Components, Systems and Service for Mining and Tunnel Construction.
With over 7,000 employees worldwide, HYDAC is one of the leading suppliers for fluid technology, hydraulic and electronic equipment.

Our wide range of products, combined with our expertise in development, manufacturing, sales and service enable a wide variety of challenges underground to be solved worldwide.

Our quality and environment certification ISO 9001/2000 and ISO 18001 denotes first class quality and responsible management of our resources.

Global and yet local.

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

System solutions.
One supplier.
One contact.

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.

Your professional Partner for Mining and Tunnel Construction.
Analysis and diagnostics.

70 - 80 % of all breakdowns in hydraulic and lubrication systems are due to contamination of the fluids and components used. In practice, this is not sufficiently recognized.

HYDAC offers a comprehensive range of easy-to-use measurement and analysis equipment to monitor fluid condition and technical cleanliness. Fluid laboratory vehicles are on the road for you worldwide.

Commissioning, optimization, engineering.

As a system and fluid service specialist, HYDAC offers comprehensive fluid engineering solutions: from cleaning and complete maintenance packages to system optimization measures, HYDAC is your central contact.

Our concern is to improve the operational availability of machines as well as fluid power systems. Fluid engineering is the complete package of technical and commercial services for the benefit of the customer.

Spare parts supply.

Your partner for optimal spare parts supply with all conventional filtration products. All from one supplier.
HYDAC Underground.

We offer:
- Global presence in mining
- Project-specific design of hydraulic plants and systems in accordance with worldwide mining standards and regulations
- Increased safety of operation, due to the use of explosion-protected components according to the ATEX Directive
- Continuous system optimization in partnership with our customers
- Cost optimization by means of customized system solutions
- Condition monitoring of hydraulic and lubrication circuits
- Full service – worldwide

Pump station, media supply, longwall hydraulics.

The compact media processing and servicing is carried out at stationary and mobile pump stations.

For special applications or functions HYDAC supplies products for:
- Filtration
- Pulsation damping
- Condition Monitoring

Stationary pump station for HFA supply

Mobile pump station (pump car) for longwall hydraulics

Stainless steel inline filter for filtration of HFA and water including mining-specific filter elements

High-pressure filter for mobile pump station

Pulsation damper for high pressure pumps

Flexmicron elements
Mining-specific candle filter elements

Wombat elements
Optimized elements for bag filter housing
Mining – extraction of the raw materials

Mining raw materials by the longwall or room-and-pillar methods necessitates servicing and protection of components such as the water, HFA and hydraulic systems. For mining activities, HYDAC supplies:

- Concepts for pressure filtration, return line filtration and offline filtration
- Filter elements stable up to 350 bar differential pressure
- Valves
- Complete systems, e.g. for offline filtration
- Cylinders for all machines and equipment used underground

- Manual or automatic AutoFilt® RFH back-flushing high-pressure filter for water and HFA preparation
- Filter element for high pressure applications for working filtration and protective filtration in HFA systems
- Automatic AutoFilt® RF3 back-flushing filter for water preparation for nozzle system and cooling system
- Bypass flow filter unit with ATEX approval
- Protective filter ILF with SteckO connection
- Longwall extraction with shearers
- Room-and-pillar extension with Continuous Miner
- High pressure filter station for filtration of longwall hydraulics or spray water
- Sign, Cylinder for pressures up to 1,500 bar
- Two-stage, switchable back-flushing filter for the nozzle system of a Continuous Miner

Filter element for high pressure applications for working filtration and protective filtration in HFA systems
Preliminary work – Development and expansion of the mining site

- Whether full section, part-face or conventional driving, HYDAC products guarantee smooth operation underground.
- Filters for hydraulic media and water
- Hydraulic accumulators
- Electronic measurement technology for underground
- Solenoids
- Hydraulic valves
- Ball valves and fluid level gauges
- Pipe clamps, hose and cable mountings, component mountings
- Bell housings and couplings
- Cylinders with special coatings for harsh operation underground

Drill jumbo Saarstahl AG

Part-face heading machine

Side-dump loader

Piston accumulators

SteckÖ ball valve

Pressure transmitters with ATEX approval

Direct current lifting solenoids with ATEX approval

HDF pressure filter e.g. for the hydraulic circuit on a part-face heading machine

DF pressure filters in steel, 420 bar
Logistics – Material handling and passenger transportation

Belt conveyors, monorails and industrial trucks are the means of transport underground. To keep the transport moving, HYDAC supplies amongst other things:

- Filters for water, hydraulics and lubrication systems
- Cylinders, e.g. for chassis and conveyor systems
- Hydraulic accumulators, e.g. in monorails
- Mounting technology

Loader

Plate heat exchanger and/or air cooler for gearbox cooling

Drill jumbo

Cylinders for pneumatic belt tension

Conveyor belt system

Bladder accumulators for supporting the hydraulics

Conveyor system

Cylinders

Change-over inline filters e.g. for conveyor operation

Combination cooler for drive motor cooling

Filling pump for circulation pumping of hydraulic oil

Accessories

Loader Drill jumbo

Cylinders

Plate heat exchanger and/or air cooler

Change-over inline filters e.g. for conveyor operation

Bladder accumulators for supporting the hydraulics

Cylinders

Filling pump

Accessories

Conveyor belt system

Conveyor system
Global Presence. Local Expertise.
www.hydac.com