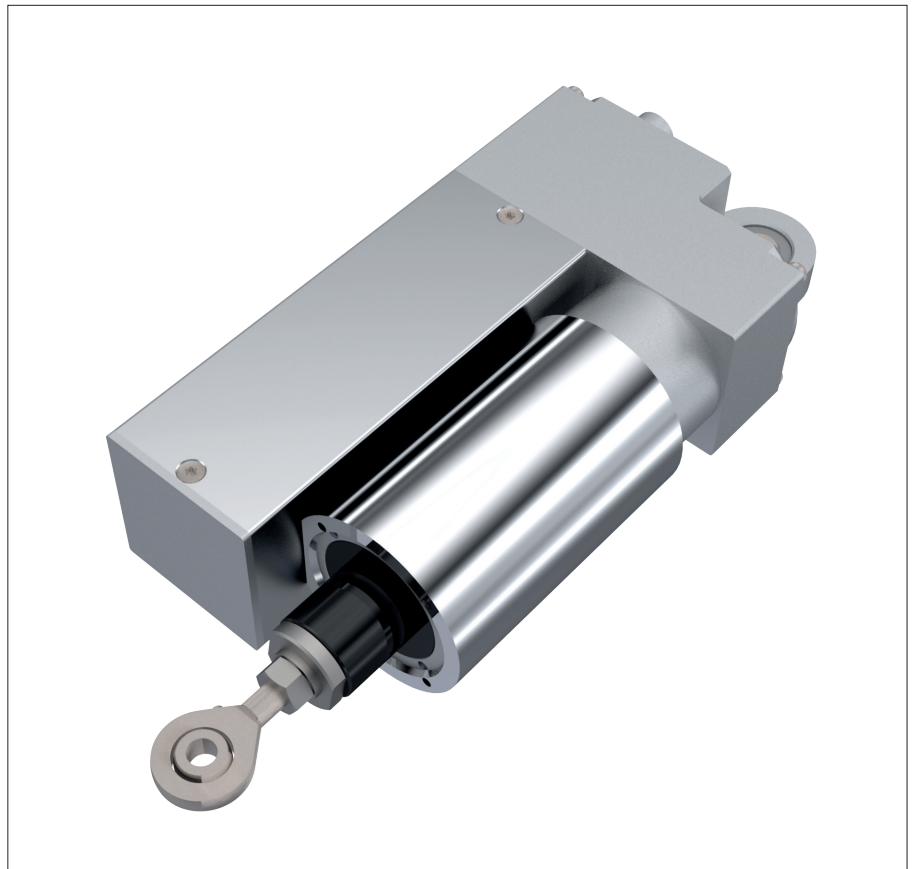


## Linear actuating drive AG 72

Actuating drive in U-design with permanently excited synchronous machine (BLDC motor), particularly suitable for applications requiring very smooth running and a long service life

- High-resolution Multiturn encoder to detect the rotor position and the absolute position
- Absolute position detection, even in cases of voltage failure (without buffer battery)
- Space-saving design through integrated control electronics
- High power density and overload capability
- Integrated temperature monitoring
- Simple configuration via Web-Based Management with standard web browser



## Control structure, linear actuating drive

### Functions

Cascaded control structure for different tasks:

- Position control
- Speed control
- Torque control

Limitation of the relevant process variables

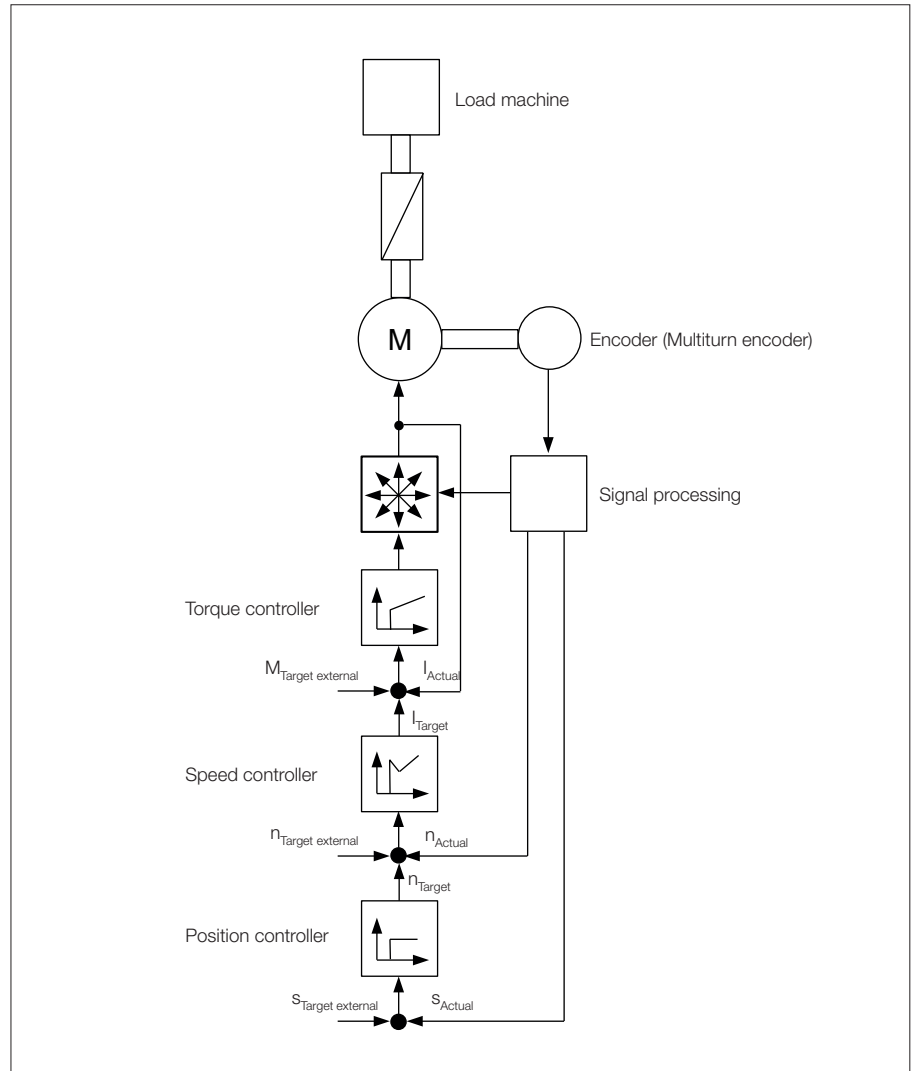
- Position
- Speed
- Acceleration
- Surge
- Force

Status monitoring of the relevant process variables

- Temperature
- Current
- Power consumption

Fieldbus connection, allowing immediate inclusion in the existing infrastructure

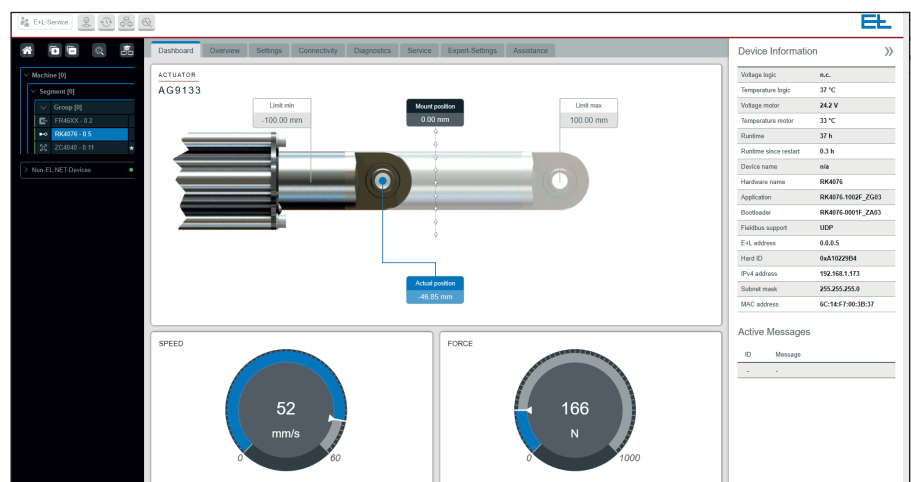
- ProfiNet (GSD)
- Ethernet/IP (EDS)
- Ethernet UDP



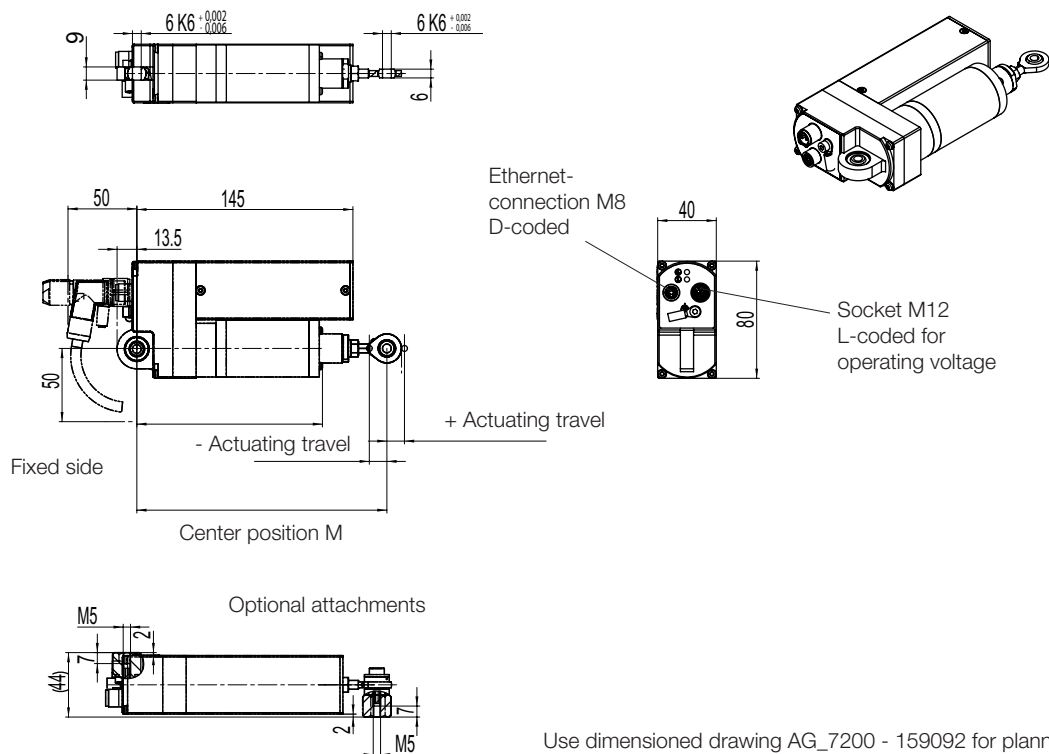
Control structure

### Commissioning and service

- BLDC motor with integrated web server
- Customer-friendly commissioning with prompts and service via standard web browser
- All the necessary functions can be displayed and configured in the browser
- Network overview
- Control group overview
- Parameter overview, drives



Web-based management for the actuating drive



**Selection table**

| Type    | Nominal actuating travel (mm) | L (mm) |
|---------|-------------------------------|--------|
| AG 7213 | $\pm 6$                       | 153    |
| AG 7223 | $\pm 12$                      | 171    |
| AG 7233 | $\pm 15$                      | 180    |
| AG 7243 | $\pm 25$                      | 210    |
| AG 7263 | $\pm 50$                      | 285    |

### Technical Data

|                                                     |                                                                          |
|-----------------------------------------------------|--------------------------------------------------------------------------|
| Operating voltage                                   |                                                                          |
| Nominal value                                       | 24 V DC                                                                  |
| Nominal range (ripple included)                     | 20 to 30 V DC                                                            |
| Nominal voltage                                     | 2.5 A                                                                    |
| Electrical connections                              |                                                                          |
| Fieldbus                                            | M8 D-encoded, 4-pin                                                      |
| Ethernet UDP, Ethernet IP, Profinet                 |                                                                          |
| Operating voltage                                   | M12 L-encoded, 5-pin                                                     |
| Multiturn encoder resolution                        | 12 bits/revolution (4096 increments)                                     |
| Absolute positioning accuracy / Repetition accuracy | $\pm 30 \mu\text{m}$                                                     |
| Nominal actuating travel                            | see table                                                                |
| Nominal actuating speed                             | 60 mm/s                                                                  |
| Nominal actuating force                             | 250 N                                                                    |
| Ambient temperature                                 | +10 to +60 °C                                                            |
| Storage temperature                                 | -20 to +80 °C                                                            |
| Relative air humidity                               | 15 to 95 % (without condensation)                                        |
| Installation altitude                               | 0 to 3000 m above mean sea level                                         |
| Weight                                              | Approx. 1.0 kg (length-dependent)                                        |
| Insulation class                                    | B                                                                        |
| Certifications                                      | Declaration of incorporation according to Machinery directive 2006/42/EC |
| Protection class                                    | IP 54                                                                    |
| Dimensions                                          | see dimension drawing                                                    |

Subject to technical change without notice

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