

BEVI – specialists in energy efficient
drive systems and power generation



BEVI

Welcome to BEVI's world

Founded in 1931, BEVI is one of the Nordic region's largest companies working with electric drives and power generation supporting a wide range of applications and industries. Electric motors is our core business and we are always at the cutting edge in terms of product development and quality of energy efficient drive systems.



BEVI's head office is located in Blomstermåla, 40 km north of Kalmar in Sweden. Here you also find the central warehouse, production and one of the country's major service workshops for electric machines.



We create motion and power for all needs

BEVI offers a comprehensive range of electric motors, transmission devices, power electronics, coil winding material, starter equipment and services. Our stock, many supplying partners and own production facility allow us to quickly develop and produce drive systems for all environments, even for the most demanding conditions.

Own companies and partners

We are active in Sweden, Denmark, Norway, Finland, Lithuania, Estonia and China mainly through our own companies, but also through distributors. It provides good, local contact and good accessibility.

There are local variations in our offer but overall the BEVI group offers a comprehensive range of electric motors, generators, transmissions, power electronics, coil winding material and starting equipment. We also perform service on electrical machines up to 20 metric tons.

BEVI is part of Addtech, a Swedish publicly listed technology trading group comprising of 130 independent companies that sell high-tech products and solutions to customers in around 20 countries.

Through Addtech, we have financial strength and several sister companies that we are happy to cooperate with.

Complete offer and efficiency

Effective processes and reliable products are not the only parameters that form the basis of BEVI's offering. We also manufacture special adaptations and perform qualified service.

To meet the customers' need for technical support and good logistics, we have developed an efficient organization of about 90 employees who have the capacity and knowledge to take care of the entire range, regardless of industry.

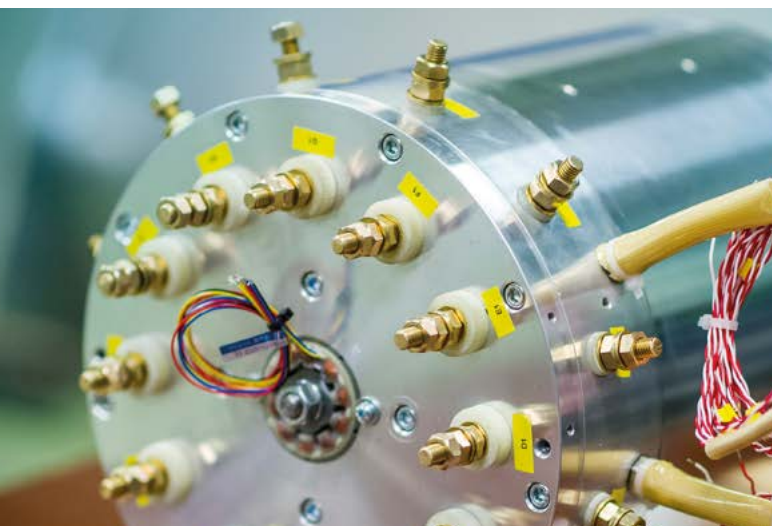
Ninety years of history

BEVI was founded in 1931 in Blomstermåla by Edvin Petersson, then under the name "Edvin Petersson's Electric Agency".

Today only the name BEVI is used, an abbreviation of "Blomstermåla Elektro Workshop and Installation agency" which was used from 1940.

Facts

- Turnover ca 40 million €
- Founded year 1931
- 6 offices i the Nordic region and China
- BEVI AB is certified according to ISO 9001 and ISO 14001.
- A part of Addtech, a Swedish publicly listed trading group comprising of 130 companies with 2900 employees in total.



This is what it looked like in the 40's and 50's when BEVI supplied and installed its products.

Innovative and custom made drive systems

Finding the best solution for your particular needs gives us energy and drive. A wide range of products, services, production capabilities and expert knowledge creates the best conditions for creating the most efficient, most energy-saving or most cost-effective solution. All depending on what is most important for each and every customer.

We like the challenge to work with drive systems as a whole, to find the best overall solution in close co-operation with our customers. That's when our competence come to full use.

Our flexible way of working allows us to easily adapt to different customer needs.

You as a customer should be completely satisfied when doing business with us. That is a general rule, a goal we work towards every day.

Besides custom made solutions we also offer standard products. Of course you can purchase an electric motor from us, straight off the shelf! When

you know what you need, it should be quick and easy to do business with BEVI.

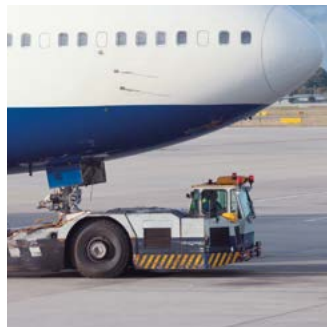
Welcome to tell us about your needs and challenges, and we will work out the best solution for you.



BEVIs wide range of products, services and competence.

Solutions for all needs in many industries

BEVI's customers are located in a variety of industries worldwide. Large and small companies turn to us for our expertise in electric drive systems and power generation, even for the most demanding applications and environments. Below is a selection of industries we work in.





BEVI is working for a sustainable future

We drive the development towards a more sustainable world and help our customers to develop innovative, energy-efficient solutions to achieve a smaller footprint. The work on matters related to the environment, ethics and quality is an integral part of our strategic and operational activities.

As all companies within Addtech, BEVI aims to drive sustainable business. Through continuous improvement, we work to meet the market's demands for reliability, delivery reliability and quality. We continuously develop our business with products and solutions that match or exceed customer expectations.

We strive to provide more environmentally friendly products and services to prevent pollution by, among other things, limiting the use of chemicals, economizing on

resources and working with transport optimization. In this way, we create a more sustainable development for present and future generations.

“Our long-term sustainability work focuses on financial, social and environmental responsibility.”

With the group's code of conduct as a base, we also have a sustainability thinking in terms of working condi-

tions, the environment and ethics. This creates added value for our customers, suppliers, employees and the society we operate in. We also work with our business partners to achieve positive changes and encourage them to follow our code of conduct.

Each year, the results of the group's sustainability work are reported. Some of the subject areas reported are energy use, climate impact, staff turnover and employee health and safety.



Environmental and quality certification

BEVI AB has a quality management system that is certified according to ISO 9001 and ISO 14001.

The quality and environmental management system has been reviewed by Intertek Certification AB and comprises development, manufacturing, service and sales of electrical machines with peripheral equipment.

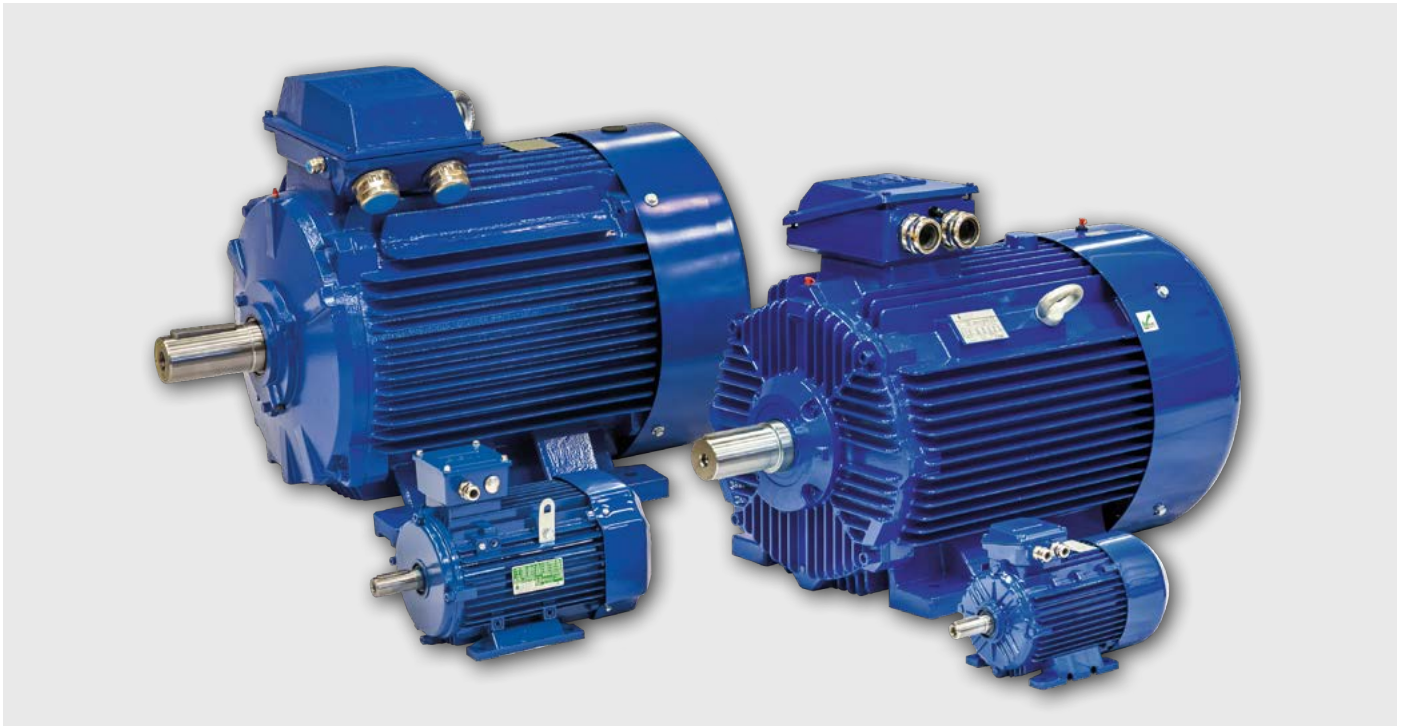


Energy savings

Frequency inverters save energy when used with electric motors.

Depending on the use, annual energy savings can amount to as much as 20-30%.

How much energy can we save for your operation?



A selection of our electric motors. See the full range on our website.

Electric motors

BEVI specializes in high quality energy-efficient electric motors. The combination of the best available materials, high quality sheet metal and the right amount of copper in the rotor/stator makes BEVI's electric motors highly energy-efficient. We design our electric motors to fit and match our customer's requirements at our production site. The electric motors can be supplemented with a range of options and accessories or modified with a special design to endure any environment.

3SIE and Sg electric motors

3SIE and Sg are based on the classic BEVI motor that we have delivered in the Nordic market for over fifty years. These IE3 motors are made in aluminium in sizes 56–132. Sizes 160–315 are made in cast iron.

4A/3D IE3 electric motors

The 4A/3D motor range comes with removable feet on the aluminium models. Sizes 160–400 are made in cast iron.

Marine electric motors

BEVI electric motors are available for many applications within the marine industry. We fulfill the requirements of leading classification societies.

Single phase motors

BEVI single phase motors are available in many different versions, including UL/CSA-approved and IE3 versions.

Brake motors

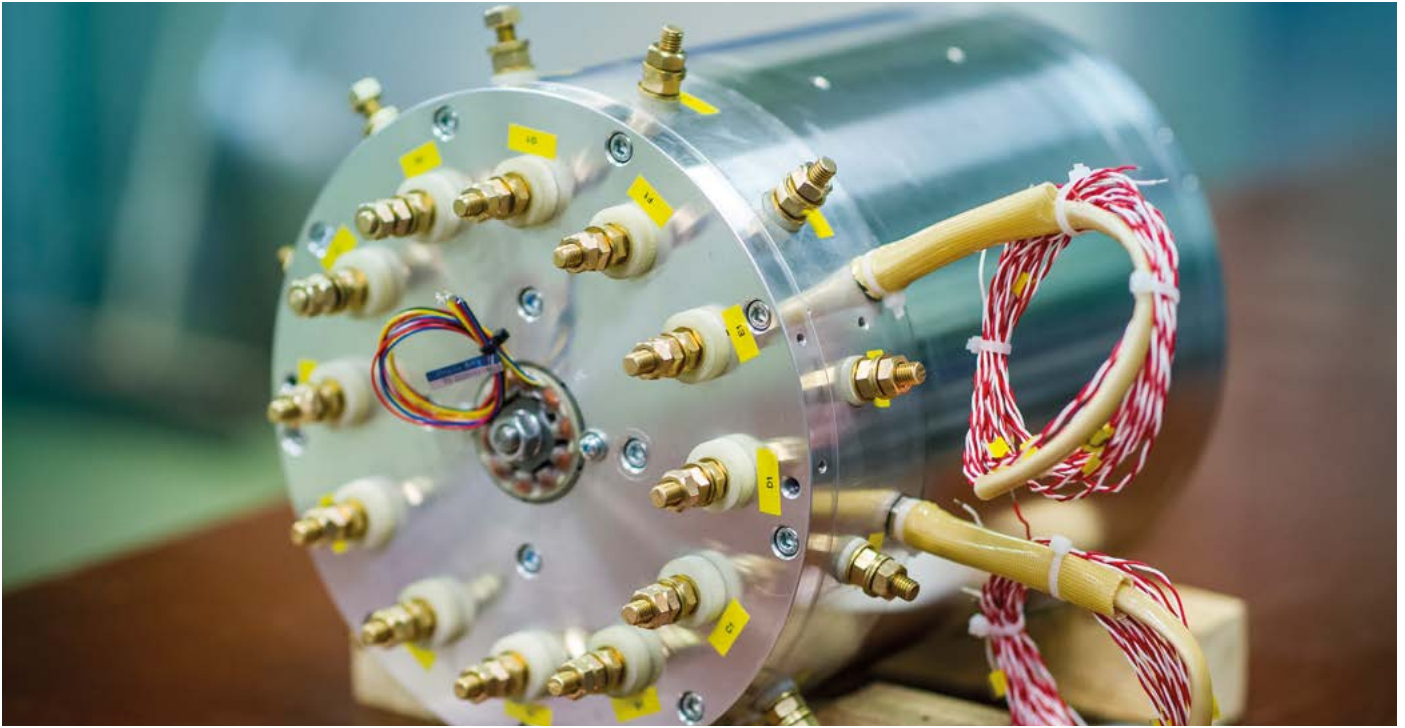
Our range includes electric motors with both AC and DC brakes with short delivery times.

Wood-drying motors

BEVI's wood-drying motors are designed to meet tough requirements and high ambient temperatures. Thus they have a long service life.

Ex-motors

BEVI provides ATEX and/or IECEx approved Ex-motors. Our close cooperation with leading companies around the world allows us to offer the widest range possible.



A selection of our special motors.

Special motors

In cooperation with our customers BEVI develops special motors for a whole range of applications, from small narrow motors for vibrating rods in concrete mixers to powerful and shockproof motors. We also develop electric motors for electric and hybrid drives on vehicles.

Example of special motors

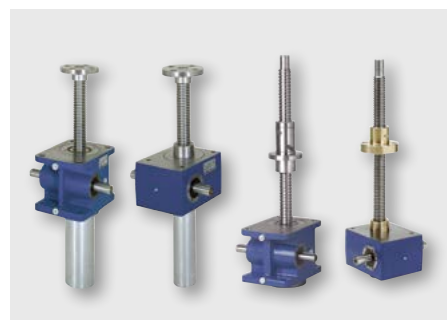
- Electric motors for a high ambient temperature
- Electric motors with water-cooled shafts for furnaces etc.
- Shockproof electric motors up to 48 G
- Submersible motors
- Insulated bearing arrangements
- Electric grinding spindles, including high speed

Wound stator and rotor packs

Wound stator and rotor packs made in our workshop, or in collaboration with our standard motor factories, offer our customers flexibility and short delivery times.

Vibration motors

As standard BEVI's vibration motors are manufactured for power outputs of 0.25-3.00 kW with many different speeds and voltages. They can also be made with foot-mounting or in explosion-proof design.



A selection of transmissions and jacks. See the full range on our website.

Transmissions and jacks

Our long experience and collaboration with other manufacturers allow us to offer one of the most comprehensive ranges on the market. The drives are also available in ATEX design. Short delivery times combined with flexible production allows us to produce special variants quickly.

MAS gearboxes

The MAS series has high efficiency, small size and competitive pricing which make this product a best-seller. The series is available as in-line helical gearbox, parallel shaft design, shaft-mounted gearbox, bevel gearbox and worm gearbox.

WG20 gearboxes

The WG20 series is available up to energy class IE3 with dimensions for standard mounting and certification for global use. WG20 has high efficiency, reliability, long life time and requires less maintenance. The benefit is lower life cycle cost and high availability.

Ex gears

ATEX approved worm gearboxes, and gearboxes in both aluminium and cast iron in accordance with II 2GD. Ex version gearboxes can also be supplied as complete units fitted with Ex motors.

Aluminium gearboxes

BEVI stocks a complete range of high performance, low weight aluminium gearboxes and worm gearboxes. The gearboxes are designed as a modular system, resulting in short delivery times and competitive prices.

Jacks

Jacks are available in a trapezoidal and ball screw design as well as linear units.



A selection of products for automation and control. See the full range on our website.

Automation and control

BEVI markets and stocks a wide range of frequency inverters and servo drives. The range includes HMI screens, PLC systems, power supply units and soft starters.

Frequency inverters

Our wide range of high quality frequency inverters can include a complete package deal with installation according to the customer's requirements.

Soft starting equipment

Our soft starter gives the market what it wants and can be encapsulated according to customer requirements.

HMI, PLC and Power supply units

Small HMIs and large colour monitors with touch screens. Modular (slim) PLCs and high performance process controllers. Power supply units 5/12/24/48 VDC for supply voltages of 1x230 VAC and 3x400 VAC.

Frequency inverter motors

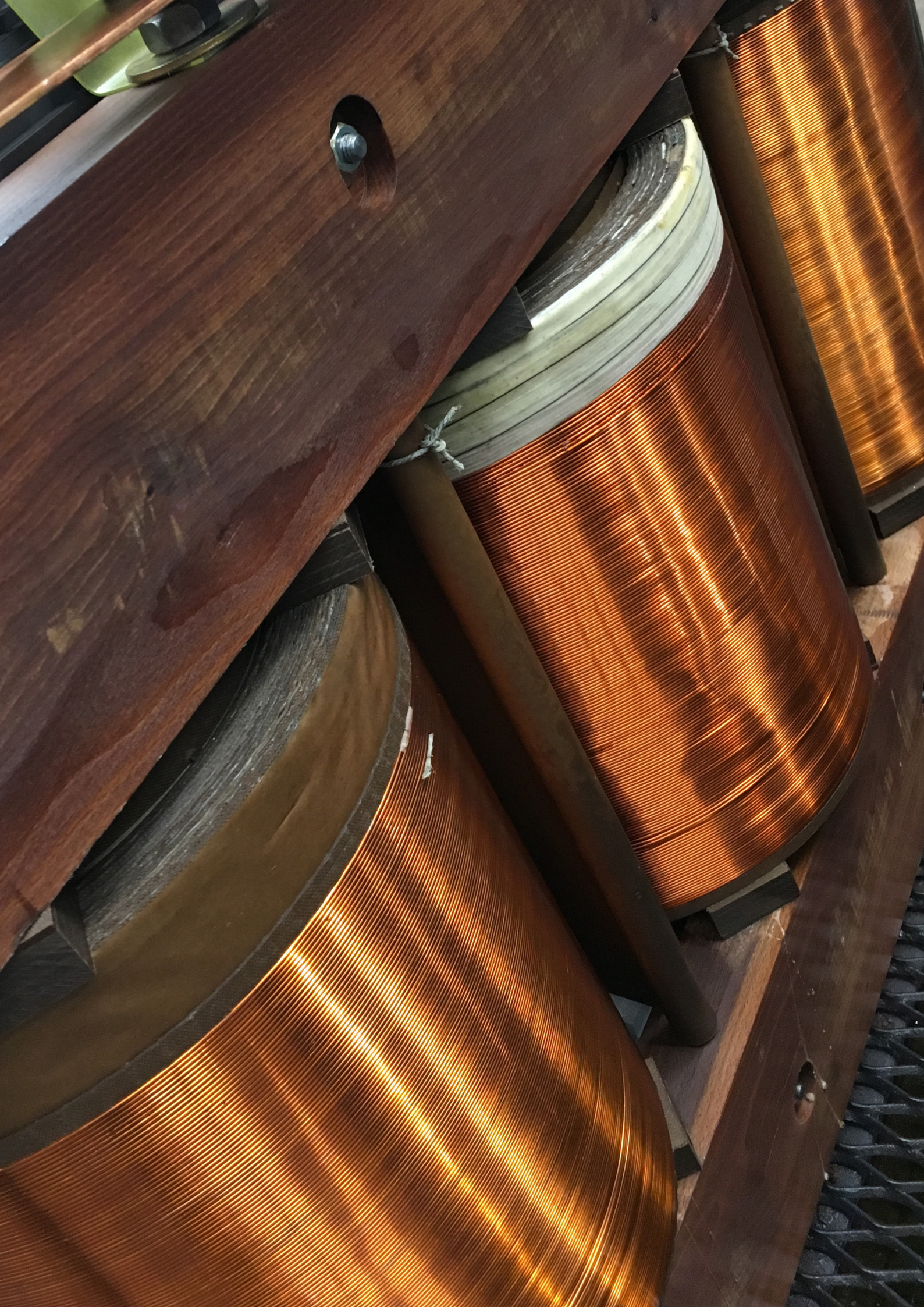
We offer frequency inverter motors for constant torque, as well as pump and fan controls.

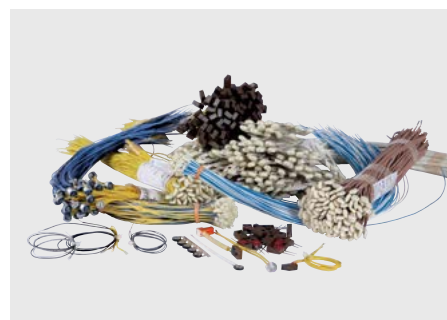
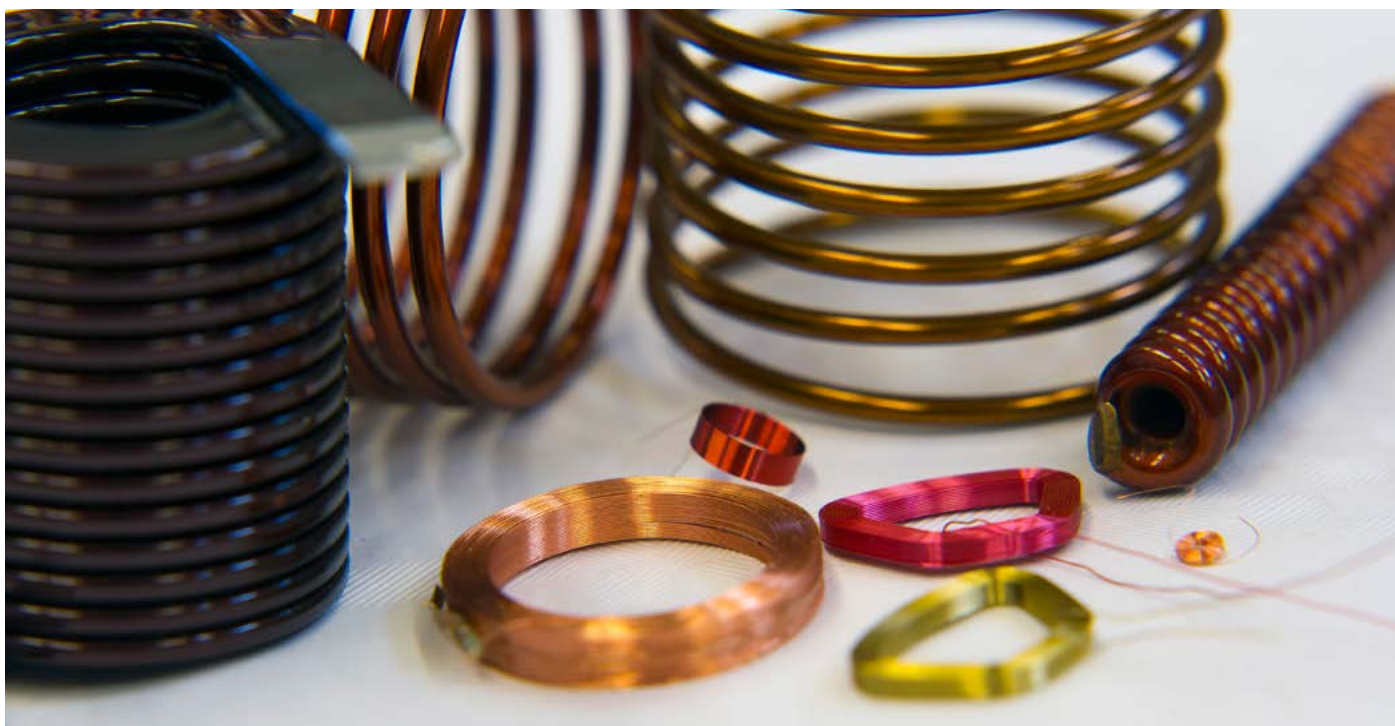
Servo motors

Servo motors and servo drives for applications ranging from basic to multi-axis systems.

Motor starters

Hand-operated and automatic star-delta (Y/D), forward and reverse switches, motor protection switches and foot switches.





A selection of coil winding material. See the full range on our website.

Coil winding material

BEVi offers a wide range of coil winding material for the production or repair of electric motors, transformers, generators, etc. BEVi is the distributor/agent for some of the leading manufacturers in Europe and the world, such as Dahréntråd, Elektrisola and Thermik. If we don't have the required materials in stock, we'll find them through our wide network of manufacturers.

Winding wire

We stock the complete range of winding wire from Dahréntråd and Elektrisola. Round wire in dimensions 0.01 to 5.0 mm. Rectangular wire in copper or aluminium.

Litz wire

Can be produced with 2 to 23000 strands (depending on the cross section) with strand dimensions ranging from 0.018 to 0.50 mm.

Thermal protection

We supply (NC and NO) thermal switches and PTC thermistors from Thermik, with a temperature range of 60-250°C.

Insulating materials

Our wide standard range for electrical, thermal and mechanical insulation can be specially manufactured to customer requirements.

Insulation sleeving and silicone profiles

Suitable for electrical, thermal and mechanical protection, diameters from 0.50 to 50.00 mm and a temperature range from -30°C to +300°C.

Capacitors

For electric motors, lighting, etc. Operating capacitors from 1 to 100 µF and starting capacitors from 25 to 400 µF.



A selection of equipment for power generation. See the full range on our website.

Equipment for power generation

Customers within power companies, nuclear power plants, small-scale hydropower plants and others are turning to BEVI for purchase of generators, services and more. Welcome with your inquiry.

Large generators

Our direct-coupled generators with power outputs up to approx. 20 MVA are valued for their high efficiency and quiet running. We have supplied a considerable number to the Nordic countries and around the world. Deliveries are made in close cooperation with leading European manufacturers. The generators are available in voltages up to 13.8 kV and weigh up to approximately 100 metric tons.

Small generators

Manufacturing of small generators is done in our workshop in Sweden, based on own calculations and design. The hydropower generators are manufactured in a range of designs,

often directly coupled, up to a few MVA and with special adaptations for each turbine.

Rotary and static converters

For, for example, test equipment or machine lines, which work on a different voltage or frequency to the main network. Power outputs from a few to several thousand kVA. Manufactured and designed to our customers' requirements, belt-driven or directly connected. These are also available for hire.

Static excitation and operational testing

Our equipment is adapted for different types of power regulations and

feeding to the exciter or directly to the generator slip rings. We also supply equipment for brushless excitation. Our operational testing covers everything from relay protection, power station batteries and contact surfaces in switches to thermal photography of rails and cable connections, and insulation testing generators.

Equipment for production and test

BEVI manufactures a range of custom test systems that allow products to be driven or braked at a specific torque at different speeds. The test systems are often supplied complete with customised cabinets and desks.



Advanced hydropower control equipment

BEVI offers the latest in reliable control equipment for fully automatic operation of hydropower plants designed to the customers' requirements. Our equipment can be supplied with different operator's panels, image production and trend display programs with operation, control and alarm functions via the web, GSM, 3G, GPRS or ADSL, and include advanced and precise level adjustment for dams. We also supply this with low or high voltage switchgear.



Service beyond the ordinary

We carry out all kinds of rewinding and repairs of electric motors and generators up to 20 metric tons in our well-equipped service workshop. BEVI's long and broad experience forms the basis of our longterm cooperation with our service customers.

Electric motor service

At our well-equipped service workshop we perform service to electric motors and all types of windings and repairs of motors with weights up to about 20 metric tons. Repairing, for example, a high-voltage motor is a demanding task that requires experience and technical equipment.

Generator service

We carry out advanced servicing and overhaul generators in the field, at our customers' power stations or at our well equipped service workshop. We overhaul, repair or exchange different types of windings, rolling elements or sleeve bearings, cores or coolers, and more. Alternatively, we can modify generators, for example, from a horizontal to a vertical arrangement.

Winding diagnostics are carried out with high sensitivity insulation meters, tan δ - or PD (partial discharge) equipment. Cores are checked by, for example, establishing values from Epstein tests and thermal photography.

Transformer service

Transformer service can range from rewinding low and high voltage windings to different types of redesign. Winding switches are also overhauled. Some special transformers, for example with water-cooled windings, are manufactured from new.

Balancing

Our balancing equipment is precise and sensitive. We carry out dynamic balancing in two planes in accordance with ISO standards. In addition to rotors for electric motors, we balance pump impellers, fan wheels, bark cutters, etc. We can handle up to 3 tonnes and 1.6 m diameters

Core repair

We overhaul, repair or exchange cores on electric machines to improve their energy efficiency. The rolled electrical sheet is designed according to requirements and stamped or laser cut.

Diagnostics and inspection

Quality assurance measures are an integral part of manufacturing and servicing motors and generators, and diagnostics and inspection on windings, bearings and machine vibrations are vital to our work. Benefits to our customers include the longest possible service life for their electric motors and generators.

Operational testing

Our operational testing includes for example:

- Relay protection
- Control of power station batteries and contact surfaces in switches
- Thermal photography of rails and cable connections
- Insulation testing of generators

Consultation, development and construction

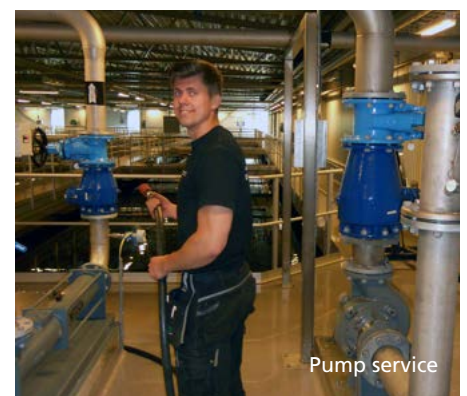
Consult BEVI for the development, design and construction of special machines. Through our competence and well-equipped mechanical department, including CAD/CAM equipment, we can quickly develop completely new solutions or replacement components, such as a new end shield.

Production of prototypes and special solutions

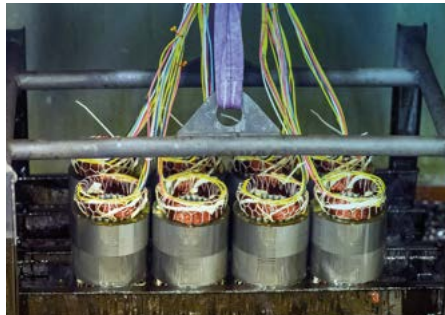
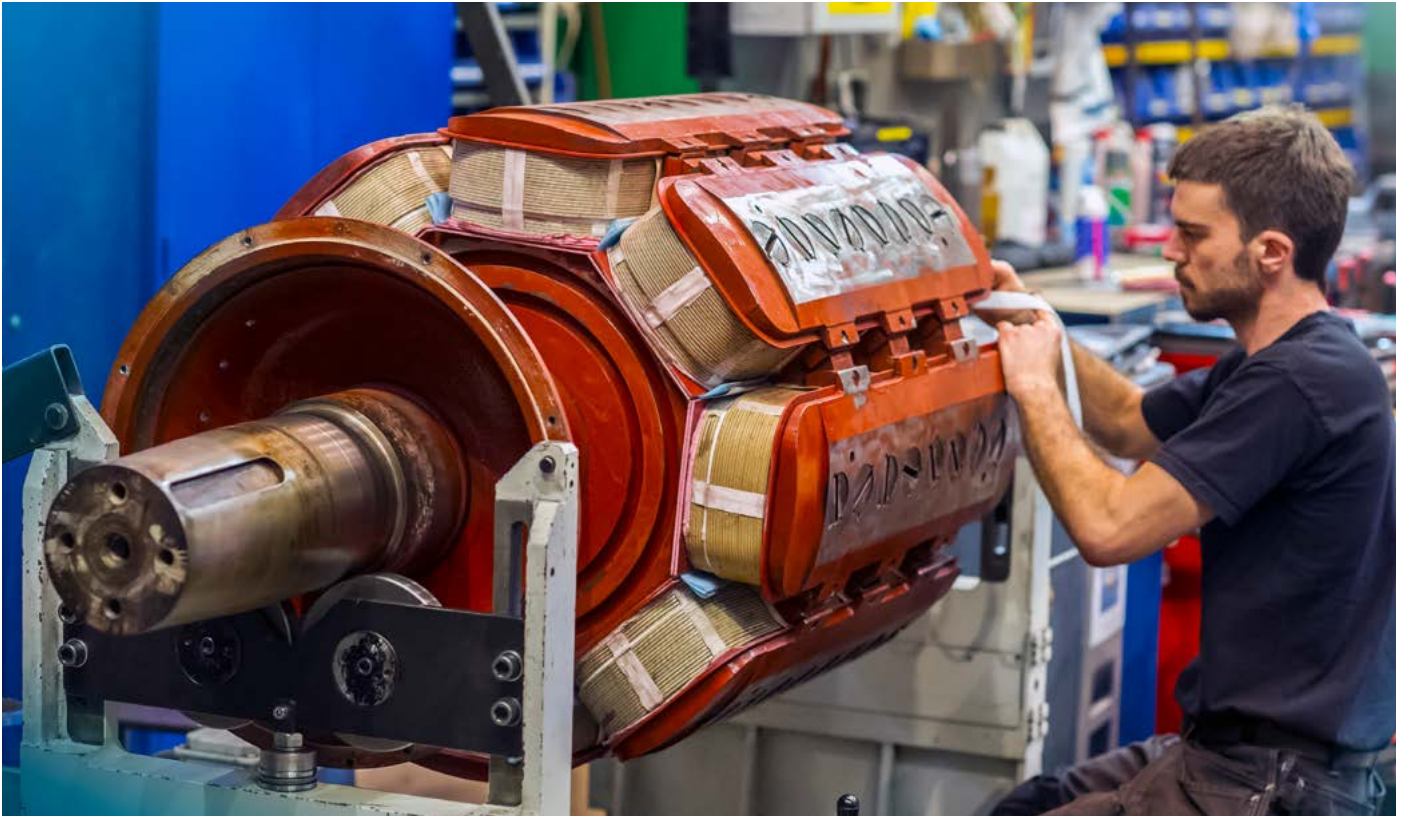
Our well-equipped mechanical department develops components and prototypes according to design. Everything is tested and checked for the longest possible life cycle. We can supply prototypes and smaller and large series of built-in motors in all different voltages. We can also produce any special shafts needed.

Training

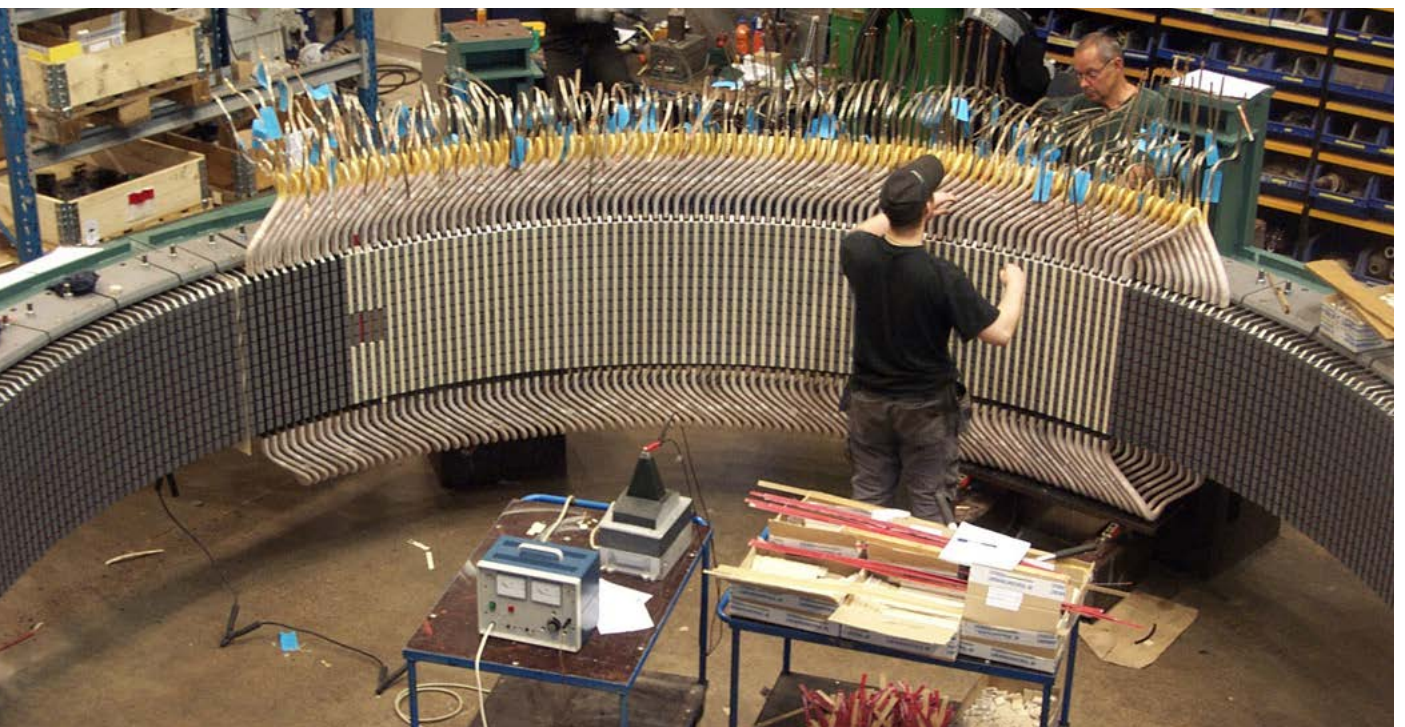
BEVI provides customized training courses on electric motors, generators, frequency converters and transformers. It can be anything from overview courses on e.g. cage induction motors, to various operational disturbances and phenomenas. We design the courses together with you as a customer.



Pump service



BEVI performs qualified service of electrical machines of up to 20 tons.





Transformer service



Short delivery times

We stock a large number of products and parts to ensure short delivery times. Our logistics solutions can be tailored to each customer's unique requirements.

OUR ENERGY – YOUR SUCCESS



Sweden

BEVI AB (Headquarters)
Blomstermåla
Tel. +46 499-271 00
Fax +46 499-200 08
info@bevi.se
www.bevi.se

BEVI AB (Regional office)
Umeå
Tel. +46 90-70 44 30
bevinord@bevi.se
www.bevi.se

Denmark

BEVI A/S
Hedehusene
Tel. +45 39 67 36 05
bevi@bevi.dk
www.bevi.dk

Norway

BEVI Norge AS
Oslo
Tel. +47 23 19 16 50
info@bevi.no
www.bevi.no

Finland

BEVI Finland OY AB
Espoo
Tel. +358 9 2709 1210
info@bevi.fi
www.bevi.fi

China

BEVI Electric Shanghai Co., Ltd.
Shanghai
Tel. +86 21 5032 5200
sales@bevi.cn
www.bevi.cn

BEVI