More than 40 years of Competence, Innovation and Quality.

With 5,000 employees, 40+ worldwide locations and more than 500 distributors and service partners worldwide, HYDAC is close to customers, providing local engineering consulting, production, installation, and service. HYDAC’s global presence allows us to meet the high standards of the international community. This requires a vast distribution and support network structure.

With our commitment and discipline, HYDAC’s worldwide network is created from competence and innovation. HYDAC is prepared to meet your quality standards, which is supported with a high level of service.

HYDAC has more than 40 years of challenging applications from many different markets and industries.

Challenge HYDAC and put our experience to the test!

Our employees are prepared to offer you the most economical and technical solution for your application.
INNOVATIVE FLUID POWER

Accumulator Technology

Components and systems for all types of Accumulator Applications:
Bladder, Diaphragm, Piston and Dampeners.
The most complete range of Accumulators, worldwide.
With more than 40 years of application experience, HYDAC has the right Accumulator solution for every application.
HYDAC Accumulators are constructed according to the individual country’s guidelines and laws for pressure vessels. They are delivered with the corresponding certificates of testing and certification.

The Products
• Bladder Accumulators
• Diaphragm Accumulators
• Piston Accumulators
• Pulsation Dampeners
• Suction flow stabilizers
• Shock absorbers
• Silencers
• Safety and Shut-off Blocks
• Charging and Testing Equipment
• Nitrogen Charging Units
• Accumulator Charging Stations
• Accumulator Stands

Typical Applications
• Energy storage
• Power supply to test equipment
• Volume stabilization
• and compensation
• Leak oil compensation
• Constant pressure maintenance
• Temperature compensation
• Pump pulsation minimization
• Pressure surge dampening
• Noise-dampening
• Media separation in lubrication systems
• Weight compensation

Filtration Technology

Components and systems for filtering solid, liquid, and gaseous contamination and for extracting water from hydraulic, lubricating, non-flammable and biological operating fluids.

HYDAC Filtration products fulfill market demands for:
• High particle separation over a wide differential pressure range
• Low pressure drop, also during cold starts
• High collapse stability
• High contamination retention, longer service intervals
• Reduced installation dimensions
• Machine specific housings
• Low weight

The Products
• Inline filters up to 20,000 psi, flows up to 4,000 gpm
• Off-line filters for extreme contamination
• Filter elements, materials: glass fiber, metal fiber, wire mesh, paper and incinerable plastic media
• Filtration ratings: 1 µm absolute – 200 µm nominal
• Clogging indicators: visual, electrical, and electronic
• Tank breather filters, filtration ratings: 3 µm and 10 µm

Typical Applications
• Industrial Hydraulics and Lubrication Systems
• Machine Tools
• Plastic Molding Machines
• Foundry Machinery
• Automotive Machining, Coolant and Assembly
• Mobile Equipment
• Steel and Aluminum Manufacturing and Processing
• Mining Equipment
• Oil, Gas and Off-shore Technologies
• Shipbuilding and Marine
• Power Plants
• Paper and Wood Mills
• Test Equipment
• Water Purification Plants
**Process Filter Technology**

Components, filter elements, and systems for separation technology of water, water-based, viscous and aggressive fluids.

Our Process Filtration Products are based on application engineering, computerized construction, as well as, extensive testing in HYDAC’s laboratories and test equipment.

**The Products**

- Performance filters made of stainless or carbon steel - pressures up to 9,500 psi and temperatures up to 1,000°F
- Filter elements made of stainless steel (cleanable) for differential pressures up to 6,000 psi and temperatures up to 825°F
- Automatic back flushing filters for the filtration of machining lubricants, parts washing fluids, and process waters with flows up to 30,000 gpm

**Typical Applications**

- Chemical and Petrochemical Industries
- Plastics Production
- Water Cooling Systems
- Washing Systems
- Waste Water and Sewage Treatment Plants
- Municipal Water Facilities
- Lubrication Systems
- Paper Mills
- Power Generation Plants
- Steel Mills
- Automotive Plants
- Machine Tools
- Cooling Lubricants
- Off-shore and Shipbuilding
- Snow Blowing Equipment
- Agricultural Irrigation Systems
- Food and Beverage
- Mining

**Filter Systems Technology**

Mobile and/or stationary components and systems providing:

- Separation of solid, liquid, and gaseous contaminants from hydraulic fluids, lubricating oils and emulsions.
- Extended intervals between maintenance and longer life for operating fluids.
- Monitoring, analysis, and diagnostics of the operating conditions for critical equipment.
- Practical infield experience with extensive laboratory testing.

**The Products**

- Offline Filtration Units (OLF)
- Automatic Filtration Systems
- Vacuum Dehydration Systems (FAM)
- Particle Counters (FCU)
- Online Contamination Sensors (CS)
- Water Sensors (AS)
- Digital Analysis Units
- Portable Measuring Instruments
- Sampling Equipment
- Contamination Measuring and Analysis Kits

**Typical Applications**

- Hydraulic and Lubricating Systems
- Test Stands
- Fluid storage and Transfer Systems
- System contamination removal
- Fluid Transfer Handling

**Areas of Application**

- Power Unit Builders
- Steel, Foundry and Aluminum Plants
- Wind Power
- Cement Equipment
- Paper Mills
- Industrial Transmissions
- Gas Turbines
- Industrial Compressors
- Construction, Agricultural, and Forestry Machinery
- Plastic Machines
- Machine Tools
- Off-shore and Shipbuilding

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Cooling Systems

HYDAC offers a modular series of components and systems in the area of fluid cooling technology. Developed and manufactured in state of the art production facilities, HYDAC Cooling Systems are designed for application oriented solutions. Our cooling technology is designed for engineered applications for both mobile equipment and industrial machines.

The Products
- Oil Air Coolers up to 100+ hp
- Oil Water Coolers up to 100+ hp
- Liquid Air Cooling Systems
- Cooling Systems with Filters
- Oil Air Coolers with Pump Motor Mounts

Typical Applications
- Machine Tools
- Hydraulic Systems
- Hydrostatic Drives
- Mechanical Dives
- Wind Power Systems
- Plastic and Die Cast Machines
- Railroad Technology
- Mobile Equipment
- Gas Turbines
- Industrial Compressors

Hydraulic System Technology

Complete systems and subsystems, as well as, propulsion and stabilization systems utilizing electronics for both mobile and stationary machinery installations. Application orientated engineering based on customer specifications.

The Products
- Vibration absorbing suspension systems with ride control for agricultural, forest, and construction machines
- Compact modular drive units with integrated control valves, as well as, multi-function components for mobile and stationary applications
- Compact servo systems and actuators
- Accumulator stations for power supply, emergency energy operation and crash test systems
- Central lubrication systems with tank volumes up to 8,000 gallons for turbines, compressors, and paper machines

Typical Applications
Compact Hydraulics

Components, Manifolds, Subsystems, Drive Units and Controls equipped with electronics. Extensive field and laboratory testing, which are ISO Certified.


Solenoid valves and solenoid systems which are highly efficient and resistant to high pressures.

Mobile Directional Control Valves

Valves with innovative features to promote system stability and energy efficiency. Application based development tailored for precise control in a variety of applications requiring low and mid range flows in systems using fixed or variable displacement pumps.

Our valves can be configured with our compact manifolds, accumulators, filters, and other products to provide economic system solutions.

The Products

- Control blocks with standard operational controls
- Modular manifold systems incorporating multi-hydraulic functions
- Manifold systems with Accumulators, Filters, Electronic Sensors and other HYDAC components providing a compact, multifunction cost effective system
- Integrated systems for hydraulic steering and energy storage
- System and component experience optimizing your application solution from one source

Typical Applications:

- Truck Mounted and Timber Cranes
- Utility Man Lifts
- Articulated Mowers
- Front End Loaders
- Wheel Loaders
- Fork Lifts
- Container Handlers
- Tow Trucks
- Refuse Trucks
- Dump Trucks
- Construction & Forestry Equipment

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Accessories

Global leader in the manufacturing and supply of Hydraulic Accessories.
Standard and Custom Solutions including:
- Ball Valves for liquid and gaseous media.
- Monitoring components for fluid level and pressure.
- Clamping systems for pipes, tubes, hoses, wires, and machine parts.

Electronics and Diagnostic Technology

Components, sensors and systems for electronic measurement, analysis, and diagnostic control.

EMC protection.
Standard Electronics and custom solutions for automotive steering and ride control.

The Products

- Measurement Technology
- Pressure Transducers
- Pressure and Temperature Switches
- Temperature Transducers
- Flow Transducers
- Electronic Level Switches
- Oil Condition Sensors
- Aqua (Water) Sensors
- Linear Variable Displacement Transducer
- Portable Measuring Instruments for System Diagnostics
- Proportional Control Amplifier

The Products

- Ball valves in carbon or stainless
- Two-way, three-way and multi-way ball valves
- Multi function valves in carbon or stainless
- Fluid level indicators with visual and electronic signals
- DIN 3015 Clamps
- Hose clamps
- Cylinder Clamps

Typical Applications

- System Engineering in Hydraulics, Gas, Lubrication, Chemical and Petrochemical Technologies
- General Engineering
- Pipeline Construction
- Vehicle and Rail Construction
- Agricultural, Construction and Forest Machines
- Off-shore and Marine Technology

Coils

- Switching and Proportional Coils
- Explosion Proof Solenoids
- Automotive Engineering
- Manifolds, Valves and Systems
- Typical Applications
- Industrial and Mobile Applications
- Presses
- Plastic Machines
- Machine Tools
- Hydro Electric installations
- Test Systems
- Construction, Forest and Agricultural Equipment
- Paper Machines
- Power Units
- Steel Mill Equipment

WHY INNOVATIVE FLUID POWER

INNOVATIVE FLUID POWER

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