



**WITTENSTEIN**

# The WITTENSTEIN Group

Businesses, products  
and services of the  
WITTENSTEIN Group

Our guiding principle – the belief that our systems and products make life easier for our customers as well as making their businesses more successful and efficient. We are continually setting standards and applying advanced technology to give our customers a competitive edge in the market.



**WITTENSTEIN**

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More than 1700 employees at more than 60 locations worldwide. Always where you need us.  
This is our vision of a successful future together.

**Specialized fields united in one company.**

WITTENSTEIN AG is active in eight innovative fields of business:

**Servo gearheads**  
**Servo drive systems**  
**Medical technology**  
**Miniature servo units**  
**Innovative geartooth technology**  
**Powerful actuator systems**  
**Nano technology**  
**Intelligent electronic solutions**

Each company in the WITTENSTEIN Group strives to make advances in their respective field and develop specialized solutions to perfection. The companies that use the WITTENSTEIN name are committed to paving the way for greater freedom of innovation in the future.

**Stronger as one**

Understanding partners.  
Communicating processes.  
Achieving objectives.

Our systems and products are  
aimed at making your life easier  
for a more successful business.

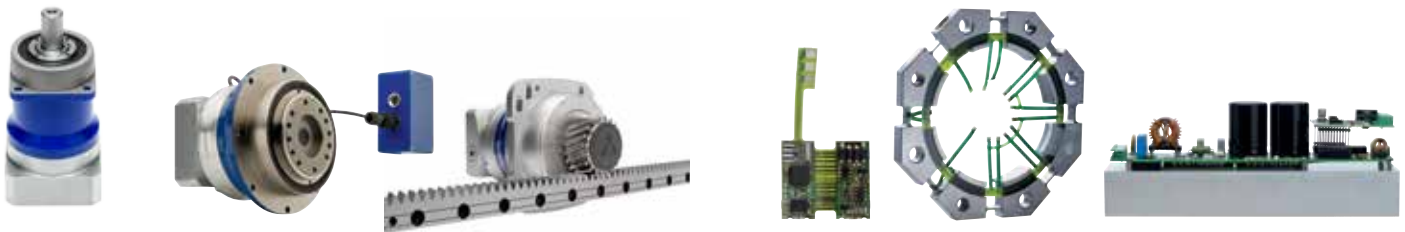
# The WITTENSTEIN Group



Low backlash planetary gearheads  
Servo right-angle gearheads  
Mechanical and mechatronic drive systems



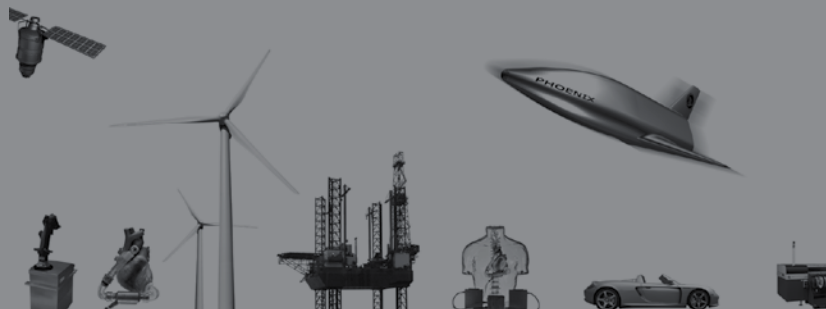
High integrity electronics for complex and controllable systems



**Drives, controls and positional accuracy** are areas that require maximum precision. Products manufactured by WITTENSTEIN alpha GmbH are setting benchmarks worldwide in the fields of mechanical engineering and drive technology. From low backlash planetary gearheads, servo right-angle gearheads and complete drive units to the comprehensive cymex® engineering software package and expert technical consultation: WITTENSTEIN alpha GmbH has redefined the meaning of precision, an essential benchmark and the most important attribute of our products and services.

WITTENSTEIN electronics GmbH develops, manufactures and distributes **electronics and software components** for drive technology. Products and services designed for complex mechatronic systems are capable of working under extreme ambient conditions and characterized by their outstanding reliability.

## Our Markets





motion control

Electromechanical rotary and linear  
servo systems



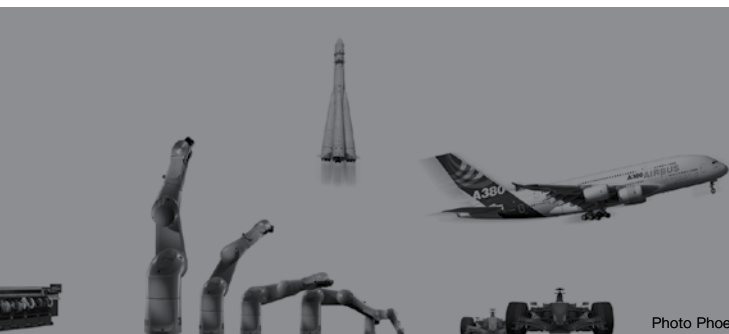
cyber motor

WITTENSTEIN cyber motor  
Highly dynamic mini AC servo motors



Integration plays an critical role here and is a decisive factor in increasing power density and dynamics. WITTENSTEIN motion control GmbH develops **functional mechatronic systems** from the WITTENSTEIN Group's strong base of core products. These electromechanical systems prove their worth through such key characteristics as control, precision, dynamics, reliability and durability.

**Dynamics that accelerate progress.** Outstanding power and dynamics, minimal weight and maximum reliability characterize the servo motors from WITTENSTEIN cyber motor GmbH. Customized motors from WITTENSTEIN guarantee increased productivity and higher endurance. From intense research and development into special materials, WITTENSTEIN motors are highly capable under extreme conditions such as high vacuum, radioactive, extreme temperature changes.



WITTENSTEIN – Products that know no limits

Photo Phoenix: EADS Astrium



WITTENSTEIN

intens



WITTENSTEIN

bastian

WITTENSTEIN intens

Medical technology – intelligent, high integrity actuation systems for the body, both inside and out

WITTENSTEIN bastian

Innovative geartooth technology



Intelligence fascinates, inspires and adds that extra dimension. Innovative medical technology manufactured by WITTENSTEIN intens GmbH, which **focuses mainly on intelligent implants**, achieves all of the above. FITBONE® is currently the only fully implantable intramedullary nail for bone extension that can be controlled and adjusted via electromechanical traction. Intelligence is crucial to every step of the development process, right up to the end product.

Those who subscribe to individuality are forever confronted with new challenges. Whether in the design, manufacture, research or testing phase – when developing innovative gearing technology, WITTENSTEIN bastian GmbH always considers the unique requirements of the different application areas. This is how **individual solutions for motor racing, aerospace and robotics applications** are produced. WITTENSTEIN bastian GmbH redefines the concept of individuality on a daily basis: because the company is open to innovation and has the courage to explore unknown territory.



aerospace  
& simulation



WITTENSTEIN aerospace & simulation  
Air and space – electromechanical actuation systems

attocube systems AG  
Nano technology



Maximum effect, minimum weight – the efficiency of each component plays a vital role in the aerospace industry. The powerful electromechanical actuator systems manufactured by WITTENSTEIN aerospace & simulation GmbH represent both high quality and unique compactness. These highly efficient systems are used **in the new Airbus A380, prototypes of the Phoenix space plane and both military and commercial simulators**. Efficiency has adopted a unique meaning: Maximum performance combined with outstanding freedom of innovation.

attocube systems is a sought after partner for high-end laboratories in science and industry worldwide and specializes in integrated system solutions for custom applications in the field of nano technology. The company develops and produces an unrivaled product family comprised of **nano positioners, distance sensors, cryostats and complete microscope systems** – all of which operate reliably and precisely at the very limit of what is physically and technically possible.



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