

**HYDAC**

**INTERNATIONAL**

**Components,  
Systems and Service  
for Mining and Tunnel  
Construction.**





HYDAC Headquarters Germany

# HYDAC

## Your professional Partner for Mining and Tunnel Construction.



HYDAC China

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.



HYDAC Poland / Russia

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.



HYDAC USA

### 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.



HYDAC India

### Worldwide SPECIFICATIONS and approvals.



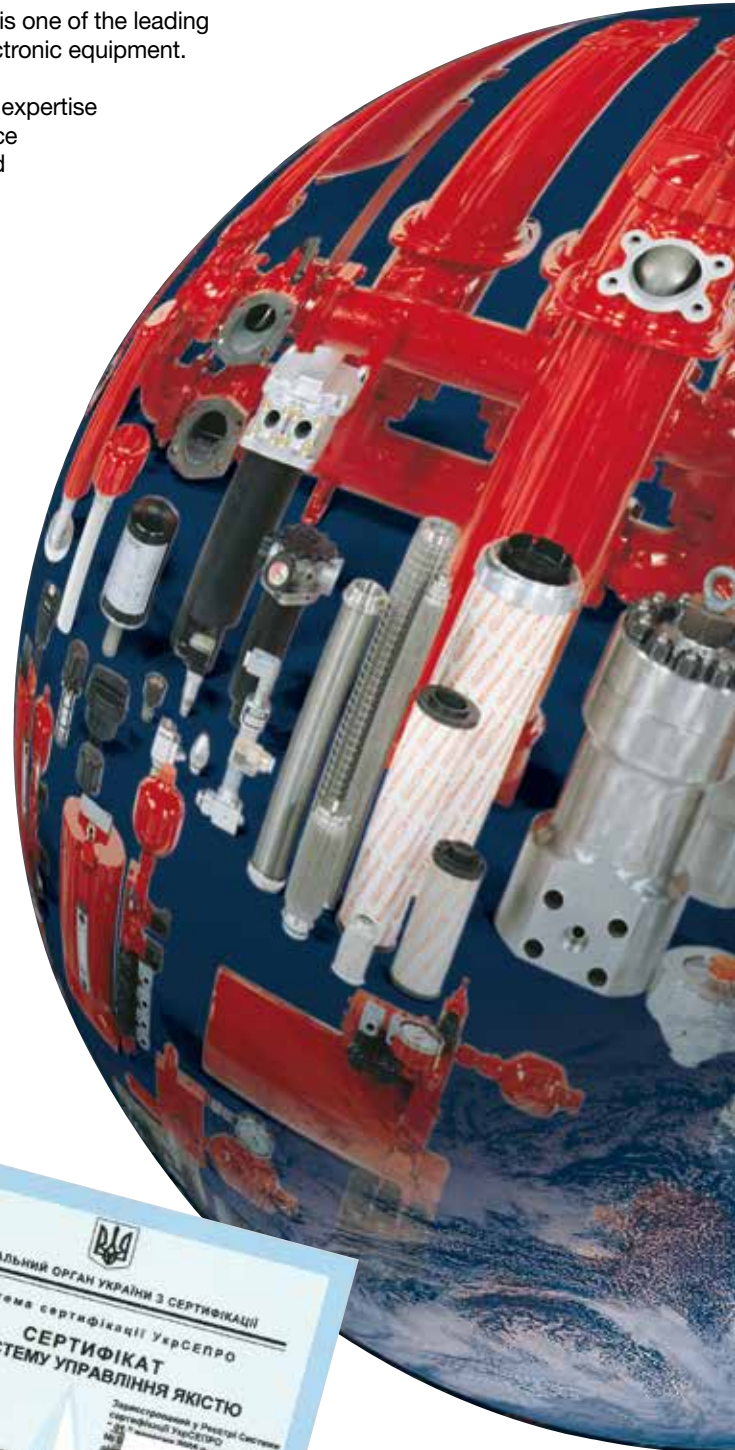
HYDAC Korea



HYDAC Australia



HYDAC Brazil



# Fluid Engineering, Service and Spare Parts Supply – worldwide.

## ■ 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.

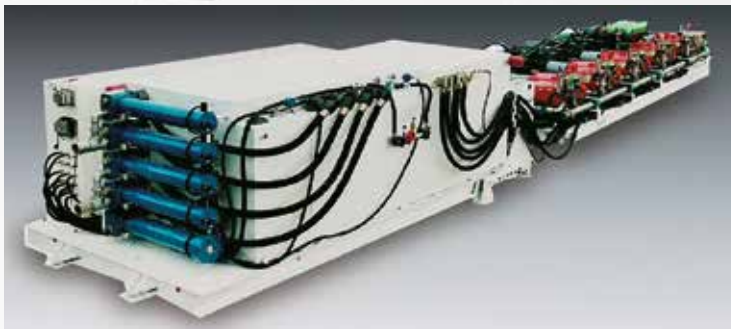
Your partner for optimal spare parts supply with all conventional filtration products. All from one supplier.



## 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



Mobile pump station (pump car) for longwall hydraulics



High-pressure filter for mobile pump station



Pulsation damper for high pressure pumps

### 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



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



Fleximicron 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



Longwall extraction with **shearers**



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



**High pressure filter station** for filtration of longwall hydraulics or spray water



**Automatic AutoFilt® RF3 back-flushing filter** for water preparation for nozzle system and cooling system



Room-and-pillar extension with **Continuous Miner**



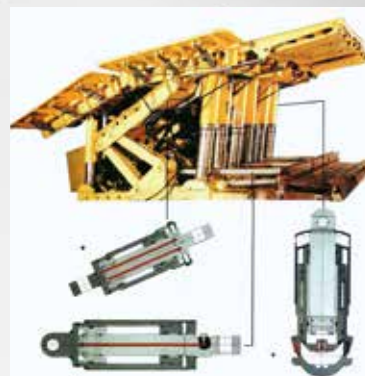
**Bypass flow filter unit** with ATEX approval



Two-stage, **switchable back-flushing filter** for the nozzle system of a Continuous Miner



**Protective filter ILF** with SteckO connection



**Sign.** Cylinder for pressures up to 1,500 bar

## 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



Side-dump loader



SteckO 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



**Cylinders** for pneumatic belt tension



**Loader**



**Drill jumbo**



**Plate heat exchanger** and / or **air cooler** for gearbox cooling



**Combination cooler** for drive motor cooling



**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**



Accumulators E 30,000



Filter Technology E 70,000



Process Technology E 77,000



Filter Systems E 79,000



Compact Hydraulics E 53,000



Accessories E 61,000

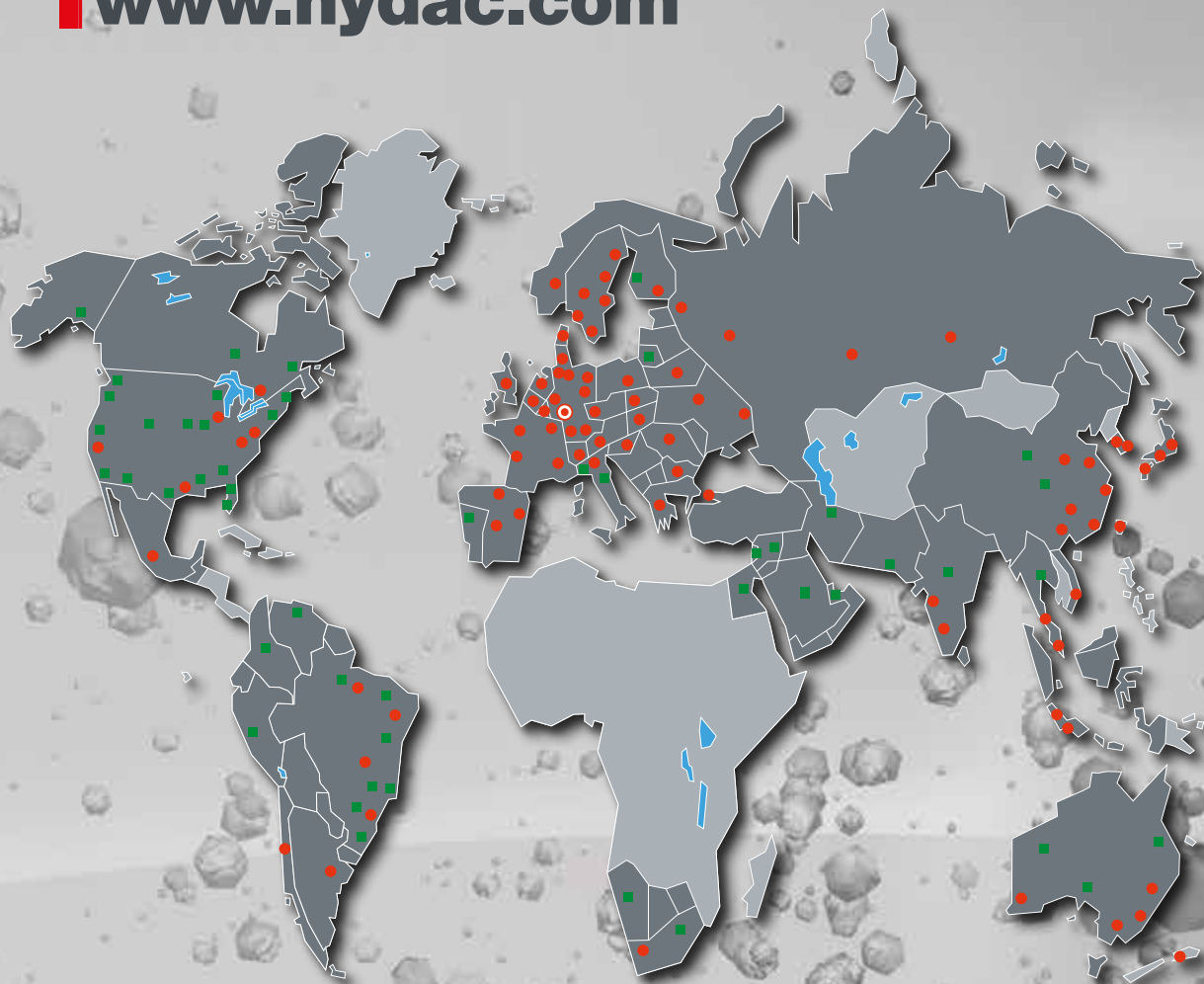





Electronics E 180,000



Cooling Systems DEF 5,700

# Global Presence. Local Expertise. [www.hydac.com](http://www.hydac.com)



-  HYDAC Head Office
-  HYDAC Companies
-  HYDAC Sales and Service Partners

**HYDAC**

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