

# MACKLOW SMITH

## MST 471

### LARGE BOX COMPRESSION TESTER

#### Uses

The Macklow Smith 471 Box Compression Tester (BCT) are purpose built to our customers specifications the design is based around are popular 426 model. They are floor mounted or may be built into the floor allowing ease of access. With a box capacity of up to 3m cube it enables the technicians to perform tests on the extremely large boxes or containers with forces up to 150kN it will cover the most demanding tests for extremely large cardboard boxes or containers. The design is based on your specific requirements and there are a range of options that can be built in to suit.

#### 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 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

#### Installation

Macklow Smith will carry out or oversee the entire site build of the machine and installation.

#### Accuracy

Once complete the force indicators and speed(s) are calibrated and a certificate traceable to national standards is then issued to the customer.

#### 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



photo showing a large container tester during installation

Model	MST471
Electrical Supply	230V 1PH 50HZ
	Others available on request
Capacity:	
Force Range	Up to 150kN / 15,000 kg
Carton size	3000 x 3000 x 3000mm (max)
Drive	Gearbox and Chain
Test speeds	To customer specification
Variable speed	0 – 250mm/minute
Overload Trip	Set at 110% FS
Load Cell:	
Accuracy	±0.5% 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	To customer specification
Weight	As specification

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