



Sustainability and Connectivity

Diplomatic MS

Press Kit
2023
English

Stand B18
Hall 007

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DIPLOMATIC MS – DAIKIN INDUSTRIES TO SHOWCASE INNOVATIVE SOLUTIONS FOR SUSTAINABILITY AND CONNECTIVITY AT EMO 2023

Diplomatic MS Spa (Daikin Industries), a global leader in advanced motion control solutions, will unveil sustainable and connected solutions at EMO 2023, Stand B18 in Hall 007. The showcase includes innovative Hybrid Units, reflecting the company's commitment to eco-conscious manufacturing.

Parabiago, Milan, August 31st, 2023 – Diplomatic MS Spa is pleased to announce its participation in EMO 2023, the world's premier trade fair for production technology (Hanover, Germany, September 18-23, 2023). With a focus on driving sustainability and networking of production processes in manufacturing, Diplomatic will showcase its latest innovations at **Hall 007, Stand B18**.

According to **Roberto Maddalon**, CEO of Diplomatic MS Spa, "Our participation in EMO 2023 reflects our commitment to sustainability and connectivity. This occasion provides an avenue to present solutions that push the boundaries of motion control technology while aligning with the collective strength of Diplomatic and Daikin Oil Hydraulics Division." Diplomatic MS adapts Daikin products for the European market, adding value through customization. "Our AKW chiller as well as other hybrid units, originating from Japan, undergo enhancement at our Diplomatic plants in Italy to cater to the unique requirements of the European market." Maddalon added.

Revolutionizing Sustainability and Efficiency

Diplomatic's central theme for EMO 2023 is sustainability, a paramount concern in modern manufacturing. Acknowledging the necessity for eco-friendly solutions that enhance productivity while minimizing environmental impact as per Daikin' Environmental Vision 2050, Diplomatic introduces Daikin revolutionary Hybrid Units tailored to benefit machine tool manufacturers:

- **Industrial Chillers:** Diplomatic's commitment to sustainability extends to cooling solutions. The New AKJ Chiller and AKW Chiller exemplify advanced temperature control technology, enhancing component longevity and system reliability.
- **Super Unit (SUT) Series:** Expanding on the hybrid concept, the Super Unit series amplifies power density, precision, and efficiency. Available with tank and frame options, these Super Unit versions ensure remarkable versatility for diverse industrial needs.
- **Ecorich Series:** The Ecorich series signifies the fusion of hydraulic and electric technologies, embodying power and efficiency within a singular unit. Including the Ecorich EHU Standard, Ecorich EHU with frame, and Ecorich EHU with tank, these units deliver high-performance capabilities while reducing energy consumption and emissions.

A Diverse Array of Solutions

Alongside its commitment to sustainability and connectivity, Diplomatic will feature cutting-edge products catering to machine tool manufacturers:

- **Servo proportional Valves with Bus and Conventional Valves:** Diplomatic's servo proportional valves offer precise control and unparalleled reliability, pivotal for achieving peak productivity and accuracy in metalworking.
- **Gear Pump Aluminium & Casting (GPA):** The GPA series offers an extensive range of gear pumps designed for optimal fluid handling and energy efficiency, aligning with the demands of contemporary manufacturing.
- **Electric Cylinders and Drives:** Diplomatic's BU Mechatronics presents electric cylinders and drives, merging performance, precision, and adaptability, enabling machine tool manufacturers to attain desired levels of automation and flexibility.

Diplomatic MS Spa, a Daikin Group company – Headquarters in Parabiago (Milan), with a turnover of 163 million euros and six hundred employees at 31.12.2022 – designs and manufactures hydraulic and electromechanical components and systems for motion control in various application sectors. The Group is present on the market through the following brands: Diplomatic Motion Solutions for industrial applications, Hydreco Hydraulics for mobile applications, Continental Hydraulics for North America and Till Hydraulik for the German market. The Group has production plants in the USA, Japan, China, India, Australia, Italy, Germany, Great Britain, and sales offices in different areas of the world. www.diploomaticmotionsolutions.com **Media Inquiries:** s.bernardelli@diploomatic.com

DIPLOMATIC MS – DAIKIN INDUSTRIES AUF DER EMO 2023: INNOVATIVE LÖSUNGEN FÜR NACHHALTIGKEIT UND KONNEKTIVITÄT

Diplomatic MS Spa (Daikin Industries), ein weltweit führender Anbieter von fortschrittlichen Motion-Control-Lösungen, wird auf der EMO 2023 (Stand B18 Halle 007), nachhaltige und vernetzte Lösungen vorstellen.

Parabiago, Mailand, Italien, den 31. August 2023 – Diplomatic MS Spa freut sich, seine Teilnahme an der EMO 2023 - der Weltleitmesse der Produktionstechnologie (Hannover, Deutschland, 18. bis 23. September 2023) - bekannt zu geben. Mit dem Schwerpunkt auf der Förderung von Nachhaltigkeit und Vernetzung der Produktionsprozesse in der Fertigung wird Diplomatic seine fortschrittlichen Innovationen in **Halle 007, Stand B18** vorstellen.

Laut **Roberto Maddalon**, CEO von Diplomatic MS Spa, *"Unsere Teilnahme an der EMO 2023 spiegelt unser Engagement für Nachhaltigkeit und Konnektivität wider. Dieser Anlass bietet die Möglichkeit, Lösungen vorzustellen, die die Grenzen der Motion-Control-Technologie erweitern und gleichzeitig auf die Synergie von Diplomatic und Daikin Oil Hydraulics Division ausgerichtet sind."* Diplomatic MS stimmt Daikin-Produkte auf den europäischen Markt ab und schafft Mehrwert durch die individuelle Anpassung. *"Unsere Kühlaggregate Typ AKW und die anderen aus Japan stammenden Hybridaggregate werden in Diplomatic-Werken in Italien weiterentwickelt, um die individuellen Anforderungen des europäischen Marktes zu erfüllen"*, so CEO Maddalon.

Revolutionierung von Nachhaltigkeit und Effizienz

Das zentrale Thema von Diplomatic für EMO 2023 ist Nachhaltigkeit, die von größter Bedeutung in der modernen Fertigung ist. Von der Notwendigkeit von umweltfreundlichen Lösungen überzeugt, die die Produktivität verbessern und gleichzeitig die Auswirkungen auf die Umwelt gemäß Daikins Umweltvision 2050 minimieren, stellt Diplomatic die revolutionären Hybridaggregate von Daikin vor, die auf die Werkzeugmaschinenhersteller perfekt abgestimmt sind:

- **Industrielle Kühleinheiten:** Das Engagement von Diplomatic für Nachhaltigkeit erstreckt sich auf Kühllösungen. Die neuen AKJ und AKW Kühlaggregate sind Beispiele von fortschrittlicher Temperaturkontrolltechnologie, da sie eine längere Lebensdauer der Komponenten und eine erhöhte Systemzuverlässigkeit ermöglichen.
- **Super-Unit-Serie (SUT):** Indem sie sich auf den Hybridkonzept stützt, steigert die Super-Unit-Serie Leistungsdichte, Präzision und Effizienz. Diese Super Unit-Versionen sind mit Tank- und Rahmenoptionen erhältlich und gewährleisten eine bemerkenswerte Vielseitigkeit für verschiedene industrielle Anforderungen.
- **Ecorich-Serie:** Die Ecorich-Serie steht für die Verschmelzung hydraulischer und elektrischer Technologien und kombiniert Leistung und Effizienz in einer einzigen Einheit. Diese Einheiten umfassen den Ecorich EHU Standard, den Ecorich EHU mit Rahmen und den Ecorich EHU mit Tank und bieten Hochleistungsfähigkeiten bei gleichzeitiger Reduzierung des Energieverbrauchs und der Emissionen.

Große Vielfalt an Lösungen

Neben seinem Engagement für Nachhaltigkeit und Konnektivität, wird Diplomatic innovative Produkte für Werkzeugmaschinenhersteller präsentieren:

- **Servoproportionale Ventile mit Bus und konventionelle Ventile:** Die servoproportionalen Ventile von Diplomatic bieten präzise Steuerung und extreme Zuverlässigkeit, die für die Erzielung höchster Produktivität und Genauigkeit bei der Metallbearbeitung von entscheidender Bedeutung sind.
- **Zahnradpumpe aus Aluminium und Guss (GPA):** Die GPA-Serie bietet ein umfangreiches Sortiment an Zahnradpumpen, die für optimale Flüssigkeitsförderung und Energieeffizienz ausgelegt sind und die Anforderungen der modernen Fertigung erfüllen.
- **Elektrische Zylinder und Antriebe:** Diplomatic BU Mechatronics präsentiert elektrische Zylinder und Antriebe, die Leistung, Präzision und Anpassungsfähigkeit kombinieren, um den Werkzeugmaschinenherstellern zu ermöglichen, den gewünschten Grad an Automatisierung und Flexibilität zu erreichen.

Diplomatic MS Spa, ein Unternehmen der Daikin-Gruppe – Hauptsitz in Parabiago (Mailand), Italien, 163 Millionen Euro Umsatz und 600 Mitarbeiter (Stand 31.12.2022) – entwickelt und fertigt hydraulische und elektromechanische Komponenten und Systeme für die Bewegungssteuerung in verschiedenen Anwendungsbereichen. Die Gruppe ist mit folgenden Marken am Markt aktiv: Diplomatic Motion Solutions für industrielle Anwendungen, Hydreco Hydraulics für mobile Anwendungen, Continental Hydraulics für Nordamerika und Till Hydraulik für den deutschen Markt. Die Gruppe verfügt über Produktionsstätten in den USA, Japan, China, Indien, Australien, Italien, Deutschland, Großbritannien und Vertriebsniederlassungen in verschiedenen Regionen der Welt. www.diplomaticmotionsolutions.com **Presseinfo:** s.bernardelli@diplomatic.com

DIPLOMATIC MS – DAIKIN INDUSTRIES ALLA FIERA EMO CON SOLUZIONI INNOVATIVE PER LA SOSTENIBILITÀ E LA CONNETTIVITÀ

Diplomatic MS Spa (Daikin Industries), leader mondiale nelle soluzioni avanzate di controllo del movimento, presenterà le proprie soluzioni sostenibili e connesse alla EMO 2023 (stand B18, padiglione 007).

Parabiago, Milano, 31 agosto 2023 – Diplomatic MS Spa annuncia la partecipazione a EMO 2023, la più importante fiera mondiale delle tecnologie di produzione (Hannover, Germania, 18-23 settembre 2023) dove presenterà le ultime innovazioni per il settore manifatturiero (**Pad. 007, Stand B18**).

Secondo **Roberto Maddalon**, CEO di Diplomatic MS Spa, " *La nostra partecipazione a EMO 2023 riflette il nostro impegno per la sostenibilità e la connettività. A questo evento presentiamo soluzioni che superano i confini della tecnologia del controllo del movimento e che esprimono la sinergia tra Diplomatic e la divisione Oil Hydraulics di Daikin.*" Diplomatic MS adatta i prodotti Daikin al mercato europeo, aggiungendo valore attraverso la personalizzazione. " *Il refrigeratore AKW e le altre unità ibride provenienti dal Giappone vengono sottoposti a un processo di miglioramento presso le sedi Diplomatic in Italia per soddisfare le esigenze del mercato europeo*", ha aggiunto Maddalon.

Nuove idee per la sostenibilità e l'efficienza

Per Diplomatic MS il tema centrale di EMO 2023 è la sostenibilità, un aspetto vitale nell'industria di oggi. In linea con la riduzione dell'impatto sull'ambiente, previsto dalla *Environmental Vision 2050* di Daikin, Diplomatic MS presenta le rivoluzionarie unità ibride Daikin, studiate per i produttori di macchine utensili:

- **Refrigeratori industriali:** l'impegno per la sostenibilità di Diplomatic MS si estende anche alle soluzioni di raffreddamento. I nuovi refrigeratori AKJ e AKW sono un perfetto esempio dell'avanzata tecnologia di controllo della temperatura, che ha lo scopo di migliorare la longevità dei componenti e l'affidabilità del sistema.
- **Super Unit (SUT):** basandosi sul concetto di ibrido, la serie Super Unit aumenta densità di potenza, precisione ed efficienza. Disponibili con opzioni di serbatoio e telaio, queste versioni di Super Unit assicurano una notevole versatilità per le diverse esigenze industriali.
- **Ecorich:** la serie Ecorich rappresenta l'unione delle tecnologie idrauliche ed elettriche, combinando potenza e l'efficienza all'interno di un'unica unità. Fanno parte di questa serie l'Ecorich EHU Standard, l'Ecorich EHU con telaio e l'Ecorich EHU con serbatoio. Queste unità offrono prestazioni elevate e riducono il consumo energetico e le emissioni.

Un'ampia gamma di soluzioni

Diplomatic MS presenterà altri prodotti all'avanguardia per i costruttori di macchine utensili:

- **Valvole servoproporzionali con Bus e valvole convenzionali:** le valvole servoproporzionali di Diplomatic offrono un controllo preciso e affidabilità senza pari, fondamentali per raggiungere i massimi livelli di produttività e accuratezza nella lavorazione dei metalli.
- **Pompa ad ingranaggi in alluminio e fusioni (GPA):** la serie GPA offre un'ampia gamma di pompe a ingranaggi progettate per una gestione ottimale dei fluidi e per l'efficienza energetica, in linea con le esigenze della produzione contemporanea.
- **Cilindri e azionamenti elettrici:** la BU Mechatronics di Diplomatic MS presenta cilindri e azionamenti elettrici che uniscono prestazioni, precisione e adattabilità, consentendo ai produttori di macchine utensili di raggiungere i livelli di automazione e flessibilità desiderati.

Diplomatic MS Spa, società del gruppo Daikin – Headquarter a Parabiago (Milano), 163 milioni di euro di fatturato e oltre 600 dipendenti al 31.12.2022 – progetta e produce componenti e sistemi oleodinamici ed elettromeccanici per il controllo del movimento in vari settori applicativi. Il Gruppo è presente sul mercato attraverso i seguenti marchi: Diplomatic Motion Solutions per applicazioni industriali, Hydreco Hydraulics per applicazioni mobili, Continental Hydraulics per il Nord America e Till Hydraulik per il mercato tedesco. Il Gruppo ha stabilimenti produttivi in USA, Giappone, Cina, India, Australia, Italia, Germania, Gran Bretagna e uffici commerciali in diverse aree del mondo. www.diploomaticmotionsolutions.com

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PRODUCT INFORMATION

DUPLOMATIC MS - DAIKIN AKW INVERTER CONTROLLED WATER CHILLER

High-accuracy oil temperature control:

A non-inverter cooling unit can't change the revolutions of a compressor, only the on/off function. A Daikin Fluid cooling units uses an inverter technology to control revolutions directly to the compressor and a pulse control of expansion valve base on heat generation load, leading to more precise liquid temperature and increase energy savings.

High-accuracy liquid temperature control:

During the metalworking process, a machine will generate lots of heat and liquid temperature will increase. Daikin Fluid cooling unit uses inverter technology to accurate control liquid temperature and help a machine perform at its best.

Predictive maintenance:

Built-in warning system reminds you the maintenance timing for air filter, condenser etc, which prevents sudden stop and reduce down time.



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Various cooling methods:

Engineers can adapt Daikin Fluid cooling unit to match their machine preferences, including:

- The target control (inlet, outlet, return)
- Temperature control (fixed setting, ambient, machine body)
- Nine different operation mode patterns.

These adaptable functions ensure the fluid cooling unit provides the correct temperature control for every machine.

Applications: industrial stationary equipment

It complies with regulations.
All models comply with CE standards.

**ON SHOW AT
STAND B18 – HALL 007**

EMO
HANNOVER
Innovate Manufacturing.

PRODUCT INFORMATION

DUPLOMATIC MS - DAIKIN AKJ SERIES COOLANT CHILLER

High energy-saving performance:

- Achieve high energy-saving performance with Daikin original IPM motor and inverter.

Highly accurate temperature control by inverter technology

- The coolant temperature can be controlled within $\pm 0.1^{\circ}$ C over the entire cooling load range (from 0 to 100% load) and this helps to increase the accuracy of machine tools.

Predictive maintenance

- Built-in warning system reminds you the maintenance timing for air filter, condenser etc, which prevents sudden stop and reduce down time.



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Overview

Immersion-type oil cooling unit mounted directly on the coolant tank. It is a cooler that is placed on the coolant tank and cools the fluid inside the tank directly with a cooling coil.

Applications: machine tools and industrial machine

It complies with regulations.

All models comply with CE standards.

FEATURES

- ✓ Cooling capacity: 5.0/5.6 kW
- ✓ Power supply : 3-phase AC 380 · 400 · 415V 50/60Hz

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EMO
HANNOVER
Innovate Manufacturing.

PRODUCT INFORMATION

DUPLOMATIC MS - DAIKIN EHU – ECORICH HYBRID HYDRAULIC POWER UNIT

High energy-saving performance:

- The highly efficient IPM motor surpasses IE4 class to reduce power consumption by up to 65% compared to a conventional hydraulic unit.

Restricted oil temperature rise:

- Suppressing the oil temperature reduces the thermal distortion on the machine, improves the environment at the machine site, prevents degradation of hydraulic oil and extends the oil replacement interval.

Space-saving design:

- A more compact and lightweight unit offers easier installation. All models offer a 9% reduced footprint. The EHU1404/2504 model offers a 40% mass reduction compared to a conventional hybrid unit.



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The world first hybrid hydraulic system that combines hydraulics technology and Daikin motor/inverter technology.

Applications: industrial stationary equipment

It complies with regulations.

All models comply with CE standards.

FEATURES

- ✓ Tank: 45 l / tankless
- ✓ Max Pressure: 70/135 bar
- ✓ Max Flow Rate: 28,5 l/min 15 l/min

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PRODUCT INFORMATION

DUPLOMATIC MS - DAIKIN SUPER UNIT

High energy-saving performance:

- Daikin's original high-efficiency IPM motors with inverter technology provides up to 50% increase in energy-savings compared to a conventional hydraulic unit.
- Double-pump specification switches pumps to output the optimum pressure and flow rate for the required operation, further saving energy.

Low operational noise:

- The double pump feature helps the SUPER UNITS to achieve an operational noise level of 60 dB(A) (when the pressure is at 210 bar, and less than 73 dB(A) in the operating area).



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The advanced SUPER UNIT offers several different features to achieve higher performance and energy savings.

Pressure and flow rate can be controlled continuously at the desired values automatically or by command from PLC.

Applications: industrial stationary equipment

It complies with regulations.
All models comply with CE standards.

FEATURES

- ✓ Tank: 100 l / Tankless
- ✓ Max Pressure: 160 / 210 bar
- ✓ Max Flow Rate: 80 l/min

**ON SHOW AT
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PRODUCT INFORMATION

DUPLOMATIC MS – BU MECHATRONICS ECF3 – ELECTRIC CYLINDER FOR FORCE CONTROL APPLICATIONS

Long life:

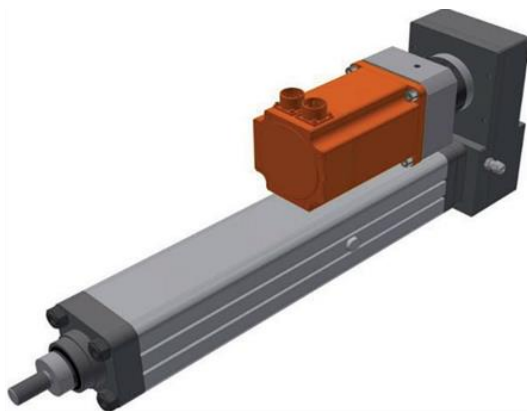
- Thanks to the oversized ball screws, the linear motion transmission maximizes the life of the cylinder and makes it suitable for the most demanding applications.

Minimum vibration:

- The piston is precisely guided in the barrel with double sliding guide, the shaft end of the screw is supported by a bearing and the rod is guided into the front head with a long linear bushing. All these features contribute to the minimization of vibrations.

Maximum rigidity and resistance:

- The increased external diameter and thickness of the rod maximize rigidity and resistance to radial and buckling loads. The high-capacity bearings that support the screw allow the transmission of high loads in both directions.



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ECF3 is an electric cylinder with compact design and integrated load cell, designed for use in applications requiring direct force measurement and control.

Applications: industrial stationary equipment

FEATURES

- ✓ Max force: 124 kN
- ✓ Max Torque: 492.2 Nm
- ✓ Max Speed: 833 mm/s

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PRODUCT INFORMATION

DUPLOMATIC MS - DAIKIN IoT/COMMUNICATION

Helping factories get ahead with IoT:

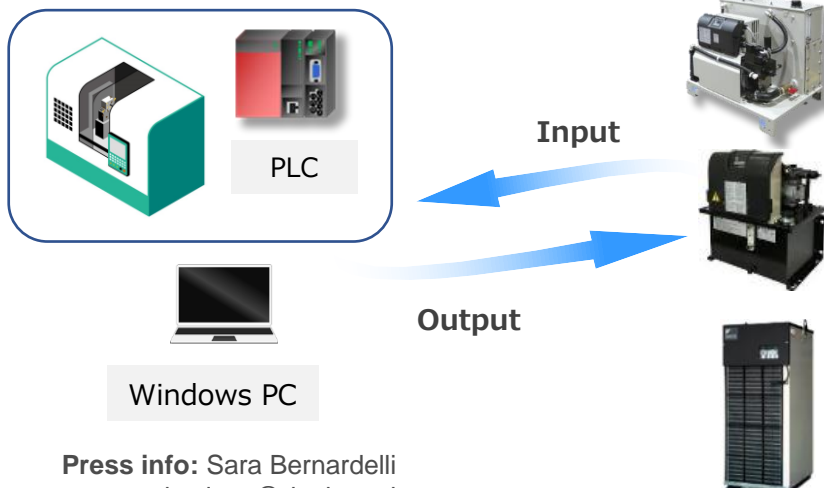
- Daikin's HPU (Hybrid Power Unit) and Chiller are connected to the machine tool to provide constant visibility of operating conditions. This allows users to quickly respond to bad signs and perform maintenance at the right time to avoid machine stoppages.

Hybrid-win

- Hybrid-Win is PC software that manages HPU and Chiller settings, speeding up operations such as checking operation during trial runs and investigating the cause of problems, etc. It can output and display data such as HPU pressure and flow rate, Chiller temperature, etc., and can also create graphs. The parameter read/write function reduces the time required for initial setup.

Communication Function

- This allows the HPU and Chiller to be operated from machine tools and PLCs. The operator can check operating data and change parameters from the machine tool operation panel or even from a remote maintenance room. Also, by continuously collecting operation data, it is possible to identify machining defects, diagnose malfunctions, and utilize the data for predictive maintenance.



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Advantages for factory workers

Machine manufacturers

The operating data maintenance timing and procedures can be displayed on the operation screen to help reduce the machine failure rate, and the working hours spent on inspections.

Machine users

The operating data maintenance timing and procedures can be displayed on the PC in the maintenance room, reducing the hours spent on inspections.

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PRODUCT INFORMATION

DUPLOMATIC MS - DAIKIN CORE TECHNOLOGY

Oil Hydraulic & Cooling Control

Refrigerant system design

- Structural design
- High accuracy temperature control
- Maintenance free condenser

Robust control

- High accuracy pressure
- Flow rate control
- Flow rates switching
- Adjustments free – self learning

System Control

- Predictive maintenance – failure diagnosis
- Hydraulic circuit design, circuit design technology including valves.

Oil Hydraulic Devices

Pump design

- Hydrostatic bearing
- Architectural analysis
- Noise reduction
- Surface preparation

Valve design

- Fluid analysis
- Temperature correction

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**DAIKIN's comprehensive strength
contributes to energy saving**



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PRODUCT INFORMATION

DUPLOMATIC MS - DAIKIN CORE TECHNOLOGY

Motor & Inverter

Motor and inverter design

- High capacity / heat loss
- Complying with regulations

Sensor-less motor

- Highly responsive
- Low speed contro / reverse rotation

Failure prognosis for compressor

**Oil
Hydraulics
&
Cooling
Control**

**System
Control**

**Oil
Hydraulics
Devices**

**Motor &
Inverter**



Sustainability and Connectivity

**DAIKIN's comprehensive strength
contributes to energy saving**



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DIPLOMATIC MS GROUP AT A GLANCE

The **Duplomatic Group** is a global engineering and technology organization, specialized in the design and production of components and products for hydraulics, mechatronics and electromechanics (valves, pumps, hydraulic cylinders, microhydraulics, electric actuators ...), as well as advanced systems for motion control.

The **solutions** of the Duplomatic Group find application in every industrial and mobile sector and are developed for the main world manufacturers of operating machines, even with customization needs, for system integrators and distributors.

From July 1st, 2022, Duplomatic Group is part of Daikin Industries Ltd.

BRANDS

 <p>a member of DAIKIN group</p> <p>Duplomatic Industrial applications</p>	 <p>a member of DAIKIN group</p> <p>Hydreco Hydraulics Mobile applications</p>
 <p>a member of DAIKIN group</p> <p>Continental Hydraulics Industrial applications for North America</p>	 <p>a member of DAIKIN group</p> <p>Till Hydraulik Mobile applications for the German market</p>



REVENUES

162Ml €

Group full year



WORKFORCE

+650



HEADQUARTER

Italy

Parabiago (MI)



TURNOVER BY GEOGRAPHIC AREA

69% Europe

18% Asia Pacific

13% America



CUSTOMERS

+5,000

Between distributors, system integrators and OEMs



FACTORIES

15 all over the world

COMPANIES

- ✔ **Hydreco Hydraulics** - Headquarter in Poole (UK) and sites spread in Italy, Germany, Norway, USA, India and Australia – Motion control solutions for mobile applications
- ✔ **Continental Hydraulics** - Shakopee, MN (USA) – Motion control solutions for North America
- ✔ **Till Hydraulik** - Helmstedt (Germany) – for the German market
- ✔ **Diplomatic Hydraulics Shanghai** - Shanghai (China) – Production of valves for the Asian area
- ✔ **Diplomatic Middle East** – Dubai (UAE) – for the project EXPO 2020 Dubai project and other special projects

BUSINESS UNITS

Within Diplomatic MS, next to the Headquarters in Parabiago (Milan - IT) – where valves are designed and manufactured - operate:

- ✔ The **BU Hydraulic Systems** - Lainate (Milan -IT) and Padova (IT) – for the production of complex systems
- ✔ The **BU Turnkey Projects** - Parabiago (Milan - IT) – for special and innovative turnkey projects
- ✔ The **BU Mechatronics**, with sites in Sulbiate (Monza Brianza – IT) for the development and production of electronic products focused on 4.0 Industry, and Rosta (Turin - IT) for the development and production of electric actuators

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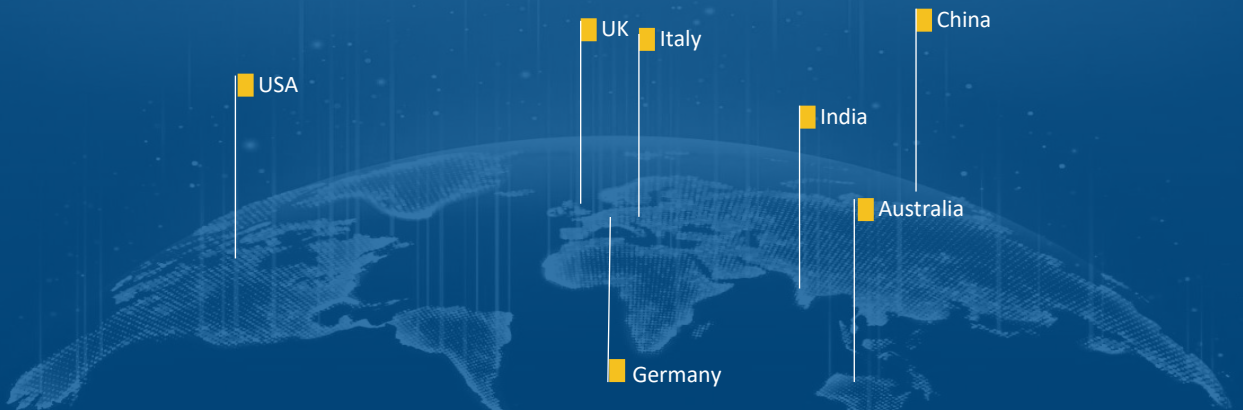
SMART MANUFACTURING

Diplomatic has structured its production in order to directly control all the steps, both in the Italian sites and abroad.

The production sites are organized according to the same standards and strategically relocated to quickly serve the various international markets.

Furthermore, all production sites are organized according to Lean Manufacturing processes to guarantee a competitive and quality service to Italian and international customers.

15 PRODUCTION SITES AND COMMERCIAL OFFICES AROUND THE WORLD



DIPLOMATIC MS GROUP HISTORY

1860

DAVID BROWN

David Brown is born in Great Britain.

1952

DIPLOMATIC

Diplomatic was founded for the production of hydraulic copiers, components and systems.

1962

CONTINENTAL HYDRAULICS

The Continental Hydraulics division is established in Minneapolis (MN), USA, for the supply of hydraulic components and systems.

TILL HYDRAULIK

Till Hydraulik was founded in Germany for the supply of hydraulic components for agriculture.

1993

DAVID BROWN HYDRAULICS

David Brown Group acquires Hamworthy Hydraulics to form David Brown Hydraulics.

2008

NEW BUSINESS SCENARIOS

With the death of the founder, Diplomatic enters the era of investment funds.

2011

CONTINENTAL HYDRAULICS

Continental Hydraulics is acquired.

2017

DIPLOMATIC MS

New business name of the company, in line with the strategy of developing technological solutions for motion control.

The **Diplomatic Group** - Headquarters in Parabiago (Milan - IT), with a turnover of 162 million euros and over 650 employees at 31.12.2022 - designs and manufactures technological solutions for motion control in various sectors. It is present on the market with four brands: **Diplomatic Motion Solutions** for industrial applications, **Hydreco** for mobile applications, **Continental Hydraulics** for North America and **Till Hydraulik** for the German market. The Group is present internationally, with its own production plants in the USA, China, India, Australia, Italy, Germany, Great Britain and sales offices in various areas around the world.

2019

HYDRECO

Hydreco (advanced hydraulic solutions for mobile applications), born in 2013 from the rebranding of David Brown Hydraulics, joins the Diplomatic Group.

2021

EXPO 2020

Diplomatic creates the hydraulic system for opening the United Arab Emirates pavilion, designed by architect Santiago Calatrava.

TILL HYDRAULIK


The German company Till Hydraulik, which produces hydraulics for the industrial and mobile sector, is acquired.

2022

70TH ANNIVERSARY

Diplomatic celebrates 70 years of activity.

60TH ANNIVERSARY

 Continental Hydraulics celebrates 60 years of business.

 **TILL HYDRAULIK 60**

Till Hydraulik celebrates 60 years of history.

DAIKIN

Acquisition of Diplomatic MS Spa by Daikin.


DUPLOMATIC MS AT A GLANCE


Since **1952** experts in hydraulics and motion control solutions.


Duplomatic MS is an innovative company capable of proposing **engineering solutions for motion control**, automation and components for industrial applications.

Thanks to being a member of Daikin Group, Duplomatic makes its contribution to sustainability through energy-saving and hybrid hydraulic solutions.

The headquarter is in Parabiago (Milan, IT), where the valves are designed and produced, alongside the:

 **Business Unit Hydraulic Systems** of Lainate (Milan, IT) and Padova for the production of complex systems

 **Business Unit Turnkey Projects** of Parabiago (Milan, IT) for special and innovative turnkey projects

 **Business Unit Mechatronics**, sites in Sulbiate (Monza Brianza, IT) for the development and manufacture of electronic products focus on 4.0 Industry and Rosta (Turin) for the development and production of electric actuators



REVENUES
59 MI €



WORKFORCE
+200
Parabiago, Lainate,
Padova, Sulbiate, Rosta



FOUNDATION YEAR
1952



HEADQUARTERS
Parabiago (Milan-IT)
8,200 sqm

Data as of 31-12-2022

From 2020 Duplomatic MS is the only Italian company certified **Competence Center IO-Link**.

Duplomatic MS is also the **holding company** of the Duplomatic group which includes **Hydreco Hydraulics**, **Continental Hydraulics** and **Till Hydraulik**.

BUSINESS AREAS

Duplomatic is organized in synergistic but distinct business areas.

It makes its **expertise** available to **develop innovative solutions**, through a multidisciplinary approach, oriented towards the customer and his technical needs.

It offers a wide range of hydraulic and electronic components, also with IO-Link, of electric actuators for industrial applications and Industry 4.0 to companies and OEMs and realizes complex systems and turnkey projects, guaranteeing them to be able to count on a **single qualified interlocutor**.

Industrial applications

INDUSTRIAL MACHINERY
LUBRIFICATION
MARINE
MEDICAL TECHNOLOGY
OIL&GAS
POWER GENERATION
RAILWAY
TEST RIGS
TURNKEY PROJECTS



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✓ COMPONENTS

Pumps, motors, on / off valves, explosion-proof products, hydraulic cylinders, proportional valves, electronic boards, electric actuators, accessories

✓ SYSTEMS

Design, production and testing of power plants, manifolds, cabinets and complex applications for industrial automation

✓ MECHATRONICS

Custom mechatronic solutions for industrial automation and motion management for Industry 4.0

✓ MICROHYDRAULICS

Technological solutions for the medical sector

✓ TURNKEY PROJECTS

From engineering, to construction, from materials management, installation, testing and commissioning, to maintenance

DUPLOMATIC MS HISTORY

1952

BIRTH OF DUPLOMATIC

Founded in Busto Arsizio (Varese, IT) by entrepreneur Angelo Girola, for the development of an innovative device for the automation of machine tools: the hydraulic copier.

1960

START OF THE PRODUCTION OF HYDRAULIC COMPONENTS

The company begins producing hydraulic components and systems.

1978

HYDRAULIC INNOVATION

The company begins to produce and market proportional valves and servocylinders.

1991

LAUNCH OF THE HYDRAULIC SYSTEMS BU

Dedicated to the development of complex systems for industry, energy, steel industry.

1997

FOUNDATION OF DUPLOMATIC HYDRAULICS

Company completely dedicated to the supply of hydraulic solutions.

Duplomatic MS - 59 million of turnover and over 200 employees - is an innovative company in the market for technological solutions for motion control, automation and components for industrial applications.

The headquarters are in Parabiago (Milan, IT), where **valves** are designed and manufactured, alongside the **Hydraulic Systems** Business Unit of Lainate (Milan, IT) and Padua (IT) for the construction of **complex systems**, the Business Unit **Turnkey Projects** of Parabiago (Milan, IT) for **special and innovative turnkey projects** and the **Mechatronics** Business Unit, with offices in Sulbiate (Monza Brianza – IT) for the development and production of **electronic products** with a focus to Industry 4.0 and Rosta (Turin, IT) for the development and production of **electric actuators**.

From 2020 Duplomatic MS is the only Italian company certified **IO-Link Competence Center**.

From July 1st, 2022, Duplomatic MS is part of Daikin Industries Ltd.

2008

NEW BUSINESS SCENARIOS

After the death of the founder, Duplomatic enters the era of investment funds.

2010

INAUGURATION OF THE NEW PLANT IN PARABIAGO (MILAN, IT)

The new production and management HQ built to support new growth strategies.

2015

FOUNDATION OF DUPLOMATIC HYDRAULICS SHANGHAI

Duplomatic production site to serve the Chinese market.

2019

INAUGURATION OF THE SITE IN LAINATE (MILAN, IT)

Dedicated to the development and production of custom-made hydraulic systems.

2019

FOUNDATION OF DUPLOMATIC MIDDLE EAST (DUBAI, UAE)

To manage the UAE pavilion project at EXPO 2020.

2020

CREATION OF BU MECHATRONICS AND BU TURNKEY PROJECTS

With a view to offer custom made turnkey projects in multiple industries.

CERTIFICATION COMPETENCE CENTER IO-LINK

Expertise gained to develop solutions for Industry 4.0.

2021

EXPO DUBAI

Duplomatic creates the hydraulic system for opening and covering the United Arab Emirates pavilion, designed by architect Santiago Calatrava.

BU HYDRAULIC SYSTEMS

Thanks to the incorporation of Tecnologie Industriali Srl, Duplomatic's Hydraulic Systems BU becomes one of the main Italian players in the design and construction of custom-made plants, with two production sites, in Lainate (Milan, IT) and Padua (IT).

2022

70TH ANNIVERSARY

Duplomatic celebrates 70 years of activity

DAIKIN



From July 1st, 2022, Duplomatic MS is part of Daikin Industries Ltd.

IO-LINK COMPETENCE CENTER

In 2020, the standard of internal competence on the IO-Link protocol and its application areas has reached a high level, for which Duplomatic MS has obtained the **certification** as **IO-Link Competence Center** (IOL-CCs).

The **Competence Centers**, certified by the IO-Link Community, are centers of excellence that offer technical support for the development of IO-Link devices and systems, certification tests and dedicated training courses.

The strategy was clearly defined by the CEO of Duplomatic MS, Roberto Maddalon: "In the face of globalization of manufacturing production, we must increasingly compete internationally, in markets now driven by the Industry 4.0 approach, which also requires a concrete knowledge of communication protocols. For this reason, we were among the first to invest in IO-Link. "







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IO-Link

IO-Link is a digital communication protocol that allows the bidirectional transfer of information to and from the devices of a machine or process, standardizing the exchange of data and allowing the acquisition of additional information, such as diagnostic ones, useful for management purposes of the system

BENEFITS

-  Cleaner signals
-  More data from the systems
-  Quick and easy installation even on existing systems
-  Reduction of installation and maintenance times and costs