

TM 211 FATIGUE TESTING MACHINE

GENERAL DESCRIPTION

This equipment is used for studying the effects of fatigue using a rotating cantilever specimen.

A spindle specimen is attached to one end of a rotating shaft held to the base by self aligned bearings. Load is applied on the spindle producing a sinusoidal bending stress. Digital revolution counter keeps account of the number of revolution when failure occurs. A limit switch is provided to stop the rotation when specimen fails.

Instruction manual is also included.

EXPERIMENT CAPABILITIES

- Influence of bending stress.
- Influence of different radii at fracture section.
- Wohler diagram.



TECHNICAL DATA

- Motor : 0.37 kW, 2750 rpm (approx.)
- Revolution counter : 8 digits
- Loading mechanism : Spring balance
- Software for data display and analysis by computer (separately supplied).
- Power supply : 220V, 1 Ph, 50 Hz. Other power supply is available on request.

OPTIONAL ACCESSORIES AND SPECIMENS

- TM 211-005 Specimens: Mild steel, brass or aluminium (pack of 10).
- TM 211-010 Motor speed controller to provide variable test speeds.
- TM 211-015 Pulleys with synchronous belt to provide higher test speed.
- TM 211-040A Coil spring and "S" type load cell digital display instead of spring balance.
- TM 211-050 Computer Interface
This includes load sensor instead of spring balance (s) and computer interface unit.
- Other optional equipment, please contact manufacturer (essom@essom.com)

Net (unpacked) shipping dimensions WxLxH : 30 x 90 x 35 cm
Net weight : Approx. 38 kg