SLIP RINGS

for medical CT Scanners, security inspection systems and CT based industrial applications

Setting ideas in motion.
Our ROTOCT slip ring has been engineered to meet the specific requirements of CT scanners. It meets the highest demands in terms of accuracy and reliable transmission of power, signals and high-volume data. All components are carefully selected and combined to meet our customer's needs.

**Features**
- Customer specific solution
- Inner bore diameters up to 1.30 m (51 inches)
- Rotational speeds up to 300 rpm
- Innovative material composition
- Design according to: RoHS / REACH / UL94-V0 / IEC 60601 / CISPR 11

Eye diagram of 5 Gbit/s transmission

Development history
Power and signal transmission

The power and signal tracks are made of stainless steel, while a special-purpose metal/carbon compound is used for the brushes. This ensures a long service life and a high resistance to air pollution. Replacing brushes is quick and easy. A wear indicator at the tip shows when replacement is due.

**Features**
- Voltages up to 1000 V
- Currents up to 300 A
- Signals (CAN, RS422, etc.)
- Extended maintenance cycles

Data transmission

With the ever-increasing functionality of CT technology, the volume of data to be transmitted with ultimate accuracy and reliability increases steadily. Our solution is a contactless, capacitive data transmission system. As an additional benefit, our systems are wear-free, eliminating any maintenance requirements.

**Features**
- Data rate per channel up to 5.0 Gbit/s
- Uni-directional data transmission
- Bit error rate (BER) < $10^{-12}$
- EMI / ESD immunity according to: EN 60601-1-2:2015 (Ed. 4.0)
- Electrical or optical interface

Optional

**Encoder system**
- Installed encoder band
- Electronics

**Assembly tools**
- Alignment tool
- Spacer

**Maintenance set**
- Brushes for replacement
- Hand grinder
- Cleaning brush
GAT Gesellschaft für Antriebstechnik mbH with headquarters in Geisenheim, Germany, is a leading international technology company.

For about 40 years, GAT has been developing and producing tailored products for the most diverse industry applications in the electrotechnical transmission technology as well as fluid and sealing technology sectors.

GAT is a technology leader in the production of electrical slip rings, rotary unions, precision air bearings, as well as test rig equipment.

Our team of highly qualified engineers and product specialists offers competent expert advice by meeting the requirements of our customers and, choosing from our wide range of products, to deliver a standard or custom-made solution.

We design, produce and distribute high-tech precision products used in machine and plant engineering as well as energy generation worldwide.

The product specialists in our 18 sales offices located around the world make sure that customers receive competent technical advice and that economic considerations are taken into account. All this contributes to the success of our customers.

Do you have any questions?

Please contact our team of qualified engineers and product specialists. We are looking forward to developing solutions together with you that will meet all current and future requirements.

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Made in Germany