

When the ranges required precise and reliable optical tracking mounts, they selected the L3 Kineto Tracking Mount (KTM) more than 150 times.

FLEXIBILITY TO SUPPORT DIVERSE MISSIONS AND NEEDS

L3 Brashear's KTM meets the needs of a wide variety of test range and scientific applications:

- On-board operator, or remote analog or digital control
- Payloads up to 1,200 pounds (unmanned) or 600 pounds (manned)
- Mission configuration with four (manned) or six (unmanned) payload positions
- Complete turnkey systems available
- Detailed installation documentation

FIELD-PROVEN RUGGED AND RELIABLE

Our KTM consistently demonstrates its performance and durability:

- Weather-tight seals designed to withstand harsh range environments
- The KTM's direct drive axis design delivers smooth, jitter-free tracking to ensure precise Time, Space and Position Information (TSPI)
- Self-contained and trailer-mounted, our KTM is quickly and easily deployed via the highway and unimproved roads to remote tracking sites
- Digital Control System (DCS) that guarantees system reliability

THE KTM DIGITAL CONTROL SYSTEM (DCS) INCLUDES

- High-speed communication via an Ethernet interface to provide remote operation
- Advanced servo loop control to optimize tracking performance
- Built-in error correction to ensure precision tracking accuracy
- Versatile chassis architecture that accommodates additional PC104 cards and/or digital I/O to satisfy specific customer requirements and missions



KINETO TRACKING MOUNT (KTM)



SPECIFICATIONS

Payload Capacity:

- | | |
|-------------------------------|-------------------------|
| Standard combined platform | • 600 lb. plus operator |
| With optional center platform | • 1,200 lb. |

Range of Motion

- | | |
|-----------|---|
| Elevation | • -10.0 to + 190.0
(operator's safety stop at +1000) |
| Azimuth | • ± 335.0 |

Dynamic Performance

- | | |
|------------------------|----------------------------|
| Velocity - Az / El | • to 60 a/sec |
| Acceleration - Az / El | • to 60 °/sec ² |

Position Encoder

- | | |
|----------------------------|---|
| Standard 21-bit resolution | • (0.6 arc sec) |
| Optional 23-bit resolution | • (0.15 arc sec) |
| Geometric errors | • < 3 arc sec wobble
< 5 arc sec orthogonality |

- | | |
|-------------|---|
| Performance | • 5 arc sec LOS pointing accuracy (after star calibration)
< 3 arc sec tracking jitter |
|-------------|---|

- | | |
|-----------------------|--|
| Operating environment | • 0 °F to 120 °F
30 mph to 50 mph winds |
|-----------------------|--|

- | | |
|---------------------------|-------------------------------------|
| Non-operating environment | • -20 of to 120 of
100 mph winds |
|---------------------------|-------------------------------------|

Trailer and Enclosure Specifications

- | | |
|-------------|--|
| Setup | • 1 person - 15 minutes |
| Roadability | • 55 mph highway;
30 mph unimproved roads |

Options Include

- Slipring and Fiber-Optic Rotary Joint assemblies on the azimuth axis for power and signal wiring along with an Ethernet line, video coax lines, and single-mode fiber-optic lines. These options allow unlimited axis rotation and eliminate risk of cable wrap-up .
- Center platform that replaces the existing guidescope/ operator seat to allow increased payload capacity and provides two additional mounting surfaces on the KTM.



L3 Brashear

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