



Compact and highly efficient.

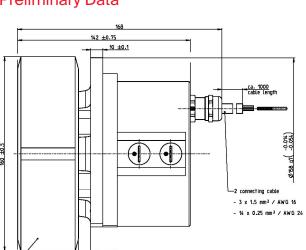
The new maxon wheel drive system for AGV and AMR.



MW 500

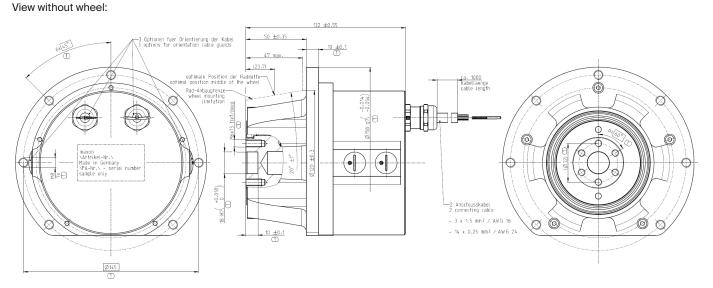
maxon wheel drive system Payload per drive ≤500 kg

Preliminary Data





wheel surface: Polyurethan 95±3 Shore A



M 1:3

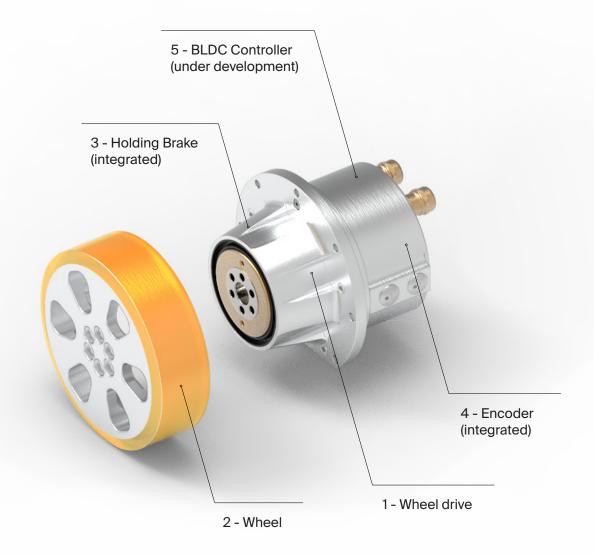
| Specification | ano. | | | |
|-----------------|---|--|--------|--------------------------|
| Specification 1 | Wheel drive | Max. radial load | kg | 500 |
| | | Nominal wheel speed @ nominal voltage | rpm | 20 - 290 |
| | | Nominal Voltage (max. 60) | VDC | 12 - 60 |
| | | Nominal current (max. rms current) | А | 12.1 - 3.28 |
| | | Nominal wheel torque (max. continuous torque) | Nm | 8.5 - 27 |
| | | Peak wheel torque < 5 sec | Nm | 70 |
| | | Type of protection | IP | 54 (65/67) |
| | | Operating temperature | °C | 0+50 |
| | | Basic weight | kg | 6 |
| | | Life time | h | 10000 |
| 2 | Wheel | Diameter (and customized) | mm | 160 other dia on request |
| 3 | Holding Brake (integrated) | Braking torque 24 VDC (reduced losses at 12 V) | Nm | Up to 110 |
| | | | W | (<< 3) |
| 4.1 | Encoder (integrated Hall Sensors) | Signal line (Single ended) | signal | H1, H2, H3 |
| 4.2 | Encoder (integrated) | Counts per turn | cpt | 1024 |
| 5.1 | BLDC Controller (integrated) | Interface (under development) | bus | CANopen |
| 5.2 | BLDC Controller (extern, e.g. EPOS4/MiniMACS) | Interface | bus | CANopen and EtherCAT |

All data depending on winding configuration and voltage level. Data under the condition of unit mouted on sufficient heat sink. Nominal values valid for 25°C ambient temperature. If the unit is run above 25°C ambient temperature, nominal values are reduced.



The new maxon wheel drive system for AGV and AMR.

- → Highly efficient
- → Compact
- → Modular
- → Highly reliable
- > Perfectly adaptable components





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