

HYDRECO

ADVANCED HYDRAULIC TECHNOLOGIES



Technology for Innovators

Custom made motion solutions for mobile applications

Hydreco Press Kit 2021

[hydreco.com](https://www.hydreco.com)

HYDRECO HYDRAULICS ITALIA ESPONE A EIMA LE NOVITA' DAL NUOVO SITO PRODUTTIVO DI PARMA

L'azienda del gruppo Duplomatic specializzata nella progettazione e produzione di Motion Solutions per macchine operatrici mobili, ha raddoppiato le sedi produttive in Emilia e partecipa all'Esposizione Internazionale di Macchine per l'Agricoltura e il Giardinaggio, in programma a Bologna dal 19 al 23 ottobre con la nuova gamma di pompe a ingranaggi esterni (Stand C28, pad. 18).

Vignola (MO), 1° ottobre 2021- Dal 19 al 23 ottobre 2021 Hydreco Hydraulics Italia espone a EIMA International 2021, la rassegna internazionale della meccanica agricola, che si terrà nel quartiere fieristico di Bologna su una superficie complessiva di 375.000 m².

In fiera l'azienda presenta le proprie **soluzioni integrate per il controllo di movimento**, che includono joystick e pedipolatori oleodinamici, unità di alimentazione, joystick e pedali elettrici/elettronici, accanto ai sistemi di controllo macchina basati sul protocollo CANbus e alle valvole bancabili e ai cilindri oleodinamici, che ne completano l'offerta.

La vera novità presentata a Eima è la **gamma di pompe a ingranaggi esterni** realizzate nel **nuovo sito produttivo di Parma**, che si aggiunge alla sede storica di Vignola, in provincia di Modena.

Progettate in sinergia con Duplomatic MS, le nuove pompe - robuste e di lunga durata- trovano impiego nelle applicazioni mobili, come macchine movimento terra, macchine per costruzioni, macchine agricole, forestali e municipali. Le nuove serie in mostra a Eima sono commercializzate con le sigle HY1 e HY2. Sono inoltre in corso di sviluppo, e in parte già in produzione, due altre versioni legate entrambe al Gruppo 2: una versione *low noise* e una con corpo in ghisa.

La struttura di Parma si è resa necessaria per far fronte alle richieste di un mercato in continua crescita. *“Abbiamo intrapreso un importante piano di investimenti per ampliare e migliorare il pacchetto di soluzioni di Motion Control che offriamo– spiega Davide Vaccina, managing director di Hydreco Hydraulics Italia – e per questo è diventato indispensabile ampliarci ulteriormente. Siamo partiti nella nuova sede di Parma con la realizzazione delle pompe del Gruppo 2 e stiamo avviando la produzione delle pompe del Gruppo 1. A regime avremo in funzione 3 linee produttive e prevediamo di concludere la gamma all'inizio del 2022 con le pompe del Gruppo 3”*, continua Vaccina. A questo investimento si affianca una serie di azioni mirate a dare ulteriore completezza e forza alla gamma prodotti, con la realizzazione di una nuova serie di valvole di controllo direzionale, blocchi HIC e joystick

Hydreco - headquarter a Poole, in Gran Bretagna e sedi in tutto il mondo, dagli USA all'India all'Australia – è il brand del Gruppo Duplomatic dedicato al settore mobile e produce soluzioni avanzate per il controllo di movimento per macchine operatrici. Con le nuove serie, Hydreco si posiziona come fornitore dell'intera gamma di pompe a ingranaggi esterni con corpo in alluminio e con flangia e coperchio in ghisa, equipaggiate e disponibili in molteplici configurazioni e con diverse tipologie di flange, di attacchi per le bocche di aspirazione e mandata e di alberi. Hydreco Italia è quindi il centro di competenza chiave per lo sviluppo di nuovi prodotti e soluzioni all'interno del Gruppo.

“Siamo particolarmente lieti di incontrare a Eima le aziende leader del settore agro meccanico, dopo il lungo periodo di sospensione degli eventi fieristici a causa dell'emergenza sanitaria. Eima è un'importante occasione per presentare le diverse novità che abbiamo messo a punto in questi mesi.” conclude Michele Guiati, managing director di Hydreco Hydraulics Italia.

Il team Hydreco è a disposizione per gli incontri con clienti, interessati e con la stampa allo stand C28, padiglione 18.

Hydreco Hydraulics Italia è la filiale italiana di Hydreco Hydraulics, con sede a Poole, in Gran Bretagna, realtà acquisita nel 2019 dal gruppo Duplomatic MS, di Parabiago (MI). Il gruppo ha un giro d'affari di 96 milioni di euro e oltre 450 dipendenti. Hydreco Hydraulics ha una lunga e significativa tradizione nel mondo della componentistica oleodinamica: da oltre cento anni progetta, produce e distribuisce prodotti per il settore dei trasporti e dell'idraulica mobile: con sedi in Italia, Norvegia, Germania, USA, India e Australia, Hydreco dispone di una rete mondiale di produzione e vendita. www.hydreco.com Press info: Sara Bernardelli, communications@duplomatic.com

HYDRECO HYDRAULICS ITALIA EXHIBITS AT EIMA SHOW NEW PRODUCTS FROM THE NEW PARMA PLANT

The company of the Duplomatic Group specialized in the design and production of Motion Solutions for mobile operating machines, has doubled its production sites in the Emilia region, Italy and participates in the International Agricultural and Gardening Machinery Exhibition, scheduled in Bologna, Italy, from 19 to 23 October with the new range of external gear pumps (stand C28, hall 18).

Vignola (Modena, Italy), October 1st 2021 - From 19 to 23 October 2021 Hydreco Hydraulics Italia exhibits at EIMA International 2021, the international exhibition of agricultural mechanics, which will be held in the Bologna exhibition center on a total area of 375,000 sqm.

At the show the company presents its **integrated solutions for motion control**, which include joysticks and hydraulic pedipulators, power units, joysticks, and electric / electronic pedals, alongside machine control systems based on the CANbus protocol as well as bankable valves and hydraulic cylinders, which complete the product ranges.

The real novelty presented at Eima is the range of **external gear pumps** made in the new production site in Parma, Italy, which is added to the historic headquarters in Vignola, in the province of Modena.

Designed in synergy with Duplomatic MS, the new pumps - robust and long-lasting - are used in mobile applications, such as earth-moving machinery, construction machinery, agricultural, forestry and municipal machinery. The new series on show at Eima are marketed under the initials **HY1** and **HY2**. Two other versions are also under development, and partly already in production, both linked to Group 2: a low noise version and one with a cast iron body.

The Parma facility was necessary to meet the demands of a constantly growing market.

"We have undertaken an important investment plan to expand and improve the Motion Control solutions package we offer. - explains Davide Vaccina, managing director of Hydreco Hydraulics Italia - For this reason it has become essential to further expand. We started at the new headquarters in Parma with the manufacturing of Group 2 pumps and we are starting production of Group 1 pumps. When fully operational, we will have three production lines in operation and we plan to conclude the range at the beginning of 2022 with the Group 3 pumps", continues Vaccina. This investment is accompanied by a series of actions aimed at giving further completeness and strength to the product range, with the release of a new series of directional control valves, HIC blocks and joysticks.

Hydreco - headquarters in Poole, UK, and plants around the world, from the USA to India to Australia - is the Duplomatic Group brand dedicated to the mobile sector: it produces advanced motion control solutions for mobile operating machines. With the new series, Hydreco is positioned as a supplier of the entire range of external gear pumps with aluminum body and with cast iron flange and cover, equipped and available in multiple configurations and with different types of flanges, with connections for the suction and delivery and shafts. Hydreco Italia is therefore the key competence center for the development of new products and solutions within the Group.

"We are particularly pleased to meet the leading companies in the agro-mechanical sector at Eima, after the long period of suspension of trade fairs due to the health emergency. Eima is an important opportunity to present the various innovations that we have developed in recent months." concludes Michele Guiati, managing director of Hydreco Hydraulics Italia.

The Hydreco team is available for meetings with customers, interested parties and with the press at stand C28, hall 18.

Hydreco Hydraulics Italia is the Italian branch of Hydreco Hydraulics, based in Poole, UK, that was acquired in 2019 by the Duplomatic MS Group, of Parabiago (Milan, Italy). The group has a turnover of 96 million euros and over 450 employees. Hydreco Hydraulics has a long and significant heritage in the world of hydraulic components: for over a hundred years it has been designing, manufacturing, and distributing products for the transport and mobile hydraulics sector: with offices and plants in Italy, Norway, Germany, USA, India, and Australia, Hydreco has a worldwide production and sales network. www.hydreco.com Press info: Sara Bernardelli, communications@duplomatic.com

Hydreco HY Gear Pumps and Motors

The HY new range of gear pumps and motors is the result of the experience and knowledge acquired over many years of engineering and manufacturing that made Hydreco very well known for the performance and the reliability of its gear pumps series.

The HY series is provided with an aluminium alloy housing, two gear wheels supported by sleeve bearings and cast iron flange and cover. Available as pumps and motors, offers high efficiency and can be applied in standard and heavy duty application, thanks to the high reliability and the accuracy of design and production.

The pumps can be supplied as single, or as multiple units with a huge variety of options on flanges, shafts and ports, providing the right setup on each application. Feel free to contact your Hydreco representative to find out more and to get the proper support in your selection.

ALREADY AVAILABLE:

Group 1 and group 2 pumps and motors in multiple configuration

Group 2 low noise version

COMING SOON:

Group 2 with cast iron body

Group 3

NEW at EIMA 2021



DISPLACEMENT (HY1+HY2)

From 1 to 31.7 cm³/rev [from 0.06 to 1.93 in³/rev]

PRESSURE

Max continuous 260 bar (3770 psi)

Max intermittent 290 bar (4200 psi)

Max peak 310 bar (4500 psi)

MAX SPEED

4000 rpm

HY Gear Pumps and Motors



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Hydreco Mini EPVJ Joystick

Hydreco is pleased to introduce a new range of EPVJ Mini Joystick.

Among the wide variety of electrical controls for all kinds of mobile applications, the new-born EPVJ Joystick made in Italy features a new technology based on reliable REED magnetic switch (neodymium magnet) and four ON-OFF functions as standard.

Mini-EPVJ version is available to fit smaller space for armrest and console mounting, preserving strong mechanical structure and high reliability.

This is a solution for heavy duty applications in agriculture (small tractors for vineyards, orchards, and fruit/vegetable pick up) and forestry (firewood processors).

Electric and magnetic technology for a longer life and perfect operation in outdoor conditions.

**Mini EPVJ
Joystick**



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Hydreco MDC Joystick

The MDC Joystick is an electro-proportional solution for the most sophisticated needs in multiple sectors: agriculture (telehandlers, tractors, special vehicles/attachments, ...), construction (mobile cranes, special excavators), forestry (timber cranes), material handling (loaders, reach stackers, fork lift trucks) and municipal (loaders and snow tracks).

This model of joystick provides machine manufacturers with a robust, hard wearing solution as it features a PA66 body with glass fibre and a strong mechanical structure for long operating life. It operates between -40 and +85 °C (-40÷185°F) and it features an IP65 protection.

The MDC joystick is available also on single axis execution and it can be configured as crossed version (combined movements inhibited).

Its electronics is based on SMD Hall effect technology, a well proven and very reliable solution.

The joystick layout provides long life operation, with an extremely robust design of the mechanical components, as well as an accurate development of the electronics. Voltage supply is between 9 and 32VDC.

It features closed-loop digital controlled outputs and the output versions include 0÷5V, PWM, CAN bus, Ratiometric. It is a user-friendly device, with the possibility of setting up the main parameters through a simple software interface provided by Hydreco.

It is made in Italy at Hydreco Hydraulics Italia in Vignola (Modena).

**MDC
Joystick**



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Hydreco HYSPN9 & HYSPN5M CAN Bus ECU's

The Hydreco CAN Bus system combines years of experience in the hydraulics market with the most advanced electronic control devices for mobile applications.

The system complies with CANopen and SAE J1939 standards and it is therefore compatible and expandable with all devices on the market that meet the requirements of those protocols.

CAN Bus is widely recognized as standard for feature as the interference free, easy of wiring (only two wires to connect all components) and the high transfer rate for a serial protocol.

All devices highlight the robustness and flexibility that Hydreco CAN Bus system provides, with no compromise on reliability and safety critical environments.

The whole system is controlled by the ECU's (available in multiple sizes and configurations) that runs the control algorithm: the units receive information from sensors and other control devices (i.e. electro-proportional joysticks, electric pedals, GPS/GPRS modules, keypad and more), process them and send appropriate control signals to all electrical and electro-hydraulic actuators on the machine. One of the pluses of the Hydreco CAN Bus system is the Windows based programming environment which offers a unique and comprehensive tool for designing the entire system as per customers' specifications. The programming environment is also a very useful tool for diagnostics and start-up of the machine, since it allows control parameters changes, software download, and "real time" acquisition of all relevant signals on a personal computer via RS232 serial interface

HY SPN5M



HY SPN9



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Hydreco SDN Bankable Valves

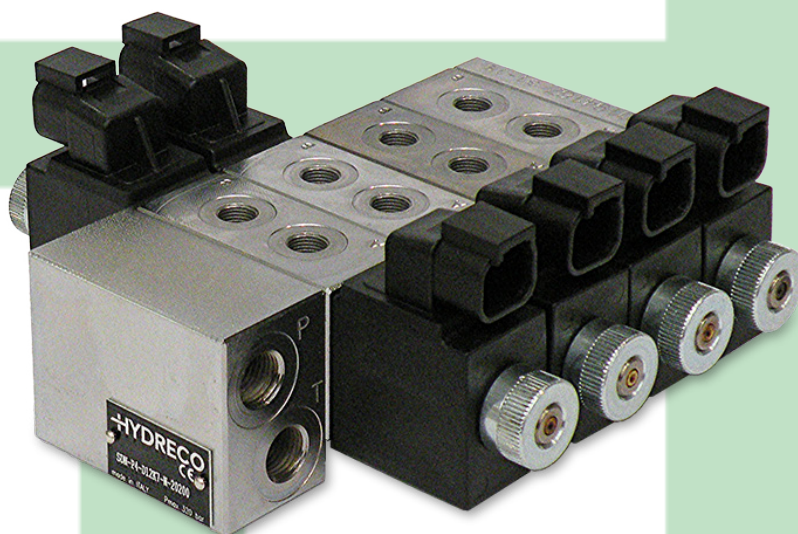
Hydreco is pleased to introduce the “brand new baby” in the range of bankable valves: SDN.

The SDN represents the answer to the demand of a compact but effective solution on the bankable valves side of applications.

With a flow capacity of 15 l/min and the possibility of assembling up to eight working sections - with a significant variety of options - SDN is the right “device” for many applications, where flexibility and compactness are a must.

The maximum operating pressure at 350 bar matches the need of a wide range of applications where this size of valve is essential for the success of the machine.

SDN Bankable Valve



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Hydreco Hydraulics Remote Controls

Hydreco Hydraulics Italia provides an extensive range of hydraulics remote controls. From the dual axis joystick (available in 2 versions to match all the needs of various applications) to the single axis device (usable also in the modular version with many options on board). The range includes also monoblock pilot valves, particularly suitable in the most demanding environment, foot pedals, available in various configurations and layouts, as well as supply units, configurable with 2 or 3 ways selector - 12/24VDC solenoid.

All devices can be supplied with more than 200 metering curves for the optimal regulation of the main controls (Directional Control Valves and/or Hydrostatic Transmission).

Hydreco is happy to support customer's request with tailor made solutions, based on our experience and the wide range of available solutions.



Hydraulic Remote Controls

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Hydreco Handles

Hydreco Hydraulics Italia is able to supply several type of multifunction ergonomic handles.

The concept at the base of Hydreco proposal is the easy of operation for the customers, thanks to the attention to the design and the proper fit for the operator.

The 3 models (MFE, MFE2 and EXM) can host many different devices with multiple possibilities on the configurations side. Also, logic boards can be built in, providing additional power without compromising ergonomic and/or cabin space. Capacitive sensors are also available to provide an effort free experience and a significant advantage to the operators. Tailor made solution is the key feature of our handles range, completed by knobs and straight command for the simplest needs.



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Hydreco WSP Pumps

Hydreco new range of WSP cast iron gear pumps has been designed to deliver an incredible output pressure up to 350 bars. The WSP range can clearly respond to the most demanding application, wherever you are.

La serie WSP è dotata di corpo e flange in ghisa. Grazie all'elevata affidabilità e alla precisione di progettazione e produzione, queste pompe garantiscono una vita attesa elevata

Disponibili sia come pompe single che come pompe multiple queste pompe garantiscono un'ampia varietà di opzioni su flange, alberi e porte, fornendo la giusta configurazione per ogni applicazione.

DISPLACEMENT (WSP40+WSP50)

From 12 to 88 cm³/rev [from 0.73 to 5.37 in³/rev]

PRESSURE

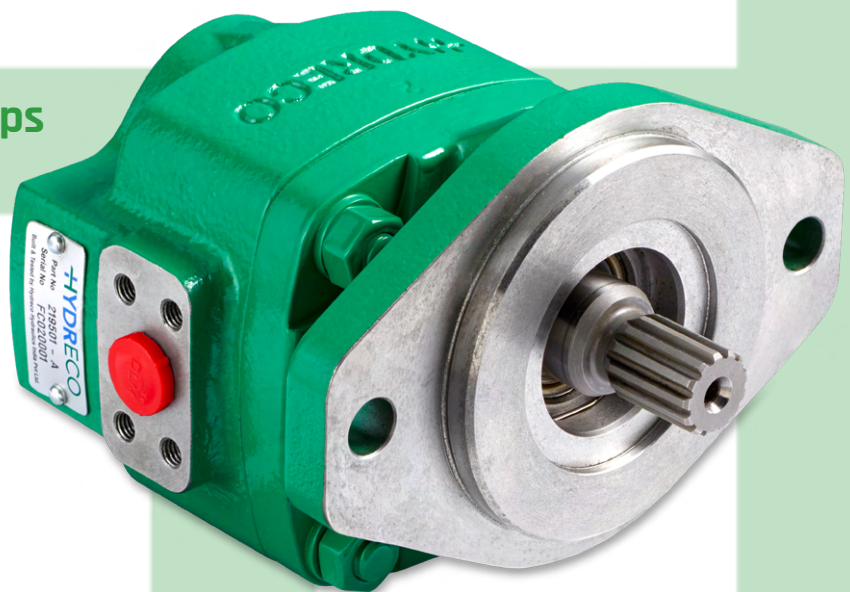
Max continuous 350 bar (5075 psi)

Max peak 360 bar (5220 psi)

MAX SPEED

Up to 3500 rpm

WSP Pumps



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Hydreco Hydraulics Italia Vignola (MO)

1,860m² of space to serve
more than 300 customers



1,860m²



1977



20

Selected Key Customers:

Vignola serves more than 300 customers with long-standing relationships



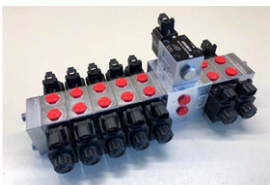
Selected Products

The site is dedicated to the engineering and light assembly of pilot valves, both hydraulics and electrical, as well as HIC and parallel axis gearboxes

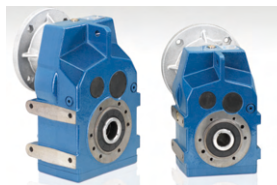


Hydraulic pilot controls

Electric remote controls and systems



HIC (Hydraulic Integrated Circuit)



Parallel axis gearboxes

Hydreco Hydraulics Italia Parma

900m² of space to serve more than 300 customers



900m²



2021



4

Selected Key Customers:

Parma mission is to serve customers around the world with a wide range of innovative gear pumps and motors for multiple end applications

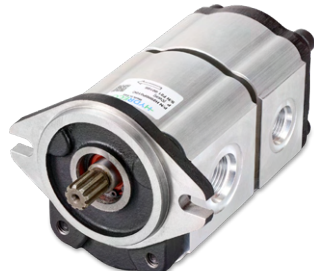
- OEM
- MOBILE
- DISTRIBUTORS
- INDUSTRIAL

Selected Products

The site is dedicated to the the engineering and light assembly of aluminum and cast iron gear pumps and motors



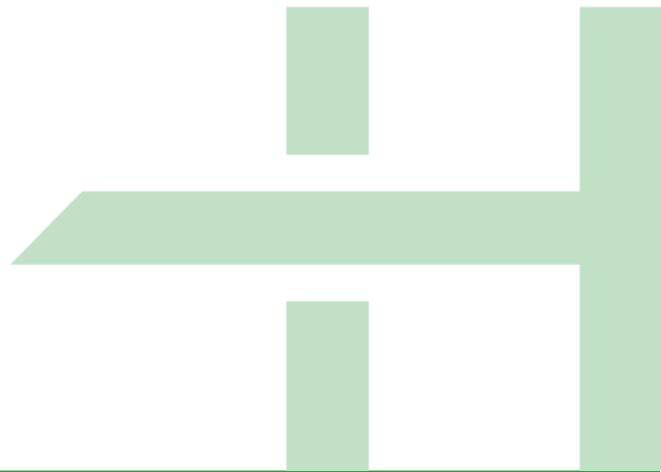
Aluminum gear pumps - single



Aluminum gear pumps - multiple



Cast iron pumps - single & multiple



Over 100 years of Hydraulics Experience

Hydreco Hydraulics - a member of Diplomatic Group - is the designer, manufacturer and distributor of products servicing the transport and mobile hydraulics sector. Hydreco has a combined history of 100+ years in developing solutions through a rich heritage of legacy companies.

The joining of David Brown Hydraulics, Powauto and Hydreco in 1997 brought together some of the most respected products, people and heritage brands in the business. Engineering excellence is at the core of Hydreco's organization, the product range is geared towards offering the best possible solution for many applications within Construction, Earth Moving, Transport, Industrial, Materials handling, and many more.

Hydreco Hydraulics supports customers through leading edge products, designed to provide optimum performance and extensive reliability in continual hard working applications.

Hydreco Hydraulics develops products of highest quality and dedicated to several markets to respond to customers hydraulic needs through a worldwide network of manufacturing and sales facilities.

Outstanding performance on a global scale

Hydreco's entry into Diplomatic Group in 2019 has resulted in a strong synergy between the two organizations, strengthening the Group's ability to provide tailored solutions for a wide range of applications in the mobile and industrial sectors.

Hydreco Hydraulics Ltd in Poole, Dorset, UK. is a wholly owned subsidiary of Diplomatic Motion Solutions, it has wholly owned companies in Vignola and Parma, Italy; Straelen, Germany; Oslo, Norway Rock Hill, North Carolina, USA; Sydney and Perth, Australia; Bangalore, India.

Advanced Hydraulic Technologies

Hydreco Hydraulics has an extensive range of low noise helical gear, aluminium and cast iron gear pumps, as well as standard spur gear models. Its valve range covers the complete portfolio of Diplomatic Motion Solutions products, multi-spool sectional and monoblock models with electro-hydraulic, hydraulic and lever control and manifold system solutions.

Dual axis, stackable, and single axis hydraulic pilot valves are also available with an extensive range of handle options including ergonomic handles with many switches and button options.

The Group also provides a range of electronic devices (ECU's, displays, keypads,...) for the complete control of mobile vehicles. Hydreco Italy produces all pilot valves for the group and it is responsible for the entire electronic program.

Hydreco Hydraulics daily mission

Hydreco Hydraulics can demonstrate a proven ability to meet the needs of customers and to support world leaders in their individual fields. It's not just about delivering a product; it starts with assessing each customer's needs, through correctly selecting or configuring the correct products to match the application needs.

Being part of Diplomatic group adds to Hydreco strategic footprint, this being the integration between solutions for mobile and industrial applications. This means a real global presence worldwide.

HYDRECO

ADVANCED HYDRAULIC TECHNOLOGIES

DIPLOMATIC
MOTION SOLUTIONS

CONTINENTAL
HYDRAULICS
engineering in motion



hydreco.com