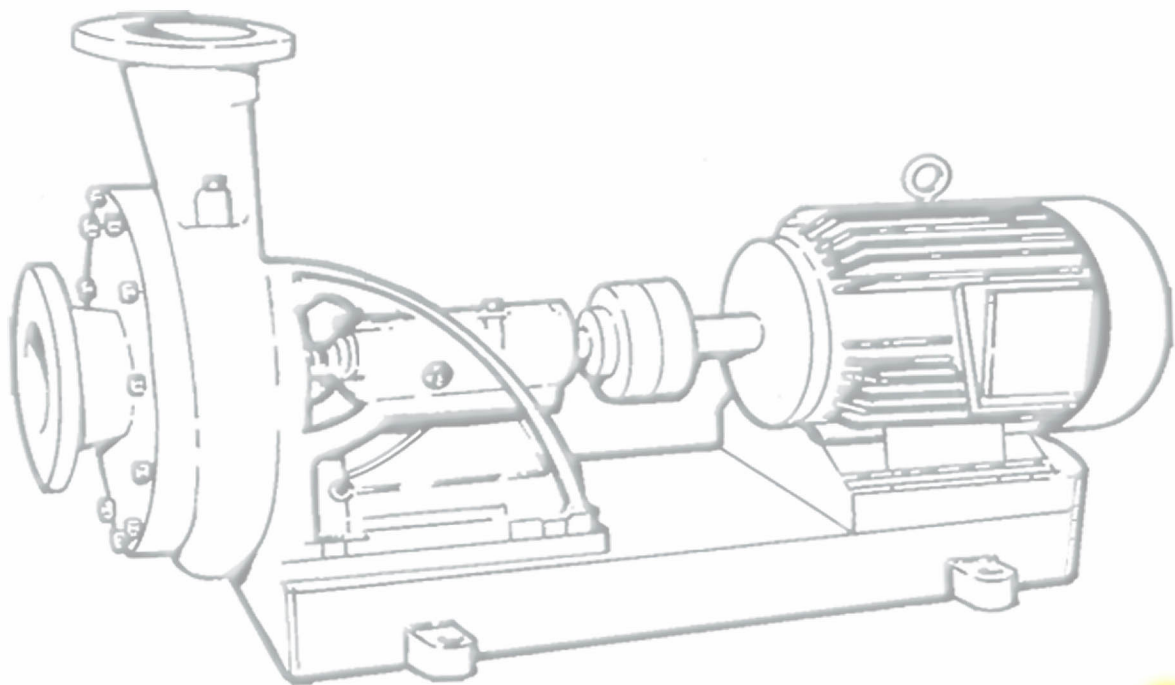


Service of Electric Machines and Water Pumps

ABC Elektroservis



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We get things moving...

Company profile

The company ABC Elektroservis is specializing on the service of rotating and stationary electric machines and water pumps. Over 20 years we are trying to provide quality and reliable service in order to satisfy the needs of our business partners.

Our main scope of activity is the repair of electric motors and water pumps for industrial companies within the region of Western Slovakia. We also provide warranty and post-warranty service for the producers and distributors of electric machines. In fact we repair the electric machines for many other services of water pumps, which found it easier and more comfortable to outsource this task to us.

The machines brought into the service are cleaned, repaired, tested and finally painted. Our aim is to achieve that the difference between repaired machine and the new one is the lowest possible.

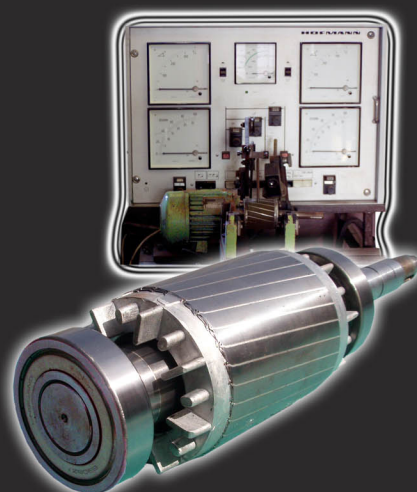
Our labor force is the combination of senior staff and juniors, what brings both the necessary experience and eagerness required for high flexibility and future expansion. We simply get things moving...

We see the key to success in global flexibility, modern market philosophy and just-in-time operating. This approach requires continuous modernisation and development with no space for falling behind.

That is why we conduct and support also research activities with the cooperation of Department of Electric Machines and Devices of Faculty of Electrical Engineering and Information Technology of Slovak University of Technology in Bratislava. The goal is to keep up with modern technologies, to shorten the repair time and to increase the machine's efficiency and reliability. We perform applied research projects of *Rotor Cage-Winding Defectoscopy* and *Computer Aided Diagnostic of Electric Machines*.



Service of Electric Machines
and Water Pumps



Service of electric machines

We provide service and maintenance for wide spectrum of electric machines, especially for the asynchronous motors with squirrel-cage winding, which are the most widely spread electric motors in the industry.



We provide service for :

- ▶ Asynchronous electric motors (squirrel-cage, wound rotor)
- ▶ Synchronous motors with permanent-magnet excitation (cylindrical and disc type rotors)
- ▶ Synchronous reluctance motors
- ▶ Transformers
- ▶ Other types of electric motors after agreement (AC generators, dynamos, DC motors, etc.)

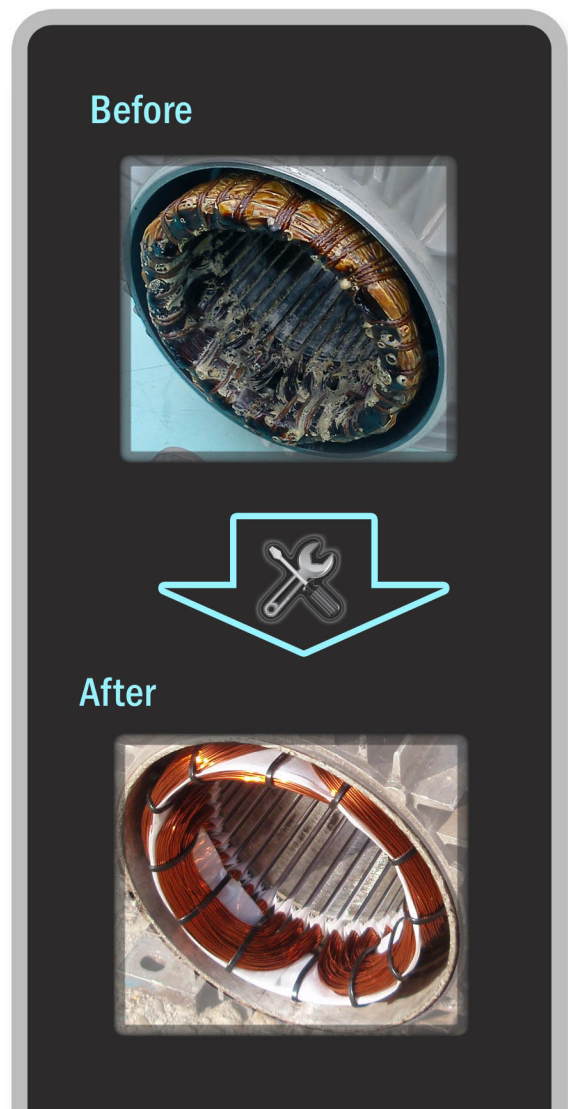
The standard power range of repaired machines is 0 - 55 kW for both single and three phase machines. Bigger and special (polyphase) machines, which require individual approach can be repaired after agreement as well.

The standard procedure of repair includes the following steps :

- ▶ disassembling of the machine
- ▶ cleaning and mechanical repair
- ▶ rewinding
- ▶ high-voltage tests of insulation states
- ▶ varnishing and warm-drying of the winding
- ▶ assembling of the machine
- ▶ functionality tests in no-load state

If necessary the following additional tasks are performed to assure the perfect functionality of repaired machine :

- ▶ balancing of the rotor
- ▶ spectral analysis of mechanical vibrations
- ▶ thermal analysis
- ▶ measuring of the rotor cage-winding bars
- ▶ functionality tests in load state
- ▶ sand-blast cleaning
- ▶ painting of the motor casing



Service of water pumps

The cause of malfunction in water pumps can be of mechanical or electrical origin. The repair of electric part usually includes the rewinding of the motor. The reparability of the mechanical set depends on the damage and on the availability of required spare parts.



We repair the following types of water pumps :

- ▶ sewage pumps
- ▶ centrifugal spiral pumps
- ▶ rotary screw pumps
- ▶ hot-water circulation pumps
- ▶ submersible pumps

We are able to repair water pumps within the power range of 0 - 55 kW including submersible motors in common. Other water-pump applications can be repaired after agreement.

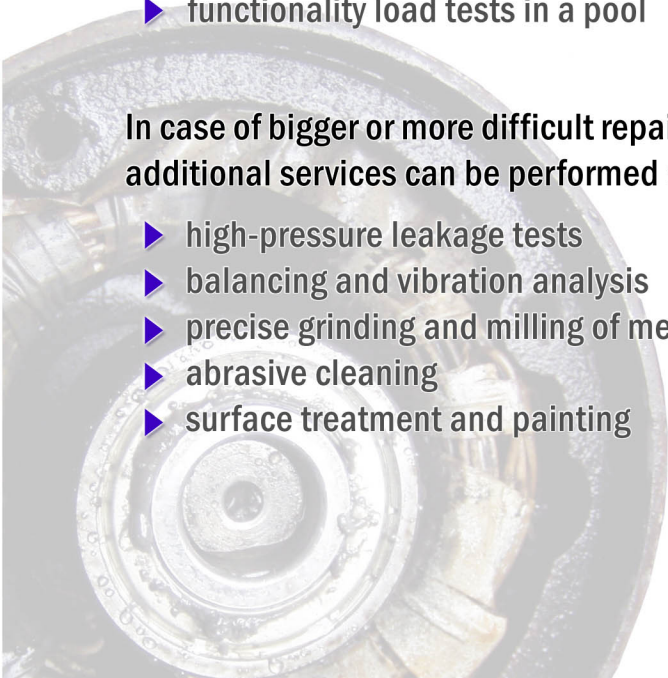
The standard repair procedure of a water pump includes :

- ▶ disassembling and mechanical cleaning
- ▶ determination of the cause of the failure (photo-documentation)
- ▶ rewinding of the motor (if necessary)
- ▶ mechanical machining and repair
- ▶ high-voltage tests of insulation states
- ▶ functionality load tests in a pool



In case of bigger or more difficult repairs the following additional services can be performed :

- ▶ high-pressure leakage tests
- ▶ balancing and vibration analysis
- ▶ precise grinding and milling of mechanical parts
- ▶ abrasive cleaning
- ▶ surface treatment and painting



References :

After 20 years of successful development and expansion we have established a firm position on the Slovak market. We provide service and maintenance of electric machines and water pumps for many of the most important companies in western part of Slovakia :

AB-Správcovská, Bratislava
AGRÁRIA, Šaľa
AQUAFLOT, Nitra
BARCA, Nitra
BELUMI - PUMPY, Nové Zámky
BYDOS, Vrábľa
BYTOKOMFORT, Nové Zámky
BYTOVÝ PODNIK, Šurany
ENERGO BYTOS, Šahy
FKN, Nitra
J C P, Štúrovo
JEDNOTA, Nové Zámky
KR PaZ, Nitra
KRAJSKÝ ÚRAD, Nitra
LEVMILK, Levice
MAS, Prietržka
MAXTRA CONTROL, Šaľa
MENERT-THERM, Šaľa
MIVA, Nitra
MLYN, Šurany
NITRIANSKA TEPLÁRENSKÁ SPOLOČNOSŤ a.s., Nitra
NsP, Levice
NsP, Nové Zámky
OSRAM SLOVAKIA, Nové Zámky
P.D., Kolárovo
PPC ČAB, Nové Sady
POVODIE VÁHU, Nitra
RIBE SLOVAKIA, Nitra
ROFFELSEN PLASTICS, Šurany
ROTAS, Šaľa
S-ARMAT, Šaľa
SLOVDAE, Bratislava
SYNECTA, Šaľa
TECHNOTRADING, Bratislava
TEKOMTHERM, Komárno
VÚSAPL, Nitra
VYDOS, Horné Saliby
WTC AGRI, Šaľa
ZS VODÁRENSKÁ SPOLOČNOSŤ, Nové Zámky
... and many others.





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