

Flexing: F15/16 De Mattia Flexing Machine



- Models to test 12, 24 and 36 samples
- Temperature-controlled oven, 60 – 150°C
- Balanced main shaft for smooth operation
- Easy loading of test samples
- Pre-settable run period
- Long life

Wallace Flexing Machines are used to test specially moulded rubber samples for resistance to cracking or cut growth by repeated flexing.

Flex testing is recommended when flexing encountered in service can be simulated by the action of this test, as for example in the sidewall of tyres or soles of shoes.

The operator gains safe and easy access through front and rear doors and the samples are installed so that they are flexed but not elongated during test.

Two sets of opposing grips are reciprocated

at constant frequency for a preset period, controlled by a cycle counter.

Cracking and cut growth spreads with increasing cycles. The machine is stopped at specified intervals and the cracks evaluated by the operator.

Wallace offer a range of machines capable of testing simultaneously 12, 24 or 36 samples in an unheated cabinet or an oven (temperature range (60 – 150°C).

Four recessed lamps provide interior illumination.

The main shaft is fitted with a balance weight, ensuring smooth running and long machine life.

Accessories

In accordance with the testing standards, Wallace offers the following special moulds and piercing tool for producing a groove in the edge of the test specimen. This groove helps to induce the onset of cracking during flexing:

F1/1 Three cavity specimen mould

F1/1/1 Six cavity specimen mould

F1/3 Piercing Tool with needle

Specification for F15/16 De Mattia Flexing Machine

Model	F15/12	F15/24	F15/36	F16/12	F16/24	F16/36
Oven	No	No	No	Yes	Yes	Yes
No. Samples	12	24	36	12	24	36
Dimension width, mm	710	710	710	710	710	710
Depth, mm	570	570	570	570	570	570
Height, mm	1210	1210	1210	1210	1210	1210
Weight, kg	210	210	210	275	275	275
Max. power, VA	900	900	900	2900	2900	2900
Oven temp. °C				60 -150	60 -150	60 -150
Temp. stability, °C				± 1	± 1	± 1
Standards	BS ISO 132 ISO 813, ASTM D 813					