

# UNIVERSAL CRUSH TESTER 17-60



## FEATURES

- Measuring range 1000 LB (0-5000 N)
- Test speed 0.2-2.0 in/min (5-50 mm/min)
- Return speed 4.0 in/min ( $\pm 100$  mm/min)
- Menu-driven software
- Test results and statistics are displayed on a large high contrast LCD screen
- Preset keys for all relevant tests
- Automatic fast return platen saves testing time
- Multi-language programmed- 7 languages
- 8 Corrugated Test Methods for quick access
- Measuring units include: N/m, lb/in, kPa, lb/in<sup>2</sup> or lb/ft
- RS232C serial data output
- Printer output
- Key lock prevents accidental or unauthorized resetting

Designed in close cooperation with industry, the Universal Crush Tester is rugged enough for any production testing environment. Microprocessor control and operator friendly software makes the Model 17-60 simple to operate. Ergonomic control layout maximizes testing speed while minimizing sample testing errors resulting in incorrect data. The instrument meets or exceeds all current and projected standards for accuracy, precision, and parallelism.

System Software includes 8 Corrugated Test Methods for quick access including: RCT, CCT, ECT, CMT, FCT, PAT, CLT and SQT- score test which calculates Score Ratio of scored verses unscored samples.

## APPLICATIONS

Corrugated  
Tubes and Cores  
Flexible Packaging  
Plastic Products  
Building Products

## OPTIONAL ACCESSORIES

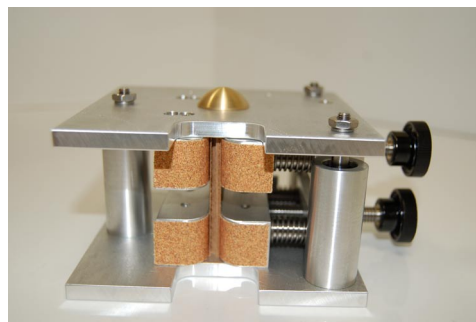
Sample holders for RCT, CCT, ECT and SQT  
Model 22-47 Sample Cutter  
Model 22-22 Sample Cutter  
Printer

# UNIVERSAL CRUSH TESTER 17-60

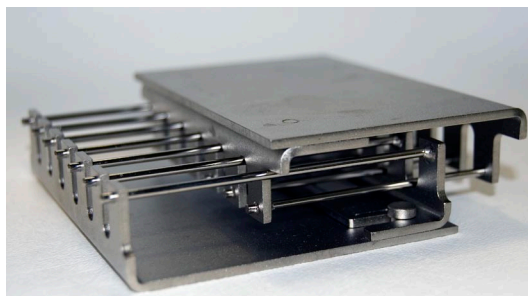
## OPTIONAL ACCESSORIES



▲ RCT- Ring Crush holder with disks 17-11-13



▲ Edge Crush Tester 17-11-49



▲ PAT-Pin Adhesion Attachment 17-11-09

### INSTRUMENT MEETS

RCT test	APPITA/AS 1301.407s, DIN 53134, ISO 12192, SCAN P34, TAPPI T 822
CMT test	APPITA/AS 1301.434s, ISO 7263, DIN 53134, SCAN P27, TAPPI T809
CCT test	SCAN P42, TAPPI T 843
PAT test	APPITA/AS 1301.430s, TAPPI T 821, FEFCO No. 11
ECT test	APPITA/AS 1301.444s, ISO 3037, ISO 13821, DIN 53149, SCAN P33, TAPPI T 811, TAPPI T 823, TAPPI T 838, TAPPI T 839, FEFCO No. 8
FCT test	PPITA/AS 1301.429s, EN 23035, ISO 3035, SCAN P32, TAPPI T 825, FEFCO No. 6
ASQT test	TAPPI T 829

# UNIVERSAL CRUSH TESTER 17-60

## SPECIFICATIONS

**Model** 17-60-00-0001

### Ranges

Measuring range 0 – 1124 lb (0 - 5000 Newton)  
Accuracy ± 1% of reading  
Stroke length 3.03 in (77 mm)  
Measuring units N - lb - N/m – lb/in - kPa -Lb/foot – lb/in<sup>2</sup>

### Speed

Test Speed 0.2 – 2.00 in/min (5-50 mm/min)  
Return Speed ± 4.00 in/min (± 100 mm/min)

### Platen Size

Upper platen 4.92 x 4.92 in (12.5 x 12.5 cm) with 2.75 in (7 cm) opening  
Lower platen 7.08 x 4.92 in (18 x 12.5 cm)

### Statistics Display

- Number of tests
- Number of tests deleted
- Highest value
- Lowest value
- Mean value
- Standard deviation
- Variation coefficient
- CCT Index (in case of CCT tests)
- Max. number of tests : 100 (in one test series)

### Machine Requirements

Power 230V/50Hz or 120V/60Hz  
Safety Features Overload protection: Electronically at 100% of measuring range during test.  
Overload protection: 100 N during travel upwards lower platen  
Connections RS232C output, Serial printer output  
Internal languages English - Dutch - German - French  
Spanish - Finnish – Italian (special languages on request)

### Physical Specifications

W x D x H 14.5 in x 15.7 in x 28 in (37 cm x 40 cm x 71 cm)  
Weight 152 lbs (69 kg)

### Standards

ISO 13820 Paper, board and corrugated fibreboard -- Description and calibration of compression-testing equipment  
APPITA/AS 1301.449s Description of crush testing equipment

**Testing Machines Inc.**  
40 McCullough Drive  
New Castle, DE 19720  
Tel: (302) 613-5600  
Fax: (302) 613-5619  
Info@testingmachines.com

**Büchel BV**  
t/a Messmer Büchel  
Fokkerstrat 24, 3905 KV  
Veenendaal, Netherlands  
Tel: +31 (0)318 521500  
Fax: +31 (0)318 540358

**Lako Tool and  
Manufacturing Inc.**  
7400 Ponderosa Road  
Perrysburg, Ohio 43552  
Tel: (419) 662-5256  
Fax: (419) 662-8225

**Lawson Hemphill**  
1658 G A R Highway  
Swansea, MA 02777  
Tel: (508) 679-5364  
Fax: (508) 679-5396  
Information@  
lawsonhemphill.com

**Adamel Lhomargy  
SARL**  
Z.A. de l'Habitat,  
Bâtiment 6  
Route d'Ozoir, 77680  
Roissy en Brie, France  
Tel: +33 (0) 1 64402910  
Fax: +33 (0) 1 64409211

**TMI Canada**  
40 McCullough Drive  
New Castle, DE 19720  
Tel: (302) 613-5600  
Fax: (302) 613-5619  
canada@testingmachines.com

