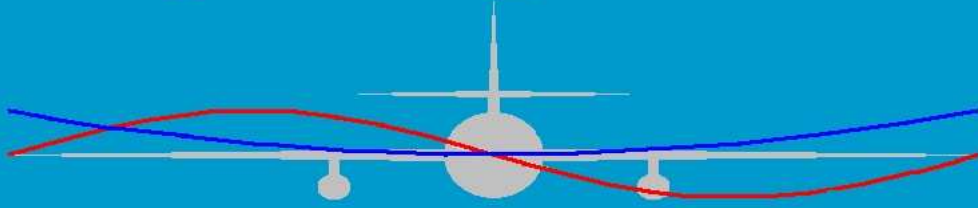




proder@news



www.prodera.com

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## AEROSPACE TESTING EXPO 2008

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### Newsletter # 9

Best resolution:

1024 x 768

### April 2008

**PRODERA**

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15 – 17 April 2008

Munich Trade Fair Centre – Germany

### Prodera stand B 170

18 square metres of latest developments

## PRODERA

participates for the fifth 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/>

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## MRTT

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**PRODERA is proud to participate in the MRTT project!!**



Courtesy EADS CASA

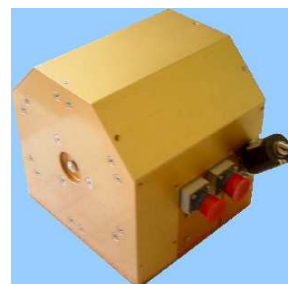


Courtesy EADS CASA

## Flutter Testing using Prodera Inertial Modal Shakers



Inertial shaker  
type EI 797



Inertial shaker  
type EI 799

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## NEW 1000 N LONG STROKE SHAKER

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The range of long stroke constant force shakers has been increased with the new 1000 N shaker type EX 1070 C50.



### Features:

- Internal cooling
- Stroke:  $\pm 25$  mm
- Unique internal guidance
- Visualisation of the position of the moving system
- Ultra light moving system
- No axial stiffness

# 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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