

MACKLOW SMITH

MST 426

BOX COMPRESSION TESTER

Uses

The Macklow Smith Box Compression Tester (BCT) has been designed as a laboratory style floor mounted compression tester. With a box/carton capacity of over 1m cube it enables the laboratory technicians to perform tests on the larger cartons with forces up to 80kN it will cover the most demanding tests for large cardboard boxes. The standard machine comes with a digital display that will hold in memory the peak force reading of the previous test, as standard it comes with a pre-set speed set and calibrated by Macklow Smith, to enable the simple calculation of straining rate.

Models

There are three models,

STD-Standard, which has a top self-aligning platen.

PP-Parallel Platens, both platens are fixed in a parallel position to each other. (ASTM standard)

PS-Parallel and Self Aligning, both of the above

Operation

Without any optional equipment the machine is manually operated from a top front control panel where; the speed can be varied or run at a pre-set speed, the force reading taken directly from the display, in engineering units of the customers choice, zero and tare facility and with the ability to show the "peak" force during the test.

Software is available to transfer data directly to a PC.

There is also a full PC control option which automatically stops the platen after completion of the test and returns the platen to the start position of the previous test(s), this greatly reduces the technicians time in re-setting the machine. The data from these tests is automatically downloaded to a PC up to a ten tests can be recorded per session, with the max. force noted for each test, the report generator produces this report in a spreadsheet or pdf. format

Simple to Install

They are supplied for flat level floor mounting, with a standard electrical supply of 230V 1ph 50hz and may be plugged into most wall sockets of 10A-13A capacity.

Accuracy

Each machine comes with a works calibration certificate for the readout from the load cell/display to within $\pm 0.05\%$ of rated full scale. The customer approved pre-set test speed to within 0.5mm/minute.

Optional Equipment

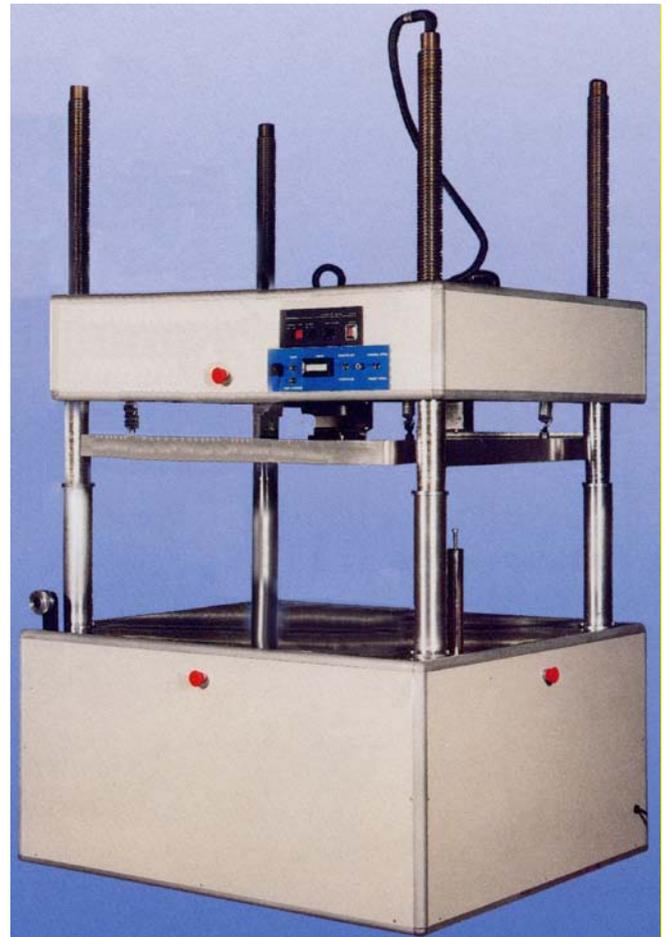
Speed indicator. *For exact variable speed control.*

Software for recording and downloading onto a PC.

Macklow Smith full PC control and software/report

generator. *(for full details see PC control data sheet)*

SPECIFICATION



Model	MST426
Electrical Supply	230V 1PH 50HZ Others available on request
Capacity:	
Force Range	Up to 80kN / 8000 kg
Carton size	1250 x 1000 x 1000mm
Drive	Gearbox and Chain
Test speed	1 pre-set
Variable speed	0 – 250mm/minute
Overload Trip	Set at 110% FS
Load Cell:	
Accuracy	$\pm 0.05\%$ full scale
Safe overload	150% FS
Digital Display:	
Peak Hold feature	standard
Display	6 digits, 18mm LCD
Update speed	30ips
Protection	IP65
Membrane	Polyester, tactile action
Machine Dimensions:	
H x W x D	2200 x 1500 x 1200mm
Weight	1200kgs

In the interest of product development we reserve the right to alter specifications without prior notice.