

Our company  
**Details that matter.**





**>100**

—  
**years of experience.  
Reliable and solid  
like the remarkable  
mountains of our  
region.**

**Based in Toggenburg**

At our location in Wattwil, we have a breath-taking view of the Churfirстен, the famous seven mountains in Toggenburg.

**MECHANICAL ENGINEERING.**

## Our company

The company Högg AG Produktionstechnik is a specialised supplier of sophisticated mechanical manufacturing, including engineering and system responsibility, operating throughout Europe. We plan and manufacture prototypes, individual and series parts as well as complete system components for our customers.

«Shaping the future together with our customers.»

Realising cost advantages right from the start. With our broad know-how from daily work for a wide range of industries, we find innovative and economical solutions for your business. We drive innovation processes forward in a competent, experienced and uncomplicated manner and strategically implement ideas.

As a system supplier or contract manufacturer, we are a reliable partner for your products. According to your specifications, in perfect quality, at the right time and all at fair market prices.

«We focus on the satisfaction of our customers – this is where quality begins for us».

# 10'000

m<sup>2</sup> production area for the requirements of our customers.

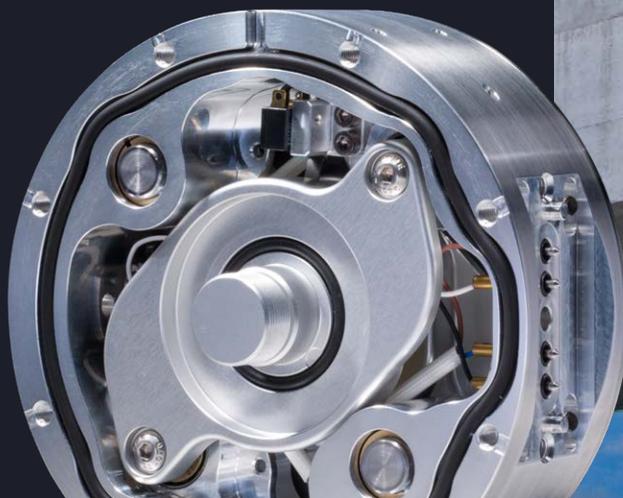
MECHANICAL ENGINEERING.

# >200

customers from a wide range of industries rely on Högg.



# HÖGG



## Sustainability

**Sustainability is an important building block in our company DNA.**

As a family business with over 100 years of company history, we know what it means to plan for future generations. That is why we heat and cool our company building without fossil fuels. Instead we use a CO<sub>2</sub> neutral heating system from groundwater. On the roof of our production facility is one of the largest solar plants in Eastern Switzerland.

In addition to ecology, social and economic sustainability is also a major concern for us. We offer modern, secure jobs for all our employees and are committed to the region. With 12 people, more than 10% of our employees are apprentices at any time. We support universities and colleges, such as ETH Zurich, with know-how and components as part of research projects.



The building where Högg AG was founded.

## History

**Högg AG Produktionstechnik has been supporting its customers as reliable partner for more than 115 years. Customers in the domestic and international market rely daily on our competence, which has been developed and anchored over decades.**

**«Cherish the past, live the present, create the future.»**

What began in 1905 as a blacksmith's shop in Lichtensteig has developed into a modern, innovative company. In the fourth generation, still family-owned and owner-operated. What began in 1905 as a blacksmith's shop in Lichtensteig has developed into a modern, innovative company. In the fourth generation, still family-owned and owner-operated.

# 1905

**Foundation of the company Högg in Lichtensteig.**



# 270

**households could be fully supplied with our solar plant.**

# 100

**percent of our building cooling and heating is powered with groundwater.**



### **Production**

A bright, modern, clean infrastructure is ready to manufacture our customers' products in the best quality. Ongoing investment in machinery is central to being able to offer the best possible production processes.

**>50**

**CNC machining  
centres are in  
daily use.**

**HÖGG**  
PRODUKTIONSTECHNIK

## System supplier

**Your partner for system and contract manufacturing for mechanical and electromechanical products. Gain competitive advantages. Outsource the responsibility for your product to us.**

We are an experienced partner from engineering to series production of parts or assemblies. Whether pure production or new development including product management. You will receive a tailor-made package that will take you further.

- Engineering
- Project management
- Production
- Qualification
- Logistics
- Support



### System procurement

You save money and time.

- You create internal capacities for core products (engineering, production, assembly)
- You can transfer part of your business risk.
- You only make one order instead of dozens or even hundreds of individual orders.
- You only have to monitor one deadline. Högg coordinates all deadlines for the individual parts.
- You have lower storage costs and capital commitment. Högg delivers at the right time, in the right quantity to the right place.
- You have one contact person for all quality issues.





## Assemblies & systems

### Assembly of components

Our services in component assembly include the provision of individual parts, assembly, testing, packing and shipping of simple to highly complex components. Our holistic understanding of a wide range of materials and processes enables us to manufacture complex assemblies for you within the shortest possible delivery times.

- Extensive technical know-how in mechanics, electrics and assembly technology
- Support in design and development
- Great vertical range of manufacture with qualified partners
- Special processes such as bonding under controlled climatic conditions
- Automated assembly processes
- Assembly control systems, traceability one-piece flow, lean, 5S...
- Customer-specific deliveries/packaging (end-packed, KANBAN, JIT)

### Clean room installations

Certain products do not tolerate dust. We have a clean room (ISO7) available for the assembly of components for the vacuum, semiconductor or solar industry as well as for medical technology. In this monitored environment, the cleaned components are assembled into high tech systems and tested.

- Particle-free assembly (ISO7) of mechanical and electromechanical modules
- Procurement and storage of customer-specific components
- Parts cleaning with ultrasonic cleaning system (ISO6)
- Function test, helium leak test, adjustments, final checks
- Part suitable packaging and logistics (KANBAN, double-bagging ...)



## Industries

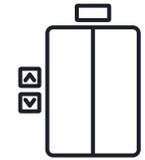
Many years of experience from various industries enable us to quickly understand the needs of our customers.



**Machinery industry**



**Aerospace**



**Lift systems**



**Power generation**



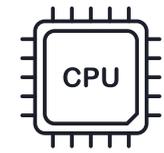
**Research**



**Medical technology**



**Special industries  
(laboratory, food,  
chemistry)**



**Semiconductor, optics  
and vacuum industry**



**Special, commercial  
and rail vehicles**



**Textile machinery  
industry**

## Engineering & consulting

We have in-house expertise for development and design tasks for your products. We are at your disposal in all phases from concept development to series production. Sub-tasks, optimisations or re-engineering projects can also be taken on.

### Competence within the group

For us co-engineering is a complement to knowledge and therefore we see great potential in this form of cooperation.

- Support in development and optimisation tasks
- Engineering competence in the Högg Group (simplify engineering AG)
- Construction with Solidworks and Creo
- Strength calculations and safety design
- FEM simulation
- Prototypes & testing
- System development
- System responsibility

~20

projects are realised by  
simplify engineering  
every year.



Special elevator systems  
for the railway industry.



Sister company  
simplify engineering AG.





## CNC production

**As a specialist for machining production, we offer you top performance in milling, turning, grinding and much more.**

With a machine park of more than 50 CNC machines, we offer our customers a large vertical range of manufacture and a high production capacity. This broad spectrum allows us to manufacture both large components and small parts with the highest precision.

### CNC milling

On various horizontal and vertical machines, we manufacture precision components from almost all metallic materials. We use dynamic milling centres for aluminium components as well as highly stable milling machines for steel and stainless steel. With high cutting performance, we offer the best quality and economy.

### CNC turning

We have conventional CNC lathes as well as state-of-the-art integrated turning/milling centres. The latter clearly surpass the individual machining capabilities of machining centres and CNC lathes. If required, also with bar feeder systems and robot handling.

### CNC grinding

Whether flat, profile or cylindrical grinding – everything is processed with highest precision. Over 20 years of experience in grinding make us a specialist!

### CNC long parts

Our specialty. Our machines, some of which we have developed ourselves, enable the machining of long parts with the highest precision and efficiency. With processing possibilities of up to 6 metres, there are seldom requirements that we are unable to fulfil.

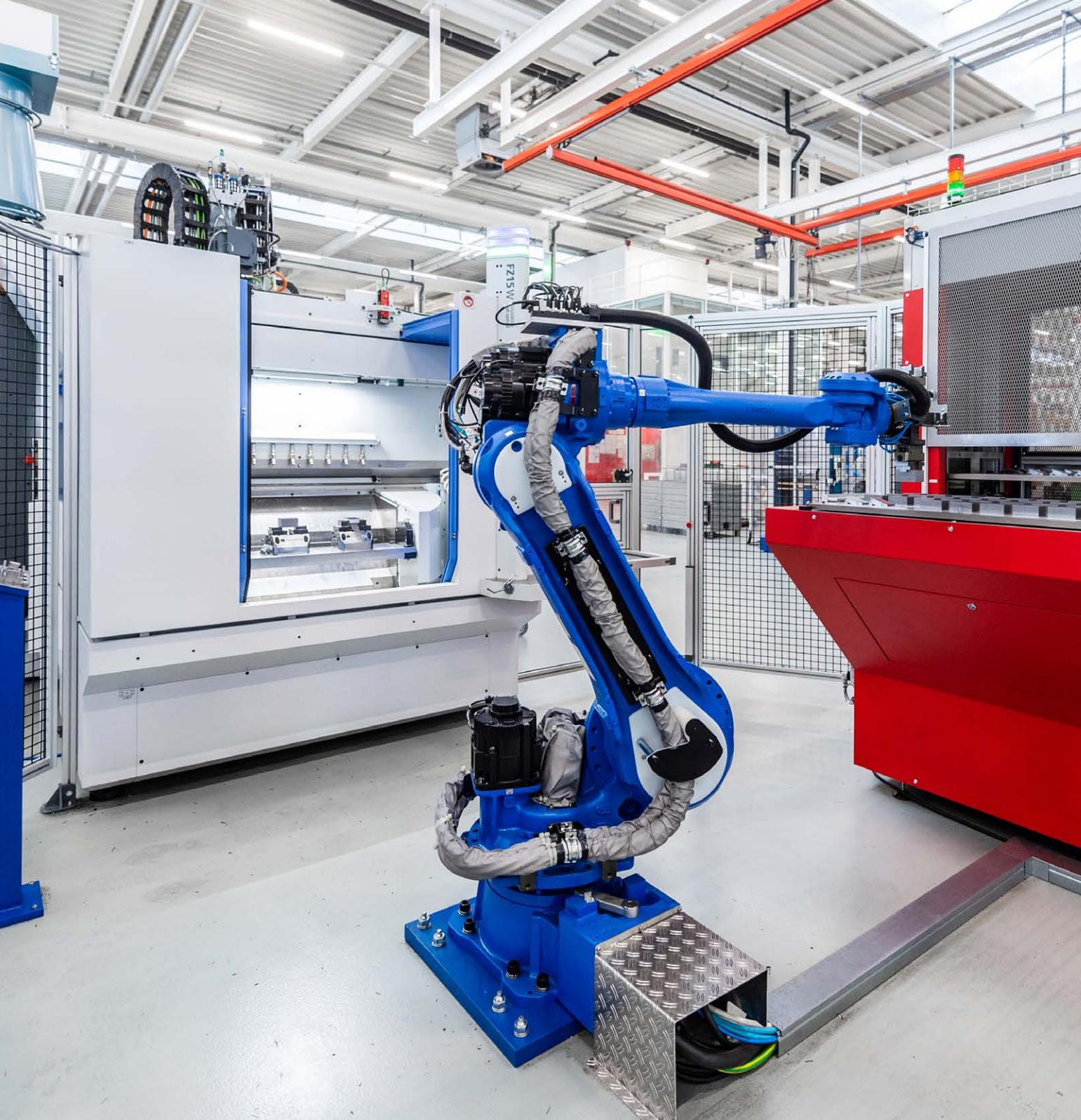
### Automated manufacturing

On several, flexibly automated milling and turning machines, we also manufacture for you unmanned and around the clock from batch sizes of 100 pieces.



# >1 million

individual parts are  
manufactured every year.



**Automated manufacturing**

Flexible robot handling systems enable cost-effective, unmanned production starting from small batch sizes.

**24/7**

unmanned  
production, 24 hours,  
7 days a week.

**HÖGG**  
PRODUKTIONSTECHNIK

## Profiles

**Högg profiles open up many new possibilities for your business. Regardless of the material, we supply you with precise profiles that are individually adapted to your needs. With dimensional tolerances in the micrometre range, we manufacture profiles in all metallic materials.**

On special machines we profile your profiles in a specially developed process. The continuous milling process offers many advantages over drawn, rolled or pressed profiles:

- No minimum purchase quantity
- Shortest delivery times
- Various materials (steel, stainless steel, titanium, non-ferrous metals...)
- Compliance with minimum dimensional tolerances
- No or relatively low tool costs
- Sharp edges, deep grooves, thin slots possible

### Profile processing

Our large machine park offers a suitable solution for every profile finishing. Whether on the bar up to 6 metres or as a short, cut-to-length individual part. As a specialist in mechanical processing, we have also the right solution for you to produce the finished component.

### Profile bending

Occasionally we do a few «crooked things». Do you need curved or turned profiles? As a profile specialist, we also offer you a complete solution. We are able to bend profiles into your required shape, as a single piece or as a complete series.

### Sliding blocks

For the production of sliding blocks, a profile is the ideal starting material. The company Högg AG Produktionstechnik has specially equipped itself for the production of special sliding blocks.

**1978**

**Högg developed the  
profile milling process.**

**«Högg profiles open up  
many new possibilities  
for you.»**





## Quality

**A lot is written and talked about quality. However, it is only in the daily routine of fulfilling orders that quality can really be recognised and proven. Our long-standing customers are the best proof that at Högg AG Produktionstechnik quality is not only talked about but it's what we pride ourselves on.**

Every employee strives every day to give their best in all processes. From the first customer contact until the delivery on schedule. Testing and measuring equipment is a valuable support, but people are ultimately responsible that only first-class quality leaves the factory. That's what we work for every day.

### Quality management systems

The demands on quality are constantly increasing. That is why we are continuously adapting to the requirements of our customers. No management system should stop in its development. Continuous improvement and adaptations basis for innovation. We follow the parameters of the international standard ISO 9001/2015 and ISO 14001/2015. In addition, there are many customer specific standards and requirements which we integrate into our systems. Whether from the medical technology, semiconductor or aerospace industries: it's important to us to implement the standards in a meaningful and effective way.



### Tools & measurement methods

- SPC
- FMEA
- 8D-Report
- First Article Inspection (FAI)

# 0.001

millimetre accuracies  
in the µm range.



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Högg Group

**HÖGG**  
PRODUKTIONSTECHNIK

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SIMPLIFY ENGINEERING

**HÖGG**  
LIFTSYSTEME

