

KINETO Tracking Mount (KTM)

Model K433

KTM Model K433

Tracking Mount Features:

- Direct drive torque motor
- Angular contact ball bearings
- On-axis Inductosyn encoders

Tracking System Features:

- 8x/24x sighting telescope
- Operator's console with joystick
- Standard external rate input
- Optional closed-loop position control

Trailer and Enclosure Features:

- Power cable reel
- Power leveling system with 2 arc sec resolution
- Two empty sealed electronics bays
- Less than 10,000 lb. transport weight

Options:

- Turnkey tracking configurations
- Instrumentation lenses and sensors
- Fixed enclosures
- Star calibration software



Recognized Standard for Tracking Systems Worldwide

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

Flexibility to support diverse missions and needs

The 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 1200 pounds (unmanned) or 600 pounds (manned)
- Mission configuration with four (manned) or six (unmanned) payload positions
- Complete turnkey systems available

Field-proven rugged and reliable

The KTM consistently demonstrates its performance and durability:

- Specifically designed to withstand harsh range environments
- The KTM's direct torque motor-driven mount delivers smooth, jitter-free tracking to ensure precise Time, Space and Position Information (TSPI)
- Self-contained and trailer-mounted, the KTM is quickly and easily deployed via highway and unimproved roads to remote tracking sites



communications

Brashear

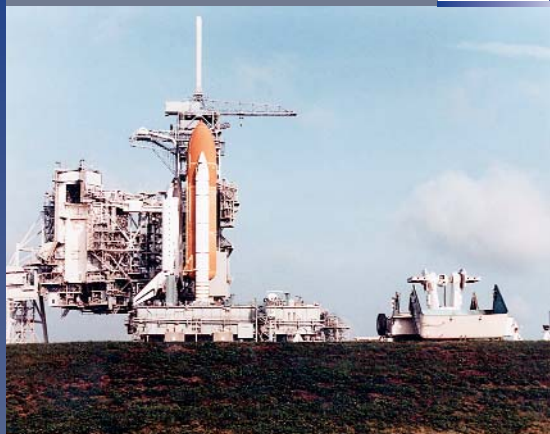
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More than 150 Systems in Service Worldwide



KTM Model K433 Specifications



Payload capacity:

Standard combined platform600 lbs plus operator

With optional center platform1,200 lbs

Range of motion:

Elevation-10° to +190° (operator's safety stop at +100°)

Azimuth±335°

Dynamic performance:

Velocity – Az / Elto 60°/sec

Acceleration – Az / Elto 60°/sec²

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

Performance5 arc sec LOS pointing accuracy (after star calibration)

< 3 arc sec tracking jitter

< 1 arc sec optional

Operating environment0° to 120° F

30 to 50 mph winds

Non-operating environment-20° to 120° F

100 mph winds

Trailer and enclosure specifications:

Setup1 person – 15 minutes

Roadability55 mph highway; 30 mph improved gravel roads



communications
Brashear

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