

MBDA UK to get Europe's first ACUTROL®3000

Kevin Fisher, Group Head HWIL, MBDA UK

Hardware-in-the-Loop simulation requires enhanced phase and bandwidth response, which ACUTROL3000 is providing with its highly flexible, state of the art digital control capability.

MBDA UK Limited, in Stevenage, recently became the first ever customer of the eagerly awaited ACUTROL3000 digital controller for Flight Motion Simulators.

Installed as a direct replacement for the original obsolete controller fitted to a Carco S458R-3BD three-axis FMS, the ACUTROL3000 provides the enhanced phase and bandwidth response that is necessary for the demanding Hardware-in-the-Loop simulation requirements on MBDA's Meteor missile programme.

Installed in the Radio Frequency (RF) Laboratory in the recently completed

"Simulation Centre", the ACUTROL3000 has been specified with a VMIC Reflective Memory interface. This interface makes the motion controller an integral component of the Reflective Memory network, which allows for the high speed deterministic transport of real-time simulation data to all sub-system nodes making up the overall simulation system.

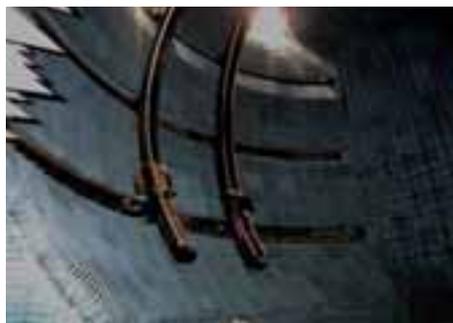
The ACUTROL3000 was delivered to MBDA in July 2004 and has recently completed successful acceptance testing. Kevin Fisher, Group Head of Hardware-in-the-Loop, commented, "The ACUTRONIC

ACUTROL3000 provides MBDA with a highly flexible, state of the art digital control capability for our RF Flight Motion Simulator that will enable us to satisfy the demanding simulation needs of our current and future missile development programmes. This recent acquisition further strengthens the professional working relationship that MBDA has experienced with the ACUTRONIC team."]



ACUTROL3000 installed

Foreground: Re-instrumented cabinet with ACUTROL3000 installed.
Background: Carco Model S458R-3BD 3-axis Flight Motion Simulator with dummy load.



Dual Target Motion Simulator

Dual Target Motion Simulator with two, double curved tracks. Radar absorbing material installed.



Front Panel of ACUTROL3000

The single chassis digital ACUTROL3000 replaced two 19" racks of analogue electronics.