

Speed or power?

Customised drive solutions

OUR DRIVE. YOUR SOLUTION.

Meet EW HOF – your partner for customised drives.

Regardless of whether speed or power, each of our drives performs 100%. Give us a chance to proof it.

EW HOF has been developing and manufacturing innovative drive solutions for more than 60 years. While experience and competence form the basis of our customised solutions, our aspiration for innovation is the driving force behind tailor-made electric drives meeting the highest standards. Together, we will find the right solution regardless of the challenge you present us with.

Count on us for the following:

- personal consultation, honest
- cooperation
- long-term business relationship

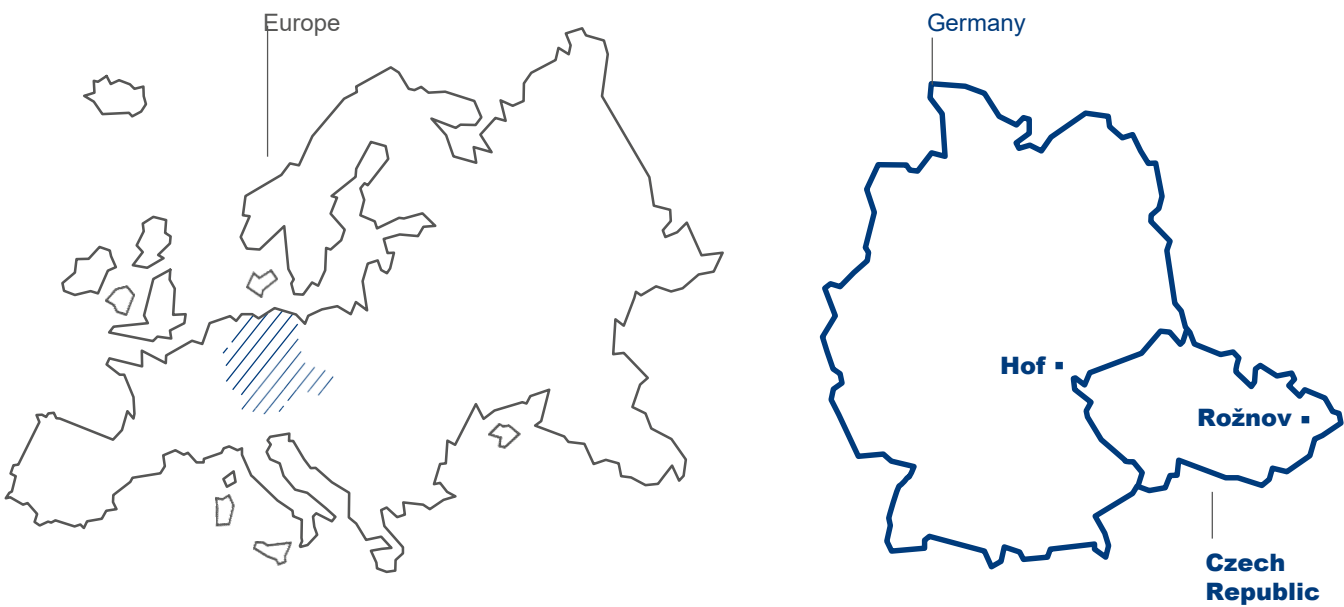
**Tomorrow’s drives
are being
developed in our
think tank.**



Our two locations – one perfect unit

At our locations, our team is working hand in hand on your individual drive solution while meeting the highest standards.

The manufacture of special machinery is our passion. That is why we focus on customised solutions tailored to meet the individual requirements of our clients. Our team consists of employees who are always keen to seek the ideal drive solution. We can also pride ourselves on always being successful in this quest. After all, the combination of striving for innovations and decades of experience results in prime products.



Our Locations

Hof / Saale

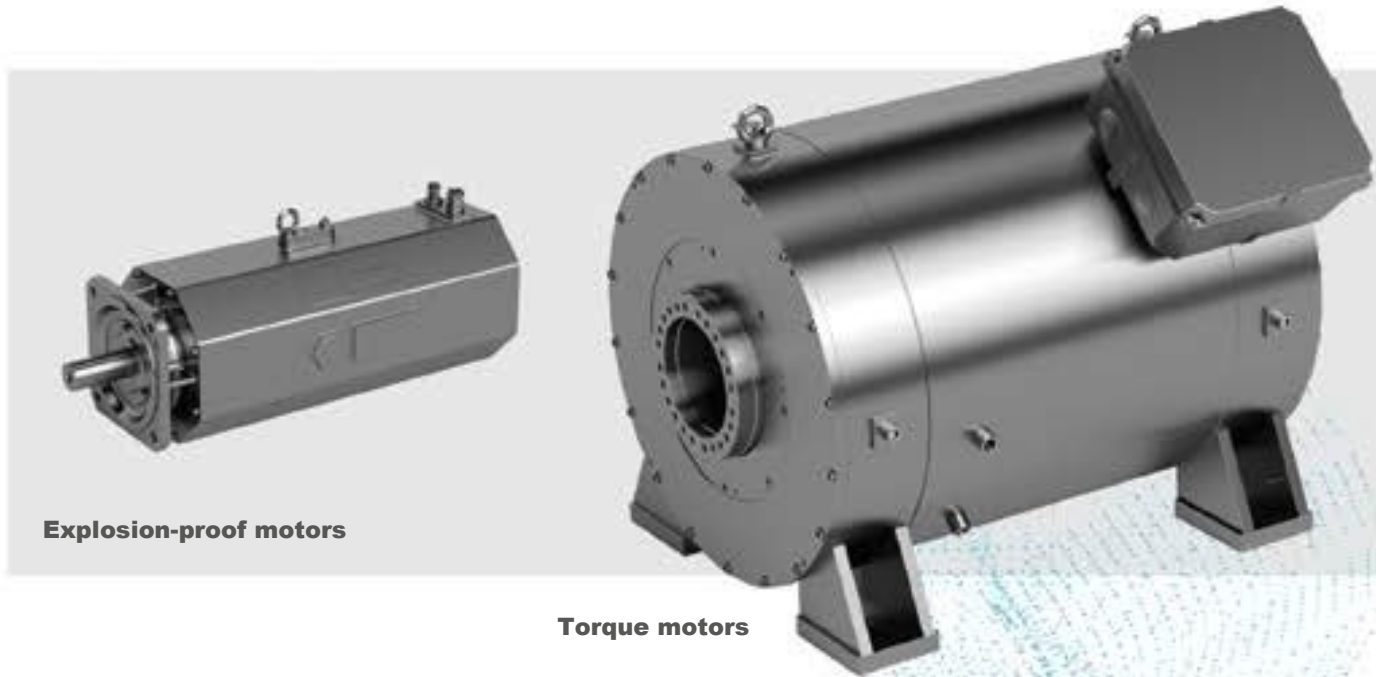
- Development
- Construction
- Distribution
- Finance / Controlling

Rožnov pod Radhoštěm

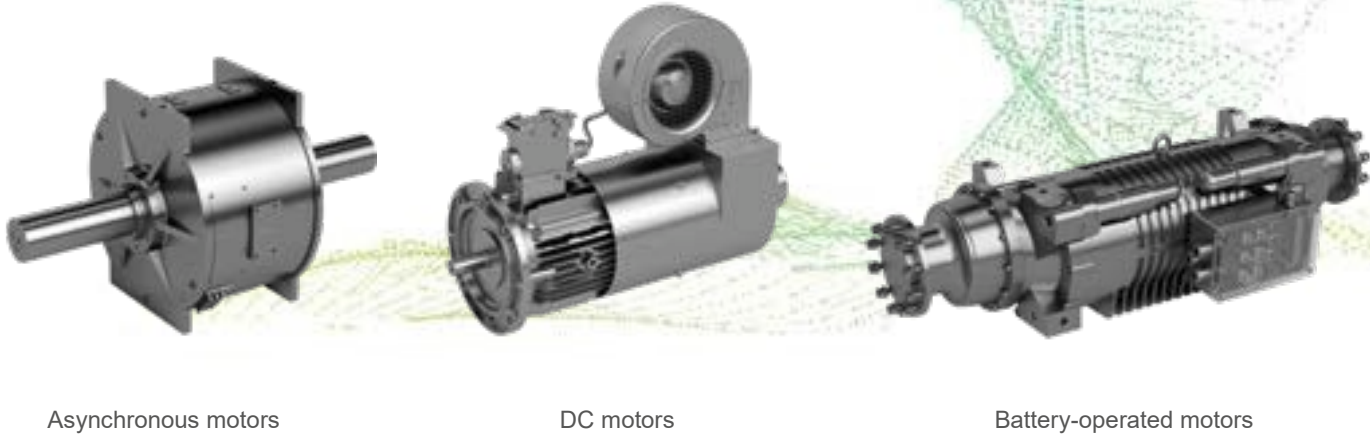
- Mechanical production
- Electrical production
- Impregnation
- Paint shop
- Test facility
- Tool making
- Mould construction / Quality
- Quality assurance
- Purchasing
- Shipping
- Repair and service
- Equipment engineering

Our product range is constantly growing – so is our know-how

We are passionate about innovative, sustainable electric motors and generators.



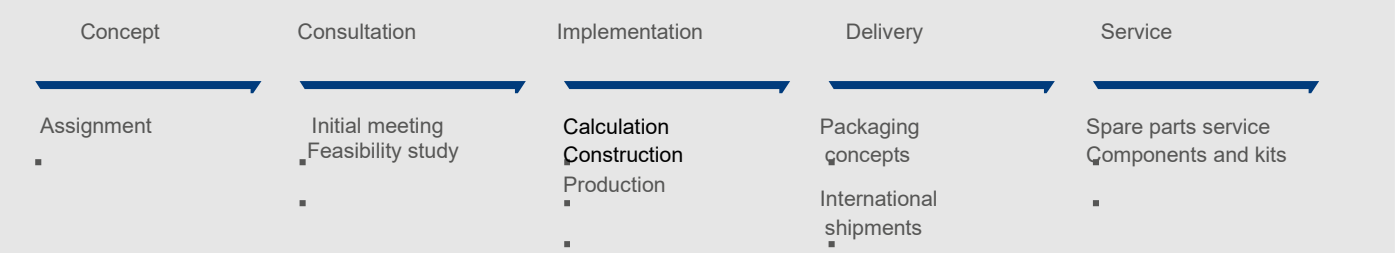
Each realised product is based on our expertise. Every day, we are expanding latter in order to further develop our product range. Our constantly growing expertise and stimulating inventive talent allow us to provide you with excellent drive solutions. Where others reach their limits, we at EW HOF think outside the box.



Individual drive solutions and services from one source

For the success and satisfaction of our clients, we are relying on professional and integrated customer support.

Our string of success



We cover the entire value chain – from concept, consultation and development of your electric motor all the way to series production. With our support, a special solution will emerge that is well thought out and tested. For any project, our priority is to deliver a reliable, high-quality, and durable product.



Customised drive solutions for your individual application

Whatever challenge you present us with: we will tackle it with our individual drives by EW HOF.

We do not just offer you electric motors, but drive solutions that are perfectly tailored to your requirements. Our products boast high quality, durability, and sophistication. Because we are experts in our field. For decades, we have been developing and manufacturing drives for our clients. This is how we became a valued solutions provider. Our product range is proof of our passion. We work closely with you from the development of the motor up to the readiness for series production. The result? Your customised drive.

Torque motors



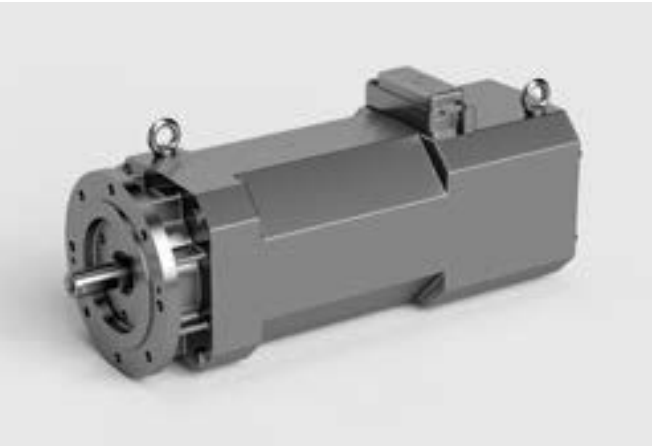
As direct drives, torque motors by EW HOF are replacing the classic combination of asynchronous standard motors and transmissions or conventional hydraulic solutions.

They are multi-pole, permanently excited synchronous motors with high torques at low speeds that are designed to be either water- or air-cooled. We provide you with drive solutions individually adapted to your interface.

Our torque motors are typically used in plastic and recycling machines, presses, winches, ship propulsions and mobile applications, as well as generators for wind turbines and hydroelectric power stations.

Power range — 20 – 1,700 kW	Speed — 50 – 1,250 rpm	▪ SECT series ▪ High torques at low speeds ▪ High dynamics ▪ High efficiency ▪ High energy efficiency ▪ Maximum power density	▪ Compact design ▪ Maintenance-free / low maintenance ▪ Good controllability ▪ Smooth and quiet running ▪ Optional for open or semi-open cooling systems
Torques — up to 65,000 Nm	Cooling — liquid- or air-cooled		

Synchronous motors



We use high quality rare earth elements for our synchronous motors. They allow for a compact design to achieve maximum power density.

Our permanently excited synchronous motors are ideal for the use in wind turbines, machine tools, vehicle drives, as well as in the printing press and metal processing industry. For this purpose, we adapt your drive solution precisely to the operating point of the respective machine.

Power range — 3 – 400 kW	Ventilation — axial or radial	▪ SEC series ▪ maximum power density, high overload capacity	▪ Combination with different feedback-systems, brakes and gears
Protection class — IP 23 – IP 55	Cooling — liquid- or air-cooled		

Asynchronous motors



Our asynchronous motors are adapted to the respective application either as air- or water-cooled version as well as to the corresponding operating point of the machine and the frequency converter used.

They are used as main or auxiliary drives in many production machines or vehicle test benches. Whether used in machinery and plant engineering, paper or metal processing industry or as a traction motor in vehicle and railway technology - the asynchronous motor is the right choice for a wide variety of applications.

Power range — 3 – 600 kW	Voltage — up to 690 V	▪ DA and AM series ▪ High power density due to compact design ▪ Air- or water-cooled design	▪ Combination with different feedback-systems, brakes and gears
Protection class — IP 23 – IP 65	Special speeds — up to 10.000 rpm		

DC motors



DC motors are available in 3 basic production series. The GV series boasts an **fully-laminated design without housing**, ideal as main drive in many production machines.

The GM and GO series feature a **stator housing** and are cooled via the surface. We are looking forward to finding the ideal solution for you: Motors in various designs featuring different ventilation options adapted to client-specific interfaces.

Power range	Protection class	▪ GV, GM, GO series	▪ Combination with different feedback-systems, brakes and gears
— 0.2 – 380 kW	— IP 21 – IP 65	▪ Fully laminated or solid	
Voltage range	Insulation class	▪ diverse ventilation options	
— 110 – 600 VDC	— F / H		

Battery-operated motors



With our battery-operated motors, we provide you with solutions for AC and DC systems.

They are used in railway technology, automotive engineering and industrial trucks, for example, and realise functions such as driving, steering and lifting. Whether it is a drive for a boat, rail car or forklift – we will adapt our battery-operated motors to your individual requirements and operating point of your machine. This ensures that you receive a drive solution optimally adapted to your vehicle and control.

Power range	Battery voltage	▪ GN, GM and DK series	▪ Combination with different feedback-systems, brakes, gears and pumps
— 0.2 – 32 kW	— 24 – 110 VDC	▪ Optionally as DC or AC technology	
Protection class	Ventilation	▪ Explosion-proof designs	
— systems IP 00 – IP 65	— variable		



Explosion-proof motors



All motors are also available in an explosion-proof version. We provide you with our comprehensive know-how in design and certification requirements. The different explosion-proof designs can be combined regardless of the motor technology. The subdivision of explosive atmospheres into gases or dusts in the respective zones determines the areas in which these motors are used. Our explosion-proof motors are frequently used in power plants, chemical plants, mills, and agitators, as well as in industrial trucks.

Types of protection — db, eb, ec, tb, tc	Temperature class — T3 – T6	▪ Gas and dust explosion protection	▪ For use in zone 1, 2, 21 and 22
Equipment group — II and III	Equipment category — 2 – 3	▪ Optionally as DC or AC drive	

Generators



Our asynchronous and permanently excited synchronous generators boast a long service life while requiring very low maintenance.

The generators are used in bus and railway technology, automotive engineering, as well as combined heat and power in CHP plants. In addition, torque generators are available for designs with a process-related low speed, such as wind turbines and hydroelectric power stations. At EW HOF, you can feel confident about one thing: We will find the ideal solution for you – even for the use at high ambient temperatures.

Power range	Insulation class	▪ DAG and SECG series ▪ Maximum efficiency ▪ Compact design	▪ Single bearing design, twin bearing design or built-in set ▪ Parallel grid operation ▪ SAE-flange or customised flange
➡ 2.5 – 90 kW	➡ F / H		
Protection class	Cooling		
➡ IP 21 – IP 65	➡ liquid- or air-cooled		

Comprehensive expertise for uncompromising quality

Our electric motors not only constitute the core of your machinery and systems. They are proof of our competence.

Mechanical design and simulation



For mechanical design and simulation, we use state-of-the-art design and analysis software.

Mechanical production



We offer conventional mechanical production and CNC machining services for drilling, turning, milling, and grinding.

Electrical calculation and simulation



For DC and asynchronous machines, we use special analytical calculation programmes.

Electrical production



We produce coils in round or flat wire design and rely on high quality insulation materials and vacuum impregnation.

Add-ons and integration



We take care of the proper installation of components and integration of certain functions.

Final assembly



As part of the cell or assembly line production, we can offer individual part handling of up to 8 tons as well as the complete assembly of add-on components.

Control and testing



We have six test facilities for load tests up to 55.000 Nm and we are using a water recirculating system for motors and converters.

Paint shop



We have 2 state-of-the-art paint booths to implement the client-specific paint requirements – single- or multi-layered.

Sophisticated special solutions for various applications

Are you looking for an individual industry solution? You will find what you are looking for with us - guaranteed.



Industry

Our reliable electric motors are ideal for use within the industry. Interested? We will be happy to present our wide range of products and application areas.



Energy

Our product range includes customised drive solutions with long service life for the various energy generating plants. Present us with your challenge.

Our drive for your application – an unbeatable team. Together, we will find and develop an optimal solution.



E-Mobility

We provide you with individual, high-performance drive solutions for the mobility of tomorrow. Contact us to enquire about our e-mobility products.



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OUR DRIVE. YOUR SOLUTION.

