

maxon Standard Specification

With our Standard Specification we offer you a means to judge maxon gearheads in the most important respects. To our knowledge it covers normal applications. The Standard Specification is part of our "General Conditions of Sale". If additional requirements need to be met, we shall cooperate with you to work out more detailed specifications.

For information on standards and directives, refer to page 14 and 15.

The Standard Specification No. 102 for maxon gear

1. Principles

The **Standard Specification** defines checks and tests performed on the complete gearhead and during the production process. In order to guarantee our high quality standard, we check compliance to specified measurements and characteristics of materials, parts and subassemblies through the manufacturing process and the complete gearhead. The obtained measurements are recorded and can be made available to customers if required. Random sampling plans are according to ISO 2859, and DIN/ISO 3951 (inspection by attributes, sequential sampling, variables inspection) as well as internal manufacturing controls. This Standard Specification always applies unless a different one has been agreed between the customer and maxon.

2. Data

2.1 Mechanical data per outline drawing: Standard measuring instruments (for electrical length measuring DIN 32876, micrometer per DIN 863, dial indicator DIN 878, caliper per DIN 862, bore caliper DIN 2245, thread caliper per DIN 2280 and others) are used.

2.2 Noise: Tests are carried out for anomalies within a lot on a subjective basis. Depending on speed the motions in the gearhead cause noise and vibration of varying degrees, frequency and intensity. The noise level experienced with a single sample unit should not be interpreted as indicative of the noise or vibration level to be expected of future deliveries.

2.3 Service life: Durability tests are carried out under uniform internal criteria as part of product certification. A gearhead's service life essentially depends on the operating and ambient conditions. Consequently, the many possible variations do not allow us to make a general statement on service life. Minimum expected service life for the relevant maxon gears is based on standard conditions

- 25°C
- Normal storage conditions
- Horizontal position of the unit
- No axial and radial load on the output shaft

2.4 Environmental influences

Protection against corrosion: Our products are tested during product certification on the basis of DIN EN 60068-2-30.

Coating of components: Surface treatment and coating procedures used by maxon are selected on the basis of their merits to resist corrosion. These treatments are evaluated at product certification according to their applicable standard.

3. Parameters that differ from or are additional to the data sheet can be set and are a central part of our systematic testing as the customer's specification. Test/inspection certificates are issued by prior agreement.

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