

Stress Analysis of Structures



Typical dynamic test of a material conveyor system in a quarry

Strainstall UK Ltd. Provides an installation, testing and analysis service to the consultants, manufacturers, operators and designers of various structures, equipment and components. Clients use the services of Strainstall to be able to investigate the structural integrity, operational stresses and fatigue life predictions of new, old and updated projects.

The experimental stress analysis services from Strainstall gives the client fast, accurate and reliable data to aid the understanding of the response of the project to in the field use and operational conditions.

A dynamic test program is carried out on the structure. 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 or operational conditions.

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"**

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