



PRESS KIT

Bauma Media Dialog

18th – 19th February 2025

ICM – International Congress
Center Messe München

www.hydreco.com

ON SHOW AT:
Stand: 418,
Hall: A4

bauma

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a member of **DAIKIN** group

PRESS RELEASE 2/2025
**HYDRECO HYDRAULICS TO DISPLAY INTEGRATED SOLUTIONS AND
TECHNOLOGICAL INNOVATION AT BAUMA 2025**

Helmstedt, Germany, February 18th, 2025– Hydreco Hydraulics, a leader in motion control solutions, will present its advanced product portfolio at Bauma 2025, held in Munich from April 7 to 13 (Hall A4, Stand 418).

Integrated Product Portfolio on Display

The Hydreco stand will feature a tracked machine equipped with a range of hydraulic, electric, and electronic solutions, highlighting the full integration of its product portfolio in real-world applications. Additionally, many Hydreco-equipped machines will be exhibited by customers throughout the event.

Global Integration and Sustainability

Hydreco benefits from the synergies within the Duplomatic Group and Daikin Industries, leveraging shared resources, expertise, and investments in R&D and manufacturing. This collaboration aligns with Daikin's Vision 2050, emphasizing sustainability and global innovation.

Technological Innovation: eLynx Hydraulic Cylinder

Hydreco introduces eLynx, a cutting-edge optical technology for absolute measurement of the cylinder stroke. This solution delivers reliability, measurement, accuracy, and ease of use, outperforming existing market alternatives. eLynx features a plug-in design, eliminating the need for rod drilling, and is suitable for a wide range of heavy-duty applications in any environment.

New Product Highlights

- **MHDC Joystick:** Compact and versatile, the MHDC joystick is designed for the increasingly confined spaces of mobile machinery. It joins Hydreco's extensive range of joysticks, manipulators, and foot pedals for diverse applications.
- **ECU (Electronic CAN Bus Controller):** Hydreco's new ECU provides next-generation control for mobile applications. It can function as a master or slave unit, offering flexibility and modularity. Programmable with industrial automation's five PLC languages and compliant with the IEC61131-3 standard, the ECU allows seamless adaptation of existing source codes. The LogicLab software environment supports programming, debugging, parameter setting, and real-time testing.
- **MS Series Directional Control Valves:** The MS series includes valves tailored for specific applications, offering manual, hydraulic, pneumatic, and electro-hydraulic control options. These valves are available in sectional or monoblock construction, with flow rates up to 130 L/min and various spool types.

Other featured products include hydraulic joysticks, foot pedals, power units, CAN bus machine control systems, bankable valves, and hydraulic cylinders, providing a comprehensive motion control package.

Press Event

A special press event will take place at the Hydreco booth on April 7th, 2025, from 2:30 PM to 3:15 PM, when the latest innovations will be presented.

About Hydreco Hydraulics

Hydreco Hydraulics has a long and significant tradition in hydraulic components: for over a hundred years, it has been designing, producing, and distributing products for the transport and mobile hydraulics sectors. With locations in UK, Italy, Norway, Germany, the USA, India, and Australia, Hydreco operates a global network of production and sales.

Since February 2025, Till Hydraulik, based in Helmstedt, Germany, a company with over 60 years of experience in the mobile sector, has changed its company name to Hydreco Hydraulics GmbH, strengthening its position in the German market. www.hydreco.com. Contact for Media Inquiries: s.bernardelli@duplomatic.com

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PRESSEMITTEILUNG 2/2025

HYDRECO HYDRAULICS PRÄSENTIERT INTEGRIERTE LÖSUNGEN UND TECHNOLOGISCHE INNOVATIONEN AUF DER BAUMA 2025

Helmstedt, Deutschland, 18. Februar 2025 – Hydreco Hydraulics, ein führender Anbieter von Motion-Control-Lösungen, stellt sein fortschrittliches Produktportfolio auf der Bauma 2025 vor, die vom 7. bis 13. April in München stattfindet (Halle A4, Stand 418).

Integriertes Produktportfolio im Fokus

Am Hydreco-Stand wird eine Raupenmaschine mit einer Kombination aus hydraulischen, elektrischen und elektronischen Lösungen gezeigt, die die nahtlose Integration des Produktportfolios in realen Anwendungen demonstriert. Zudem werden zahlreiche von Hydreco ausgestattete Maschinen auf den Ständen der Kunden während der gesamten Messe zu sehen sein.

Globale Integration und Nachhaltigkeit

Hydreco profitiert von den Synergien innerhalb der Diplomatic-Gruppe und der Daikin Industries und nutzt gemeinsame Ressourcen, Fachwissen sowie Investitionen in Forschung, Entwicklung und Produktion. Diese Zusammenarbeit entspricht der Daikin Vision 2050, die Nachhaltigkeit und globale Innovation in den Mittelpunkt stellt.

Technologische Innovation: eLynx Hydraulikzylinder

Hydreco präsentiert eLynx, eine hochmoderne optische Technologie zur absoluten Messung des Zylinderhubs. Diese Lösung bietet höchste Zuverlässigkeit, Messgenauigkeit und Benutzerfreundlichkeit und übertrifft bestehende Marktalternativen. eLynx verfügt über ein Plug-in-Design, das das Bohren der Kolbenstange überflüssig macht, und eignet sich für eine Vielzahl von Schwerlastanwendungen in jeder Umgebung.

Produktneuheiten

- **MHDC-Joystick:** Kompakt und vielseitig, speziell entwickelt für die immer enger werdenden Räume mobiler Maschinen. Er erweitert das breite Angebot an Hydreco-Joysticks, Bedienhebeln und Fußpedalen.
- **ECU (Electronic CAN Bus Controller):** Die neue ECU von Hydreco bietet modernste Steuerung für mobile Anwendungen. Sie kann als Master- oder Slave-Einheit fungieren und zeichnet sich durch Flexibilität und Modularität aus. Programmierbar mit den fünf SPS-Sprachen der industriellen Automatisierung und konform mit IEC61131-3, ermöglicht die ECU eine nahtlose Anpassung bestehender Quellcodes. Die Entwicklungsumgebung LogicLab unterstützt Programmierung, Debugging, Parametereinstellungen und Tests in Echtzeit.
- **MS-Serie Wegeventile:** Diese Ventile wurden speziell für individuelle Anwendungen entwickelt und sind in manueller, hydraulischer, pneumatischer und elektrohydraulischer Steuerung verfügbar. Sie sind als Block- oder Monoblock-Ausführung erhältlich, mit Durchflussraten bis zu 130 l/min und verschiedenen Schiebtypen. Weitere präsentierte Produkte umfassen hydraulische Joysticks, Fußpedale, Power Units, CAN-Bus-Steuerungssysteme, Ventilbänke und Hydraulikzylinder – eine umfassende Lösung für Motion Control.

Presseevent

Ein exklusives Presseevent findet am 7. April 2025 von 14:30 bis 15:15 Uhr am Hydreco-Stand statt, bei dem die neuesten Innovationen vorgestellt werden.

Über Hydreco Hydraulics

Hydreco Hydraulics blickt auf eine über hundertjährige Tradition in der Hydraulik zurück und entwickelt, produziert und vertreibt weltweit Produkte für den Transport- und Mobilhydrauliksektor. Mit Standorten in Großbritannien, Italien, Norwegen, Deutschland, den USA, Indien und Australien verfügt Hydreco über ein globales Produktions- und Vertriebsnetz. Seit Februar 2025 firmiert Till Hydraulik mit Sitz in Helmstedt, Deutschland, unter dem Namen Hydreco Hydraulics GmbH und stärkt damit seine Marktposition in Deutschland. www.hydreco.com.

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HYDRECO HYDRAULICS

A complete range of products for your mobile applications.

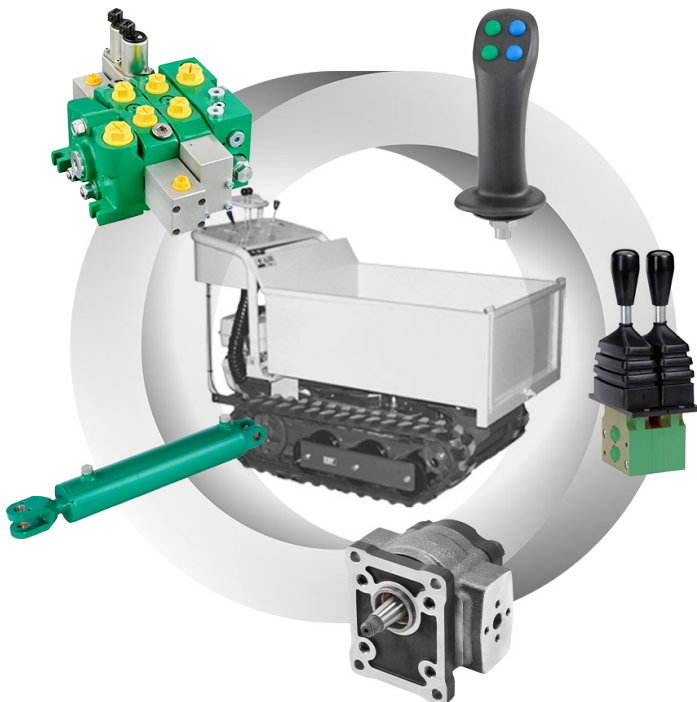
Hydreco Hydraulics, a leader in hydraulic, electric, and electronic solutions, will showcase a **fully integrated product portfolio** at Bauma 2025, demonstrating its advanced technologies in mobile applications.

At our booth, visitors will see a tracked machine **equipped with our solutions**, highlighting the seamless synergy between our components.

As part of the Diplomatic Group and Daikin Industries, Hydreco benefits from a **global network of expertise** and strategic investments in research and development.

This integration enables us to **provide cutting-edge solutions** aligned with Daikin's Vision 2030, which places **sustainability and innovation** at the core of the industry's future.

Bauma 2025 will be the perfect opportunity to discover how Hydreco is shaping the sector with efficient, sustainable, and fully integrated technologies.



Some Key Figures:

- **Turnover: 97M €**
- **Number of Employees: 492**
- **Plants worldwide:**
 - **Headquarter:**
United Kingdom (1)
 - **Subsidiaries:**
Australia (2)
India (1)
Italy (5)
Germany (1)
Norway (1)
USA (1)

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HYDRECO HYDRAULICS ELYNX – LR Series CANbus

Advanced optical measuring technology for absolute, high-speed position and velocity detection.

Features:

Measurement Performance

Stroke length: up to 3600 mm
Overall accuracy (position): 0.9 mm
Resolution (position): 0.9 mm
Resolution (velocity): 3 to 15 mm/s (depending on speed)
Max cylinder speed: 350 mm/s
Temperature coefficient: 0 mm/ °C
Boot-up time: <100 ms
Cycle time: 3 ms
Communication Interface: CANOpen (DS406)



Operating Conditions

Operating temperature: -40 °C to + 85 °C
Protection class: IP67 and IP69K
Vibration resistance: 5-2000 Hz, 7.9 g RMS
Shock resistance: 500 m/s², 11 s pulse duration
Electromagnetic compatibility (EMC): ENS0310 rev. R
Reliability: 112 years MTTF (at 40 °C, 12V)

Electrical Characteristics

Supply voltage: 8V - 30V
Jump-start voltage tolerance: up to 36V
Current consumption: 25 mA (typical)
Power consumption: < 300 mW
Overvoltage protection: up to 45V
Polarity protection: up to 1000V

Mechanical Characteristics

Connector type: 4-pole M12 or customized upon request

Pinout:

Pin 1: Vcc (DC Power Supply)
Pin 2: CANL (CAN LOW)
Pin 3: GND (Ground)
Pin 4: CANH (CAN HIGH)



Advantages:

- **Real-time absolute measurement of position and speed.**
- Compact and robust design for heavy duty mobile applications.
- Resistant to environmental factors such as temperature variations, chemicals, dust, and pollution.
- Full digital measuring technology with internal diagnostics.
- Sealed and protected electronics, ensuring long-term durability.
- Plug-and-play installation on hydraulic cylinders, with flexible connector options.

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HYDRECO HYDRAULICS MHDC

Features:

0-5V version features:

Supply voltage:	9-32VDC
X/Y axis voltage output range:	0.5 ÷ 4.5 V
Tolerance on output voltage signal:	± 0.03 V
Off-center signals:	2 outputs 0-5V@15mA
Mechanical life:	>3 million cycles
Operating temperature:	-40°C ÷ 85°C
*Optional power ON-OFF outputs:	Up to 8 ON-OFF 2A@12V/24V

CANopen version features:

Supply voltage:	9-32VDC
Proportional axes:	Up to 6
Digital inputs:	ON-OFF N.9 0-5V and N.2 12/24V
CANopen Bit Rate:	125-250-500-1000kBit/s
Mechanical life:	>3 million cycles
Operating temperature:	-40°C ÷ 85°C
*Optional power ON-OFF outputs:	Up to 8 ON-OFF 2A@12V/24V

Electromagnetic compatibility:

Complies with the EMC Directive and the following standards:

UNI EN ISO 13766-1:2018 / UNI EN ISO 14982:2009
EN 61000-6-4:2007+A1:2011 / EN 61000-6-2:2005+AC:2005



Advantages:

- Latest generation integrated electronics based on 32-bit microcontroller architecture and 3D Hall Effect sensor.
- Compact and robust mechanical design, suitable for space-constrained installation requirements.
- Available in 0-5V and CANopen versions, i.e. in the most widely used output interfaces in the mobile and industrial sectors.
- Possibility to integrate the full range of handles and controls available in the Hydreco catalog.
- Protected and sealed electronics.
- 8 optional programmable power outputs for additional service functions.
- Wide availability of input resources: up to 11 ON-OFF inputs (buttons, switches, rockers, etc.) and 4 analog inputs (proportional rollers, rotary potentiometers, etc.).

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HYDRECO HYDRAULICS ECU

Features:

Supply Voltage:	8-32VDC
CPU:	ARM CORTEX M33 - CLOCK@160MHz
Total output:	current from the unit 30A <i>(For each group of BTS5215L MOSFETs 12A max)</i>
Operating temperature:	-40°C +85°C
IP6K8 protection degree:	according to ISO20653:201
Programming environment:	IEC61131-3 compliant
Parameter setting:	via RS232 serial interface

Operation as ECU Master or Slave



Advantages:

- New Hydreco electronic CAN bus controller with latest generation electronics designed for mobile applications.
- It can be used as a master or slave unit, providing flexibility and modularity to the control system, adding the necessary I/O resources to the network to meet all the needs required by machine manufacturers.
- Programmable through the 5 PLC programming languages used in industrial automation, it offers the opportunity to readapt and reuse the source code already created in Ladder, ST, IL, SFC, Function Block.
- LogicLab software environment compliant with IEC61131-3 standard, for programming, debugging, simulation, setting and modifying parameters, downloading firmware and application on the control unit and "real time" connection to the controller for field tests.

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HYDRECO HYDRAULICS MS Series

Features:

Modular directional control valve, 6-port design, 3 positions.
Maximum pressure: 350 bar (5100 psi)

Flow rate:

MS 70 - 70 lpm / 18.5 gpm US (coming soon)
MS 100 - 100 lpm / 26 gpm US
MS 130 - 130 lpm / 34 gpm US

Controls:

- * Handle control
- * Hydraulic proportional control
- * Electrohydraulic proportional control

Ports:

- * ISO 1171-1 (BSPP GAS)
- * JIS B 2351-90
- * ISO 9974-1
- * ISO 6149-1
- * SAE ISO 11926-1.



Advantages:

- Up to 10 working sections connected in parallel, highly configurable.
- Solid and sturdy 4-tie rod block with cast iron elements.
- Several types of spools: interchangeable, double acting/single acting.
- Possible 4-position working sections with floating and holding function.
- Pump discharge solenoid valve.
- Check valve on each working section.
- Anti-shock and filling valves on the working ports.

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