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Actuator Control Unit

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The Actuator Control Unit System or ACU System is a modular propulsion control system designed to be adaptable for multiple configurations with simple selection of modular components.

The ACU system can be used to control the waterjet deflector(s), waterjet steering, as well as engine throttle and gearbox engagement.

The main unit in the system is the ACU itself. The ACU is a controller box which can be connected to 3 different actuators depending on its role within the overall system.

The ACU can accept a analogue voltage signal (typically 0-5v), a CAN signal, or a mechanical input from morse cable via the built in potentiometer.

The ACU can be configured via the integrated button and 'traffic light' LED's.

Supply voltage	12 Vdc ±20 % or 24 Vdc ±20 %, reverse polarity protected
Idle current	typ. 50mA
Motor current	max. 26 A (at 65°C ambient temp. and 25 % duty cycle)
Current limit	26 A at 12 V, 13 A at 24 V
Overheat limit	90°C
PWM frequency	3,8 kHz
Position control signal	0 ... 5 V or potentiometer 5 kΩ ... 10 kΩ (scale can be calibrated)
Fault output	NPN open collector, max 30V / 200mA
EMC	CE-tested for marine environment
Operating ambient temp	-40...65 °C
Protection class	IP67
Dimensions	155x150x35 mm

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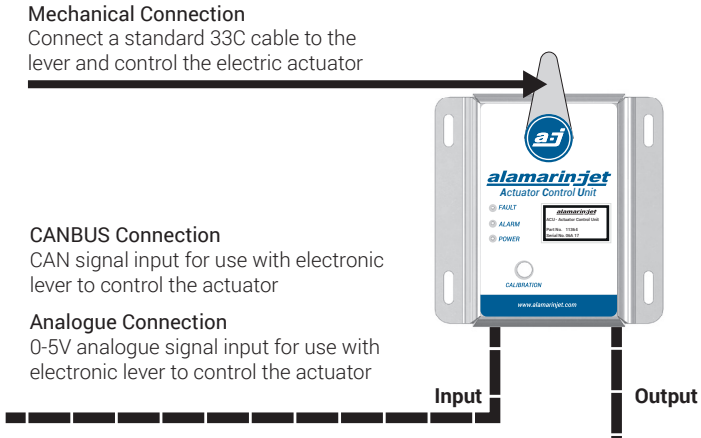
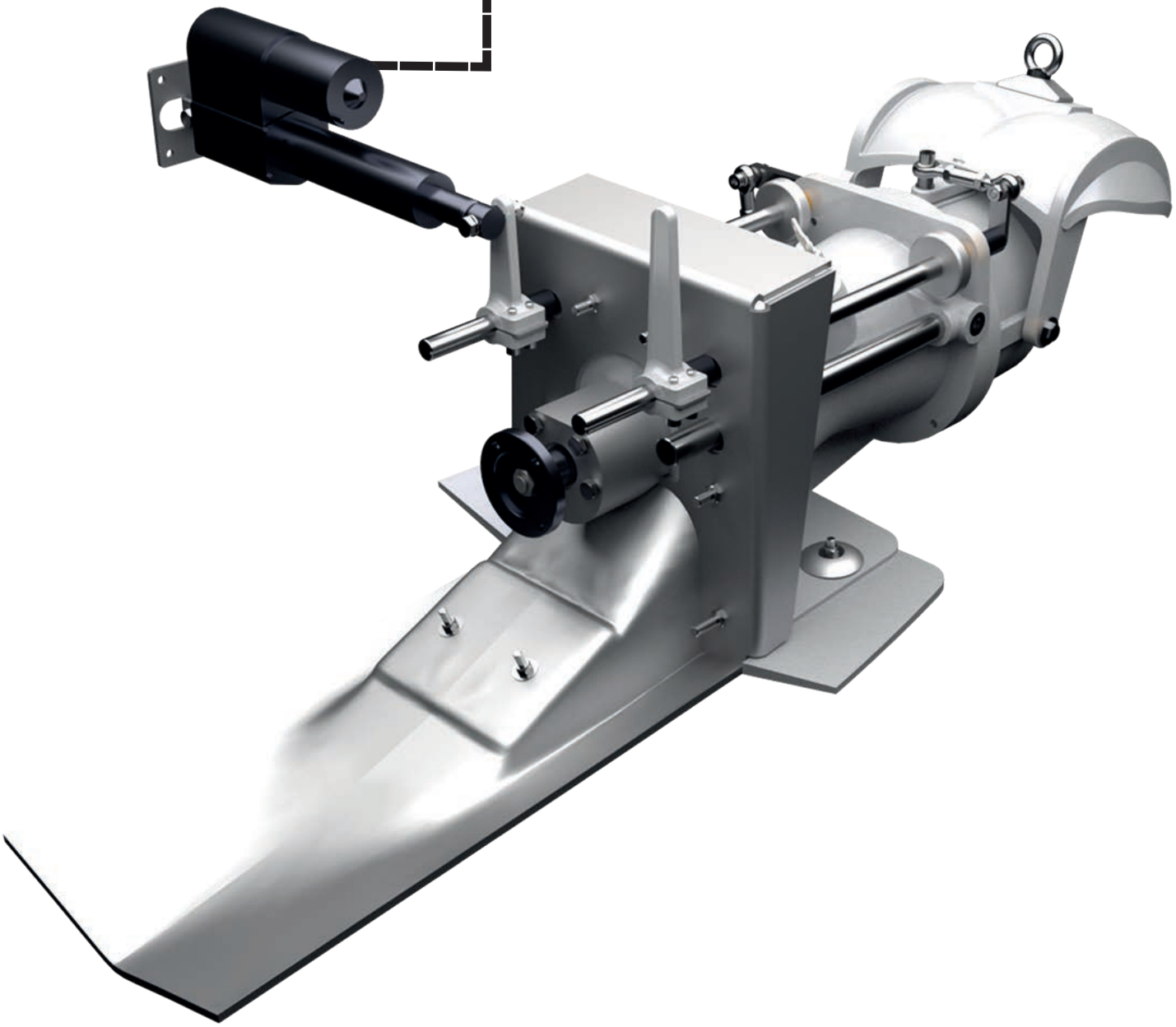


Setup : ACU-MD

For use with AJ 160, AJ 180 and AJ 185 mechanical deflector control



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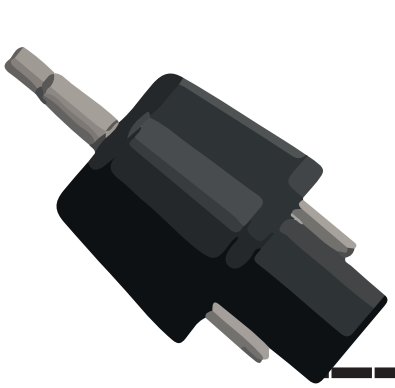
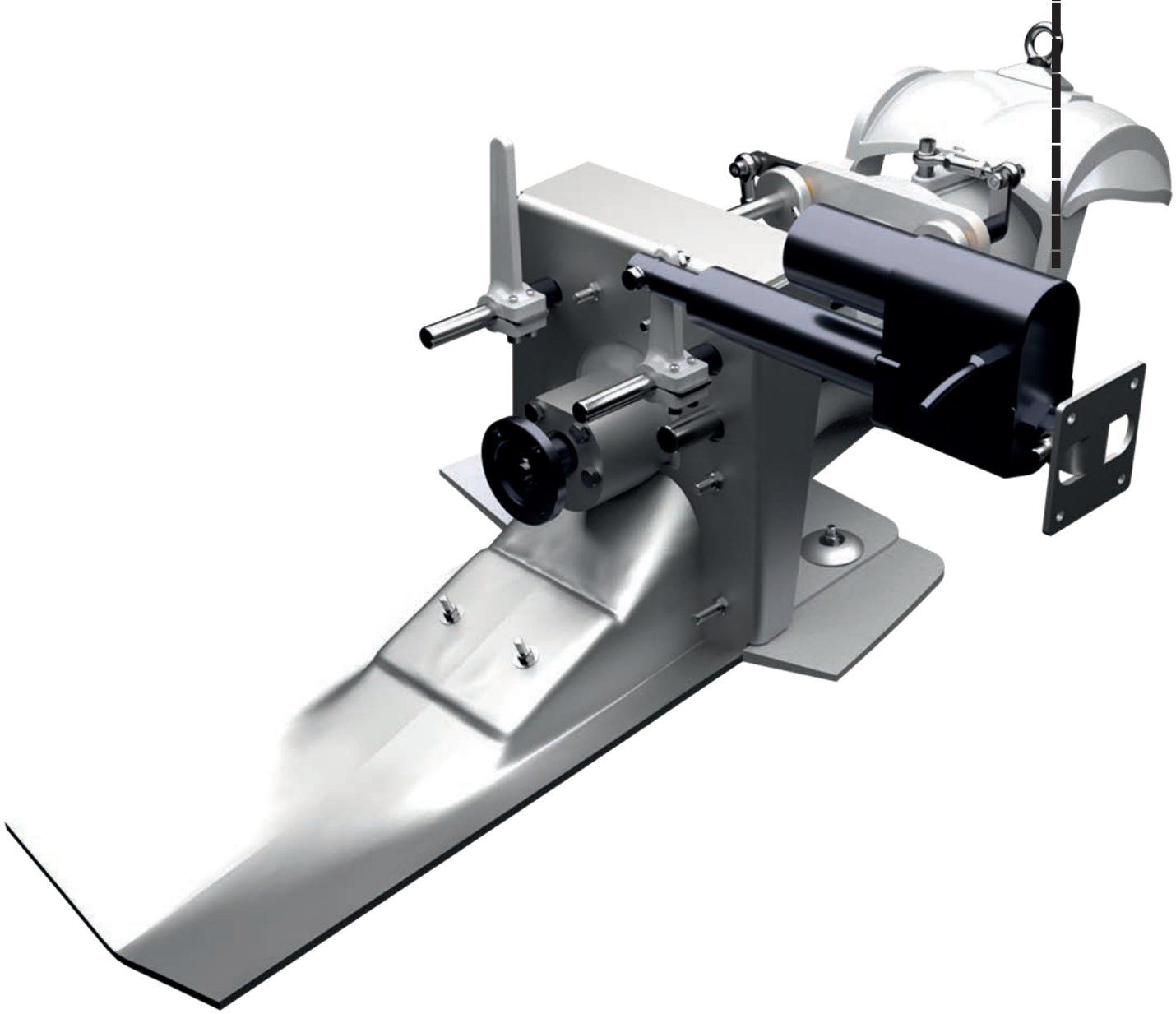


Setup : ACU-ES

For use with AJ 160, AJ 180 and AJ 185 mechanical steering control

E-Wheel

Output



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