



It's a hard and stressful life for a Stone Crusher



Last month DATS were asked to carry out some instrumentation and measurement work on a stone crusher in a remote quarry.

The task set was to measure the loads being applied to the 'jaws' of the crusher whilst crushing multi-sized lumps of granite.

By the nature of quarries, the 'dust' that was in the air and on the machine was substantial, meaning that instrumenting up the crusher in it's self was no mean feat; the careful cleaning and preparation in order to apply the carefully chosen strain gauges took a little longer than on a nice clean bench!

The gauges were applied to the relevant components and using our HBM MCG+ Data Loggers for the data collection we were ready for the crushing to begin!

Each data set was recorded in 10 minute time slots over the period of one day.

Back in Derby, the captured measurement data was analysed and the load and stresses experienced by the 'jaws' whilst crushing the granite were calculated.

A formal report was then prepared for our clients.

Result: The measurements and calculations the client required.