

Note: H-60 refers to all versions of the Blackhawk Series Helicopters

Mastered Tool

Fixture Features

- Laser Alignment Checking
- Hard Point Locators
- Computer Controlled Measurements
- Handles Multiple H-60 A/C Types
- Extendable Deck Slides
- Corrosion Resistant Design
- Upper Level Measuring Capabilities
- Best Fit Alignment Evaluation



H-60 LTAA System

Hard Point Locations

- Transmission Beam
- Oil Cooler
- Drive Shaft Brackets
- Servo Beams
- Engine Mounts
- Multiple Bulkheads
- Tail Rotor Gearbox
- Intermediate Gearbox
- Lift Points
- Tail Bumper
- Rast Fitting
- Tail Gear (SH-60/HH-60)

Purposes of the LTAA

The main purposes of the LTAA are to provide the following capabilities:

- Hold the A/C securely in its design coordinate system
- Accurately measure the A/C's alignment
- Accurately install components and accessories
- Automatically record alignment accuracies and generate alignment reports
- Fast retrieval the A/C's past recorded alignment histories
- Utilize stored hard point data and required tolerances
- Save inspection results in the system's database
- Provide a safe and convenient operational environment
- Self validation of system calibration

Operational Provisions

- H-60 Supported from Transmission Beams
- Swing Gate incorporated for ease of Aircraft Loading
- H-60 Loaded into Fixture by Overhead Crane or Cherry Picker
- Optional Support from Drag Links
- Removable Upper Level Hard Locator Beams
- Movable High Tower Laser Tracker Platform for upper level measurements
- Removable Mastered 485 Bulkhead Support (Tailcone Removed)
- Retractable Mastered Canted Bulkhead Support (Tailcone Attached)
- Safe Upper and Lower Level Worker Access



R.H. Fwd. Landing Gear Adapter

Laser Sighting Adapter Kit

A sighting Adapter Kit is provided with the system. This kit provides physical extensions offsetting the hard point locations from actual points of interest. Values of the offsets are stored in the computer and are used to accurately compensate for tooling ball displacements.

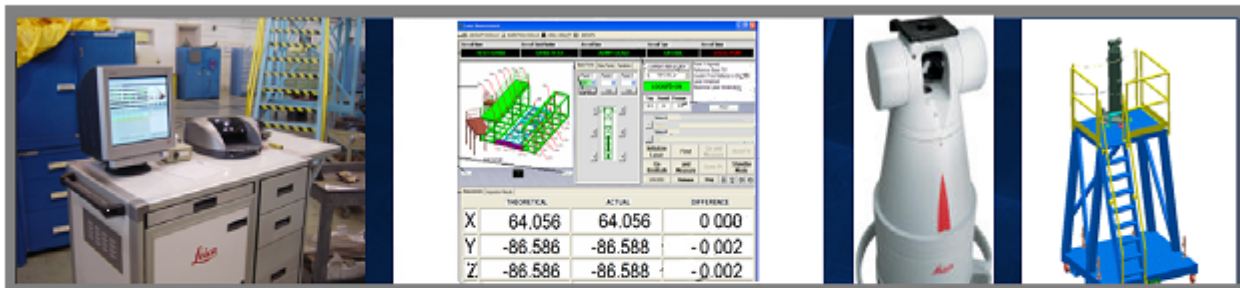


Transmission Beam Supports A/V in its Design Coordinate System Relative to Base Fixture



Other Beams used to locate Components in Design Coordinate System Relative to Base Fixture

COMPONENTS OF THE LASER MEASURING SYSTEM



Computer Workstation with Display & Printer

AMACF Menues and Controls

Laser Tracker Head

High Tower Sighting Platform

Note: AMACF is ADC's Proprietary Aircraft Maintenance Alignment Check Fixture Software Delivered with the System

	THEORETICAL	ACTUAL	DIFFERENCE
X	64.056	64.056	0.000
Y	-86.586	-86.588	-0.002
Z	-86.586	-86.588	-0.002

www.adceng.com

