

Integrated Optical Systems - Brashear

KTM REFURBISH / UPGRADE

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L-3 BRASHEAR'S REFURBISHMENT PROGRAM ENSURES KINETO TRACKING MOUNT (KTM) PERFORMANCE IN THE HARSHTEST ENVIRONMENTS AND DURING THE MOST DEMANDING MISSIONS BY RETURNING THE EQUIPMENT TO OEM SPECIFICATIONS USING CURRENT TECHNOLOGY.

A TYPICAL REFURBISHMENT PROGRAM INCLUDES:

- Disassembling and inspection of the KTM pedestal to identify defective parts or components.
- Reconditioning the KTM "mounting platforms" to provide accurate mounting surfaces for sensors.
- Replacing all system cables and wiring to ensure KTM electrical system integrity.
- Brashear's Digital Control System (DCS) to replace the obsolete electronics guaranteeing system reliability.
- Rebuilding, repairing or replacing major components such as axis drive motors, bearings, and inductosyns.
- Refurbishment of each axis to factory performance specifications.
- Reconditioning and repainting the KTM trailer.



AVAILABLE OPTIONS INCLUDE:

- Slipping 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.
- Automatic Video Tracking (AVT) kit integrated into the DCS chassis to allow automatic target acquisition and tracking with digital or analog cameras.
- Center platform that replaces the existing guide-scope/operator seat to allow increased payload capacity and provides two additional mounting surfaces on the KTM.



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CINETHEODOLITE ELECTRONICS UPGRADE

CONTROL ELECTRONICS UPGRADE PROGRAM

L-3 BRASHEAR'S CONTROL ELECTRONICS UPGRADE PROGRAM REPLACES THE OBSOLETE MPACS CONTROL AND TDC POWER AMPLIFIER CHASSIS' WITH A SINGLE CHASSIS, "STATE-OF-ART" DIGITAL CONTROL SYSTEM (DCS) TO ENSURE RELIABLE CINETHEODOLITE PERFORMANCE DURING THE MOST DEMANDING MISSIONS.

DCS FEATURES:

- Precision axis position and rate encoding when integrated with existing elevation/azimuth inductosyns and resolvers to guarantee accurate tracking performance.
- Internal drive power amplifier modules for the elevation and azimuth axis motors creating unoccupied internal space "onboard" the Cinetheodolite for auxiliary components.
- Axis Control Modules (ACM) internally mounted within the DCS chassis to simplify control system installation.
- Remote or local operation of the Cinetheodolite to satisfy a variety of mission requirements.

A TYPICAL CONTROL ELECTRONICS UPGRADE PROGRAM INCLUDES:

- Removal of the MPACS and TDC power amplifier chassis' along with the removal of related cables from the mini-box. The LED matrix display assembly, film camera drive amplifier chassis and associated cables are removed only when the "Internal Video Camera" option is selected by the customer.
- Installation of Brashear's Digital Control System (DCS) replacing the obsolete electronics to improve system reliability.
- New mini-box cabling for the DCS to ensure electrical system integrity.
- Replacing internal Cinetheodolite mount wiring with new cables, connectors, connector plates and miscellaneous hardware.
- Control system integration and testing to verify proper Cinetheodolite operation.



OPTIONS:

- Internal Video Camera Mounting option that requires removal of the LED matrix display assembly, film camera and film camera drive amplifier. The kit includes modifications to the optical path and the necessary re-wiring to accommodate a customer furnished video tracking camera. This option places the camera directly in the optical path and significantly improves image quality.
- Automatic Video Tracking (AVT) Kit integrated into the DCS chassis to allow automatic target acquisition and tracking with digital or analog cameras.

Brashear

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L-3. Leading. Headquartered in New York City, L-3 Communications employs over 63,000 people worldwide and is a prime system contractor in aircraft modernization and maintenance, C3ISR (Command, Control, Communications, Intelligence, Surveillance and Reconnaissance) systems and government services. L-3 is also a leading provider of high technology products, systems and subsystems. The company reported 2006 sales of \$12.5 billion.

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