

Model WLP-1000 Weapons Launcher Positioner

CAES' Model Number WLP-1000 is a compact, lightweight, military ruggedized weapons launcher positioner capable of supporting anti-armor missiles and rockets for protection of Forward Operating Bases (FOB's) and other strategic assets. The system is suitable for operation in ground fixed and mobile environments and is easily configured to support a variety of U.S. Army/Navy/Air Force/Marines legacy launchers including: M299(4 rail); M310 (2 rail); M260/M261; and LAU-10.

This modular 2-axis positioning system is optimized for Size, Weight, and Power (SWaP) and incorporates a MIL-Qualified servo control module. The system operates from a 28VDC power source, and communications are through a RS-422 serial interface.

Features

- Weapons agnostic to support a variety of munitions launchers
- Platform agnostic for integration on any vehicle (pallet/trailer) or other platform
- Lightweight and compact for palletized ground/air transport
- Scalable to support payloads ranging from 700 pounds to 10,000 pounds
- Operator Controlled azimuth/elevation slew/positioning capability
- Designed for operation in MIL-STD-810 environments
- MIL-Qualified integrated control electronics module allows easy field replacement
- Identical slew drive and data package assemblies in both axes
- +/- 300 degrees azimuth travel (continuous with slip ring); - 15 to + 50 degrees elevation travel
- Available with zero backlash
- Designed for operation from 28VDC (IAW MIL-STD-704)
- Communications I/O: RS-422
- 100% U.S. suppliers
- Hangfire capability with no backdriving



Model WLP-1000 Weapons Launcher Positioner

Specifications

UNLOADED WEIGHT:	• 355 pounds
UNLOADED LENGTH:	• 58 inches
UNLOADED HEIGHT:	• 41 inches
UNLOADED WIDTH:	• 33 inches
AZIMUTH TRAVEL:	• +/- 120 degrees (minimum)
ELEVATION TRAVEL:	• -5 to +15 degrees (minimum)
SLEW RATE:	• 36 degrees / second (minimum)
POSITION ACCURACY:	• +/- degrees both axes
INPUT POWER:	• 28 VDC IAW MIL-STD-704 • 22 amperes (maximum); 1 ampere typical
COMMUNICATIONS I/O:	• RS-422

Environmental

TEMPERATURE:	• -40°C (-40°F) to 63°C (145°F)
ALTITUDE:	• Up to 50,000 feet
HUMIDITY:	• 0 - 100% condensing
EMI:	• IAW MIL-STD-461
SHOCK/VIRBATION/ RAIN/SAND/DUST:	• IAW MIL-STD-810
SHOCK & VIBRATION:	• IAW MIL-STD-810