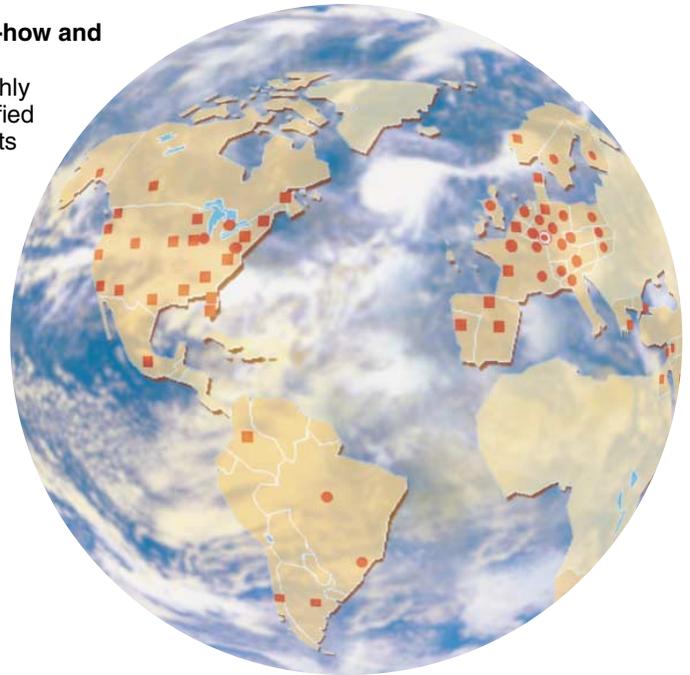
In many mines and tunnel-building projects all over the world, HYDAC products are used to ensure a trouble-free production process and to protect expensive components.

Global and yet local

With over 700 distributors and service centres and 35 offices, HYDAC is at hand worldwide as your reliable partner for fluid power and lubrication systems.

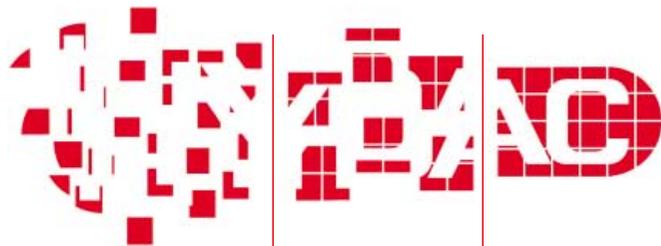
Experience, know-how and manpower

With over 3,000 highly motivated and qualified staff, HYDAC uses its consolidated knowledge and experience to solve your problems.



Solution packages. One supplier. One contact.

Wherever you need us, we're there to help you find the most effective solution – for every application, from components to a complete system.



From high-quality
components

and reliable
subsystems

to high quality
complete systems



HYDAC

With us you'll make the breakthrough.

Components.



HYDAC – the only manufacturer worldwide producing almost all the components required in hydraulics and lubrication. To guarantee the availability of your system we can supply:

- Hydraulic filters
- Lubrication filters
- Process filters
- Analysis units
- Dewatering units
- Elektronics
- Coolers
- Pumps
- Accumulators
- Ball valves
- Compact hydraulics
- Mounting technology

Systems.



HYDAC does not just manufacture components but combines these together expertly to produce specific complete systems. Reliable technology, high quality standards and extensive testing and inspection procedures guarantee the efficiency of HYDAC system solutions. Based on sound knowledge of the mining and tunnelling sector, HYDAC is able to develop

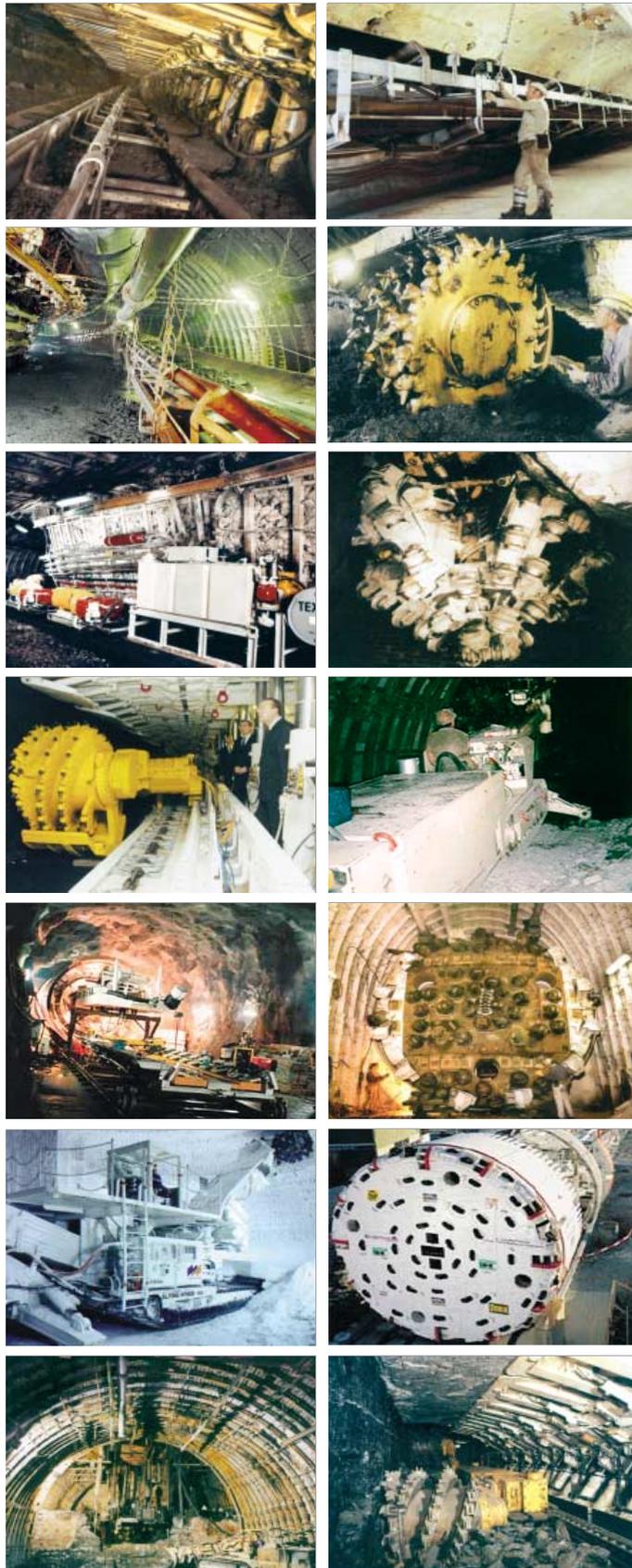
customised solutions such as filter stations for the recovery of HFA. In addition, HYDAC provides solutions for general hydraulics and water and transmission filtration.

Service and optimisation.



As a specialist in systems and fluid service, HYDAC SERVICENTER offers individual concepts: from cleaning to complete maintenance packages and action-plans for system optimisation. Our aim is to increase machine availability, reduce system failures and to increase productivity.

Components and Systems for underground working. From **HYDAC**



The right solution
for every task.



HYDAC develops and manufactures components and systems for fluid power, hydraulic and electronic drives, monitoring and control.

In addition to the product divisions Accumulator Technology, Compact Hydraulics, Cooling Systems, Electronics, Ball Valves and Mounting Technology, we are offering a further focus which is particularly important for mining and tunnelling: Filtration Technology using hydraulic, lubrication and process filters. Our staff are waiting for your call; set them a task and they will contact you. They will work with you to find the most economic solution for your particular problem. We are your professional contact – from design, through development and research, to testing in the most modern filtration laboratories.

Filtration technology in longwall hydraulics.



Stainless steel elements



Depth filter elements



Depth elements without support tube



Mega Rheo



Stainless steel inline filter PRFLK



Back-flushing high pressure block filter RFH



Stainless steel clogging indicators



HE elements

In mining and tunnelling, hydraulic props and shields support the walls of the cavity against the rock pressure. This electrohydraulic construction protects men and machines from underground risks. HYDAC's filtration products protect these high-quality products from breakdown, ensuring fault-free and safe operation. We provide you with filter designs tailored specifically to the demands of your operation, e.g. self-advancing support, central HFA recovery, etc.

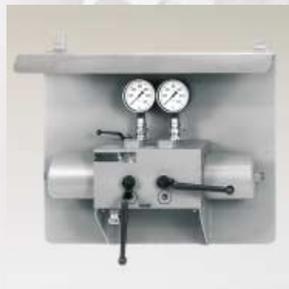
Filtration technology in transmission filtration.



Change-over inline filter RFLD



Change-over inline filter FMND



Pressure filter stations

HYDAC offers you components for servicing lubricants for heavy duty transmission systems. In addition to the single and change-over filter housings, the filter range also includes the necessary filter elements with low pressure drop, ensuring long-lasting and fault-free operation.

Filtration technology in water filtration.



Back-flushing filter RF3



Stainless steel inline filter PFL



Stainless steel elements and slotted tubes

The quality of HYDAC components guarantees the correct function and increases the life expectancy of your systems and machines. The filter range includes complete filter systems with or without automatic back-flushing. They extend the service life, improve the quality of the fluid to be filtered and reduce production costs.



Filtration technology in machine hydraulics.



Betamicron® elements



Betafit® elements



Aquamicron® elements



Return line filters RF



Pressure filters DF



Tank breather filters

Whether you are using hydraulic oils (H to HLPD), lubrication oils, rapidly biodegradable operating fluids (HETG, HEES, HEPG) or non-flam fluids (HFC, HFD). HYDAC provides filter housings to suit all mounting situations. Together with the necessary filter elements to remove solid particles (Betamicron®) and free water (Aquamicron®).

Accumulators.



Safety and Shut-Off Block



Pulsation damper



Bladder accumulator

Offline and de-watering.



OLF Offline filter



FAM Fluid Aqua Mobil



CS Contamination Sensor



AS Aqua-Sensor

Electronic.



Pressure transmitter



Pressure transmitter,
with ATEX or CSA approval



Electronic pressure switch

Valves.



Flow control valves



Pressure sequence valve



Pressure compensated
flow control valve

Mounting.



Mounting clamps



Swivel bolt clamping band



Quick release
swivel bolt band clamp

