

RDS-C Link



Cycloidal Gears with Integrated Position Sensing

The RDS-C Link combines the cycloidal gears of the RDS-C series (hollow shaft gearheads with parallel-axis drive) with a specially tuned FLUX encoder. This compact solution enables precise positioning while reducing design and integration efforts and can be implemented for various sizes of the RDS-C series. Additionally, other gearbox sizes and custom solutions are available upon request.

FLUX Encoder for High-Precision Position Detection

The IND-ROT series inductive FLUX encoder operates on a contactless measurement principle and is specifically designed to meet the requirements of the RDS-C Link. Via the hollow shaft connected to the output shaft, it detects the absolute position directly at the output, thereby ensuring more accurate position determination. With a resolution of up to 22 bits and an accuracy of up to ± 18 arcseconds, the FLUX encoder ensures highly precise

and reliable position feedback. Thanks to its inductive measurement principle, it is also suitable for use in harsh environments, such as when optical systems cannot be used due to dust, contamination, or condensation. In addition, the encoder features high EMC compatibility.

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Benefits:

- Direct position detection at the output shaft
- Higher positioning accuracy
- Precise positioning even under load
- Compensating for System-Inherited Rigidity
- Multiturn
- Compensation for Gearbox Wear and the Effects of Temperature
- Compact design
- Less design and integration effort
- Can be used even in harsh environments. Resistant to dust, dirt, and condensation
- High EMC compatibility

Applications:

The RDS-C Link is designed for applications where even the smallest angular deviations can be critical - such as in satellite, antenna, and radar systems, or in medical technology. In these applications, precisely defined alignment and reliable position feedback are essential. The gear's excellent synchronous running characteristics ensure smooth and consistent motion.

- Satellite systems
- Antenna systems
- Radar systems
- Irradiation equipment
- Röntgensysteme

How can we support you?

+49 211 17279-0 | E-Mail: info@nabtesco.de | www.nabtesco.de

