

MACKLOW SMITH MST 445

CARTON COMPRESSION TESTER

Uses

The Macklow Smith Carton Compression Tester has been designed as a laboratory style bench mounted compression tester. With a carton capacity of up to 600mm cube it enables the laboratory technicians to work in an ergonomic environment with the smaller carton sizes. The standard machine comes with a digital display that will hold in memory the peak force reading of the previous test, it also comes with a pre-set speed 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 options the machine is manually operated from a front control panel where; the speed can be varied or run at a pre-set speed, the force reading taken directly from the display.

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 ready for the next test. 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 bench mounting, with a standard electrical supply of 230V 1ph 50hz and may be plugged into most wall sockets.

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.

Options

Speed indicator. *For exact variable speed control.*
Software for recording and downloading onto a PC.
Macklow Smith full PC control and software/report generator.

SPECIFICATION



Model	MST445
Electrical Supply	230V 1PH 50HZ Others available on request
Capacity:	
Force Range	Up to 20kN / 2000 kg
Carton size	600 x 600 x 600mm
Drive	Gearbox and Chain
Test speed	1 pre-set
Variable speed	0 – 100mm/minute
Overload Trip	Set at 110% FS
Load Cell:	
Accuracy	$\pm 0.05\%$ full scale
Safe overload	125% 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	1230 x 940 x 740mm
Weight	355 -420kgs

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