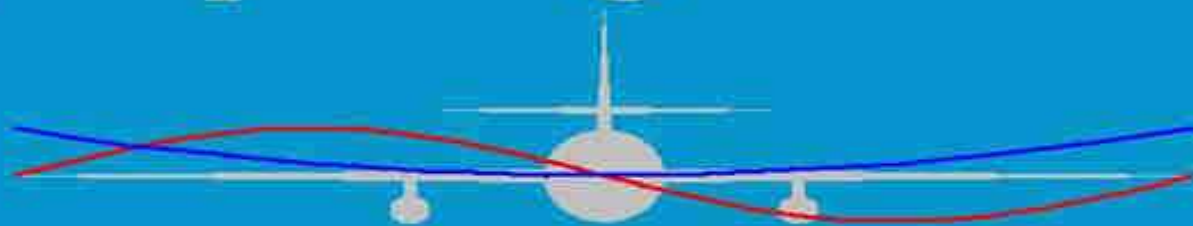




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Special
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MODAL TESTING EQUIPMENT

AEROSPACE TESTING EXPO 2009



21 – 23 April 2009

Munich Trade Fair Centre – Germany

Prodera stand B 170

18 square meters of new products

PRODERA

Participates for the 6th time in this world's leading international event for the aerospace design, testing, evaluation, manufacturing, quality and compliance industries.

<http://www.aerospacetesting-expo.com/europe/>

NEW PRODUCTS

A complete range of **long stroke** shakers is now available from 50 to 5000 N force. The shakers incorporate a **unique zero friction central bearing assembly** and are **spider free**.

Due to the head coil design, the moving mass is reduced to a maximum and further due to the absence of spiders the influence of the shakers on the structure can therefore be neglected.

The long stroke modal shakers are powered by high output impedance current controlled amplifiers.



EX 220 C40 (250 N)



EX 1070 C50 (1000 N)



EX 5080 C50 (5000 N)

PRODERA IN-HOUSE PRODUCTS

The products mentioned below are standard PRODERA products, fully operational. Our Design Team is at your disposal for special developments, either hardware or software.

GROUND VIBRATION TEST EQUIPMENT

- Range of **Constant Force Modal Shakers (CFMS)** and **Current Controlled Amplifiers (CCA)**, Modal Accelerometers and Conditioning Amplifiers
- **Multipoint excitation and acquisition system P-SYS-MODAL**
- Latest version of P-WIN-MODAL software: the software calculates the modal parameters of a structure by using 4 different modal methods for increased accuracy
- **Suspension Systems** for modal shakers and structures
- **Shaker calibration systems** certified according to NIST standard
- **Modal Software Calibration device** Strucsim-3-D

IN-FLIGHT TEST EQUIPMENT

- P-FLIGHT-MODAL **Flutter Prediction Software** covering the sub, super and transonic ranges. Import data: GVT results or external
- P-FLUTTER-MONITORING: 32 channel **Flutter Monitoring Software**
- In-flight excitation equipment:
 - **Pyrotechnical thrusters**, ideal for multipoint synchronic in-phase or out-of-phase in-flight excitation
 - New range of **inertial shakers** and on-board 115 V / 400 Hz **power amplifiers**

Complementary Software and Systems:

- Database management software
- Software solutions for FEM comparison
- PCM telemetry equipment

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