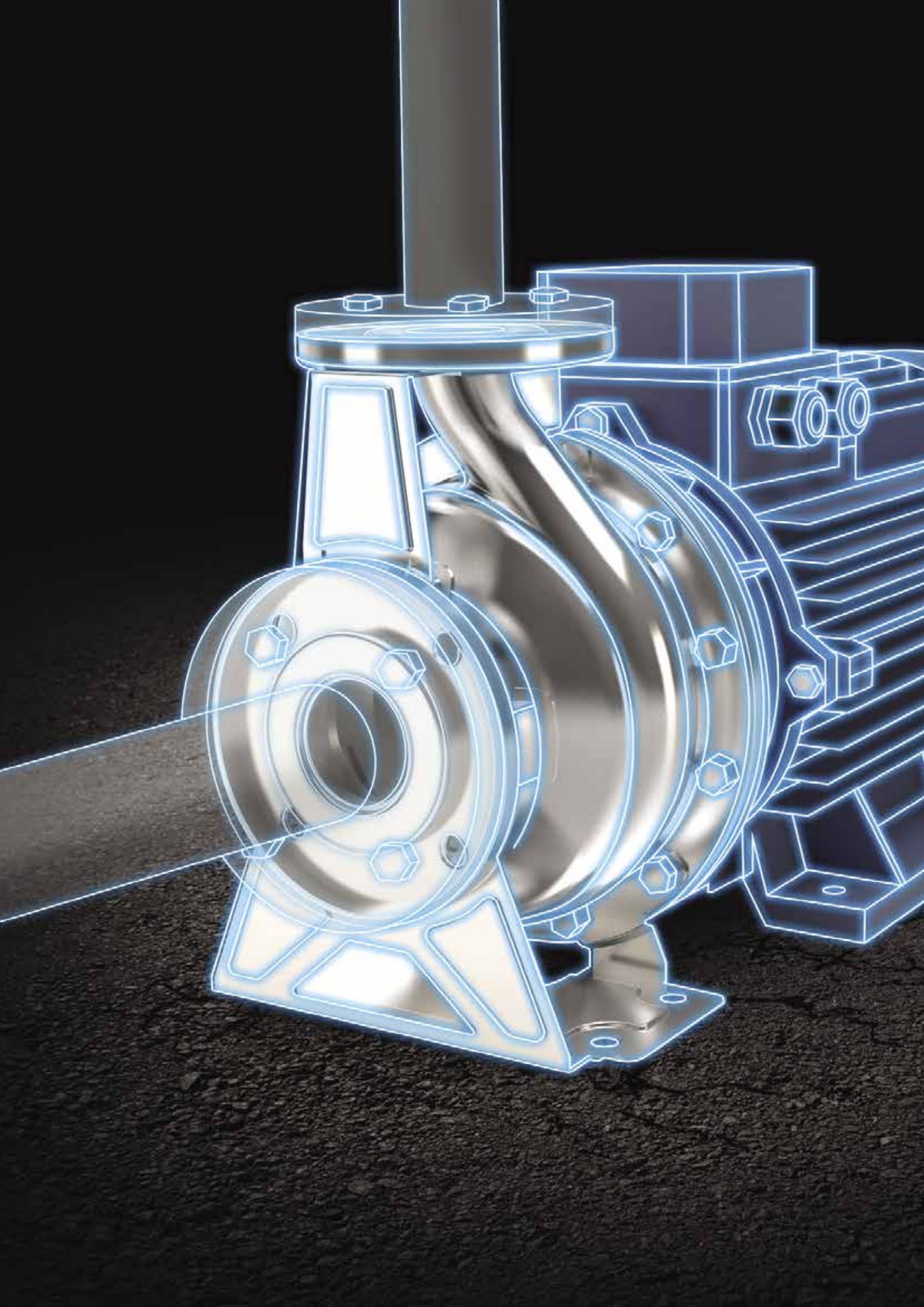
Looking ahead,
going beyond expectations

Ahead Beyond

EBARA

Standardised electric pumps

Product Catalogue



Extraordinarily standardised

The centrifugal electric pumps standardised according to the EN733 standard, with axial suction and radial discharge, are the flagship of the EBARA 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 EBARA range in different types, for an energy and economic saving of the entire system and an improvement of environmental sustainability.

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

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.

The range consists of **3 SERIES**, available in AISI 304 or AISI 316 stainless steel in a monobloc versions, with a rigid joint, with a flexible joint and also in the "Z version" with adjustable foot; then there is the **3D SERIES,** standardised cast iron electric pump with AISI 304 impeller, also available with monobloc motor, rigid coupling, flexible coupling. Completing the 3D SERIES are the pumps of the **MD – MMD** series, monobloc electric pumps with elongated shaft and impeller in AISI 304 steel for the MD, and cast iron impeller for the MMD.
The **GS** electric pumps, that combine the best technical and performance characteristics in a single solution, integrate an already comprehensive range.

The use of different types of materials, the possibility of inserting special mechanical seals and at the same time the amplitude of the guaranteed performances make the standardised electric pumps a winning "team".

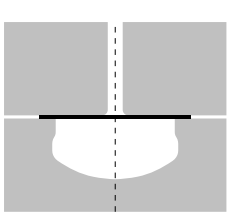
A complete range.

Hydroforming molding core

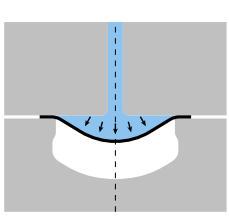
High efficiency is one of the main features of the standardised pumps. Not only that, also the quality of the materials, the high performance and the corrosion resistance are among the strong points. To do all this, we focused on the particular production process of the pump body: **hydroforming.**

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.**

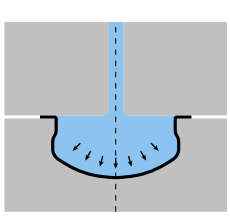
These features thus ensure high corrosion resistance, high efficiency with **efficiency of over 80%** and reduced losses.
For high efficiency and **high performance.**



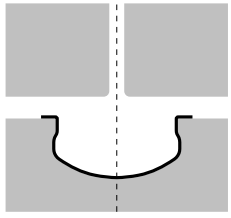
CLOSURE
The steel disc is positioned in the press



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

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

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

Irrigation
To make available the water necessary for crops

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

Air-conditioning
For the circulation of water in air conditioning systems

Heating
For the circulation of water in heating systems

Handling
Industrial liquid handling in process applications

Swimming pools
For water recirculation of swimming pools or of sports facilities

Refrigeration towers
For the circulation of water required in refrigeration towers

Emptying
For the emptying of tanks

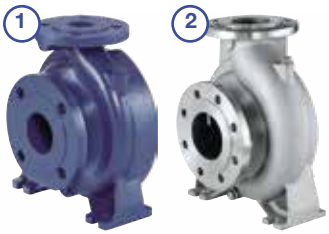
Perfect interchangeability

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).



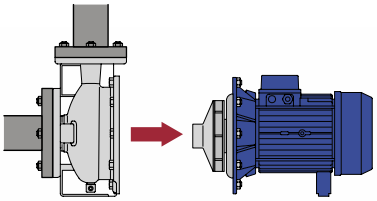
Impeller

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