

Innovative solutions in clear water field

Flexibility,
innovation,
tradition and
production
fully made in Italy
the keys to
success of
SAER
ELETTROPOMPE

Since 1951 SAER ELETTROPOMPE S.p.A. offers innovative solutions in the clear water field, with a complete range of surface and submersible motors and pumps entirely made in Italy, with applications in civil, industrial, marine, firefighting, water supply, mining, heating and cooling, municipal, Oil & Gas, reverse osmosis, agriculture, irrigation and many others. Differently from other companies that have relocated production plants to Asian Countries, the entire production SAER is centralized in five factories in the province of Reggio Emilia (North of Italy). This was dictated by the need to



Fig. 1 NCBK: bare shaft pump exceeding the norm EN 733

offer a high quality standard, dedicated to efficiency and Made in Italy philosophy, with full control over the products quality, starting from the detail to the finished machine.

With a developed sales network in over 120 Countries around the world, SAER also has partnerships in Belgium, Ukraine, Middle East, Malaysia, Chile and soon in UK and Poland. Flexibility, research and development, know-how of over 60 years of experience, full automation of the production process and collaboration of highly qualified personnel are the key elements of SAER success, which is still a family owned Company.

COMPANY

Five Company for full made in Italy production.

Headquarter: in the Research and Development laboratory a team of engineers develops innovative solutions using the latest software. The production

is checked to ensure optimal results in various conditions inside the testing room, equipped with six lines (up to 2400 m³ / h to 300 kW); test certificates provided on

Fig. 3 SM: ballast pump. On the background: testing room in the headquarter



request. In addition to these checking, every product is tested at the end of the assembling line, ensuring reliability. Further to that, Quality Control (fig. 8), operational offices, processing and assembling of submersible and surface pumps and motors

through fully automated lines (fig.7), complete the picture of the plant (production area: over 22,000 m² covered).

Submersible motors plant: motor production from 4 "to 12" oil or water filled, in cast iron, stainless steel AISI 316 and 304, bronze, carbon steel and DUPLEX (fig.4). Over 7500 motors produced and tested on a monthly basis; automatic machines, for the motor winding,

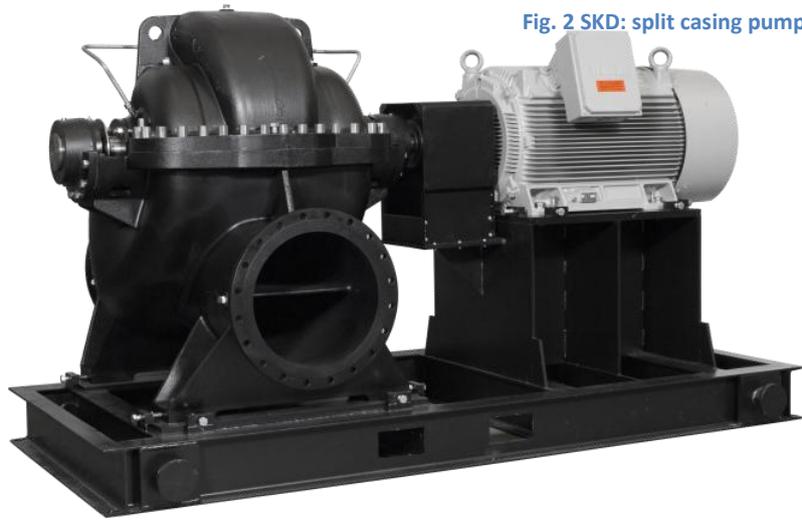


Fig. 2 SKD: split casing pump

assembling and testing. Production of submersible monobloc pumps, MBS. State of the art testing room, testing pumps up to 5000 m³ / h, 500 kW (fig.5).

Plant for the Split Casing and Multistage pumps production: area for automated quality control, assembling and finishing



Fig. 4 CL: oil filled motors

split casing and multistage pumps.

Shaft plant: daily production of over 2500 shaft for SAER pumps and motors. Plant equipped with high-tech machines for the details quality control.

Winding plants : complete realization of the stators and windings for water filled submersible motors.

In addition to the manufacturing plants, SAER has a warehouse of raw materials, semi-finished and finished products, unique in the panorama, thanks to which it is able to guarantee as average delivery times 2 weeks. For this reason, as well as for flexibility and quality, SAER has been chosen by many OEMs, Statal corporations, and in over 120 countries around the world.



Fig. 5 Split casing SKD and in the background the testing room in submersible motors plant

PRODUCT NEWS

SAER presents the latest range of pumps and electric pumps, split-casing SKD, bare shaft pumps NCBK exceeding the norm EN 733, and ballast pump SM series.

Conceived and produced completely in SAER factories, the **SKD** split casing SAER (fig.1 and 5) reach capacity of 5000 m³ / h and 21 bar of head. Maximum power

cause cavitative erosion. The pump body, double volute, eliminates the radial force, reaching high flows. Each component has been studied and optimized with internal prototyping systems. The result is a reliable and high efficiency product (up to 90%), the results of which are in line with the theoretical ones obtained during the design phase, presenting low cost of service and maintenance

many more, thanks to the choice between 3 different metallurgy (cast iron and bronze; impeller available in AISI 316 too) which makes it possible to use in different contexts and with different liquids. Packing or mechanical seal, bearings (lubricated with grease or oil on demand) provided for work of more than 100,000 hours and double wear rings.

NCBK (fig.1) it is the newest range of bare shaft pumps, end-suction, with dimensions exceeding EN733 norm; design and construction entirely MADE IN ITALY. Ideal for applications such as recirculation systems and heating, cooling, for heat recovery, water supply systems, fire pumps and booster sets. The series includes nine families: 150-500, 200-315, 200-400, 200-500, 250-315, 250-400, 250-500, 300-400, 300-500 and up to come the 300-315. 4 or 6 poles, available in cast iron or steel AISI316. NCBK presents excellent results, both in efficiency and performance, in terms of delivery and head (Q max: 2200 m³ / h, H max: 95m).

Thanks to the flexibility that distinguishes the

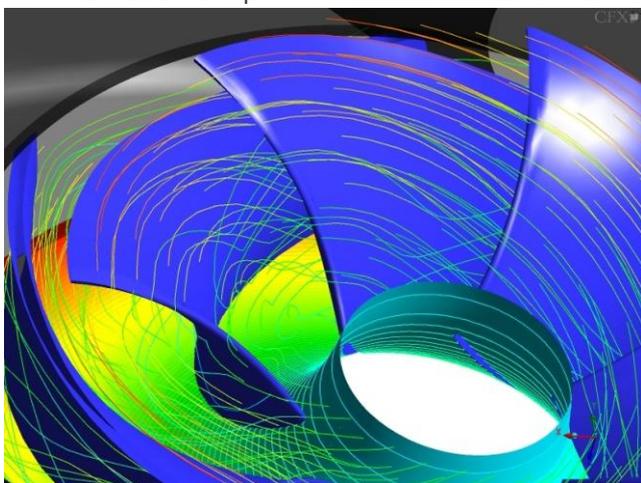


Fig 6 Study with CFD softwares

1200 kW, available in either 50 or 60 Hz, from 2 to 8 poles. Hydraulic systems designed entirely with CFD softwares: the fluid dynamics analysis has allowed to work on the blades and volute in order to get a high standard, with low NPSH and no areas of depression that would

(minimum radial thrusts on the shaft, minimum wear of components) and low maintenance over time. The SKD SAER are ideal for circulation plants, heating and air conditioning, heat recovery, water supply, fire-fighting groups, irrigation systems, water treatment plants and



Fig 7 Fully automatized plants

Company, SAER is able to design and produce in a short time even products on demand, then integrating them in its wide range. That's the case of the ballast pump, **SM** series (fig.3), pumps that are used primarily in the marine industry, to empty dry docks, civil, oil & gas and mining. Up now SM can be realized up to 10" (400 m³ / h, 95 bar, 170 kW). Materials available: AISI 316 and marine bronze G-CuSn10.

and 6") and water filled ones (6" to 12"), horizontal and vertical multistage pumps (from 0.75 kW to 500 kW), split casing and ballast pump, booster sets and domestic pumps. Everything is available in different metallurgies (cast iron, carbon steel, 316 stainless steel, bronze, DUPLEX, etc.) for an ample application range.

For any further detail may you require please feel free to contact us at info@saer.it, or visit our website www.saerlettropompe.com



Fig 8 Machine for dimensional control

The SAER range includes normalized pumps according to EN 733 and pumps exceeding the norm, available in different types (monoblock, stub shaft or bare shaft) up to 2200 m³ / h, electric submersible pumps from 4 " to 14", radial or semi axial, oil filled submersible motors (4"

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