Glimpse the future.
With clamping and drive technology from Ortlieb.
Company strategy with perspective.
Ortlieb sees itself as a company whose wealth of groundbreaking product innovations has allowed it to stand out from the rest throughout its history. We believe it is our duty to follow this precedent, both now and in the future – which is why, for some time now, we have been applying our company philosophy to our surroundings too. For example, 2017 has seen us complete the construction of and move into one of Baden-Württemberg’s most innovative company premises, which meets the very highest standards of functionality, energy efficiency and architectural design. Equipping the large production facility with state-of-the-art machine tools is a clear declaration of loyalty to Germany as our place of manufacture. As pioneers in our industry who always put the customer first, we promise our great many clients that we will set new benchmarks in quality, flexibility and productivity, and make processing times quicker than ever. The focus of our business activities in clamping and drive technology has always been on forming close relationships with our customers – and it will always be.

Innovation from tradition.

Dr Dieter Simpfendörfer, Managing Director
Three product lines – one promise: Quality.

Workpiece clamping

Tool clamping

Drive technology
For over a hundred years, Ortlieb has been a customer-centric partner for those seeking precise yet cost-effective tool and workpiece clamping solutions. A new tradition in mechatronic drive technology was established 20 years ago too. We are not only responding to market expectations but also calling upon tradition to assume the role of a leading driver of innovation at an international level.

**Historical Milestones:**

- **1911**: Collets for workpiece clamping, in particular for watchmakers’ lathes.
- **1925**: (Feed) collets for single- and multi-spindle automatic lathes.
- **1940**: Grinding machine for twist drills and threading.
- **1943**: QUADRO® – SSF lever-operated chuck for dead length collets in accordance with DIN 6343 for lathes.
- **1946**: Original Ortlieb high-performance collets for workpiece clamping. DIN ISO 10897 is based on this development.
- **1949**: ToolGrip® – SK clamping set interface for tools with steel taper interfaces in accordance with DIN 6987/72.
- **1950**: ToolGrip® – RFC/RFCJ collets for tool and workpiece clamping.
- **1965**: Rubber-Flex® – RFC/RFCJ collets for tool and workpiece clamping.
- **1967**: QUADRO® – dead length collet chuck for CNC lathes.
- **1969**: ToolGrip® – HSK clamping sets for tools with hollow shank taper interfaces for automated tool changing.
- **1974**: ToolGrip® – HSK clamping sets for tools with hollow shank taper interfaces for automated tool changing.
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- **2016**: ToolGrip® – HSK clamping sets for tools with hollow shank taper interfaces for automated tool changing.
- **2018**: ToolGrip® – HSK clamping sets for tools with hollow shank taper interfaces for automated tool changing.
- **2020**: ToolGrip® – HSK clamping sets for tools with hollow shank taper interfaces for automated tool changing.
- **2022**: ToolGrip® – HSK clamping sets for tools with hollow shank taper interfaces for automated tool changing.
- **2024**: ToolGrip® – HSK clamping sets for tools with hollow shank taper interfaces for automated tool changing.
- **2026**: ToolGrip® – HSK clamping sets for tools with hollow shank taper interfaces for automated tool changing.
- **2028**: ToolGrip® – HSK clamping sets for tools with hollow shank taper interfaces for automated tool changing.
- **2030**: ToolGrip® – HSK clamping sets for tools with hollow shank taper interfaces for automated tool changing.

**Notable Products:**

- **2002**: SPANNAX® – workpiece clamping system for lathes, mills and rotary transfer machines.
- **2010**: SERAC® – electric cylinder with integrated ASCA spindle.
- **2015**: VarioLine – VL e stationary clamping system as an end product compatible with Industry 4.0.
- **2016**: Monoblock® – HSK hollow shank taper clamping sets for tools with hollow shank taper interfaces. Suitable for HSC applications. Collet manufactured from a single blank.
- **2017**: Official opening of the new plant.
- **2019**: UltraLine – the ultra-precise collet chuck range for workpiece clamping.
- **2020**: CenterGrip – inside clamping system for workpiece clamping.
- **2022**: UltraLine – the ultra-precise collet chuck range for workpiece clamping.
- **2024**: CenterGrip – inside clamping system for workpiece clamping.

**Innovative Technologies:**

- ASCA – servo spindle, unique power density for automation, based on the planetary rolling threaded spindle (PRT) design principle.
- VarioLine – VL e stationary clamping system as an end product compatible with Industry 4.0.
- Monoblock® – HSK hollow shank taper clamping sets for tools with hollow shank taper interfaces. Suitable for HSC applications. Collet manufactured from a single blank.
Workpiece clamping – made individual with considerable variety. For all applications. On any machine.

Perfect for use in lathes, mills and rotary transfer machines.

Compact and lightweight yet also robust, Ortlieb products for workpiece clamping make it possible to perform just about all “individual” machining steps. Many of our products help minimise set-up times and downtimes. The electric drive technology they employ makes them not only more energy efficient than hydraulic systems, but also already ideally placed to cater to the demands of the digitalised industry of tomorrow. Custom-made clamping devices for workpiece automation complete our product portfolio perfectly.
Ortlieb tool clamping sets and systems are held in high regard by renowned machine tool manufacturers, who have been using them in their machinery for decades. Our product range comprises steep taper and hollow shank taper clamping sets for virtually maintenance-free operation, even with ceramic slide rings. Complete spring compressors, mechanical intensifying and locking units and electromechanical release units attest to our holistic approach. Numerous custom solutions also provide proof of our flexibility and capacity for innovation.
Drive systems with maximum power density.

Ultra-compact for space-restricted applications and extremely precise.

The high control performance of Ortlieb electrically powered drive systems enables them to be used in applications with very short cycle times in an axial force range of 5 to 300 kN. This means our products frequently offer a clean and economical alternative to hydraulic systems. Thanks to the slim design and extremely high power density of our SERAC® electric cylinders, in many situations it is possible to completely replace hydraulic cylinders without spending considerable time and money on construction work.
Unique attributes with significant effects.

- Precise control of force and position
- Highly dynamic
- Low noise generation
- Save as much as 80% energy and reduce cycle times by up to 50% in comparison with hydraulic solutions
- No leaks and no need to dispose of hydraulic oil
Innovations with profound impact.

Inventive genius and expertise.

Thanks to its distinguished tradition, Ortlieb can lay claim to be one of the world’s leading drivers of innovation in its industry. This claim is based on the combination of Swabian inventive genius, over 100 years’ experience and dependable, long-established values. The history of our company has been shaped by a number of groundbreaking product innovations that were all born from the desire to make our customers’ work processes easier – through increased dynamics, greater flexibility, easier operation or optimisation according to economic and eco-friendly assessment criteria.
VarioLine – workpiece clamping for non-rotating applications.

Innovative
When permanently installed in the machine tool, the clamping force, clamping force control, status and the stop can be monitored electronically. VarioLine – perfect networking in terms of Industry 4.0.

Efficient
Targeted monitoring and control lead to efficient use of the machine. Perfect for unattended operation and series manufacture. Identify and enhance potential.

Cost-efficient
Electronic drive technology now also incorporated in clamping technology. Save money compared to energy-intensive monitoring using compressed air.

Flexible
For mobile or stationary use, or in the variable conversion from internal to external clamping. A practical additional function of the VarioLine clamping systems for expanding the number of potential applications.
Custom solutions with maximum individuality.
We develop solutions – for you and with you.

At Ortlieb you benefit from the synergy effects of our integrated organisation and manufacturing structures. In terms of practical advantages, this brings you more innovation, greater dynamics and maximum flexibility. This means that in addition to offering a wide range of standard products, we can also create and deliver custom solutions in next to no time.

In this process, you benefit from professional advice and our employees’ many years of experience in the market and in the industry, right from the very beginning. Our experts work together with you to develop the best possible solutions, tailored precisely to your exact requirements.
“Our expertise means we can offer our customer quick yet individual solutions.”

**Technical competence**
We have a well-balanced mix of young, dynamic employees and experienced staff who have been with the company for a long time.

**Flexibility**
Our streamlined structures and efficient teams allow us to offer our customers maximum flexibility – even when developing custom solutions. Together we will find a solution.

**Quality**
We develop premium-quality products with performance you can rely on. This is why Ortlieb makes most of its products in-house.

**Speed**
We guarantee fast processing and reaction times. Our decades of experience enables us to create not only standard but also custom solutions in next to no time.
Comprehensive expert service.

We are always there for you.

The tasks and challenges our customers face are becoming ever more complex, which means that we as a manufacturer need to support them with a fast, flexible, efficient and extensive range of services. Our advisers, engineers and developers are always there for you to provide enthusiastic assistance with whatever you need.

Advice

We offer personalised, tailored advice at your company’s premises, as we believe this is the best way to understand your needs and develop the perfect solutions for you.

Additional service for drive technology.

Hire purchase

You can hire our standard products to test risk-free for up to four weeks. If you decide to make a purchase, we will deem the rental costs to be part payment.

Controller tuning

Once you have reached the limit of the standard settings and need assistance, controller tuning can be carried out by our experts on your premises.

Commissioning

The settings of your Ortlieb product are parametrised and optimised at your premises, with a view to enhancing efficiency.
Industry experience combined with knowledge of the demands of tomorrow.

From automotive to wind power.

**Industry expertise**

- Automotive industry
- Railway engineering
- Machine tools
- Steel industry
- Aviation and aerospace
- Custom machine and system construction
- Offshore
- Measurement technology
- Testing technology
- Medicine
- Plastics engineering
- Packing industry
- Textiles industry
- Agricultural and construction machinery
- Wind power
- Building services engineering
- Solar industry
- Paper industry
- Food industry
- Electronics industry
- Power plant technology
Both electric drive systems and clamping systems from Ortlieb are playing a pivotal role in advancing civilisation across almost all industries in numerous countries. Ortlieb electric drive systems, for example, are being used in space exploration, where the extremely precise positioning of cutting-edge telescopes under load has enabled new scientific findings to be made.
We look forward to hearing from you.
Clamping and drive technology from Ortlieb.