F-16 Test & Support Equipment
Test Solutions from the Flightline to the Depot
Vertically integrated solutions including design,
production, repair, overhaul, upgrades,
maintenance, and training
F-16 Alternate Mission Equipment

**LAU-129 Missile Rail Launcher**
Modular missile rail launcher configurable for a variety of platforms

**LAU-117 Maverick Missile Launcher**
Analog & MIL-STD-1760 compatible launcher for the AGM-65 Maverick Missile

**STAR and TER-9A: High Speed Triple Ejector Rack**
Three place carriage system providing smart weapons carriage & release from a single aircraft pylon

**LAU-118 Guided Missile Launcher**
Modular missile rail launcher configurable for a variety of platforms

**MAU-12 Heavy Duty Ejector Rack**
Dual piston pyrotechnic ejection system for carriage & release of weapons & stores up to 5,000 lbs

**CATM Captive Air Training Missile**
Simulates the AMRAAM missile used for training

**SUU-20 Bomb Dispenser and Rocket Launcher**
Multiple carriage & release of up to six practice stores and four 2.75" rockets
F-16 Test & Support Equipment

MTS-3060 SmartCan
Universal O-Level Armament Tester supporting legacy and "smart" weapons systems
marvintest.com/products/MTS-3060

MT1888 Series
O-Level, eye-safe laser target simulator for system level test of laser-guided weapons systems
marvintest.com/products/MT1888

MTS-206
Maverick Field Test Set supporting all variants of the AGM-65, TGM-65, LAU-117 and LAU-88
marvintest.com/products/MTS-206

MTS-209
Common Armament Test Set supporting legacy and Smart AME
marvintest.com/products/MTS-209

Flightline to Depot Test Solutions

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Laser Source Simulator Bench
Depot-level bench designed to support Paveway Laser Guided Bomb, fashioned after TTU-373

MTS-916
Modular target simulator for AGM/TGM-65 missiles and GCSs including IR, TV/CCD, and Laser
marvintest.com/products/MTS-916

TS-2000
Intermediate-level Stores Management System (SMS) tester for F-16
marvintest.com/products/TS-2000

TS-217
Depot-level Universal Armament Tester supporting launchers, bomb racks, and Paveway rounds
marvintest.com/products/TS-217
From the Flightline to the Depot

"Sustained commitment to product quality and innovation are among the characteristics Lockheed Martin has grown to identify in the service it receives from Geotest (Marvin Test Solutions)."

Barry Breslow, Senior Contract Manager, Lockheed Martin

Inspired by the demanding and critical nature of our customers’ missions, we strive to be the world’s most innovative, best-value test solutions provider. With more than 25 years of global experience in the aerospace and manufacturing industries, we are able to quickly deliver full-spectrum, successful test solutions for defense, commercial aerospace and manufacturing organizations from the flightline to the depot.

Download our armament test gap white paper at marvintest.com/armament.
Bridging the Armament Test Gap

Marvin Test Solutions

The U.S. Air Force (USAF) took delivery of its first F-16 aircraft which featured "state of the art" technology including sophisticated avionics, munitions, and armament systems. In August of 2010, this sophisticated armament resulted in the USAF accepting the new generation of test equipment at the flightline, supporting operational-level (shipped) mission. One of the new pieces of test equipment, the USAF issue maintenance was a small, two-seat armament test aircraft. The AP730 was round, cylindrical, and powered by a jet engine. Thus, the AP730 was very simple, with a single measurement channel. To provide adequate performance, the test equipment was extended to include a large test structure, such as the AP730 test rig, which allowed the AP730 to be used as a test rig for the F-16 flight test and competition (Figure 1).

The Armament Test Gap

Over the years, F-16 aircraft have received numerous upgrades to their avionics and armament systems, including "smart" weapons such as the AIM-9 Sidewinder and AIM-120 Advanced Medium-Range Air-to-Air Missiles (AMRAAM). Yet, maintainers are still required to use the same or similar AP730 equipment to complete these maintenance tasks. The combination of new and upgraded test equipment and the need for a more capable test system has increased the need for maintenance and test equipment. The current test equipment is not capable of testing these advanced systems, which has led to the development of the AP730 test rig.

Closing the Armament Test Gap

Current generation test equipment is inadequate to test the advanced armament systems used in F-16 aircraft. Marvin Test Solutions (MTS) has developed a Universal O-Level Test System that can test and maintain the armament systems on F-16 aircraft. This system is designed to meet the needs of maintenance and test personnel while providing a cost-effective solution. The Universal O-Level Test System is a modular design that allows for easy upgrades and maintenance. The system is also designed to be field-serviceable, which reduces downtime and maintenance costs. The Universal O-Level Test System is designed to test the armament systems on F-16 aircraft and has been used successfully in the field.