



WITTENSTEIN aerospace & simulation delivered the first Control Loading System (CLS) for the Diamond DA40/42 Simulator

27. November 2009

WITTENSTEIN aerospace & simulation at the I/ITSEC 2009 (Interservice / Industry Training / Simulation and Education Conference), November 30 - December 3, Orlando, FL, Booth 2181

WITTENSTEIN aerospace & simulation has recently delivered the first production Control Loading System (CLS) for the Diamond DA40 Diamond Star and DA42 Twin Star Flight Simulation Training Devices. This is the first WITTENSTEIN CLS for the General Aviation market that has been certified to FTD standard Level 5 (the CLS is also compliant to ICAO 9625 Edition 3 up to Class VII). The system is based on WITTENSTEIN's highly reliable, high performance actuators with brushless, cogging optimized DC motors, low backlash planetary gearboxes and integrated motor control electronics. It provides one electro-mechanical Control Loading actuator for each of the aircraft's main axes (elevator, aileron, rudder).

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 1.300 employees. With a blend of dedication and enthusiasm, we set benchmarks – every day – worldwide.

The main features of the system are a closed control loop for highest performance, maintenance-free components and a software configuration customized to fit the requirements stemming from real aircraft. "We are very pleased by the performance and also by the affordability of WITTENSTEIN Control Loading for our purposes" says Gerhard Thamm, Managing Director of Diamond Simulation GmbH & Co. KG. "But on top of that, WITTENSTEIN staff also provided excellent integration and training services on-site and thus integrated the system to our full satisfaction."

Contact Information:

Diamond Simulation GmbH & Co. KG
Gerhard Thamm, Managing Director
Am Flugplatz / Diamond Terminal
63329 Egelsbach
Germany
Tel. +49-6103-3785-2175

WITTENSTEIN AG

Walter-Wittenstein-Straße 1
97999 Igersheim · Germany

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

WITTENSTEIN aerospace & simulation GmbH

Christoph Heine, Sales Manager

Walter-Wittenstein-Straße 1

97999 Igersheim

Germany

Email: christoph.heine@wittenstein.de

Tel. +49 7931 493 10375



Diamond DA40/42 Simulator



Flight Instructor's Desk



Control Loaded Center Sticks

WITTENSTEIN AG

Walter-Wittenstein-Straße 1
97999 Igersheim · Germany

Contact: Sabine Maier

Manager Press Relations

Tel. +49 7931 493-399

Fax +49 7931 493-301

E-

Mail: sabine.maier@wittenstein.de

www.wittenstein.de

WITTENSTEIN aerospace & simulation GmbH

The name WITTENSTEIN aerospace & simulation GmbH (www.wittenstein.aero) 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 seven 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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Walter-Wittenstein-Straße 1
97999 Igersheim · Germany

Contact: Sabine Maier
Manager Press Relations
Tel. +49 7931 493-399
Fax +49 7931 493-301
E-
Mail: sabine.maier@wittenstein.de
www.wittenstein.de