

GMN

GMN SPINDLE TECHNOLOGY

Based on our many years of experience in developing and manufacturing high-quality machine components, GMN has specialized in the area of spindles and the production of high-performance and robust products for various applications. Decades of experience in development and top precision in manufacturing GMN machine spindles with certification under national and international quality standards secures permanent outstanding characteristics in regards to bearings, Speed suitability and machining.

The options for standardized series offer the best spindle solutions for nearly all applications. A variety of successfully-implemented GMN special designs confirms that we can develop outstanding, high-performance products to assist our customers in extraordinary construction projects.

Benefits for our customers:

- Over 80 years of experience in spindle technology
- High Precision spindle bearings from our own factory
- Excellent performance
- Reliable operational safety
- Use of quality components of selected premium manufacturers
- Consistently outstanding quality characteristics
- Wide selection of equipment options
- Special solutions in every lot size
- 24-hour spindle service

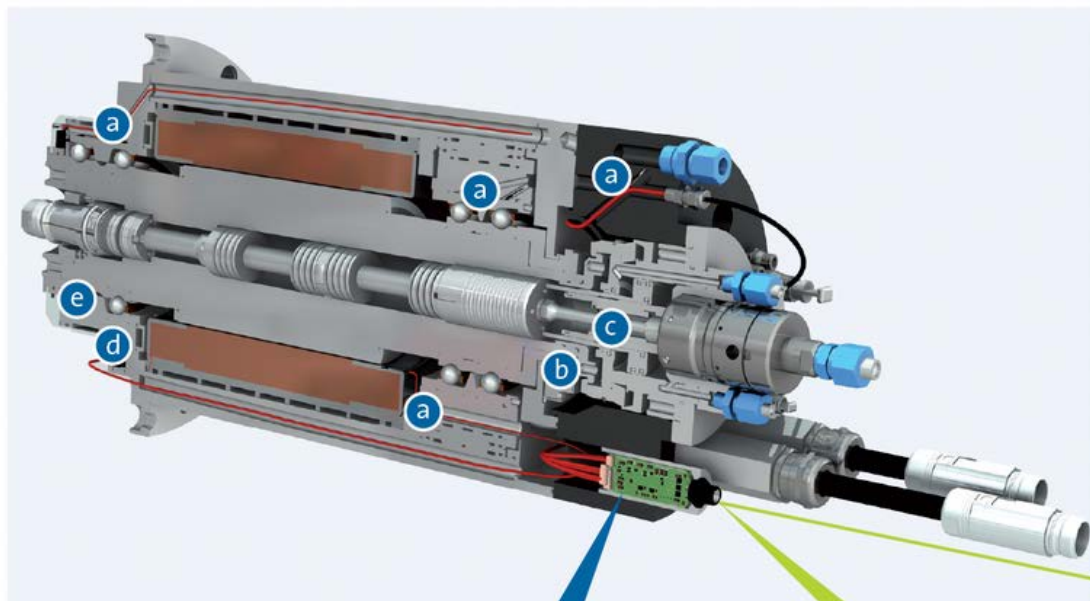


GMN IDEA-4S

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Based IDEA-4S (Integrated Data Evaluation and Acquisition for Spindles) is an electronic system developed by GMN and integrated into spindles for acquiring and evaluating data. Conventional spindles only allow a unidirectional data flow from the spindle sensors to the machine controller. Furthermore, the increasing amount of different measurement data requires complex cable routings, which makes installation as well as maintenance difficult.

The GMN electronic system IDEA-4S with IO-Link interface significantly simplifies the required cable architecture and supports reciprocal communication between the spindle and all machine controllers.



Sensors	GMN <i>IDEA-4S</i>	IO-Link
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a Temperature

- Bearing
- Motor:
- Cooling

**b Speed
Rotation angle**

c Tool clamping

d Oscillation

e Axial displacement

Measurement data

- Acquisition
- Recording
- Evaluation & monitoring
- Transmission

Optional

- + EIA-485
- + Optical fiber