

# Hammerhead XTR

## Miniature Rotator



### FEATURES

- ▶ Ultra-compact single-axis positioner
- ▶ Absolute position feedback
- ▶ Unlimited rotation
- ▶ Extra-high torque
- ▶ Variable-speed brushless motor
- ▶ Corrosion-resistant 316 stainless steel or 6061-T6 (AHC black) Aluminum housing
- ▶ Air-filled to 1,000m (3,300ft) or pressure-balanced, oil-filled to 6,000m (20,000ft)
- ▶ Multi-drop RS232 or RS485 (2-wire) control with soft-addressing allows up to 255 units on a single serial port
- ▶ ASCII protocol and Windows GUI
- ▶ User-settable soft-stops
- ▶ Wide input supply

*Technical specifications on reverse*

# Technical Specs

## Hammerhead XTR

PARAMETER	HAMMERHEAD XTR
Model Number	AR304
Depth Rating	1,000m (3,300ft) air-filled; 6,000m (19,700ft) oil-filled
Input Voltage	10–40VDC
Rated Torque (per axis @24V)	13.6N-m (10ft-lb)
Current Draw (per axis @24V)	No load: 120 mA, Rated load: 750mA; Limit: 850mA
Rotation Range (per axis)	Unlimited; soft limits may be set by user commands
Speed Range	Continuously variable 0–100%, in 1% increments
No Load Speed (max)	5 RPM
Payload	10kg (22Lbs)
Position Feedback (each axis)	Absolute. Resolution: 0.1°; Accuracy: 0.2°
Gearbox Backlash	*Backlash is measured and reported by encoders - 1.0° (60 arc-min)
Control	Multidrop RS232 or RS485 (2-wire); 254 soft-addresses
Housing Material	316 stainless steel or 6061-T6 AHC black anodized aluminum
Weight in Air (air-filled)	316 SS: 1.6kg (3.6Lbs); 6061AL: 825g (1.8Lbs)
Weight in Water (air-filled)	316 SS: 1.1kg (2.4Lbs); 6061AL: 606g (0.7Lbs)
Operating Temperature	-10°C to 40°C
Connector Pinout (Subconn MCBH4M or MCPBOF4M standard)	1: GND                                    3: RS232 RX (in) or RS485 (A) 2: +10–40Vdc                         4: RS232 TX (out) or RS485(B) *Additional pins on custom connectors will be left unused

