

www.italpresse.it



www.gaussautomazione.it







THE GROUP: ONE SUPPLIER FOR LIGHT-ALLOY CASTING



OUR MISSION: SPECIALISATION AND EXPERTISE

We build machines and automatic cells for die casting and gravity casting of light alloys, with a constant focus on excellence, technological innovation, quality production flexibility.

We provide our customers with our 45 years of experience, acquired in the most advanced industries worldwide: since our establishment we have exclusively focused on light alloy high pressure die casting and gravity casting.













1969

Establishment of the company.

1975

Development of the first automatic work cell.

1990

Business development on markets out of Europe (China, Mexico, Brazil and Russia).

2000

Consolidation of the global structure: establishment of branches in China, France, Mexico and USA.

2005

First on the market offering the two platen toggle-free machine.

2010

Consolidation of the positioning of IP as technological leading partner on a global level.

2015

Development of HMe and ECO-FIT.

THE FUTURE

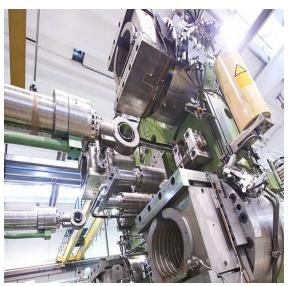
A costant challenge...

OUR HISTORY 45 years of Technology

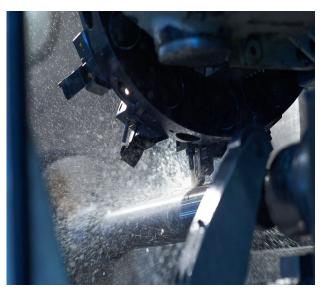


PRODUCTION

Integrated and flexible for the most complex needs.







Automatic Cells
Two Platen Die Casting Machine
Three Platen Die Casting Machine



AUTOMATIC CASTING CELLS

Solutions designed around the customer's actual needs

We supply automatic work cells that integrate all peripheral devices, from the furnace to automatic de-burring machines with the arrangement of pieces ready for machining.

We provide support from consultancy to process design, manufacture, construction or procurement and integration of peripheral devices, including them into production, since we are the sole supplier and company responsible.

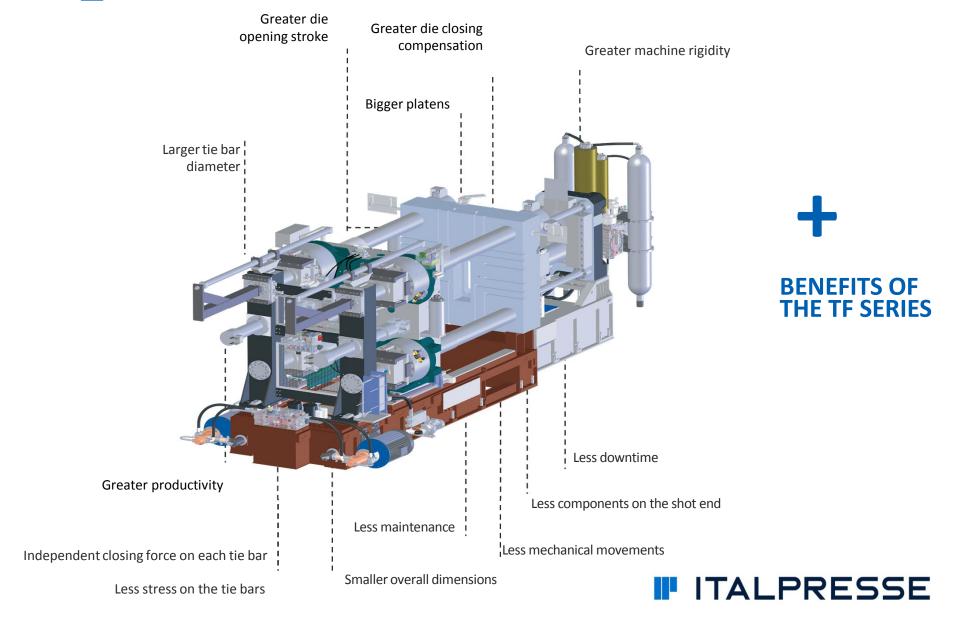
We can assist the customer in a flexible way, with the supply of complete turnkey cells, individual components or only engineering.







TF_TWO PLATEN HPDC Machine TOGGLE FREE



TF_TWO PLATEN HPDC Machine TOGGLE FREE

O1 SPACE

OPTIMISATION

Reduced size given the same closing force compared with toggle machines.

02

MACHINE RIGIDITY

The hydraulically implemented closing force keeps the machine rigid, thereby ensuring greater die closure and, as a result, less rejects.

03

RATIONAL DESIGN

Neat and functional structure, perfectly suited to work in the demanding environment of a foundry.

04MINIMUM
STRESS AREA

The machine can automatically compensate for issues related to die parallelism and their thermal expansion, and adapts to different working conditions.

Minimum stress area and minimum elongation of the tie bars.

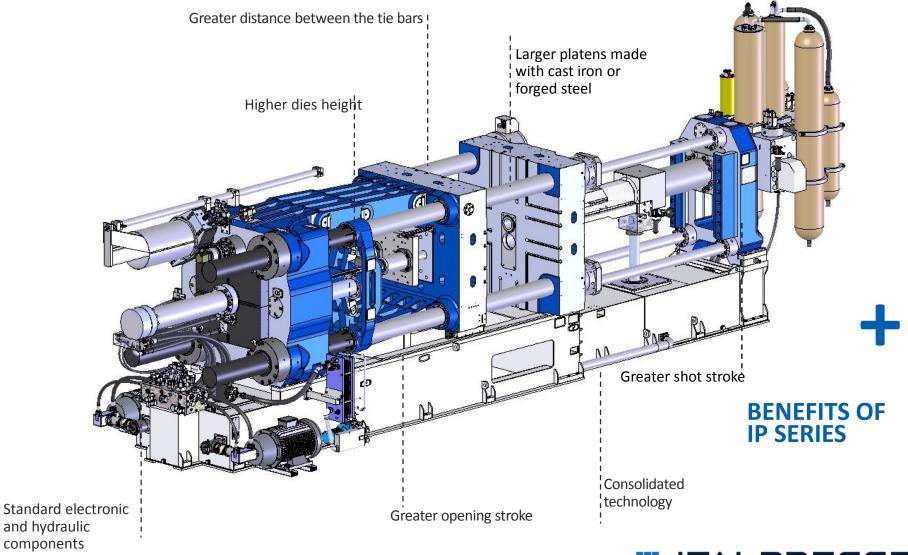
05

RELIABLE AND EASY MAINTENANCE

The lack of the connecting rod system and reaction platen makes the structure leaner, reduces wear on parts and issues associated with play resumption lubrication, resulting in reduced maintenance costs and downtime.



IP_THREE PLATEN HPDC Machine

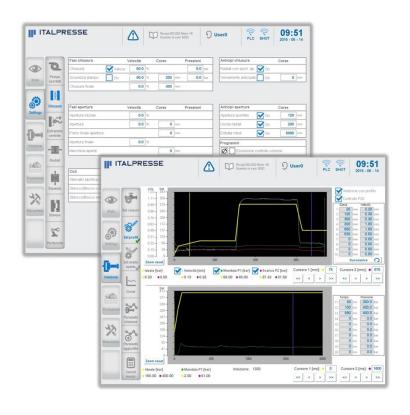




IP THREE PLATEN HPDC Machine

Consolidated technology, improved performance.





HMe

Diagnostics, control and monitoring

Italpresse has developed a new machine supervision and control system. The new HMe is powered by Wonderware, the global leading brand by Schneider Electric for industrial software including HMe and SCADA.

An even more USER FRIENDLY SYSTEM:

- A greater focus on the relevant information.
- A rational new distribution of the information on the pages.
- Less strong colours and improved position of the icons, in order to focus the attention of the user only on the useful information.
- Intuitive and simple steps for moving from a general browsing to a detailed one, with all the information at a glance.

The application is installed on a industrial Pc with Windows 7.

The system keeps the same hardware as before:

- PLC SIEMENS 7 with remote I/O for a simpler and easy to maintain unit;
- safety is managed with Pilz Pnoz Multi, connected to PLC by Profibus





CUTTING EDGE

Constant research and development of applications, materials and processes from hydraulics to electronics, from automation to engineering.

ECO-FIT MODE is a smart system especially designed for the energy saving .Available on the entire machine range, the system allows the high dynamic operation of the machine with the maximum certified reduction of energy consumption, up to 60%.



APPLICATIONS

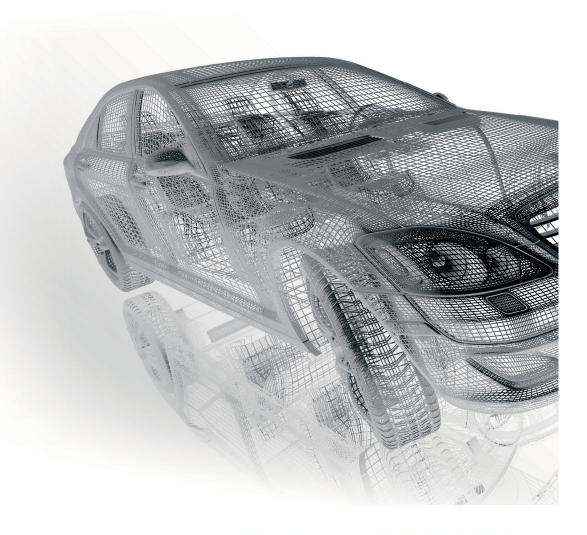
MOTOR COMPONENTS UND SCRUCTURAL CASTII

- Gearbox
- Oil sump
- Clutch housing
- Steering box
- ...
- bodywork and safety components
- magnesium or aluminum alloys
- complex geometry
- · with minimum thickness and wide casting area
- with the option of applying a thermal treatment
- high integrity

Other Industries

we are also suppliers of machine cells for the produc various industries:

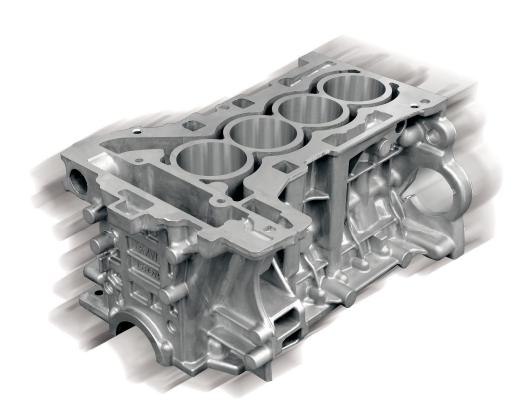
- · Radiators for household heating
- Escalator steps
- Chassis and components for electronic devices
- Telecommunication components
- Household appliances
- Electric motors





PARTNER OF TOP CAR MANUFACTURERS

of Tier-1 foundries and leading OEM manufacturers







OUR HISTORY45 YEARS OF TECHNOLOGY









NINETEEN67

NINETEEN75

NINETEEN89

TWO THOUSAND14 THE FUTURE...

The first working laser in the world is patented

The first home video On 9TH November game was born. On 9TH November the Berlin wall falls

Traces of methane and organic compound have been found on Mars.

A story to be written.

FOUNDATION

Gauss was born, already with a strong technical knowledge of the sector.

SUCCESSFUL SYNERGY

In partnership with Italpresse, development and installation of the **first auto-cells** for die casting: a pioneer in the sector and the world.

THE FUTURE FOR AUTOMATION

Gauss asserts itself as an important Gauss installs its first low pressure supplier of advanced solutions for die casting machine.

automation and gravity die casting. Gauss-Italpresse become a

LOW PRESSURE

Gauss installs its first low pressure die casting machine.
Gauss-Italpresse become a complete supplier of the light alloy foundry with equipment and automation for the three different die casting process: high pressure, gravity and low pressure.

THE PAST CREATES THE FUTURE.

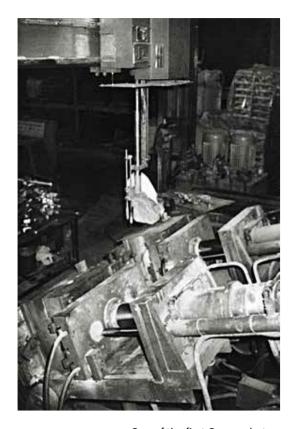
Gauss, thanks to the experience gained in the sector, plays a leading role internationally. It faces the coming challenges by building its future around the research and development of innovative technologies.



SPECIALISATION AND EXPERTISE

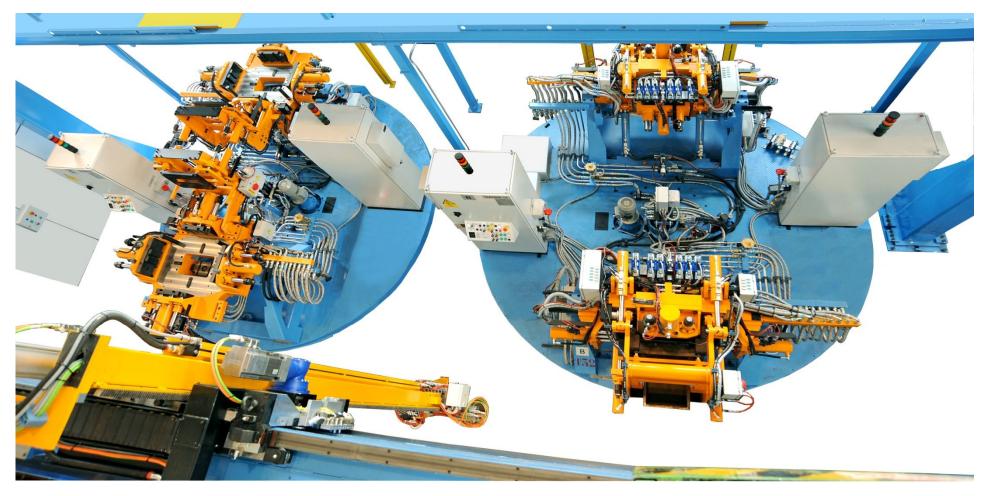
Today, present and active all over the world, Gauss has installed about:

- 900 pouring robots,
- 350 gravity die casting machines,
- 170 gravity die casting cells,
- 350 anthropomorphic robots.



One of the first Gauss robots for gravity casting

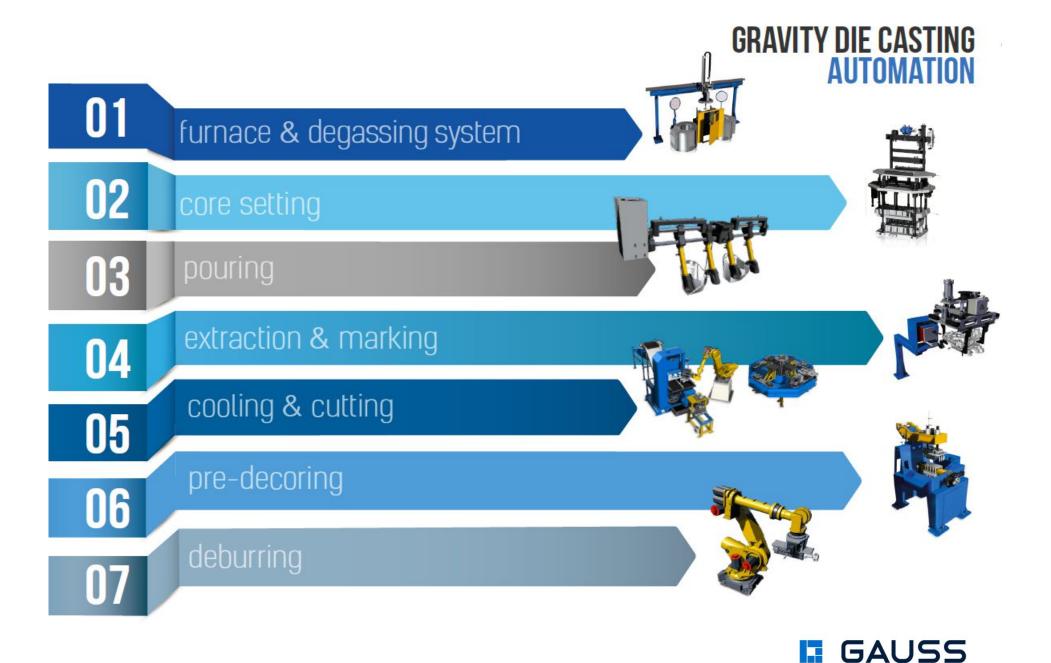




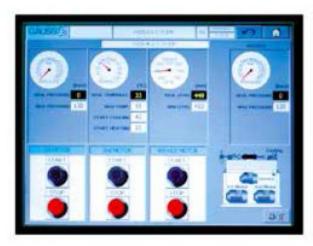
In Capriano del Colle, where Gauss occupies part of the 20,000 sq.m. of the Italpresse plant, 40 people are employed.

One of the company strengths is the technical organizational structure, formed by a qualified and expert team of mechanical and electric designers





SERVICE







RESEARCH & DEVELOPMENT

Mechanical and electric design for various solutions, control/supervision software development.

ENGINEERING

Feasibility studies, installation designs, draft projects: specific applications and turnkey solutions.

TECHNICAL SUPPORT

Mechanical and electrical start-up, industrial start-up, production assistance.

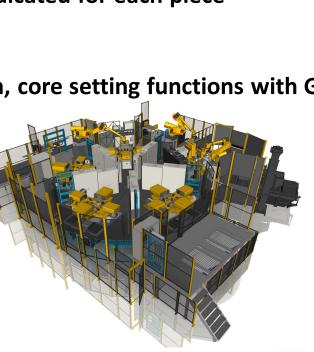
AFTER-SALE SERVICES

Spare parts, technical assistance service, teleservice and consulting.



PRODUCTS

- Gravity die casting machines
- Low pressure die casting machines
- Linear cells or carousels in different solutions and sizes
- Extraction and core setting grippers dedicated for each piece
- Automatic core assembly
- Management of the pouring, extraction, core setting functions with Gantry
 - system or robots
- Sand core and casting manipulation
- Pre-finishing integrated cells
- Control and supervision software

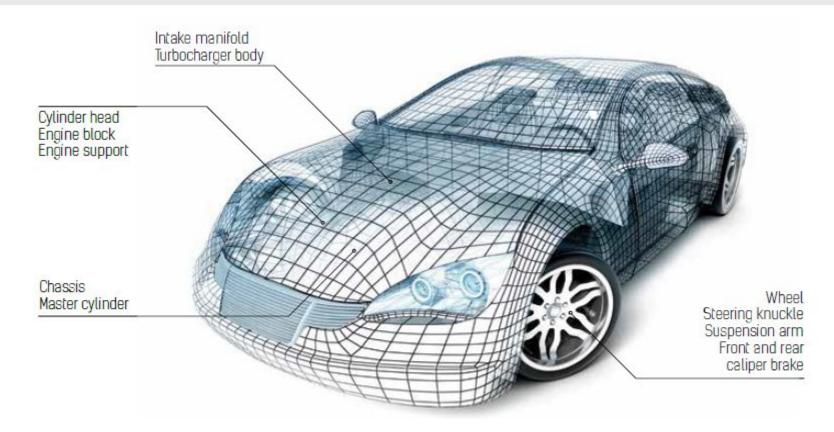




APPLICATIONS

Thanks to its 45 years of experience, Gauss is the ideal partner for aluminum foundries that want to rationalize their production process.

Gauss offers turnkey solutions for the production of complex automotive castings.







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