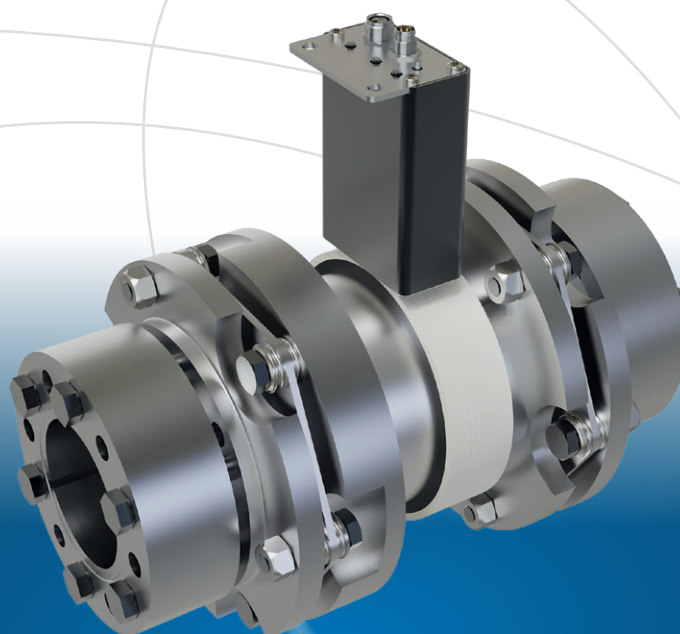




*your reliable partner*



**ROBA®-drive-checker**

## ROBA<sup>®</sup>-drive-checker – the measuring machine element

The torque-measuring shaft coupling ROBA<sup>®</sup>-drive-checker is a new component in the tried-and-tested modular system of our backlash-free ROBA<sup>®</sup>-DS disk pack coupling. The main elements of the ROBA<sup>®</sup>-drive-checker are the multi-gateway and measuring sleeve. The multi-gateway ensures robust, reliable data transfer – as a transmitter and receiver. The measuring sleeve between two misalignment-compensating ROBA-DS disk packs measures the torque with proven strain gauge technology. The system permits uncomplicated condition monitoring of machines and systems as well as calibration when installed. With data from the coupling, machines can be optimally integrated into smart production environments. The drive line is made fit for Industry 4.0 with a minimal investment. The user maintains complete control of their data. External cloud systems or software from third parties are unnecessary. The ROBA-drive-checker has been developed in its entirety by *mayr*<sup>®</sup>. The complete package is delivered from a single source.

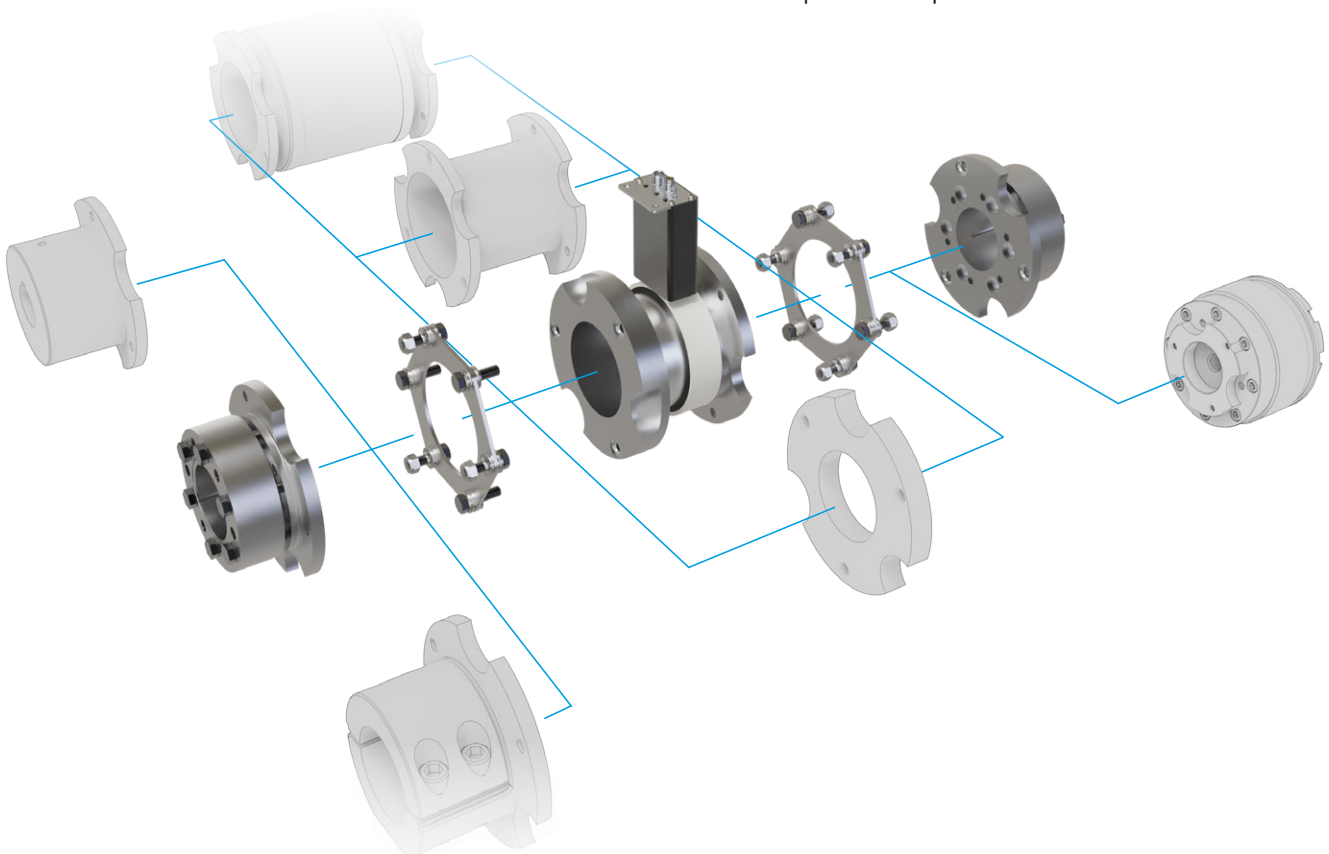
### Easy integration

- Easy to integrate in the drive line as part of the ROBA<sup>®</sup>-DS standard modular system
- All connection options of the ROBA<sup>®</sup>-DS steel disk pack coupling are available
- Connection to EAS<sup>®</sup> torque limiters possible
- Multi-gateway easy to position thanks to optical markings on measuring sleeve and multi-gateway as well as traffic light LED signals
- No battery changes or charging necessary
- One size fits all – the multi-gateway has the same compact form factor for all construction sizes

### Valuable data for maximum productivity

The ROBA<sup>®</sup>-drive-checker's multi-gateway ensures energy transfer and sends and receives data. This way it monitors the machine, delivers various information from the drive line reliably and is not affected by interference. In addition, adjustments can be made after the system is mounted.

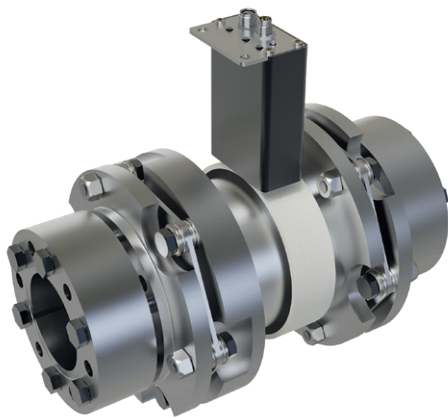
- Safe and interference-free connection via Ethernet
- Proven analog outputs for easy integration in existing systems; analog bandwidth up to 1.5 kHz
- Digital signal input and output
- Display on web-based, clear dashboard
- Contactless energy transfer
- Interference-free data transmission, even from the housing; IP67 protection – suitable for harsh environments
- Torque, speed and temperature measurable; further parameters possible in future



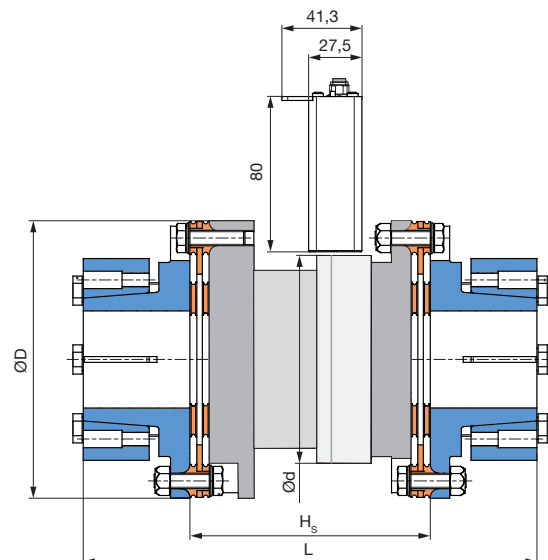
## Practical operation

The ROBA<sup>®</sup>-drive-checker has been designed for practical use. Quickly readable signals can be identified easily and reliably, without leaving any room for misinterpretation.

- Sampling rate, resolution and other parameters can be set directly on the dashboard
- Status check directly on the device via quickly identifiable LED signal
- Simple startup with only one physical switch on the multi-gateway
- Industrial network port with low error potential in the connection



| Dimensions<br>[mm] | Size  |       |     |       |
|--------------------|-------|-------|-----|-------|
|                    | 16    | 40    | 100 | 160   |
| D                  | 77    | 104   | 143 | 167   |
| d                  | 70    | 86    | 107 | 131   |
| H                  | 107.7 | 116.8 | 124 | 144.7 |
| L                  | 177.7 | 206.8 | 234 | 264.7 |



| Technical Data                        |                            |                 | Size             |       |      |      |     |
|---------------------------------------|----------------------------|-----------------|------------------|-------|------|------|-----|
|                                       |                            |                 | 16               | 40    | 100  | 160  |     |
| Nominal torque                        | T <sub>KN</sub>            | [Nm]            | 190              | 450   | 800  | 1600 |     |
| Peak torque                           | T <sub>KS</sub>            | [Nm]            | 285              | 675   | 1200 | 2400 |     |
| Maximum speed                         | n <sub>max</sub>           | [rpm]           | 13600            | 10100 | 7300 | 6200 |     |
| Permitted misalignments <sup>6)</sup> | perm. axial displacement   | ΔK <sub>a</sub> | [mm]             | 1.1   | 1.5  | 2.1  | 2.5 |
|                                       | perm. angular misalignment | ΔK <sub>w</sub> | [°]              | 1     | 1    | 1    | 1   |
|                                       | perm. radial misalignment  | ΔK <sub>r</sub> | [mm]             | 1.7   | 1.9  | 2.0  | 2.3 |
| Supply voltage DC                     |                            | [V]             | 24               |       |      |      |     |
| Max. current consumption              |                            | [A]             | 0.5              |       |      |      |     |
| Analog current signal output          |                            | [mA]            | 0...20           |       |      |      |     |
| Analog voltage signal output          |                            | [V]             | 0...10           |       |      |      |     |
| Digital signal output                 |                            |                 | http, Modbus/TCP |       |      |      |     |
| Temperature range                     |                            | [°C]            | -20 to +60       |       |      |      |     |
| Protection                            |                            |                 | IP67             |       |      |      |     |
| Maximum measuring rate analog         |                            | [Hz]            | 2500             |       |      |      |     |
| Accuracy class                        |                            |                 | 1                |       |      |      |     |

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You can find the complete contact details for the representative responsible for your area in the Contact section at [www.mayr.com](http://www.mayr.com)