



# OE10-103

## MEDIUM DUTY ROTATOR UNIT

24 VDC Input

High Torque Output

RS232 or RS485 Serial Control

6000msw Depth Rating

Imenco's OE10-103 is a multi-purpose rotator unit offering exceptional torque, positioning performance and durability. This all electric rotator has been designed for positioning of cameras, lights and mechanical scanning sonar in subsea applications.

The OE10-103 utilises an innovative harmonic drive gearing system and a 9-bit digital encoder to provide exceptional output torque (35 Nm @ 24 VDC) and a reliable & repeatable positioning accuracy ( $\pm 2^\circ$ ) with minimal backlash.

The OE10-103 is available in two control configurations, either RS232 or RS485 (half duplex) serial digital link.

An intuitive graphical user interface is supplied with the OE10-103, giving full rotator control, use of 'Goto' functions, variable output speed and user defined end stops.

The internal electronic assembly is protected within a compact and ruggedised oil filled housing, manufactured from 316L stainless steel and incorporating a bladder style pressure compensator for reliable deep-water operation to 6000msw.

Contact us for additional information or to get a quotation. Send an e-mail to [camera.sales.uk@imenco.com](mailto:camera.sales.uk@imenco.com) or find personal contact info on our website.

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**OE** RANGE  
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OE10-103

TECHNICAL SPECIFICATIONS

Performance	
Output Torque	30 Nm @ 24 VDC (dependent on output speed)
Holding Torque	35 Nm
Shear Pin Torque	45 Nm
Output Speed	13 to 30 degrees / second
Mechanical End Stops	May be fitted every 30 degrees
Software End Stops	May be set through GUI
Backlash	±0.08°
Payload	25 Kg / 55lbs (max in air)
Electrical	
Power Input	12 to 24 VDC, 2.8A (max)
Control	RS232 or RS485 serial digital link
GUI	Inclusive
Position Feedback	9-bit serial encoder, ±2° accuracy
Mechanical	
Dimensions	Height: 133mm Width: 108mm (Excl. connector and pressure compensator)
Weight	In air: 5.4 Kg In water: 4.4 Kg
Housing Material	Stainless Steel 316L A4, passivated finish
Connector	Burton 5506-2008 or customer specified
Pressure Compensation	Oil filled bladder type compensator
Environmental	
Operating Depth	6000 msw
Temperature	Operating: -5 to 40°C Storage: -20 to 60°C
Shock	30G peak acceleration, 25ms half sine duration, on all three axes
Vibration	10G, from 20 to 150HZ on all three axes
Electromagnetic Compatibility	BS EN 61000-6-3: 2007 + A1: 2011 Emission and BS EN 61000-6-1: 2007 Immunity

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