

# DIPLOMATiC

MOTION SOLUTIONS

a member of **DAIKIN** group

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Scopri le nostre soluzioni multi tecnologiche:  
efficienza e risparmio energetico per le tue macchine



## Diplomatic Group

Press Kit  
2023  
English

Stand C02  
Hall 22 

## Press Kit Index

- [Press Release English & Italian](#)
- [Product News](#)
- [Duplomatic MS Group - At a glance](#)
- [Duplomatic MS Group History](#)
- [Duplomatic MS At a glance](#)
- [Duplomatic MS History](#)
- [IO-Link Competence Center](#)

## DIPLOMATIC MS – DAIKIN INDUSTRIES AT PLAST 2023 IN MILAN, ITALY

**Diplomatic MS (Daikin Industries) designs and manufactures motion control solutions for industrial applications, offering a complete range of products and specific systems for the plastics sector, on display at the Plast fair in Milan, Italy, from 5 to 8 September 2023 (stand C02 - hall 22).**

*Parabiago, Milan, July 25<sup>th</sup>, 2023* - Diplomatic MS, part of Daikin Industries, will display at the Plast fair in Milan, Italy (5-8 September 2023) its new offer for the plastic processing machinery sector, which stems from the strategic and technological partnership with the Japanese group (stand C02 - **Hall 22**).

The market for plastic processing machines is expanding and constantly looking for innovative, reliable, and efficient solutions. Diplomatic MS combines the experience of over seventy years in the production of motion control components using hydraulic and electromechanical technology with the innovation developed by Daikin for inverters, cooling units and servo pumps. Diplomatic solutions on display at Plast improve the efficiency and sustainability of machines intended for a demanding and complex sector such as plastic processing. *"We are excited to be able to face this market with a complete and rich offer, thanks to the partnership with Daikin, which allows us to offer innovative and sustainable solutions for the plastics sector"*, said Roberto Maddalon, CEO of Diplomatic MS.

The heart of the Diplomatic MS offer at Plast 2023 is the servo pump technology which, using IPM (Internal Permanent Magnet) motors to create highly dynamic variable speed systems, can regulate flow rate and pressure with extreme precision, a primary need in the plastic processing sector, with the following advantages:

- Greater precision in process control.
- Reduction of material waste.
- Improved product quality.
- Less energy consumption since the electric motor works only when it is necessary.

Diplomatic will exhibit the following product lines at the stand:

- Daikin servo pumps (high dynamic SUT), featuring powers from 11 to 37kw, able to manage flow rates up to 300 l / min at a pressure of 280 bar.
- Solenoid valves both direct and pilot operated; proportional and servo proportional valves used for the various machine functions, also with fieldbus for closed loop pressure and/or position controls.
- Fluid cooling unit (Chiller) with inverter technology to precisely control the temperature of the working fluid by a tenth of a degree and improve machine efficiency. A technology that reduces the noise of the process and energy expenditure for processing.
- ISO series electromechanically controlled linear actuators, sizes from 32 to 125, maximum force 120kN.

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**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.diplomaticmotionsolutions.com](http://www.diplomaticmotionsolutions.com)

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## DIPLOMATIC MS – DAIKIN INDUSTRIES ALLA FIERA PLAST 2023 DI MILANO

**Diplomatic MS (Daikin Industries) progetta e produce soluzioni per il controllo del movimento per applicazioni industriali, offrendo una gamma completa di prodotti e sistemi specifici per il settore della plastica, in mostra alla fiera Plast di Milano dal 5 all'8 settembre 2023 (stand C02 – padiglione 22).**

*Parabiago, Milano, 25 luglio 2023* - Diplomatic MS, parte di Daikin Industries, presenterà alla fiera Plast di Milano (5-8 settembre 2023) la nuova offerta per il settore delle macchine per la lavorazione della plastica, che nasce dalla partnership strategica e tecnologica con il gruppo giapponese (**stand C02 – Pad. 22**).

Il mercato delle macchine per la lavorazione della plastica è in espansione e alla continua ricerca di soluzioni innovative, affidabili ed efficienti.

Diplomatic MS unisce l'esperienza di oltre settant'anni nella produzione di componenti per il motion control utilizzando la tecnologia oleodinamica ed elettromeccanica con l'innovazione sviluppata da Daikin per gli inverter, le unità di raffreddamento (Chiller) e le servo pompe. Le soluzioni in mostra al Plast sono progettate per migliorare l'efficienza e la sostenibilità delle macchine destinate ad un settore esigente e complesso come quello della lavorazione della plastica. *"Siamo entusiasti di poter affrontare con una offerta completa e ricca questo mercato, grazie alla partnership con Daikin, che ci permette di offrire soluzioni innovative e sostenibili per il settore della plastica"*, ha affermato Roberto Maddalon, CEO di Diplomatic MS.

Il cuore dell'offerta Diplomatic MS a Plast 2023 è la tecnologia servo pompa che, utilizzando motori IPM (Internal Permanent Magnet) per realizzare sistemi a velocità variabile ad alta dinamica, è in grado di regolare portata e pressione con estrema precisione, necessità primaria nel settore della lavorazione plastica, con i seguenti vantaggi:

- maggiore precisione nel controllo del processo;
- riduzione di sprechi del materiale;
- miglioramento della qualità dei prodotti;
- riduzione del consumo di energia, poiché il motore elettrico funziona solo quando è necessario.

Diplomatic esporrà allo stand le linee di prodotto:

- servo pompe Daikin (SUT ad alta dinamica), con potenze da 11 a 37kw, permettono di poter gestire portate fino a 300 l/min alla pressione di 280 bar;
- valvole on-off sia ad azione diretta che pilotate; valvole proporzionali e servo proporzionali utilizzate per le diverse funzioni di macchina, anche con BUS di campo per i controlli in anello chiuso di pressione e/o di posizione;
- unità per il raffreddamento dei fluidi (Chiller) con tecnologia a inverter per controllare con precisione del decimo di grado la temperatura del fluido di lavoro e migliorare l'efficienza della macchina. Una tecnologia che abbatta la rumorosità del processo e soprattutto il dispendio energetico per la lavorazione;
- attuatori lineari a comando elettromeccanico serie ISO, taglie dalla 32 alla 125, forza massima 120kN.

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**Diplomatic MS Spa**, società del gruppo Daikin – Headquarter a Parabiago (Milano), 163 milioni di euro di fatturato e 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.diplomaticmotionsolutions.com](http://www.diplomaticmotionsolutions.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 C02 – HALL 22**



## PRODUCT INFORMATION

### DUPLOMATIC MS DMD – DRIVER MULTI-PURPOSE

#### Innovation for industrial applications:

- DUPLOMATIC has developed the new **DMD driver** series as a multi-function drive, derived from its long experience in the production of motors and drivers for machine tools. These drives are capable of implementing technologically advanced solutions both in original equipment and for technological upgrades in existing applications.

#### Unique Solution Maker for all needs:

- Thanks to its deep application know-how and the various needs of the market, DUPLOMATIC has developed the DMD Series to manage also the **EMR series reluctance**. By combining the Driver-Motor package with the entire portfolio of **industrial hydraulic components**, DUPLOMATIC offers a single technological reference package for your applications:
  - Libraries of functions and programming tools available are: **P/Q control - Multi Axis Master-slave – Multipump**, as well as **1 additional open source PID for external customization**.
  - High dynamics and control accuracy
  - More energy-saving and space-saving than the products of our competitors.



**DUPLOMATIC MS Spa**

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**Available powers:  
From 2,2 to 132 kW**

#### FEATURES:

- ✓ **FLEXIBLE** in APPLICATIONS with  
➔ **MULTI-PURPOSE DRIVER FOR:**

- ASYNCHRONOUS MOTORS (V/F)
- SYNCHRONOUS RELUCTANCE MOTORS (**SynRM**)
- ASSISTED RELUCTANCE SYNCHRONOUS MOTORS (**ASynRM**)

- ✓ **OPEN SOURCE FOR CUSTOMIZATION**  
➔ **EQUIPPED WITH HIGH PERFORMANCE VIRTUAL PLC**

- ✓ **WEB SERVER ON-BOARD**  
➔ **USER-FRIENDLY START-UP AND DIAGNOSTICS IN ANY OPERATING CONDITIONS**

**ON SHOW AT:  
STAND C02 – HALL 22**



## PRODUCT INFORMATION

### DUPLOMATIC MS EMR – RELUCTANCE MOTORS IE4

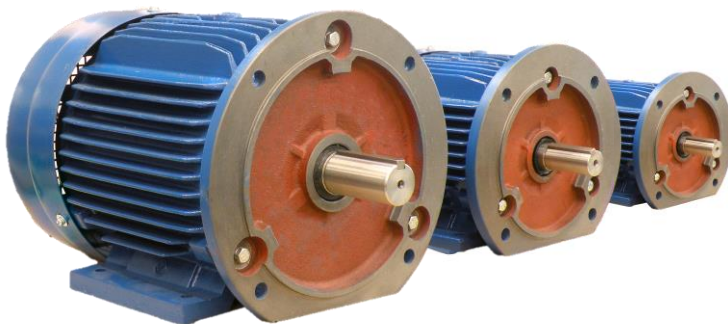
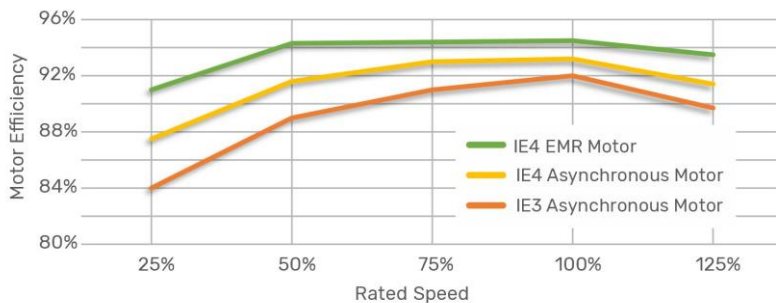
#### Innovation for industrial applications

- The technical choices merged with the energy-saving philosophy of Duplomatic/Daikin have led to the development of the EMR series motors. This series is able to satisfy applications that require high performances combined with high energy-saving.

#### A new era for application standards

- The choice to develop reluctance motors comes from the capability to deliver nominal torque even at low rpm (10-15% of nominal revolutions), allowing the creation of variable speed applications that are compliant with the latest standards in both the machinery and energy-saving themes.

EMR Motor Benchmark (11 kW @ 1500 rpm)



**Available powers:  
From 2,2 to 90 kW  
(continuous duty S1)**

#### FEATURES:

- ✓ **HIGH EFFICIENCY**  
→ UP TO IE4
- ✓ **HIGH ENERGY DENSITY**  
→ REDUCED SIZE & HIGH TORQUE
- ✓ **NO RARE EARTHS**  
→ BEST VALUE for power COST / PERFORMANCE  
In relation to power
- ✓ **RELIABILITY**  
→ SIMPLE CONSTRUCTION = HIGH RELIABILITY
- ✓ **INTRINSIC SYNCHRONISM**  
→ THE USED TECHNOLOGY ALLOWS SPEED CONTROL EVEN WITHOUT ENCODER

**ON SHOW AT:  
STAND C02 – HALL 22**

## 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

**ON SHOW AT  
STAND C02 – HALL 22**





## 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  
STAND C02 – HALL 22**



## PRODUCT INFORMATION

### DUPLOMATIC MS - DAIKIN IoT/COMMUNICATION

#### Helping factories get ahead with IoT

Apparently factories are running smoothly and efficiently, but behind the scenes there are many redundancies and inefficiencies that can bring down productivity. Daikin aims to solve these issues by offering IoT-connected hybrid systems.

#### How IoT optimises hybrid systems

Process like periodic inspections or changing filters are essential to keep units running at an optimal level. But these processes can be very demanding and waste time and money. Daikin hybrid systems aim to improve these processes with IoT-enabled solutions. With these optimal systems, workers get important operating data to see when a unit requires inspection and diagnose issues before they happen.

#### Perform maintenance checks and update settings

With a host device, users can read diagnostics and edit parameters to reduce downtime and ensure the smooth operation of their units.

Operators have access to status updates and write parameter settings for hydraulic and cooling units.



#### 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.

It complies with regulations.

All models comply with CE standards.

## 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**



**ON SHOW AT:  
STAND C02 – HALL 22**



## 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**



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



**ON SHOW AT:  
STAND C02 – HALL 22**





## DUPLOMATIC 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><b>Duplomatic</b><br/>Industrial applications</p>                               |  <p><b>Hydreco Hydraulics</b><br/>Mobile applications</p>                   |
|  <p><b>Continental Hydraulics</b><br/>Industrial applications for North America</p> |  <p><b>Till Hydraulik</b><br/>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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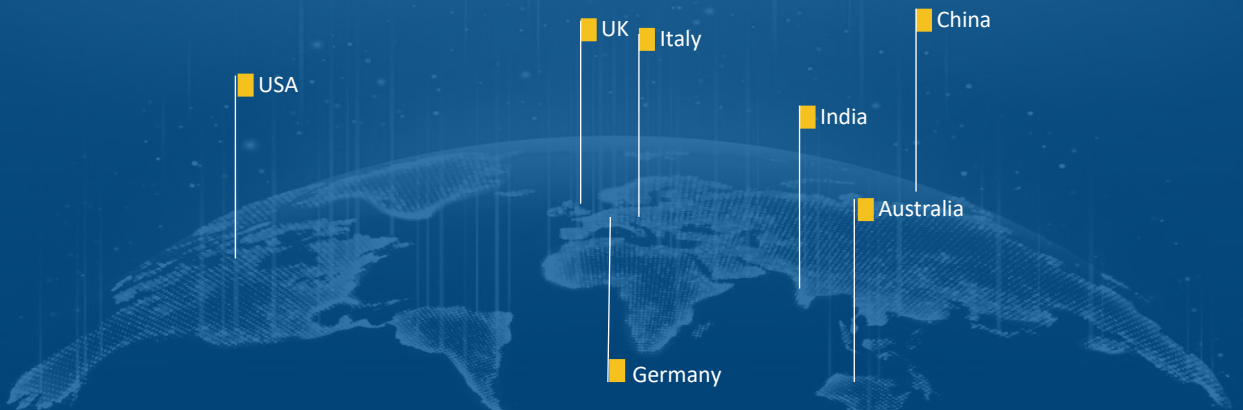
## SMART MANUFACTURING

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.

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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 celebrates 60 years of history.

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



#### ✓ 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, Diplomatic 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**

Diplomatic 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**

Diplomatic 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, Diplomatic'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**

Diplomatic celebrates 70 years of activity  
**DAIKIN**

From July 1st, 2022, Diplomatic 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