



WITTENSTEIN

WITTENSTEIN aerospace & simulation at ITEC 2011 in Cologne:

Control Loading & Vibration

- **WITTENSTEIN aerospace & simulation GmbH
on stand number D160**
- **Presentation at ITEC Conference about the system design and
performance specification of the Vibration Platform
(May, 12, 2011 at 02:00 pm)**

“Control Loading & Vibration” are the key words on the stand at ITEC 2011. WITTENSTEIN aerospace & simulation fix their focus on their Helicopter Simulator Vibration Systems and Control Loading Systems. Visitors are invited to experience the “touch and feel” of Control Loading Systems and Vibration Platforms.

3- axis Vibration Platform

Benefits

The high performance 3-axis vibration platform replicates vibration cues that are representative of actual helicopter flight cues. This new vibration platform offers unprecedented realism for helicopter-specific mission training, including offshore, emergency medical services, law enforcement, long line, high-altitude, corporate, and other operations. When accurately simulated, vibrations combine with visual and sound system cues to ensure that the aircrew develops proper skill-sets while experiencing representative workloads. Vibrations in helicopters, in addition to creating a realistic operating environment, provide the aircrew with rotor system dynamic feedback critical to their ability to control the aircraft.

Description

The vibration platform uses compact industrial actuators integrated into a mechanical frame assembly to provide vertical, longitudinal and lateral vibration of a simulator cockpit. The control of the vibration platform is implemented to provide the correct spectrum, amplitude and trend of vibration across the aircraft operating envelope. The spectrum is considered in two parts; the discrete frequencies from the

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High-tech products made by **WITTENSTEIN** fly into space and win Formula One races. Intelligent drive systems – from the world’s smallest high-performance servo drive to the latest state of the art in medical technology – are developed, produced and marketed by a team of around 1.400 employees. With a blend of dedication and enthusiasm, we set benchmarks – every day – worldwide.



The **3-axis Vibration Platform** – proven WITTENSTEIN drive technology for unprecedented realism in flight simulation - supplemented the product range from WITTENSTEIN aerospace & simulation since 2010.

WITTENSTEIN AG

Walter-Wittenstein-Straße 1
97999 Igersheim · Germany

Contact: Sabine Maier
Press Officer
Tel. +49 7931 493-10399
Fax +49 7931 493-10301
E-Mail: sabine.maier@wittenstein.de
www.wittenstein.de

main rotor blade passing frequency and the base spectrum of random noise.

Product Features

The integrated motor gearbox assembly offers proven and highly precise industrial drive technology whilst having compact configuration and size. Control and power supply components are centrally placed in the electrical cabinet being used as an ease plug in module to start and run the system. The control software controls and monitors the system. It also enables the user to individually configure the system for different helicopter types. An Ethernet interface is used to connect and synchronise the Vibration Platform with the host computer.

- **Texts and photographs in printable quality can be downloaded from www.press.wittenstein.de**

- **Contact at the stand in Cologne:**
WITTENSTEIN aerospace & simulation GmbH
Raphaela Engert / Sales
Phone +49 7931 493-18163
Fax +49 7931 493-10909
E-Mail: raphaela.engert@wittenstein.de
www.wittenstein.de

WITTENSTEIN aerospace & simulation GmbH

The name WITTENSTEIN aerospace & simulation GmbH is synonymous with innovative actuator systems for aerospace technology and flight simulators. Around 50 staff are employed in research, development, design and production at various locations in the UK, the USA and Germany. The servo systems are used in the Airbus A380 and numerous other civilian and military aircraft programmes as well as in flight and helicopter simulators. The company is approved and certified as a production and maintenance organisation capable of meeting the special requirements in the aerospace sector according to EASA 21G and 145 (European Aviation Safety Agency).

WITTENSTEIN aerospace & simulation is one of eight Business Units of WITTENSTEIN AG. High-precision planetary gearheads, complete electromechanical drive systems and AC servo systems are among the successful products manufactured by this Igersheim-based high-tech company.

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Press Officer
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Fax +49 7931 493-10301
E-Mail: sabine.maier@wittenstein.de
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