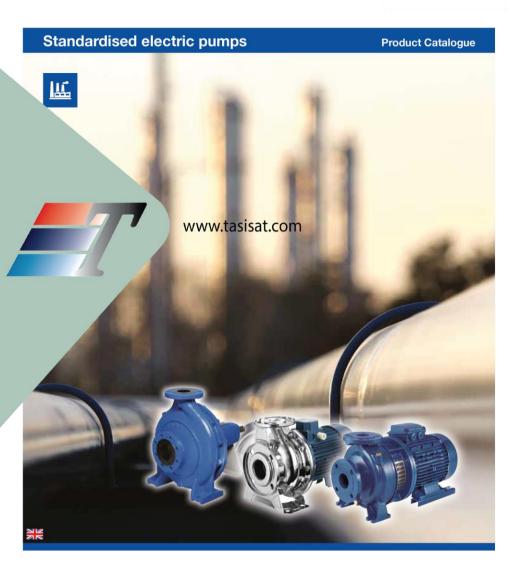
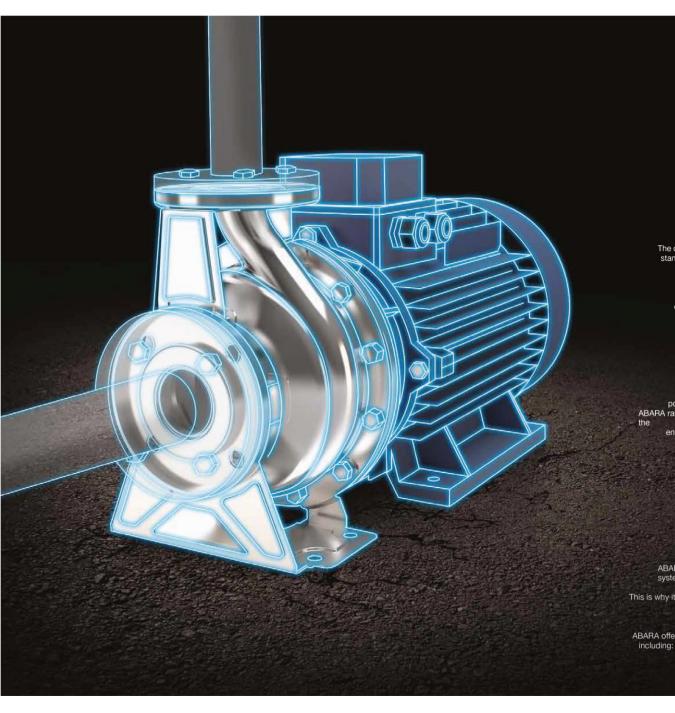
ABARA Pumps





Extraordinarily standardised

The centrifugal electric pumps standardised according to the EN733 standard, with axial suction and radial discharge, are the flagship of the ABARA products.

They stand out for the quality and reliability of the individual components, for the vastness of the range and for the variety of solutions offered.

The motors available for the various models that make up the range are energy efficient 2- or 4-pole motors.

The efficiency and reliability of the pumps is improved by the possibility of using the inverter technology systems present in the ABARA range in different types, for an energy and economic saving of the

entire system and an improvement of environmental sustainability.

ABARA is a fundamental partner for the supply of pumping systems.

This is why it is important to supply not only the electric pumps, but also the complementary products for the system.

ABARA offers a wide range of accessories for standardised electric pumps, including: special seals, variable speed control systems, electrical panels, vessels and floats.



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Different needs, a unique range

Making a range complete means **combining** the different needs of the sectors in which the pumps will be used with **innovative**, **reliable**, **efficient** solutions to operate successfully, even in the most difficult and challenging of conditions.





Hydroforming molding core

High efficiency is one of the main features of the standardised pumps. Not only that, also the quality of the materials, the high performance and the corrosion resistance are among the strong points. To do all this, we focused on the particular production process of the pump body: hydroforming.

This process uses a high pressure fluid (up to 1200 bar) for metal forming. The hydraulic fluid, in our case water, with increasing pressure pushes the stainless steel to copy the shapes of the template until it comes into contact with the internal walls of the matrix that constitutes the mold. Hydroforming, which combines the power of a press with the power of water, has significant advantages over traditional processes: perfectly smooth, highly flowing and without welding points.

These features thus ensure high corrosion resistance, high efficiency with efficiency of over 80% and reduced losses.

For high efficiency and high performance.



CLOSURE The steel disc is positioned in the press



FORMING

The water is injected into the mold at a pressure of 1200 bar



COMPLETION

The water fills the whole mold, thus deforming the steel disc



EXTRACTION

The press is raised and the pump body is formed without welding points.





Sectors and Areas of application

The range of EN733 standardised electric pumps is suitable for different types of use, from industrial applications to irrigation, from air conditioning and heating to washing systems and in all those applications that require reliability and efficiency as well as reduced cost management.



Water supply

For water supply in civil, agricultural or industrial plants



For the pressurisation of water in residential, commercial, industrial and agricultural areas ensuring an efficient water supply



For the creation of fire-fighting groups compliant with the European standard UNI EN 12845



To make available the water necessary for crops



For the creation of washing systems used in industry (car washing machines, dishwashers, cleaning in place, sterilizing in place)



For the circulation of water in air conditioning systems



For the circulation of water in heating systems



Industrial liquid handling in process applications



Swimming pools

For water recirculation of swimming pools or of sports facilities



For the circulation of water required in refrigeration towers



For the emptying of tanks



ΔΒΔΒΔ



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Perfect interchangeability

3D SERIES - MD - MMD

Pump body made of cast iron EN-GJL-250-EN 1561 (fig. 1).

3 - 3L SERIES

The external structure has been tested at a pressure of 14 bar in a sequence of 1 million cycles, reinforced to withstand the stresses and strains of the system, high hydraulic efficiency thanks to the volute obtained by hydroforming.

Pump body made of AISI 304 for 3 SERIES and of AISI 316L for the 3L SERIES pumps, for the 65-250 pumps and the 80-160/200/250 pumps of the 3L SERIES, it is made of AISI 316 micro-cast (fig 2).







ΔΒΔΒΔ

Impeller

Hydraulically balanced to prevent axial thrusts against the seal, it achieves 80% efficiency.

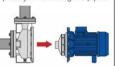
Made of stainless steel AISI 304 for 3 SERIES - 3D SERIES - MD, in AISI 316 for the 3L SERIES - 3D 65, in cast iron for the MMD.



3 - 3D - MD - MMD SERIES

Back pull-out design

It allows removal of the motor, the coupling, the cantilever support and the impeller without compromising the housing of the pump body or removing the pipes.





Motor

2- and 4-pole motors with high energy efficiency

Several options

The many types of mechanical seal that can be mounted on the electric pumps allow the use of special materials and therefore adapt to different needs based, for example, on the type of liquid, the temperature or other factors of use covering, depending on the models, the following temperature range:

- -10°C ÷ 90°C for versions with standard seals
- -20°C ÷ 120°C for versions with special seals

ARARA



Materials available for the impeller

All the GS family models are available with cast iron or bronze impeller to ensure the best solution for various applications.

MODEL GS

Back pull out design and shielded bearings

This configuration ensures disassembly and inspection of the pump without having to remove it from the system piping. Furthermore, the use of shielded bearings eliminates the need to add or replace lubricating oil. This solution facilitates and speeds up maintenance.

Bare axis pump and electric pump

GS models are available both in the bare axis version and in the electric pump version. with motor powers up to 355 kW. The available motors are 2 or 4 poles, 50 Hz, IE3 efficiency, coupled with inverter.

Sealing options

The seal is available in two different versions: • SiC/Carbon/EPDM mechanics for liquid temperature up to 120°C . A packing that guarantees resistance to wear and ensures that the tightness of the entire system is monitored visually

Features of the pump body

Cast iron, complying with the EN733 standard.

The flanges are PN16 (normative EN 1092-1), which makes the GS a suitable product for the heaviest and most challenging of applications.

In order to ensure reliable long-term operation and high hydraulic efficiency (MEI> 0.6), the GS models have two interchangeable bronze wear rings as standard.