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Product Name: Product Code: Rotating Fatigue Machine ASTRALAB-SUPPLYA21061

Description:

Rotating Fatigue Machine

Technical Specification:

The specimens are held within chucks and loaded using a cantilever arrangement, with the load being applied through a screw jack mechanism with integral cantilever load cell.

Both values can be reset and zeroed (tared) prior to the testing commencing. When specimen failure occurs, a micro switch stops the motor and the cycles to failure are registered on the digital display. This unit has been

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designed to introduce students to the effects of material fatigue using a sinusoidal variation of bending stress.

All tooling is provided to allow the removal and fitting of these specimens. A digital interface displays the applied force and revolution count of the specimen. Specially machined necked test specimens are provided in steel. These have a 4mm nominal neck diameter.

The count remains when the motor is not running. A safety guard shields all rotating parts. A full technical Instruction manual is supplied, which details full unit operation, experimental technique, example results and relevant theory.



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