

## FOR ON-FLOOR TESTING...

### Structural tests, floor tests



For structural test Applications and production process control, Scaime offers a wide range of force, torque (dynamic or static) and displacement transducers.

Examples of aircraft testing applications realized by Scaime:

- Wing resistance testing
- Material testing
- Landing gear resistance testing
- Power testing of aircraft engines
- Positioning of parts in production



## FOR THE MAINTENANCE...

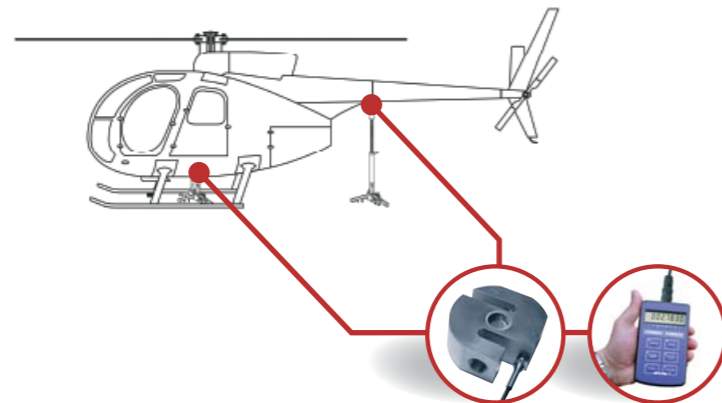
### Helicopter and aircraft weighing



SCAIME offers the VPH-3Z system dedicated to helicopter or aircraft weighing. This system provide a comprehensive solution for the accurate weighing of helicopters during maintenance operations. The three independent weighing channels also enable to monitor the displacement of the aircraft's center of gravity to ensure it remains in airworthiness limits.

VPH-3Z system consists on a aluminum flight case (ATA300 certified) including 3 factory calibrated weighing devices. Each consisting of:

- 1 Stainless steel load cells ZA30X 5 t, IP68 protection
- 1 Jack adapters
- 1 Handheld self-powered weighing indicators IPM25
- Factory calibrated weighing chanel: 5t capacity, 1kg resolution



**scaime**

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**scaime**

# Solutions for Aeronautics

Force measurement, In-flight control



# A partner who gives wings to your project...

SCAIME designs high-performance components dedicated to aircraft industry for more than 30 years. Expert of force measurement for In-flight applications, our transducers are manufactured in France and now equip many major aeronautical programs.

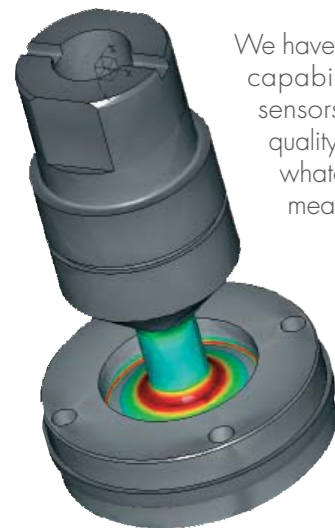
## Applications in aerospace

- Position measurement to monitor the stage separation of a rocket.
- Force measurement to check the tightening screws on ballistic missiles.

## OUR TECHNOLOGICAL EXPERTISE...

Our know how and our modern development means (CAD, finite element analysis, laser welding, ...) allow us to design and produce according to your specifications:

- strain gages sensors
- electronics for signal processing
- force sensors with embedded electronics



We have the experience and in-house capabilities to develop specific sensors, ensuring a high level of quality throughout the program and, whatever you need to accurately measure:

- a weight
- a stress
- a deformation
- a force
- a torque
- a displacement

## FOR IN-FLIGHT CONTROL...



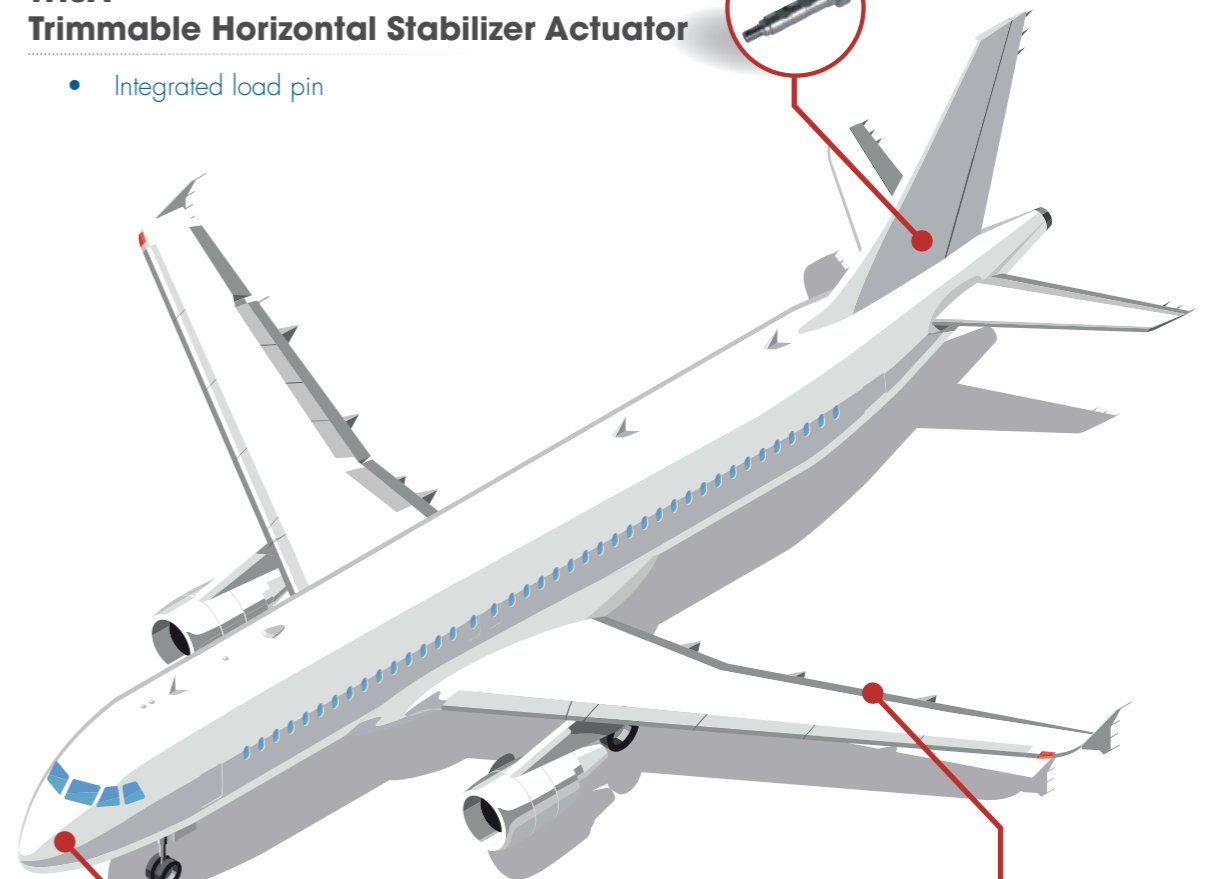
### Release devices for helicopter hook

- Onboard force sensor
- Installed into the lateral and belly lifting system of helicopter
- Overload detection



### THSA - Trimmable Horizontal Stabilizer Actuator

- Integrated load pin



## A QUALITY WITHOUT COMPROMISE...

Our Quality Management system is certified according to EN 9100:2009 and ISO 9001:2008 standards. These achievements confirm that we apply the highest quality requirements of aeronautic industry especially for First Article Inspection (FAI), configuration management and product traceability.

This commitment allows us to supply many aircraft manufacturers : EADS, Airbus Helicopters, SKF Aerospace, LSI Aerospace, Ratier Figec...



### Joystick instrumentation

- Instrumentation of flight control joystick
- Force measurement in the pitch and roll axis of the joystick
- Flight actuators control, pilot assistance

### Flight control monitoring

- Force sensor integrated on flight control
- Measurement of forces exerted by the pilot on the flight controls
- Measurement recording by the flight data recorder

