

PHALANX

PHALANX ELECTRO-OPTICAL STABILIZED PLATFORM

BRASHEAR'S ELECTRO-OPTICAL STABILIZED PLATFORM

The Phalanx Tracking Pedestal combines rugged, high-precision electro-optical instrumentation with the flexibility to serve on a variety of vessels and weapon platforms. It offers superior close-in fire control performance in a small, reliable, lightweight, easy-to-maintain system.

- Ultimate in gyro stabilized precision
- Rugged, field proven designs
- Open architecture permits mounting of nearly any sensor type



FULLY U. S. NAVY-QUALIFIED AND FIELD-PROVEN

The Phalanx Tracking Pedestal was designed and proven to withstand continuous gun shock in a full naval environment. The high-performance isolation and decoupling system allows tracking during gun firing. The lightweight pedestal minimizes impact on gun servo performance.

ADAPTABLE TO WIDE RANGE OF APPLICATIONS AND ENVIRONMENTS

The Phalanx Tracking Pedestal is available as part of a fully integrated fire control system or as a component for OEM applications. The upper and lower mounting points accommodate a variety of electro-optical sensors: FLIRs, TVs, and lasers.

PHALANX TRACKING PEDESTAL CURRENT APPLICATIONS

- Part of the Block-1B surface mode upgrade program for the Raytheon MK-15 Phalanx CIWS
- SeaRAM (Rolling Airframe Missile) compatible



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SPECIFICATIONS

PERFORMANCE

Mount Type: Side-Mounted Stewart Platform

Range

Elevation: 15° (expandable)

Azimuth: 15° (expandable)

Max Velocity

Elevation: >1.5 rad/sec

Azimuth: >2.0 rad/sec

Max Acceleration

Elevation: >6.0 rad/sec²

Azimuth: >8.0 rad/sec²

Servo Bandwidth: >30 Hz

Accuracy: ±0.2 mrad

Orthogonality: <1.0 mrad

Load Weight at Performance: 97 lbs (44 kg)

G-Shock Design Point: 30 g, half sine, 11 ms

ENVIRONMENT

Qualifications

MIL-STD-461 (EMI/EMC)

MIL-STD-810E (Environmental)

MIL-STD-210C (Climatic Extremes)

Electrical Interface

Power: ±5V, +28V, ±29.5V, ±15V, +55V

Position Feedback: Multispeed Resolver

Communications: RS-422

Mount

Weight (no sensors): 141 lbs (64 kg)

Mounting Platforms: Upper and lower (2)



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communications

Brashear

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