PAN & TILT UNIT

Powerful unit for WROVs down to 6000m water depth

Key features

- · Single or dual axis units
- · Rugged construction and mounting holes
- · High torque heavy payloads can be added
- 90 or 120 Nm units (and new compact 20 Nm units)
- · RS-232, RS-485 (2 wire) or 100 Mbps Ethernet
- · Absolute position sensor
- ± 0.1 deg accuracy; ± 0.01 deg on request
- · 24 to 48 VDC input voltage range
- · No rotating connector at unit
- · External or internal compensator
- 6,000 Meter (20,000 ft)



KPT-45 TITANIUM

Dual axis - External compensator



KPT-45

Dual axis - External compensator



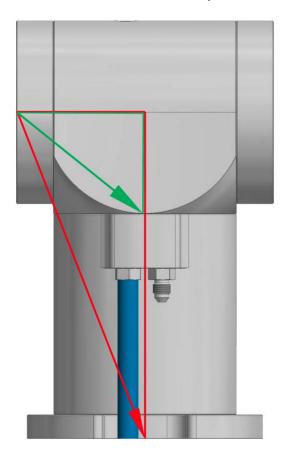
OUR NEW KPA-20 20 Nm



KPT-45 SPECIFICATIONS

ELECTRICAL:	
Input Voltage	24 - 48 VDC
Drive Current	Up to 2.5 A each axis
Communication	RS-232, RS-485 (2 wire) or 100 Mbps Ethernet (down to 1000m, 3000 ft)
Connector	Customer selectable (Seacon 5 pin standard)
MECHANICAL:	
Angular Limits	Pan range: ± 175° Tilt range: ± 175° (depending on yoke)
Angular Speed	Up to 30 deg/sec (Pan and Tilt simultaneously)
Torque @24VDC, performance at 48VDC even better	90 Nm holding torque *) - 75 Nm (55 lb/ft) < 8 deg/sec - 60 Nm (44 lb/ft) < 15 deg/sec - 45 Nm (33 lb/ft) up to 20 deg/sec
Max Payload	100 kg (220 lbs)
Position Feedback	12 bit accuracy absolute, approx. ± 0.1° 15 bit ± 0.01° on request
Gears	Precision strain wave
Backlash	< 3 arc minutes (< 0.05°)
Compensator	External or Internal oil filled diaphragm
ENVIRONMENTAL:	
Operating Depth	Down to 6,000 m (20,000 ft)
Temperature Range	-20°C to +50°C (-4°F to +122°F) operating -30°C to +60°C (-22°F to +140°F) storage
OTHERS:	
Size (H/W/D)	260 x 160 x 114 mm (Flange Ø147 mm) 10.24 x 6.3 x 4.49 inch (Flange Ø5.79 inch)
Materials	Hard anodized Aluminum Titanium
Weight in Air	8.8 kg (19.46 lbs) (Aluminum unit)
Weight in Water	5.4 kg (11.9 lbs) (Aluminum unit)
*) 120 Nm unit available with different gear ratio	

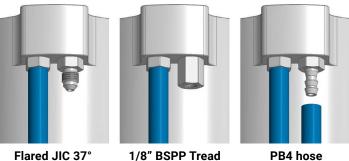
Our unique design is more robust compared to traditional units. Shorter lever arm is important.



Our customers:

- DeepOcean
- · Swire Seabed
- · Ocean Infinity
- · University of Bergen, Norway
- · Reach Subsea
- REV Ocean
- Oceaneering
- Norbit Subsea
- · Abyss Aqua
- · Kongsberg Maritime
- OceanPact

Available compensator interfaces:



Fitting

1/8" BSPP Tread

PB4 hose

KYSTDESIGN AS

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