



ACUTRONIC USA Inc.
700 Waterfront Drive
Pittsburgh, PA 15222-4742
USA

phone 412-926-1200
fax 412-697-8111
email: marketing@acutronic.com
www.acutronic.com

Press Release, February 24, 2015

NEW DATA ACQUISITION TECHNOLOGY FOR FLIGHT MOTION SIMULATORS

PITTSBURGH, Pa. – ACUTRONIC USA, the world leader in multi-axis flight motion simulators, and Dynetics, a major provider of high-performance instrumentation solutions for test and evaluation of weapons systems, are pleased to announce an exclusive collaborative effort to integrate state-of-the-art data acquisition systems onto flight motion simulators.



Traditionally, flight motion simulators include brush type sliprings through which data from a UUT (unit under test) is routed. At times, these sliprings introduce noise and/or attenuation to the signal of interest. In addition, due to their physical size, sliprings offer a limited number of signal lines as well as limited bandwidth of data transfer. Replacing traditional brush type sliprings with the Dynetics Modular Instrumentation System (MIS) significantly reduces or eliminates these problems. The MIS consists of a series of small round modules, approximately 2.5 inches in diameter, which are stacked together. Module selection is completely configurable and based on the specific data to be acquired from the UUT. All signals are converted to an optical signal, multiplexed, and sent through a fiber optic rotary joint (FORJ).

Signals routed through the Dynetics MIS have minimal noise, minimal attenuation, minimal cross coupling and significantly increased bandwidth, as compared to the use of traditional brush type sliprings. The data transfer interface in the FORJ is contactless, and therefore does not wear like a traditional slipring. In addition, a Dynetics MIS is significantly smaller and lighter than a traditional slipring, so its use results in lower axis inertias and higher axis accelerations on the flight motion table. More signal lines can also be provided in the same space occupied by a brush-type slipring. ACUTRONIC USA will exclusively include the Dynetics MIS in a new flight motion system or incorporate it into existing flight motion systems.

About ACUTRONIC USA Inc.:

Established in 1989, ACUTRONIC USA is the world leader in the development, design and manufacture of precision motion simulators for aviation, space, military, transportation, consumer and industrial applications. ACUTRONIC USA pioneered the development of the first truly digital motion control system for inertial guidance test systems, with more than 1000 field-proven units installed worldwide today. In 2005, ACUTRONIC acquired the assets of CARCO Electronics, thereby consolidating a more than 50-year heritage of motion system technology and products with the ACUTRONIC product line.

About Dynetics:

Dynetics provides responsive, cost-effective engineering, scientific, and IT solutions to the national security, cybersecurity, satellite, launch, automotive, and critical infrastructure sectors. Our portfolio features highly



ACUTRONIC USA Inc.
700 Waterfront Drive
Pittsburgh, PA 15222-4742
USA

phone 412-926-1200
fax 412-697-8111
email: marketing@acutronic.com
www.acutronic.com

specialized technical services and a range of software and hardware products, including components, subsystems, and complex end-to-end systems. For more information, visit www.dynetics.com.

For more information, please contact the ACUTRONIC sales team at 412-926 1200 or marketing@acutronic.com.