

Dynamic Load Testing



Typical dynamic test of a front shovel machine

Strainstall UK Ltd. provides an installation, testing and analysis service to the manufacturers and designers of construction equipment. Manufacturers and designers of construction machinery such as JCB use the services of Strainstall to be able to investigate the structural integrity and fatigue life predictions of new and updated machines.

The fatigue monitoring services from Strainstall gives the client fast, accurate and reliable data to aid a cost-effective reduction in prototype and design test off testing.

A dynamic test programme is carried out on the machine. These tests include fatigue life prediction tests and maximum/minimum search for yield tests and overloading tests to investigate the structural integrity of the machine.

Post processing of the data is carried out. The data collected is generally processed overnight so next day the client has the preliminary results of fatigue life and maximum/minimum stress/strain levels.

A comprehensive report presents results in a summarised form with both tabular and graphical outputs for ease of comparison to the design calculations.

Strainstall's team of experienced engineers operate from offices in Cowes, Bath and Aberdeen (UK) and Tønsberg (Norway).



Strainstall

Instrumentation used:

- **Straingauges**
- **Accelerometers**
- **SES "Data Analysis in Real Time"**

Strainstall UK Limited
Charlton Lane
Midsomer Norton
BATH
BA3 4BE

Tel: +44(0)1761-414939
Fax: +44(0)1761-416655
Email: info@strainstallbath.co.uk
Web: www.strainstall.com