

Secomak

KLAXON LATEX STABILITY TEST APPARATUS

For the determination of the mechanical stability of natural or synthetic latex to BS 6057 PART 3 SECTION 3.1 (ISO 35) and BS 6057 PART 3 SECTION 3.14 (ISO 2006)



- **Electronic speed control**
- **Closed Loop**
- **Fully compensated voltage and loading**
- **Quartz referencing**
- **Sealed-for-life motor bearings**
- **Available in 110V or 230V**
- **Designed for easy operation**

The **KLAXON** Latex Machine has a highly reliable series wound motor which is electronically controlled and incorporates a feedback system to accurately maintain the selected speed. It comes complete with visual confirmation in the form of coloured LEDs and is supported by a matt black aluminium bracket on a chrome-plated column.

The glass (synthetic) or perspex (natural) beaker is retained on its aluminium table. Height is adjustable. The apparatus is mounted on hard sponge rubber pads set into the black stove-enamelled cast iron base. The unit is fully protected for use in tropical climates. Motor bearings are sealed for life.

Operating Instructions

Height Setting

The hand wheel (7) lowers the beaker from the paddle by rack and pinion movement. To enable the user to set the depth between the paddle and the base of the beaker to exactly 13 mm; a distance piece is supplied with the spare parts. With the distance piece in position between the paddle and the beaker the adjustable stop (5) is set by means of two screwed caps which prevent the table from being too high. It is not necessary to alter this until a new container is used. The container is held in position by two chrome plated phosphor bronze clips.

Speed Control

The speed is factory set at 14,000 RPM. When switching on, the electronic circuitry automatically brings the unit to the correct speed (Green LED). The feed back circuit maintains this speed at $14,000 \pm 200$ RPM, within the stated voltage range.

Note

The voltage/temperature compensation control (11) provides slight adjustment in the event of drift due to excessive input voltage or change in temperature. It must only be altered in conjunction with a tachometer to re-set the shaft speed. (Remove top end cap (1) to gain access to shaft end).

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Maintenance and Spares List

Disconnect supply before attempting any work.

MAINTENANCE

- Bearings** Sealed for life. Require no further attention.
- Brushes** Should be replaced when worn to 1/4" (6.3 mm) Bed in new brushes carefully to the commutator diameter. Make sure brushes are inserted the correct way round. Brush life approximately 250 running hours.
- Cleaning** The paddle (8) is detachable (R.H. thread) but should only be removed when absolutely necessary. When replacing clean abutment faces to ensure true running.
- Fuse** Accessible by removing 4 x corner screws in base plate. Fuse is mounted on P.C.B. attached to base plate.

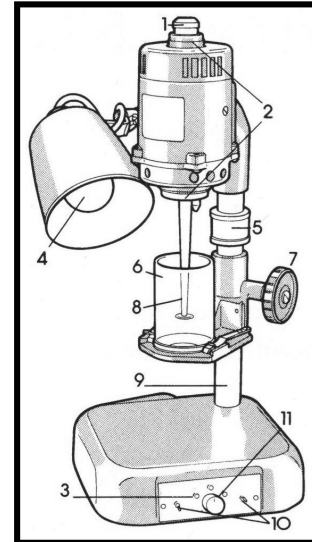
SPARES SUPPLIED WITH APPARATUS

- 2 x Beaker
- 4 x Brush
- 1 x Fuse – ceramic type
- 1 x 13 mm paddle height setting piece

SPARE PARTS LIST *Quote voltage required

Wound field assembly	HKU 2302*
Armature (Natural) c/w paddle	HKU 2343*
Armature (Synthetic) c/w paddle	HKU 2344*
Beaker (Natural) Perspex	HKU 0400
Beaker (Synthetic) Glass	HKU 2283
Brush (2 per motor)	X 5505
Bearing – top	X 5029
Bearing – bottom	X 5028
Speed control assembly 200/250V	X 4780
Speed control assembly 100/125V	X 4788

Complete spare motor units* are also available



KEY

1. Chrome-plated screwed end cap
2. Bearing caps
3. Speed indication LEDs
4. 60w SB fitting lamp (adjustable)
5. Adjustable stop (for breaker table)
6. Latex beaker (glass – synthetic, Perspex – natural)
7. Moulded handwheel for table height adjuster.
8. Stainless steel paddle to ISO dimensions
9. Chrome plated column
10. Lamp and motor switches (as indicated)
11. Voltage/temperature compensation control

SCHEMATIC CIRCUIT DIAGRAM

