

HIMARS – High Mobility Artillery Rocket System Automated Test Equipment

HIMARS

The high-mobility artillery rocket system (HIMARS) is the newest member of the multiple-launch rocket system (MLRS) family. HIMARS is a highly-mobile artillery rocket system offering the firepower of MLRS on a wheeled chassis. HIMARS was developed by Lockheed Martin Missiles and Fire Control under an advanced concept technology demonstration (ACTD) program, placed in 1996.



The automated test equipment shown below, tests a sub-assembly of the HIMARS vehicle. The system is comprised of three main components; a Control Console, Hydraulic Power Unit (HPU) and a Test Fixture. The Unit Under Test (UUT) requires a settable continuous input torque while providing an adjustable load to the Output



Hydraulic Input Drive

Axis (shown on next page). The input and the output loads are provided hydraulically with the output axis load having the capability of providing thousands of pounds of aiding or opposing force.

This ATE system is a classic example of EDC providing reverse engineering capability (electrical, mechanical and software) for a legacy system that was void of documentation. EDC evaluated the existing system, suggested various technical improvements and upgraded the existing equipment.

EDC recommended and delivered an improved hydraulic platform.

The legacy platform utilized a 40HP and a 30HP HPU. EDC redesigned the HPU to a single 7.5HP system that utilized dual pumps.

The new design saved floor space, maintenance and provided for a quieter and safer work environment. The ATE system was delivered on time and within budget. EDC subsequently delivered the ATE system to US based military depot. The installation, site, acceptance testing and end user sell off (supported by EDC personnel) was completed within 24 hours of equipment arrival.



Control Console

TURNKEY APPLICATIONS

EDC offers innovative turnkey test solutions which can include design, software, fixturing, automation, self test and complete documentation.

BUILD TO PRINT

Fabricating from customer prints or reverse engineering an existing system, EDC can meet your manufacturing requirements.

TEST PROGRAM SETS

EDC provides test program sets (TPS) and interface test adapters (ITA) that include both replication of existing fixtures and the development of new designs with or without software.

For more information on any of our products or services please visit us on the Web at: www.edcsolutions.com



Test Fixture

The Company

EDC is a leading supplier of Automated Test Equipment (ATE) and product development services for over a decade. Our test systems and products can be found in medical, military, aerospace, nuclear, commercial and industrial markets. EDC provides turnkey systems development, software, systems engineering, build to print, automation and product development. Combining state-of-the-art hardware design, software expertise and mechanical automation/material handling experience, our customers know that an optimal test solution that is cost effective will be designed to suit their needs.

EDC looks to build relationships with our clients, built on

efficient communication, complete disclosure, absolute confidentiality, timely results and a total commitment to quality. By selecting EDC as a partner, our clients gain a resource that cares about their business and will take on projects large or small.



Hydraulic Power Unit



Output Axis

Services

- ✦ Automated Test Equipment
- ✦ Software
 - LabVIEW, TestStand, Microprocessors, PLC
- ✦ Hardware / Firmware / PCB Design
- ✦ Mechanical / Industrial / Automation
- ✦ ITA Design & Fabrication
- ✦ TPS Application Programming
- ✦ Contract Manufacturing



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