



# SAAB

# STRUCTURAL TESTING



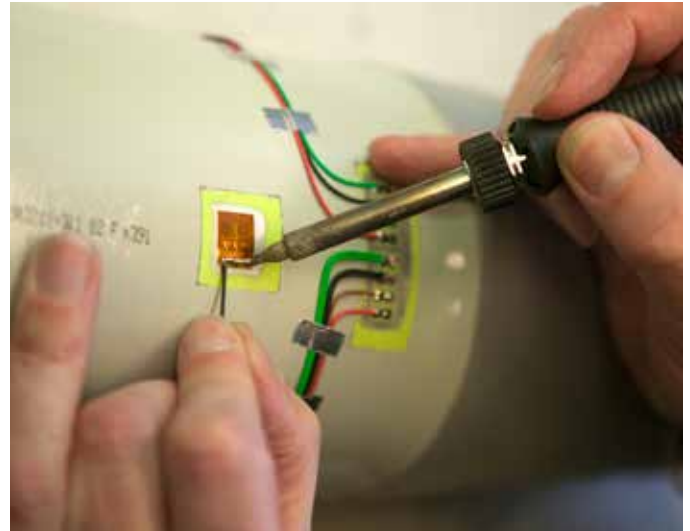
Saab has extensive experience and well equipped facilities and can readily meet the demanding test requirements of the modern aerospace industry.

For more than 70 years we have performed structural testing of specimens ranging from small components up to complete airframes. The combination of civil and military structural technologies is unique for Saab.

Our experienced test managers and well-equipped facilities can readily meet the requirements of the modern aerospace industry, taking care of your complete testing process. From small components to complete airframes, we can quickly construct tests from a wide range of standardized equipment, as well as designing and manufacturing tailor-made test rigs.

Our customers are the Aerospace industry as well as other mechanical industry such as Defense, Space, Automotive, Marine, Agriculture etc.

Operations are certified to ISO 9001, ISO 14001 and AS/EN 9100.



### Test setup

Test rigs are designed and manufactured using CATIA V5 and our own workshops. We can perform stress calculation and evaluation prior to, during and after the test.

### Control system

Our test facilities are equipped with leading-edge computer systems.

### Strain gauges and data acquisition

We can install strain gauges and conduct stress and strain measurement at Saab laboratories or at the customer's site using mobile, high-capacity data acquisition systems.

### Testing

Services include static, fatigue and damage-tolerance testing. Subjects may range from small components up to full-scale structures. Our experience includes the certification process of commercial and military aircraft, including test request, test plan and certification documentation.

## Specification

Test halls / Hangar	225 m <sup>2</sup> H=8m, 340m <sup>2</sup> H=10m	With strong floor. Movable and fixed strong walls.
Control systems	MTS control systems up to 32 ch.	
Control parameters	Load, pressure, displacement, angle.	
Load frames	Up to 1000 kN	Static and fatigue testing.
Data acquisition	More than 100 channels. Up to 1.6 kHz.	
Strain gauge installation	In-house capability.	
High speed camera	12.500 p/s with full resolution (1024x1024)	
CAD	Rig design using Catia v5.	
Environmental conditioning	Standard environmental chambers and mobile equipment.	Ref. Data sheets for environmental testing at Saab
Air pressurization	Equipment and accreditation for testing with air pressure.	
NDT (Non-destructive Testing)	Full capability through nearby located lab Exova.	www.exova.com
Test rig manufacturing	In-house capability.	
Impact tool	For creating impact damages on composite structure.	

Specifications subject to change without notice