

SLIP RINGS

DEFENSE



YOU WILL BENEFIT FROM MANY YEARS OF EXPERIENCE IN THE DEFENSE SECTOR.

venturetec
ROTATING SYSTEMS



SLIP RINGS MADE IN GERMANY

“Made in Germany” is more than an attractive slogan. It`s a promise from us to you to provide the finest slip rings in the world while continuing to uphold the standards of design, quality and craftsmanship for which German engineering and manufacturing are revered. We develop and produce our slip rings exclusively in Germany, with the highest precision using state-of-the-art technology. This is how we guarantee reliable, durable solutions that are perfectly tailored to your requirements.

CONSULTING SERVICES

We help you optimize solutions for slip ring assemblies, whether for electrical, signal, power, contact, non-contact and rotary joints for fluid media, fiber optic, radar or hybrid combinations of all these elements to meet the technical, performance and envelope demands for your application. We draw on the extensive experience of our talented engineers to assess customer requirements, select suitable materials and apply our proven design and analytical principles to ensure that you achieve your goals. We do this and provide exceptional product quality at reasonable and competitive pricing.



SPECIALIST FOR HYBRID TRANSMISSION TECHNOLOGIES –
CONTACTING, CAPACITIVE, FIBER OPTIC, HIGH FREQUENCY, MEDIA

CYBERSECURITY & DATA PROTECTION

Protection of all data - yours & ours - is a paramount concern. Venturetec has created and implemented various protocols, encryption and access control methods to maintain data security. We continue to enhance our data protection processes and protocols as new threats evolve.

DEVELOPMENT & PROTOTYPING

In addition to the actual slip ring, we are able to supply all other necessary transmission technologies such as optics or rotary media feedthroughs as an integrator from a single source. By providing a prototype, the desired properties can be tested in the real operating environment and optimized if necessary.

QUALITY ASSURANCE & TESTING

We operate state-of-the-art test benches and R&D laboratories in our newly built headquarters in Bavaria. This enables us to carry out life cycle, endurance, electrical noise, transient voltage, surge and many other tests in-house. Slip ring assemblies of the highest quality and durability are the result of these efforts. Mechanical shock, vibration and environmental chamber tests as well as other complex tests can be carried out in cooperation with local partner institutes such as Intertek and IABG.

CAPABILITY ENHANCEMENT

It is often desirable not to completely replace proven slip ring assemblies but simply modernize them with newer technologies or upgrade their capabilities. Whether the slip ring is from Venturetec - or another manufacturer - our engineers and technical team create innovative solutions to solve your challenge. Venturetec can also refurbish slip ring assemblies, including those of other manufacturers and do so in a timely and cost-effective manner.

WAREHOUSE & SHIPMENT

Venturetec monitors and documents the entire production process. Our products are protected before shipment with moisture-proof bags or a moisture barrier, packed in export-ready crates or corrugated cardboard boxes and stored according to the customer's requirements. All packaging includes shipping labels, handling and lifting instructions. For air freight services, we benefit from our convenient location just 90 min. by car from Munich Airport.



CUSTOMIZED
DEVELOPMENT



EXPERIENCED
ENGINEERING

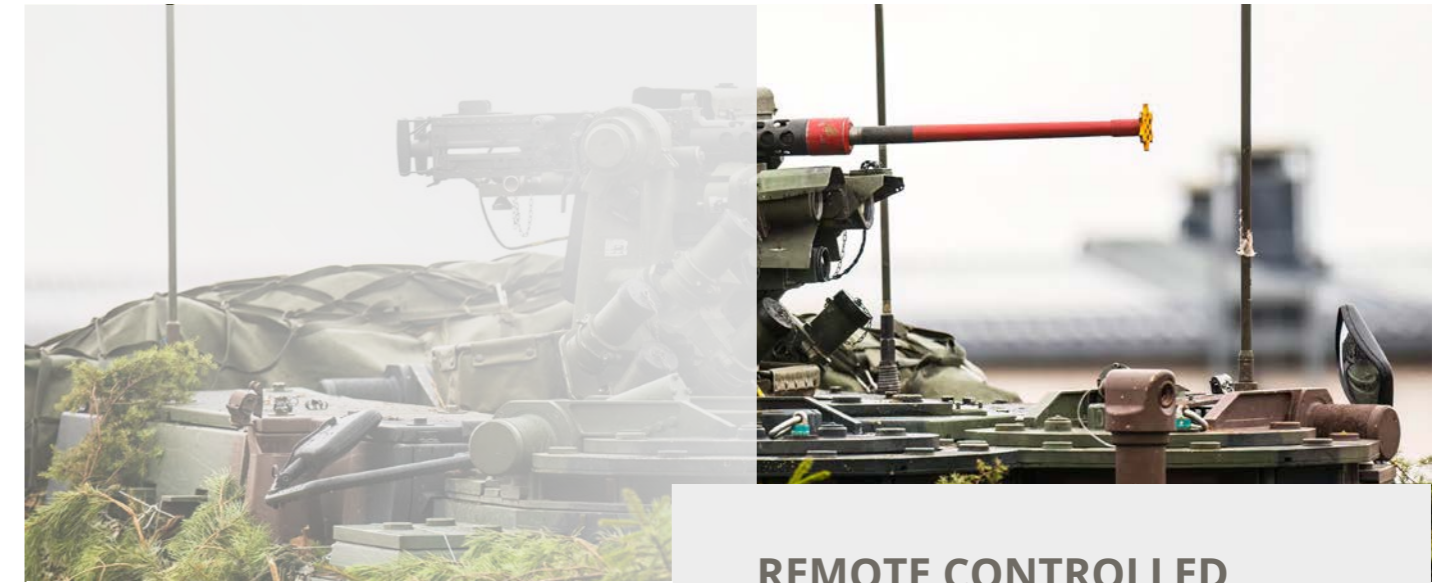


FORJ & MEDIA
INTEGRATION



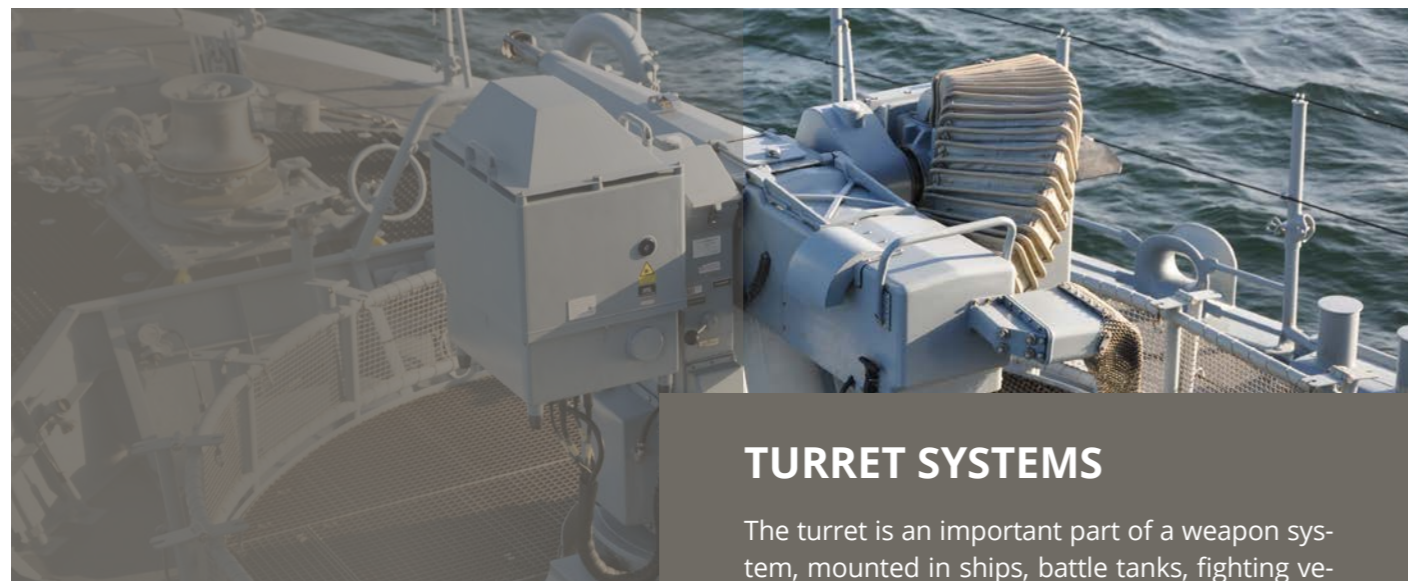
TESTED FOR HARSH
CONDITIONS

DEFENSE APPLICATIONS & SERVICES



REMOTE CONTROLLED WEAPON STATIONS

Such systems (RCWS / CROWS) can be installed on the ground or as part of mobile platforms. They enable the operator to detect and engage targets from a distance. The mount can be rotated 360° and often also includes a daylight video camera, a thermal imaging camera and a laser rangefinder.



TURRET SYSTEMS

The turret is an important part of a weapon system, mounted in ships, battle tanks, fighting vehicles or helicopters. Self-defense against threats demand systems and components with extreme reliability. Slip rings are vital components for precise function for turrets.

Our slip rings ensure that power, command & control, targeting information and other data are reliable transmitted via the rotating segments. This ensures continuity in actuation, target acquisition, cooling, ISR and more over the exceptionally long service life of our products.



AIR DEFENSE

Radar systems can identify flying objects at a distance of several hundred miles away. They are the backbone of any ground air defense network. A long service life of the installed slip rings with minimal maintenance requirements in conjunction with the required noise immunity are essential for this application of slip rings.





RECONNAISSANCE

The payload of drones (gimbal) can rotate freely in several axes thanks to the built-in slip rings. Many sensors, such as video and infrared cameras or laser rangefinders, can be used in parallel. Intelligence gathering and reconnaissance is an essential component of all armed forces in order to obtain an up-to-date picture of the battle situation.



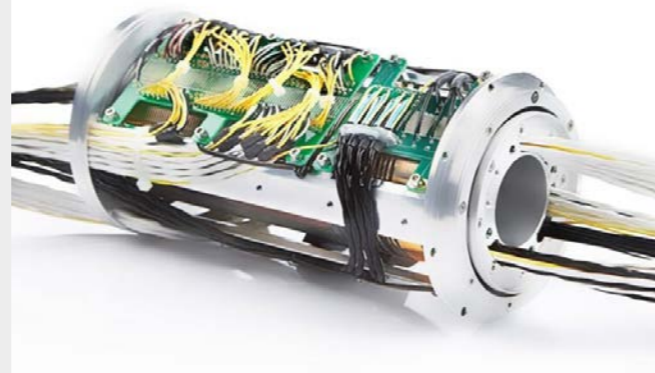
SATCOM

Today, satellite-based communication is an integral part of modern command and control systems. When installed in vehicles, ships and aircraft, maximum performance is required with minimum installation space. Thanks to various optimizations, our slip rings can meet all technical requirements while keeping the weight of your overall system as low as possible.



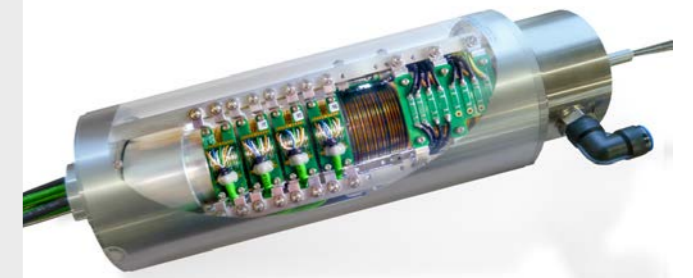
NAVAL

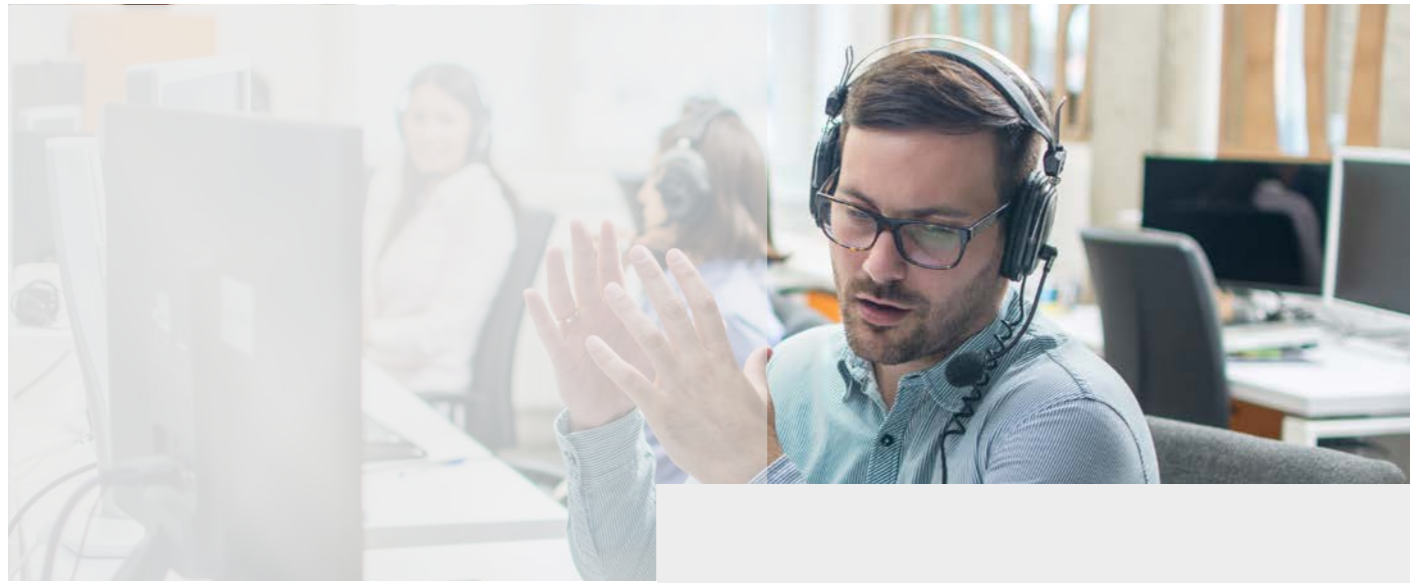
Modern optoelectronic mast systems are used for unobtrusive reconnaissance of the immediate surroundings and contain a range of sensors that can be used both in daylight and in the infrared range for night-time detection. Shortened elevations and fast sensor rotations can reduce the susceptibility to detection.



FLIGHT SIMULATOR / TRAINER

It is becoming increasingly important to familiarize pilots with the effects of spatial disorientation. A motion platform with six degrees of freedom (6-DOF) and an additional yaw axis module represents seven independently controlled axes of motion. The integrated slip ring enables a 360° rotation of the cabin for a realistic simulation.





AFTER SALES SERVICE

We offer a wide range of wear and spare parts to supply all types of slip rings, can advise you in detail and analyse with you which spare parts will make your rotary transfer units fit again for the next years. By selecting suitable components, the maintenance intervals of your application can even be extended.

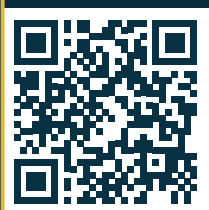


MAINTENANCE & REFURBISHING

Can your slip ring keep up with the growing demands? Systems that have been in use or in storage for many years can be checked and overhauled in-house. We offer a wide range of services for your system, regardless of the original manufacturer.



PROTECTING A WORLD IN MOTION



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