

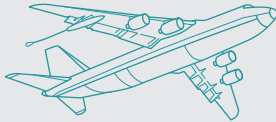
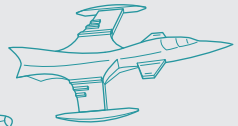


WITTENSTEIN

motion control

Reliability
Competence
Sustainability

The Future of Aerospace is Electric



Component Range

Planetary Gearboxes



- Product range up to 40000 Nm
- Gear ratios from 4:1 to 300 :1
- Backlash < 1 arcmin
- Operating conditions according to RTCA DO-160G / MIL-STD-810G
- WITTENSTEIN designed and manufactured

Brushless Motors



- Product range from 50 W up to 25 kW
- Voltage range from 28 VDC to 970 VDC
- Protected against partial discharge
- Operating conditions according to RTCA DO-160G / MIL-STD-810G
- Redundant winding per customer request
- Redundant motor feedback system (e.g. resolvers)
- Electronic ID plate
- WITTENSTEIN designed and manufactured

Motor-Gearbox Combination



- Weight optimized housing
- Lifetime grease lubrication

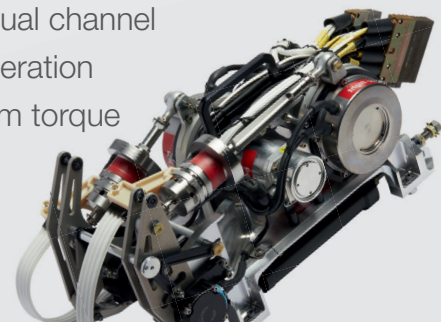
APFFA

- 2 axes active side stick
- Travel range up to +/- 10°
- Max. force 350 N @ 189 mm GRP
- Operating voltage 22...29 VDC
- Triplex redundant position measurement system for each axes
- Preloaded springs for passive restoring forces



AMSA

- AMSA Flight Actuation System
- Aircraft flight actuator with integrated safety coupling clutch
- Operating voltage 22...29 VDC
- In final stages of flight qualification on MH-47G Chinook
- Single or dual channel
- Failsafe operation
- Up to 64Nm torque





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WITTENSTEIN – one with the future
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