

Defense



Motor solutions for Military and Defense Systems

At Dunkermotoren, we understand the high demands of the defense industry. Our motors are designed to meet MIL standards (e.g., MIL-STD-810) for reliability, precision, and durability, whether on land or at sea.

Our motors are built to withstand extreme temperatures, high humidity, dust, and corrosive substances, making them ideal for defense applications in challenging environments.

Dunkermotoren's rotary and linear motors are perfect for a variety of military applicati-

ons, including drones, robotic systems, surveillance equipment, communication systems, marine systems, and ground vehicles. Experience unmatched accuracy with our motors, ensuring seamless and efficient operation in military applications such

as targeting systems and UAV navigation. Designed for maximum performance while minimizing energy consumption, our motors offer a ready-to-run system that is maintenance-free and reliable in the harshest desert, arctic, and marine environments.

Why we offer the perfect drive solution



Protection class up to IP69 K



Versions for extreme temperature ranges



Vibration and shock tested to railroad standard EN 61373



Extended battery life



Long service life, high duty cycles and long term availability

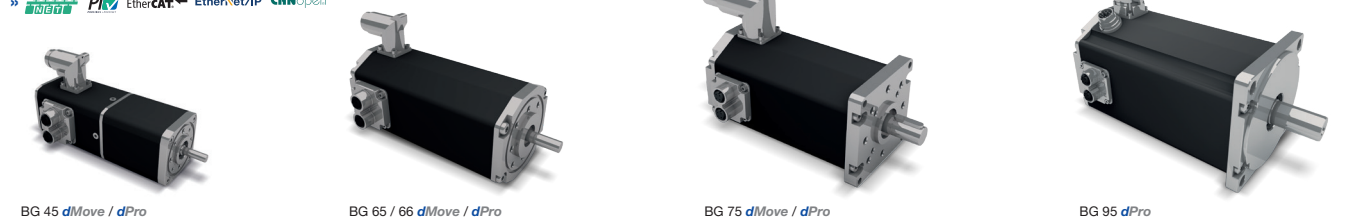


Intelligent drive solutions

Product Overview

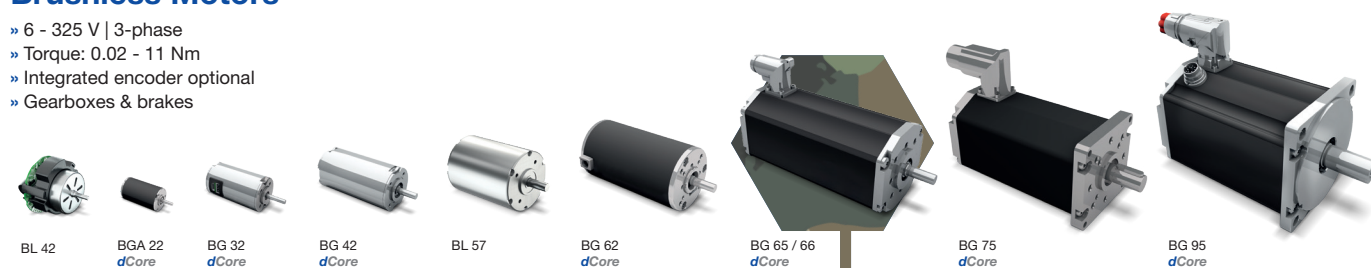
Smart DC Motors

- » 12 / 24 / 60 V DC
- » Torque: 0.1 - 12 Nm
- » Integrated motion controller
- »



Brushless Motors

- » 6 - 325 V | 3-phase
- » Torque: 0.02 - 11 Nm
- » Integrated encoder optional
- » Gearboxes & brakes



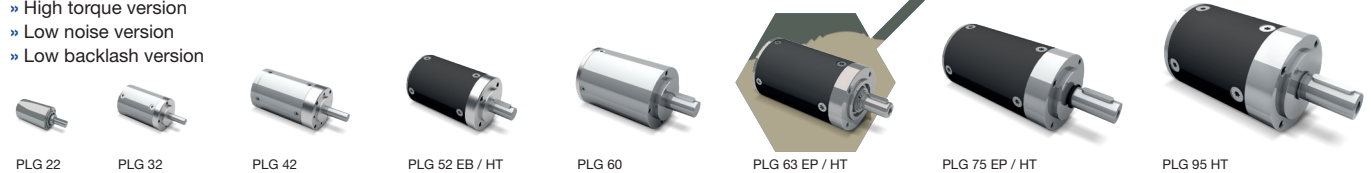
DC Motors

- » 3 - 230 V DC
- » Torque: 0.1 - 6 Nm
- » Speed: 2200 - 7000 rpm
- » Gearboxes, encoders & brakes



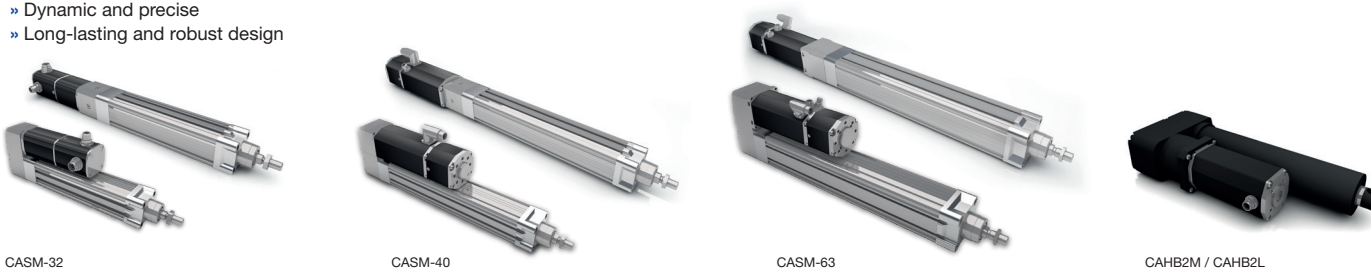
Planetary Gearboxes

- » High lifetime
- » High torque version
- » Low noise version
- » Low backlash version



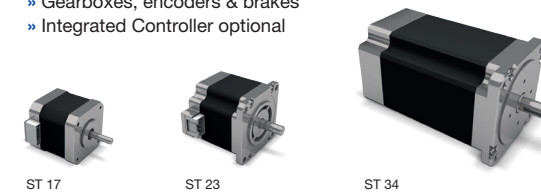
Electric Cylinder

- » Modular systems
- » Force: 74 - 5400 N (CASM) / 299 - 10 000 N (CAHB)
- » Dynamic and precise
- » Long-lasting and robust design



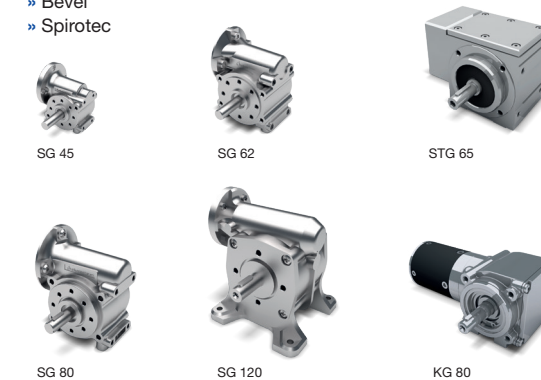
Stepper Motors

- » 2 phases, 1.8° step angle
- » Unipolar or bipolar
- » Holding torque: 0.08 - 12 Nm
- » Gearboxes, encoders & brakes
- » Integrated Controller optional



Angular Gearboxes

- » Worm
- » Bevel
- » Spirotec



Controls

- » For DC, BLDC, Stepper & Linear
- » 12 / 24 / 48 / 60 V DC, 230 / 400 V AC
- » Safe Torque Off
- »



Hub Gearboxes

- » Radiale load capacity up to 1 ton
- » High lifetime and robust design
- » Compact design
- » Offset version



”
One modular system,
endless possibilities
- military included



” Better
together

- » Robust Motor Solutions: Ranging from 1 to 4400 W output power
- » Customized Motor Designs: Tailor-made to meet specific military standards and environmental conditions
- » Engineering Consultancy: Our experts work closely with your team to identify the optimal motor solution
- » Rapid Prototype Development & Testing: Ensuring flawless performance of the motors under real-world conditions.
- » Lifecycle Support & Reliability Tests: Guaranteed performance for mission-critical applications.

” Our Drive
Components
in use

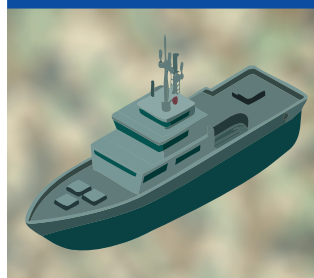


Dunkermotoren
Defense

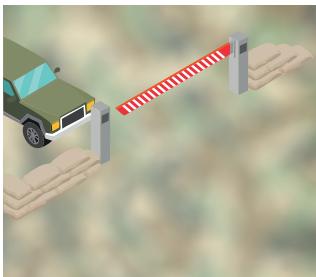
Ground forces



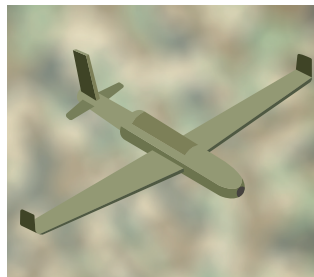
Naval forces



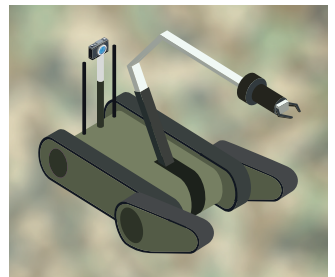
Reconnaissance



Safety



Defense StartUps



UGV (Unmanned Ground Vehicle)



www.dunkermotoren.com

Dunkermotoren GmbH | Allmendstraße 11 | 79848 Bonndorf · Germany
Phone: +49 7703 930-0 | E-Mail: info.dunkermotoren@ametek.com