

**HYDAC** | **INTERNATIONAL**



# Mobile Equipment

Components, Systems and Solutions



## Systems and Service - 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 direct relationship is often not sufficiently recognized.

HYDAC offers a comprehensive range of easy-to-use measurement and analysis equipment to monitor operating media and component cleanliness. Fluid laboratory vehicles are at your service worldwide.



HYDAC USA - Cooling Systems



HYDAC USA - Compact Hydraulics



HYDAC USA - Mobile Hydraulics

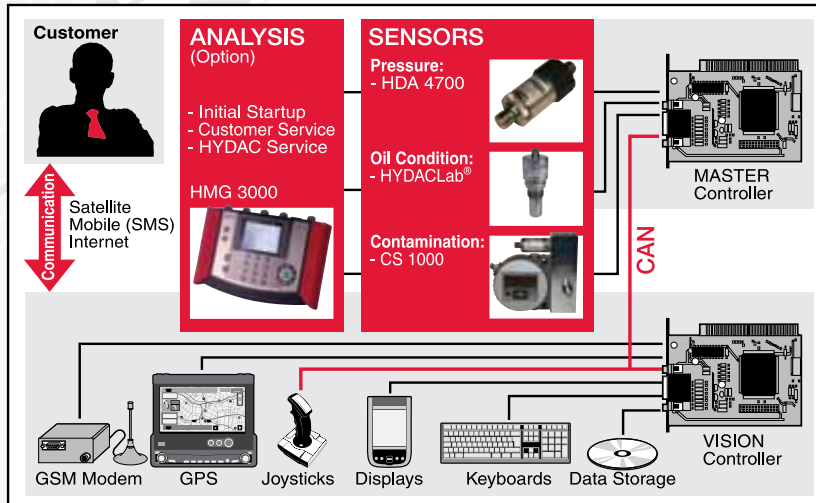


HYDAC Canada



HYDAC Brazil

### Condition Monitoring, Remote Data Transfer



Constantly growing demands for operational availability, the reduction of downtimes, detailed load and service management (*economy, wear and tear, service, warranty*) require innovative collective monitoring, service and control concepts.

A variety of sensors provide the ideal basis for the construction of such system solutions.

- Oil condition / oil ageing via temperature, moisture, viscosity, dielectric constant (*HYDACLab®*), water content (*AS Series*), temperature (*ETS Series*)
- Particle contamination (*CS Series*)
- Pressure (*HDA Series*)
- Flow rate (*EVS Series*)
- Fluid level (*ENS series*)

When used in conjunction with the portable Data Recorders of the HMG Series or the stationary CMU 1000 monitoring and alarm unit, this data can be displayed and analysed, to supplement the electronics of the machine (*servicing*).



HYDAC USA - Filters & Electronics



HYDAC USA - Accumulators & Access.



HYDAC Germany



HYDAC France



HYDAC China

## Your Professional Partner for Mobile Equipment.

With more than 5,000 employees worldwide, HYDAC is a leader in fluid technology, hydraulic and electronic equipment.

Our wide range of products, combined with our expertise in development, manufacturing, sales and service enables the mobile equipment industry worldwide to overcome the most diverse problems.

### Global, yet local.

With 50 global subsidiaries and more than 500 distributors and service centers, HYDAC is your reliable global partner.

### System solutions.

#### One supplier.

#### One point of contact.

Wherever you need HYDAC, we are there to help you find the best solution - for everyday applications.

From components to complete systems.

## Worldwide Approvals



## ***Filtration***

A comprehensive range of hydraulic and breather filters, fitted with high-quality filter element materials. We are able to ensure a high level of operating safety and extended maintenance intervals for:

- Pressure Oil Filtration
- Return Line Filtration
- Supply Circuit Filtration
- Filter Clogging Indicators
- Filter Elements
- Brand Labelling to Safeguard Spare Parts Business



## ***Accumulators***

HYDAC is the only worldwide manufacturer producing all types of hydraulic accumulators – **bladder, piston, diaphragm accumulators**, and **hydraulic dampeners** and the best technical solution for every application. Our accumulators are supplied with pressure vessel certifications to the laws governing the appropriate country of installation.



## ***Mobile Directional Control Valves***

HYDAC Mobile Directional Control Valves offer a reliable solution for many different types of mobile equipment. Typical equipment includes truck loading cranes, excavators, wheel loaders, forestry equipment, refuse trucks and other special machinery. When combined with our wireless remote controls, the equipment builder has a convenient system that delivers a unique but proven package.



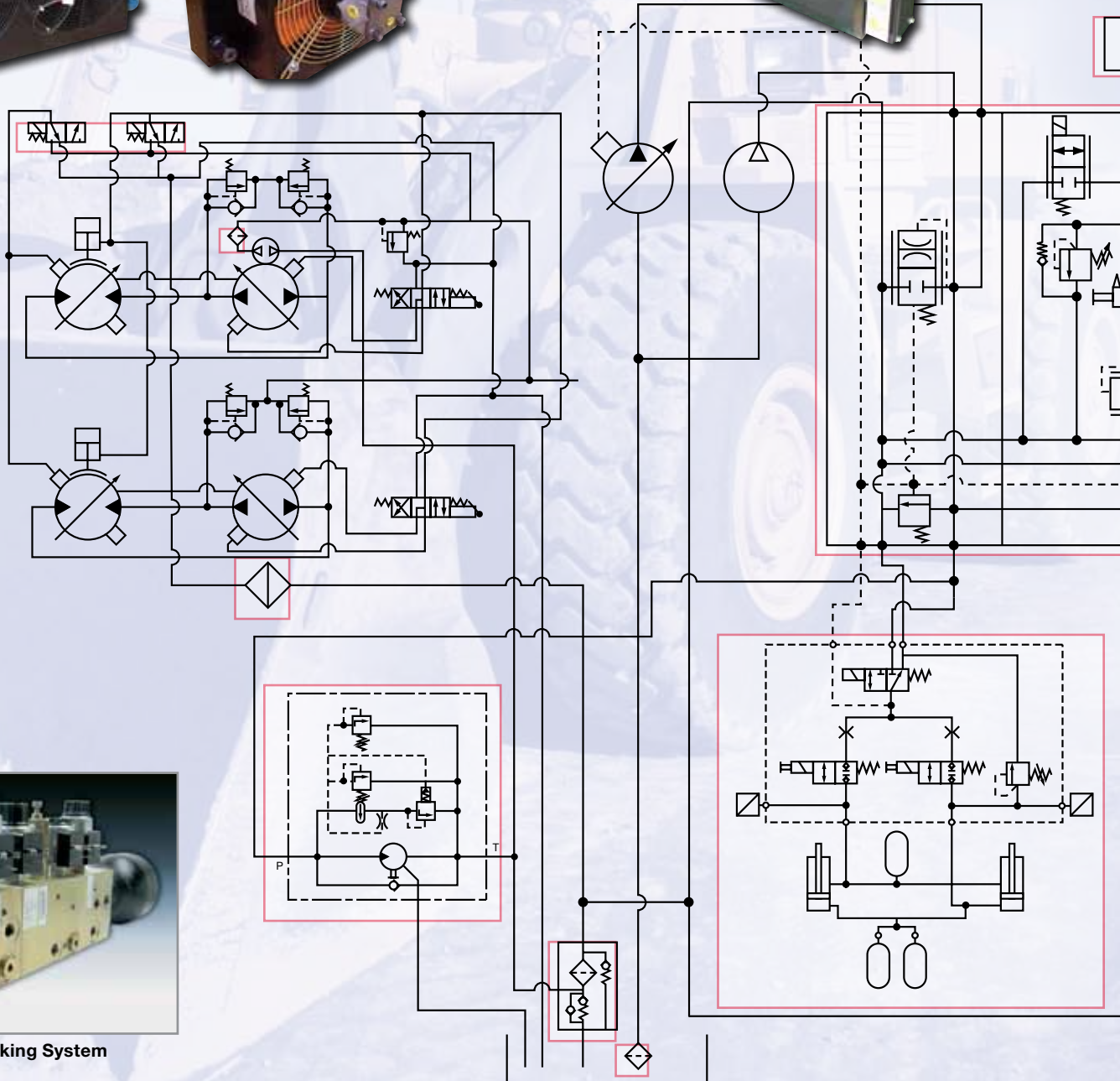
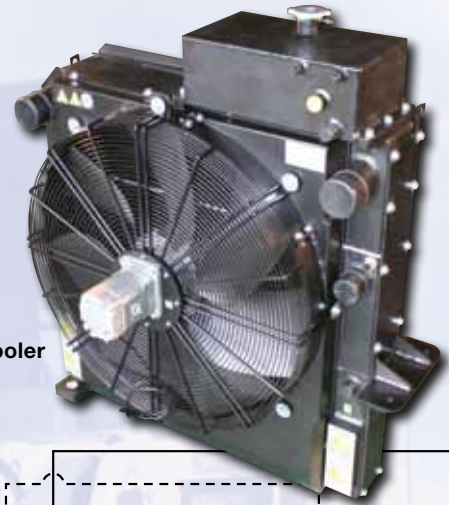
# Cooling Systems

HYDAC Coolers use a combination of high performance cooling elements combined with a high capacity hydraulic drive fan. Long life DC electrical powered fans provide long trouble free operation in mobile hydraulic applications. The compact design allows our coolers to fit most equipment, providing the highest cooling performance in heat dissipation with minimum installation area.

High capacity and easy-to-install cooling systems are also available that comply with legal requirements for noise, emissions (EURO 4, TIER 3) and fuel economy.



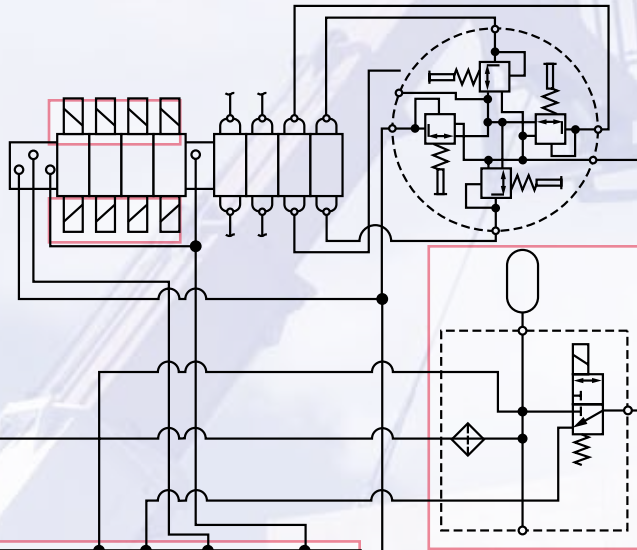
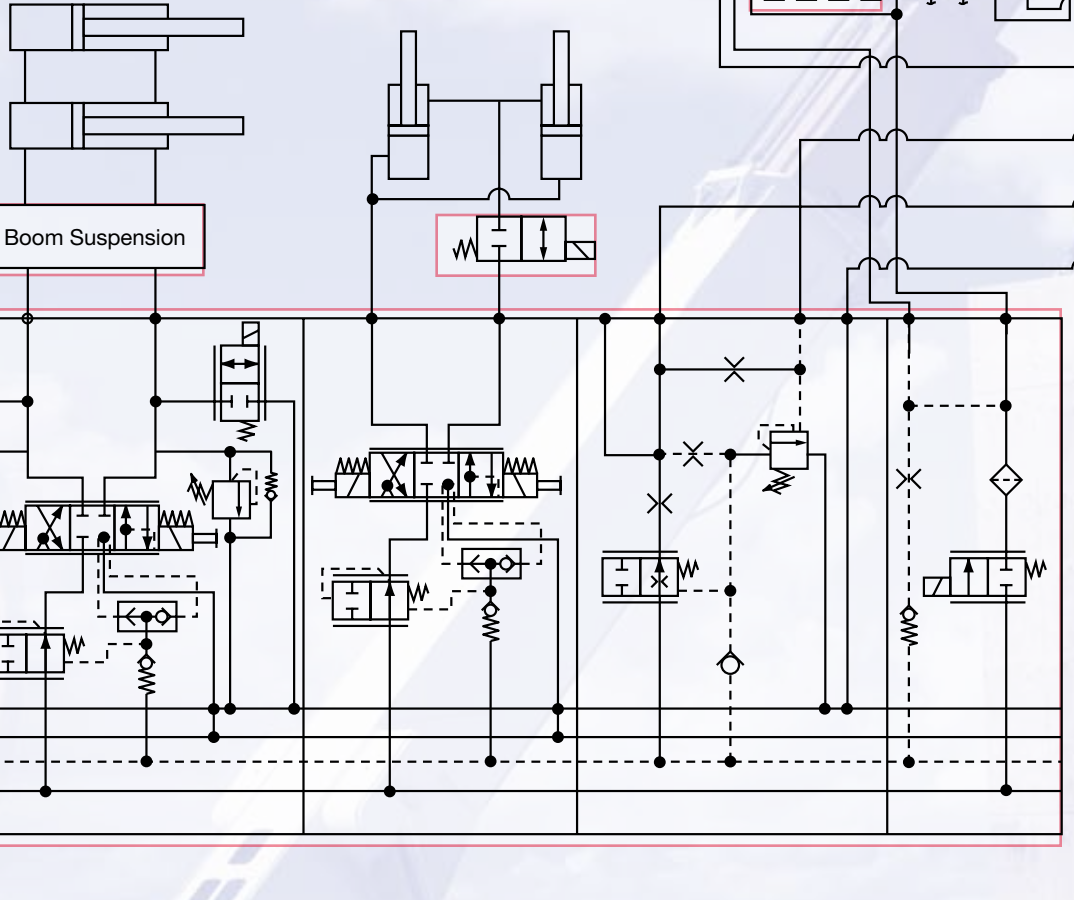
Combi Cooler



Modular Valve Stacking System



**Boom Suspension System**



**Compact Hydraulics Suspension**

## **Compact Hydraulics**

Our expertise in manufacturing cartridge valves and designing hydraulic circuits means you can have the entire hydraulic circuit integrated into your unit. Using HYDAC's wide product offering, we can integrate further control devices resulting in a compact "plug and play" unit which has one point of vendor responsibility.

HYDAC Cartridge Valves and Manifolds group offers a variety of high quality cartridge valves with outstanding performance features and up to 6000 psi pressure rating. Designed with ease of use in mind, these valves simplify system layout and installation ideally suited for today's demanding hydraulic applications.



**Custom Manifolds**



## **Accessories**

The HYDAC Accessory Group manufactures highly engineered products for all mobile applications. HYDAC ball and flow control valves offer safe and reliable operation designed specifically for your machine platform. A complete range of DIN 3015 hose, tube and pipe clamps are complimented by our custom mounting solutions. Reservoir accessories complete our product line, and put the finishing touches on your mobile equipment.



## **Filter Systems**

HYDAC Filter Systems include portable and inline contamination monitors, as well as portable and permanent offline filters. We also offer in-depth analysis kits which provide detailed reports about the condition of a system's fluid. Complete fluid conditioning systems are also available for removal of solids, liquids, and gasses.



## **Electronics**

HYDAC Electronics extend from simple pressure transmitters to intelligent multiple pressure switches with customized software. In the field of sensors, we employ different techniques, enabling us to offer the most appropriate solution for every mobile application.





# INTERNATIONAL

## INNOVATIVE FLUID POWER

**Accumulators**

**Filters**

**Filter Systems**

**Valves**

**Clamps**

**Accessories**

**Electronics**

**Cooling Systems**

**Compact Hydraulics**

**Mobile Directional  
Control Valves**

**Mobile Systems**

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