

**MOTORENFABRIK HATZ, HALL A4.449 (PLUS OUTSIDE SPACE BETWEEN HALL A4/A5, BOOTH 34)**

Hatz will present its Hatz Digital Solutions at Bauma 2022. This is an easy-to-retrofit solution that utilizes an IoT module. A new feature is Hatz Performance Tracking, a fleet management service covering such information as operating status, fuel consumption, or the location of digitally-connected Hatz engines. The Smart Automated Remote Application helps manage processes that are difficult to access or located in remote areas; it can integrate sensor data or information from third-party systems.

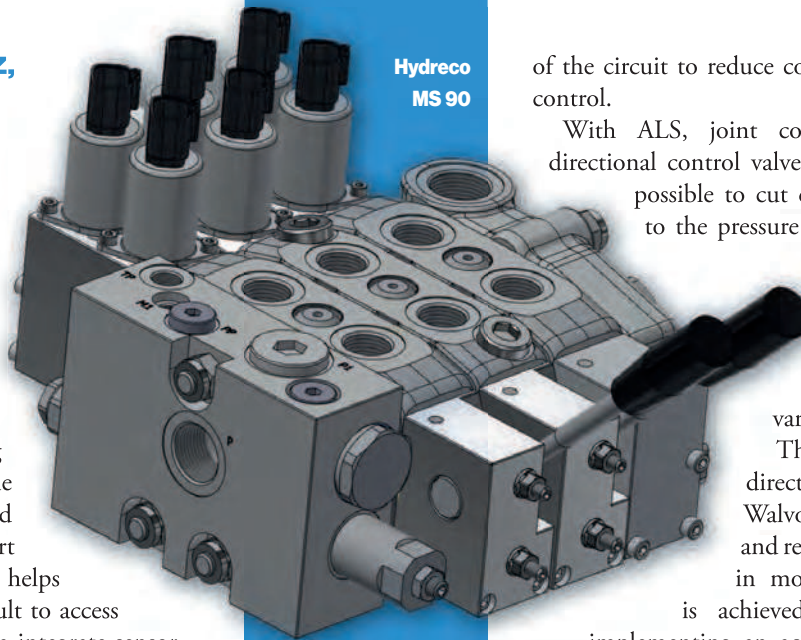
The company will also present a case study developed together with Inecosys covering an electrical system toolkit for compact construction machines. Inecosys is a control and electronics systems developer for drive solutions which Hatz acquired in 2021. The toolkit assists the machine's operator in focusing on their core tasks while using satellite navigation for autonomous driving.

**WALVOIL, HALL A3.339**

At Bauma 2022, Italian hydraulics specialist Walvoil will present a solution to increase the efficiency of hydraulic systems and related components. The system combines Adaptive Load Sensing (ALS), used to reduce consumption and energy dissipation, with Meter Out Compensation (EPX) technology, designed to recover energy.

The Walvoil ALS-EPX utilizes specially designed components: pump, directional control valve, electronic control unit and operator interface. It enables pressure control functions paired with flow-sharing directional control valves from the Walvoil DPX and EPX series.

The system manages and conditions the load sensing signal



Hydreco MS 90



Users of our current in-line mechanical fuel injection engines can upgrade with minimal engineering costs.”

**DANIEL GRANT, Kubota (UK)**

of the circuit to reduce consumption and optimize control.

With ALS, joint control of the hydraulic directional control valve and the pump makes it possible to cut down pressure drops due to the pressure margins of the metering system. ALS can be used as an integral part of the hydraulic directional control valve or fitted to the variable displacement pump. The new EPX Series directional control valves by Walvoil support management and recovery of hydraulic energy in mobile machines. Recovery is achieved using a compensator implementing an active-type recovery during simultaneous operations of multiple machine functions. It can also provide passive recovery due to drag loads; for example, by reusing inertial energy that is usually lost through fluid lamination to tank.

**YANMAR, HALL A4.425**

In addition to emphasising its free five-year warranty for engines sold in Europe and used in machines operating within the continent, Yanmar will launch its new electrification strategy at Bauma 2022.

Highlighting systems integration capabilities, the company will offer system engineering, design and production of e-powertrains, while also providing control development, system evaluation, procurement, manufacturing and quality assurance.

The engine manufacturer will have an electrified demonstration excavator on its booth. It will be powered by an electric drive and 48 V batteries with fast charging capability. Batteries will be supplied by ELEO, recently acquired by Yanmar.

**HYDRECO HYDRAULICS, HALL A4.418**

A specialist in hydraulic solutions for mobile applications, Hydreco is part of the Duplomatic Group. Based in Poole, UK, the company has several plants in northern Italy.

At Bauma 2022, Hydreco will introduce the new Multifunction Handle Control (MHC), a customizable solution manufactured using polyamide PA6 thermoplastic and embedded glass fibre. The handle can mount all controls from the Hydreco range, such as a rocker switch, HYRP proportional roller, or mini joystick.

The new MS Series of directional control valves will also be on display.

This will be available in three sizes: MS 60 with 60 L/min maximum flow rate; MS 90 with 90 L/min; and MS 120 with 120 L/min.



*Hall locations correct at time of publication*



Yanmar ELEO battery solution