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.
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
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

Piston accumulators

SteckO ball valve

Side-dump loader

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

Plate heat exchanger and / or air cooler for gearbox cooling

Cylinders for pneumatic belt tension

Drill jumbo

Filling pump for circulation pumping of hydraulic oil

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

Bladder accumulators for supporting the hydraulics

Cylinder for the loader suspension system

Accessories

Conveyor belt system

Conveyor system