THE PARTNER OF
POWER
GENERATION
We are one of Europe’s leading system providers in the fields of fluid and drive technology, handling and automation technology, and building technology. Our successful company was founded in 1965 and is based in Linz.

OUR CUSTOMERS
Companies from energy industry, plant engineering, mechanical engineering, vehicle construction, building and infrastructure construction value the high international standards that we fulfill with regard to quality, safety and sustainability.

OUR EXPERTISE
As a provider of demanding complete solutions, we offer highly qualified consultancy, interdisciplinary engineering and expert project management. Our services are supported by top class production, assembly and service capacities. On request, we can of course also provide support for customized systems throughout the entire life cycle.

We are an innovative system and service partner to manufacturers and operators of power plant systems and exploration and production equipment for fossil fuels.

Our customer base is made up of energy companies in the hydro-power, wind power, and oil & gas sector.

We offer engineering, production, and assembly services for product and system solutions in the following areas: drive technology, automation technology, process technology, and safety engineering.

We provide support for your systems throughout entire life cycle and are on hand to add value and carry out revitalization work, in particular.
The energy and power plant technology sector is synonymous with safety, reliability, and cost efficiency. That is why we carry out intensive research and development work. For us, this means using state-of-the-art development tools and enlisting the help of well-respected universities to address specific problems. In our eyes, technology is never an end in itself; rather, it has to focus on and specifically target the competitive advantage of our customers. Each of our technical developments also takes the aspects of economic feasibility and ecological soundness extremely seriously. Our technical developments are complemented by the other services in our range: the production of prototypes, verification of the prototype design, and subsequent testing.
Short cycle time - flexible flow manufacturing principle

Thorough inspections ensure 100% reliable operation
Certified specialist welding workshop

Our production facilities are able to draw on the decades of experience that we have acquired in the fields of mechanical manufacturing and plant engineering, which translates into state-of-the-art production processes and efficient value chains. We have up to 26,000 m² of floor space available, which can be divided up into variable production islands according to requirements. In this way, we can achieve high levels of productivity while remaining highly flexible.

We are very proud of our extensive vertical range of manufacture:
In terms of machine building, this starts with the production of the parts and extends right through to assembly and commissioning on site; in terms of electronics/automation, it covers PCB assembly and production as well as switchgear cabinet construction and commissioning on site.

- Drive systems in weir field technology
- Revitalization of crane systems
- Oil and fuel processing

Other services:
- Aggregat assembly
- Cylinder assembly
- Small batch assembly
- 10 test stands
- On-site assembly/commissioning

Our service term assist with repairs to the following types of power plant equipment: drive technology, control technology, and weir field technology. Repairs can either be carried out on site or at our workshops. We will be happy to optimize your plant availability on the basis of service and maintenance contracts.

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Our key areas of expertise include professional revitalization measures for power plant systems, turbine controls, weir field drives, and crane systems. By ensuring the correct mix of measures, we can increase and sustain the productivity of your systems.

By constantly developing our technology, we are able to increase the power output of power plant systems. These modifications could significantly improve the efficiency of your systems. We have the Know-How to advise you and assist with implementation.

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Our expertise:

- Machining (CAD/CAM)
- Certified specialist welding workshop (EN ISO 3834-2)
- Hydraulic steelwork
- Specialist paint shop
- Prototype production

ELECTRONICS / AUTOMATION

- PCB assembly
- Series production of electronics
- Electric control cabinet assembly
- Electrotechnology assembly
- Electrical installation/building technology

VALUE CONSERVATION MEASURES
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REHABILITATIONS MEASURES
It is very expensive to replace damaged or fault-prone equipment in its entirety and this is not always necessary. With our extensive application database, whose contents are drawn from the areas of energy and power plant technology, we can provide you with optimized suggestions for revitalization work.

UPGRADING MEASURES
By constantly developing our technology, we are able to increase the power output of power plant systems. These modifications could significantly improve the efficiency of your systems. We have the Know-How to advise you and assist with implementation.

By offering you our value maintenance and upgrading services, we want create positive impact on the life cycle costs of your systems. Our key areas of expertise include professional revitalization measures for power plant systems, turbine controls, weir field drives, and crane systems. By ensuring the correct mix of measures, we can increase and sustain the productivity of your systems.

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Our Expertise

THE PARTNER OF TURBINE TECHNOLOGY

Drive technology units
Cylinder impeller adjustment
Lubrication of turbine bearings

DURABLE & LOW-Maintenance
HAINZL has spent more than 40 years developing and producing hydraulic drive technology for all kinds of power generation applications, focusing particularly in the areas of hydropower and combined heating and power plants. Our focus on quality and reliability of our products and services ensure our customers in all their different types of power plant safety and decades of problem-free operation.

OIL-HyDRAULIC SYSTEMS
In the areas of oil-hydraulics and water hydraulics, our range of services extends from development, design, and production right through to integration, commissioning, and servicing.

FLUIDICS
Lubrication, filter, and cooling systems: Solid engineering based on decades of experience means we have a long list of reference customers in almost every area of power plant technology.

HYDRAULIC CYLINDERS
More than 15,000 hydraulic cylinders leave our plant every year. We are capable to fulfill extraordinary challenges, particularly those encountered in the field of power plant technology.

SERVOMOTORS
Given the central role that servomotors and adjusting cylinders play in terms of power plant functionality, there is no room for technical compromises. With over 40 years’ experience in developing and producing cylinders for use in the toughest sectors across the globe, our track record speaks for itself.
Hydraulic and electrical drive technology coupled with control and automation—these technologies are at the heart of what our group of companies does. Having already realized more than 10,000 different applications, the area of hydraulic steelwork is another key area for which we are able to provide first-class custom solutions. We have more than 160 employees working in electronics, automation, and electrical installation. We see the issue of whether to develop a brand new solution or revitalize an existing one as secondary; what matters to us is to realize and execute the best technical solutions for our customers given that their systems are becoming increasingly complex.
HAINZL offers system-specific individual or complete solutions in the areas of automation, control, and protection technology (from planning through commissioning). Due to many years of experience, we are approved partner for a wide range of applications in automation technology.

**EARLY DETECTION OF DAMAGE**
Reliable early detection of damage to wind power plants and hydropower plants thanks to the automatic analysis of vibrations and process data.

**ANALYSIS OF OPERATING DATA**
The plant management team benefits from specific reports.

**CAVITATION**
Detection of unstable production states such as cavitation or the ingress of floating debris.

**MOBILITY**
State-of-the-art web technologies enable the connection of smartphones and tablets for optimum usability.

**SERVICE**
Analysis service provided by our ISO 18463-2 approved experts and temporary in-service measurements to identify the causes of problems.

**CONDITION MONITORING**
RELIABLE & ECONOMICAL
The HAINZL Condition Monitoring product line offers optimum monitoring from small hydropower plants to entire wind farms. The focus is on detecting damage to turbines and generators at an early stage and on providing plant managers with meaningful reports that are easy to understand. This ensures that power plants are operated economically. The HAINZL portfolio is rounded off by a comprehensive and customized range of services designed for your benefit.

**SERVICES**

**CONTROL & FEEDBACK CONTROL TECHNOLOGY**
- Complete control systems for small power plants <10 MW
- Feedback control systems for generator output
- Agregat controls
- Acquisition and analysis of operating data
- Visualization

**PROTECTION TECHNOLOGY**
- Generator protection
- Power system protection
- Bus bar protection
- Synchronization

**ELECTRONICS**
- Hardware development and production
- Software development and production
TURBINE TECHNOLOGY

HYDRAULICS/FLUIDICS
- Oil-Hydraulic systems - servo technology
- Oil-Hydraulic units
- Central lubrication systems
- Water hydraulic controls for ball valves, sealing systems, pressure increase units, sealing medium systems
- Cooling systems/safety heat exchangers
- Electrotechnology/electromechanical drive solution

HYDRAULIC CYLINDERS/SERVOMOTORS
- Servomotors for guiding crane
- Servomotors for intake flap gate adjustment
- Servomotors for Pelton nozzle control
- Vane adjustment cylinder for Kaplan impeller

HYDRO STEEL STRUCTURE
- Drive technology (hydraulic/electrical) for weir fields, vertical gates, and flap gates
- Automation and control solutions for weir systems, sluices, vertical gates, flap gates, and screen cleaning systems
- Hydraulic units
- Water hydraulic safety-oriented shutdown and closing equipment
- Electromechanical drive solutions
- Revitalization of weir field technology
- Revitalization of crane systems
- Cylinders according to DIN 19704 for bottom outlet, roller, and radial gates
- Switchgear cabinets - decentralized control units

UPGRADING
- Servicing & maintenance of turbine technology for hydraulic steelwork
- Servicing & maintenance of hydraulic steelwork
- Modernization of power plant systems
- Measures for increasing the performance of small power plants
- Safety-related measures
- Partial replacement of control and feedback control technology
- Servicing & maintenance of cranes
- Upgradings of cranes

AUTOMATION TECHNOLOGY
- Automation solutions
- Control systems/visualization on PLCs (various systems) and PCs
- Feedback control for power plants/turbines
- Remote maintenance and remote control systems
- Synchronization solutions for feed-in DEIF
- Unit control DEIF
- Generator protection DEIF
- Power Failure protection according to BDEW (German Association of Energy and Water Industries) DEIF
- Water level control DEIF
- Electrical drive technology
- In-house switchgear cabinet construction
- Assembly on the premises and commissioning of turbine technology

CONDITION MONITORING SYSTEMS
- Online condition monitoring system with integration of operating data
- Lite version for cost-effective installation in small power plants
- Mobile version for convenient temporary measurements when damage is suspected
- Analysis center software for convenient analysis of operating data and system operation
- In-service measurements in the event of problems
- Worldwide commissioning and signal analysis service

FIREFIGHTING SYSTEMS
- Fixed high-pressure water mist firefighting systems
- Turnkey container solutions
- Mobile units with high-pressure spray pistol

OVERVIEW OF PRODUCTS & SERVICES
Success depends on two things: Clear goals and willingness to achieve them.

Our goal is to put our technical abilities to use in a sustainable manner. We want to win our customers over with economical solutions while also being ecologically responsible. There can be no doubt that the diverse area of power generation poses one of the greatest global challenges and will continue to do so in future. We want to play our part in this.

I would like to take this opportunity to assure our customers and partners that they can rely on the total commitment of our dynamic team. We want to work together to achieve success and that’s what makes us stand out.

Helmut Possegger MBA
Head of Strategic Business Area
Power Generation