



Credit: U.S. Navy



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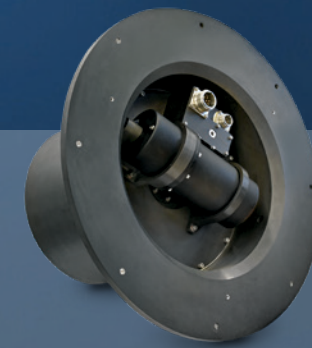
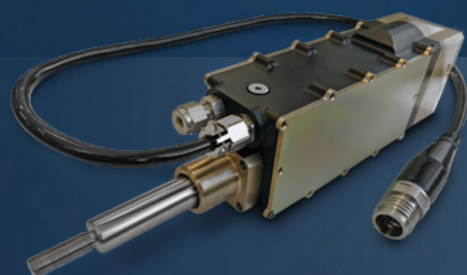
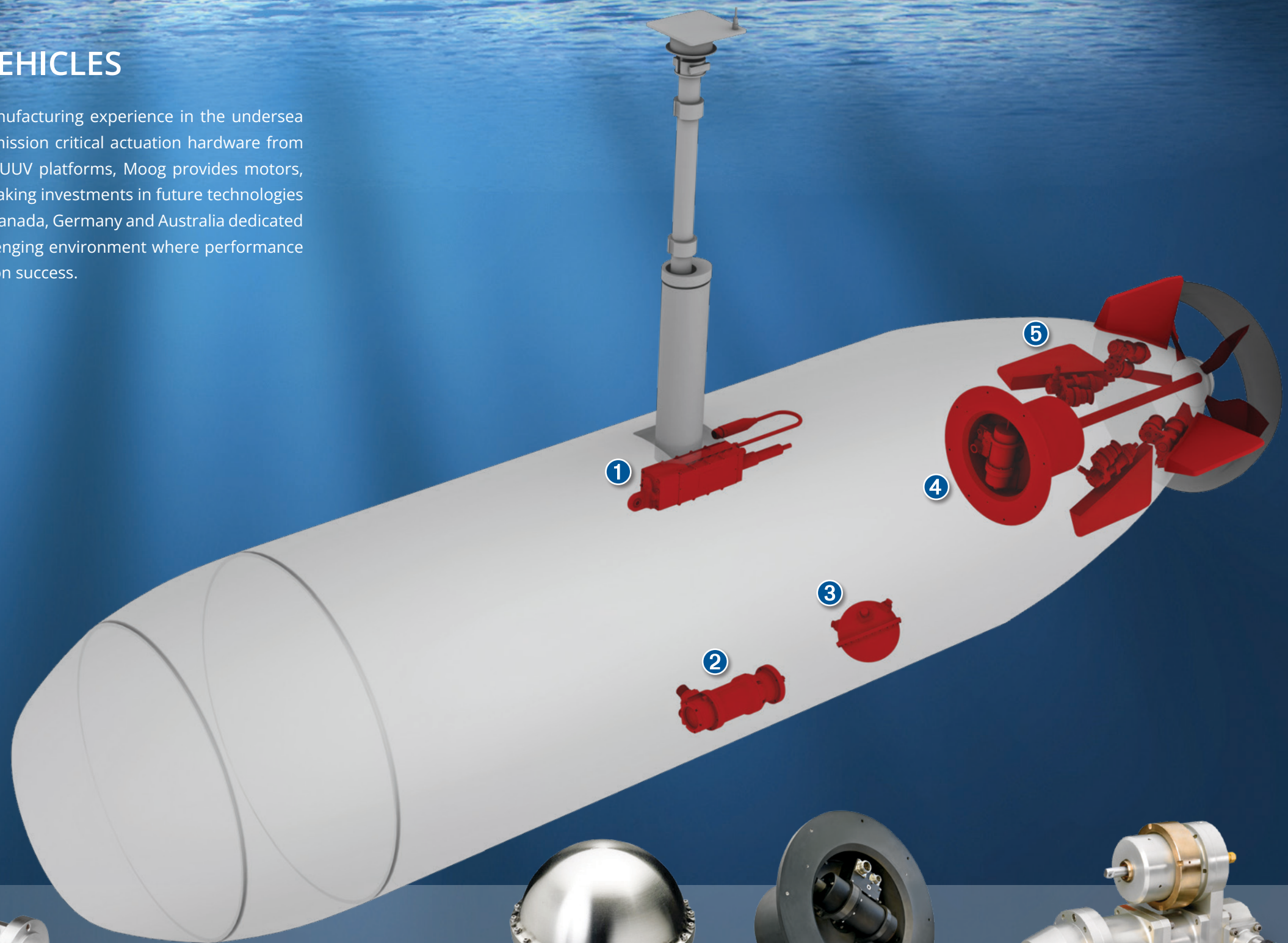
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MOTION CONTROL SOLUTIONS FOR UNMANNED UNDERSEA MISSIONS

QUIET, RELIABLE, AND EFFICIENT

LARGE UNMANNED UNDERSEA VEHICLES

Moog has over 50 years of motion control system design and manufacturing experience in the undersea domain. U.S. Navy submarine programs have relied on Moog for mission critical actuation hardware from the George Washington class to the Columbia class. For ROV and UUV platforms, Moog provides motors, controllers, actuators, servo valves, and other equipment. We are making investments in future technologies to support these platforms. Moog has facilities in the United States, Canada, Germany and Australia dedicated to the naval and marine industries. If your application is in a challenging environment where performance really matters, Moog has reliable, low risk solutions to ensure mission success.



1 LINEAR INTEGRATED ACTUATOR

Pressure compensated actuator for deep seawater submersion
2-6" of travel 40-400 lbs force

2 SMALL SUBSEA MOTOR

Pressure compensated motor for deep water submersion
Electronics provided in a separate 1 ATM housing or integrated with the motor
Various horsepower and operating power ranges

3 FIN ACTUATOR CONTROL ELECTRONICS

Up to 4 axis independent control
1 ATM housing designed for deep seawater submersion
Various power ranges and communication protocols

4 MAIN PROPULSION MOTORS

Various horsepower ranges
Pressure compensated for deep seawater submersion
Control electronics provided in a separate 1 ATM housing

5 FIN CONTROL ACTUATORS

Sinusoidal wound motors for quiet operation
Pressure compensated for deep seawater submersion
Various torque and power ranges
Various communication protocols

EQUIPPING THOSE WHO DEFEND FREEDOM



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