PAN & TILT UNITS

Powerful unit for WROVs down to 6000m water depth





KPT-45Dual axis - External compensator



Our new KPA-20 20 Nm

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-TitaniumDual axis - External compensator



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:

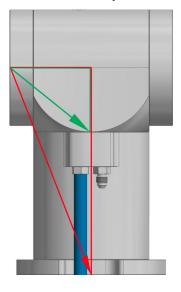
Size (H/W/D)	260 x 160 x 114 mm (Flange Ø147 mm) 10.24 x 6.3 x 4.49 inch (Flange Ø5.79 inch)
Materials	Hard anodized Aluminum Titanium
Weight in Air	8.8 kg (19.46 lbs) (Aluminum unit)
Weight in Water	5.4 kg (11.9 lbs) (Aluminum unit)

*) 120 Nm unit available with different gear ratio

See also our wide range of hydraulic compensators.



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, NorwayReach Subsea
- **REV Ocean**
- Oceaneering
- Norbit Subsea
- Abyss Aqua Kongsberg Maritime
- OceanPact

Available compensator interfaces:



Flared JIC 37° Fitting

1/8" BSPP Tread



PB4 hose

KYSTDESIGN AS

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