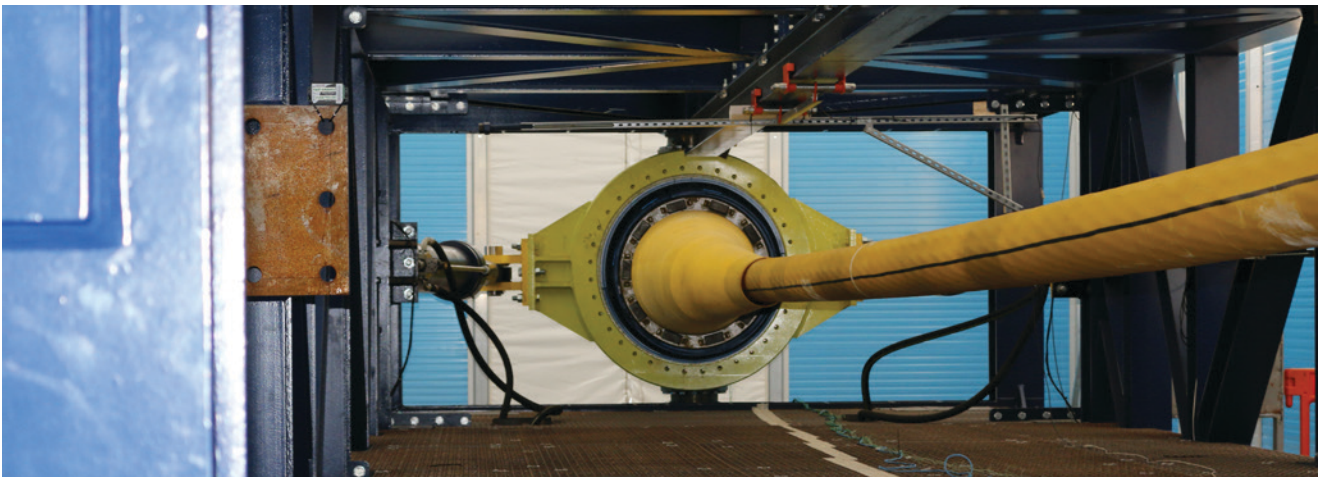


Flex Fatigue Test Equipment

Advanced full-scale testing for large and heavy components



The state-of-the-art flex fatigue equipment simulates the dynamic loads that are experienced in service using accurate control of tension and bending cycles.

Data gathered reduces client risk by establishing the service life of products.

FEATURES

Maximum sample length: 85 ft / 26 m

Tensile load maximum: 1,000 kN

Angular displacement up to ± 30 degrees

Flex Fatigue Testing Equipment

Advanced full-scale testing for large and heavy components

Our machinery is capable of performing tensile or combined tension and bending fatigue testing on products including:

- » Umbilicals
- » Bend stiffeners
- » Latching mechanisms
- » Flexible and composite pipes
- » Power cables
- » Ropes

Advantages of completing flex fatigue testing:

- » Ability to validate service life prediction
- » Advancement of overall knowledge and understanding of products
- » Verification of compliance with industry standards

Parameter	Value
Applied Loads	Tension, bending, internal pressure (independently controlled)
Maximum tensile load	1,000 kN
Angular displacement range	± 30 degree in 180° phase
Maximum sample length	85 ft / 26 m
Maximum sample diameter	59 in / 1500 mm
Machine / Test Sample Interface	Bolted flange
Control system	Computerized system for machine control and datalogging of sample instrumentation
Sensors	Integrated displacement and load monitoring. Datalogging facilities available for monitoring of additional sensors such as thermocouples and strain gauges, if required.
Calibration	UKAS Accredited Calibration to BS EN ISO 7500-1:2004
Results	Electronic test report