

EZ50

Materials Testing Machine

The EZ50 materials testing system combines high performance, flexibility and exceptional ease of use. It is ideal for testing applications with capacities up to 50kN (11000lbf) in tension and direct compression. The EZ50 features a twin column, twin lead screw frame, and incorporates a crosshead guidance system to prevent side loading of the sample under test. A high resolution encoder is used to measure sample extension and also to provide high accuracy speed control. The crosshead is driven by a high precision servo motor and DC servo system to achieve a wide range of speeds throughout the full load range.

The EZ50 features a multi-position control console with membrane multi-function keypad and easy to read LCD display. Test and set-up information is selectable in English, French, German, Italian, or Danish, with optional units. The machine may be programmed to perform up to ten different tests and the statistics for each test are automatically calculated. Up to six hundred results may be stored from any of the test setups. Tests may also be performed using state of the art control and analysis software NEXYGEN™, via the integral RS232 interface.

A range of highly accurate, interchangeable load cells and extensometers are available for tension, compression and cycling through zero force measurements. In addition, a wide assortment of grips, jigs and accessories are available to help you meet your testing objectives.

FEATURES

- 10 programmable test set-ups
- 4 line back-lit LCD
- On line statistics
- 32 bit micro controller
- Saves 600 test results
- 2 key press operation
- Data sampling rate 1000Hz
- Flash up gradable
- Easy set safety limits

SPECIFICATIONS

| | |
|-----------------------|--|
| Force Range: | 50kN (11000lbf) |
| Crosshead Speed: | 0.1 to 250 mm/min 0.01 to 10 inches/min |
| Speed Accuracy: | < 0.2% at steady state |
| Stroke: | 10 to 1000 mm 0.4 to 40 inches |
| Load Resolution: | < 0.005% of load cell used (max) |
| Extension Resolution: | < 0.1mm |
| Data Sampling Rate: | 1000Hz |
| Extensometer Inputs: | +10V dc analogue input socket |
| Data Outputs: | Digital - RS232 Analogue - 10Vdc max |
| Measuring System: | Exceeds the requirements of BS EN ISO 7500-1: 1999. Class 0.5, ASTM E4, DIN 51221. |
| Analysis Software: | NEXYGEN™ Data Analysis Software (optional) |
| Supply Voltage: | 115/230Vac ± 10% 50 - 60Hz |
| Weight: | 150kg (330lb) |
| Operating Temp: | 5° to 35°C (40°F to 95°F) |
| Warranty: | 1 year |

SPECIFICATION
SS-MT-6255-0101
January 2001

INTERNET

www.ametek.com
www.chatillon.com
www.loyd-instruments.co.uk

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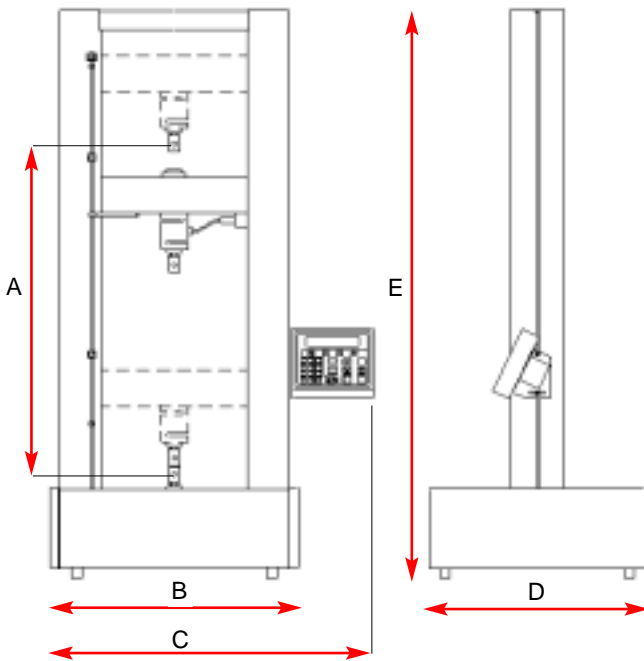


LLOYD
INSTRUMENTS
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ORDERING INFORMATION

| Model | Part No. | Description |
|-------|----------|---|
| EZ50 | 01/2830 | Twin Column, Bench mounted Materials Testing System |

EZ50 DIMENSIONS



| | mm | in |
|---|------|----|
| A | 915 | 36 |
| B | 686 | 27 |
| C | 893 | 35 |
| D | 596 | 23 |
| E | 1574 | 62 |

STANDARD ACCESSORIES

LOADCELLS:

5 N (11 lbf)
 10 N (2 lbf)
 20 N (4 lbf)
 50 N (11 lbf)
 100 N (22 lbf)
 500 N (110 lbf)
 1000 N (220 lbf)
 2500 N (550 lbf)
 5000 N (1100 lbf)
 10 kN (2200 lbf)
 20 kN (4500 lbf)
 30 kN (6600 lbf)
 50 kN (11000 lbf)

ITEM

XLC-0005-A1 01/2946
 XLC-0010-A1 01/2360
 XLC-0020-A1 01/2950
 XLC-0050-A1 01/2361
 XLC-0100-A1 01/2480
 XLC-0500-A1 01/2362
 XLC-1000-A1 01/2419
 XLC-2500-A1 01/2363
 XLC-5000-A1 01/2364
 XLC-10K-A1 01/2365
 XLC-20K-A1 01/2417
 XLC-30K-A1 01/2360
 XLC-50K-A1 01/2367

MODEL

EXTENSOMETERS:

Non Contacting Extensometer (115V) with stand
 Non Contacting Extensometer (230V) with stand
 Extensometer Punch (applies 2 mm, 0.08 in targets)
 Extensometer Punch (applies 4 mm, 0.16 in targets)
 Longtravel Extensometer without stand
 Extensometer Stand for EXL750
 High Res' Longtravel Extensometer with stand

LASERSCAN EI 01/2939
 LASERSCAN EZ 01/2913
 TTOXP/2 01/1159
 TTOXP/4 01/1156
 EXL750 EZ 01/2914
 EXT STAND B 01/2313
 EXH750 EZ 01/2915

High Res' Strain Gauge Extensometers:

Gauge Length: 10mm (0.40 in) Max Elongation 10% STGA/10/10E 01/2917
 Gauge Length: 25mm (0.98 in) Max Elongation 10% STGA/25/10E 01/2918
 Gauge Length: 25mm (0.98 in) Max Elongation 25% STGA/25/25E 01/2919
 Gauge Length: 25mm (0.98 in) Max Elongation 50% STGA/25/50E 01/2920
 Gauge Length: 25mm (0.98 in) Max Elongation 100% STGA/25/100E 01/2921
 Gauge Length: 50mm (1.97 in) Max Elongation 25% STGA/50/25E 01/2922
 Gauge Length: 50mm (1.97 in) Max Elongation 50% STGA/50/50E 01/2923
 Gauge Length: 50mm (1.97 in) Max Elongation 100% STGA/50/100E 01/2924
 Gauge Length: 80mm (3.15 in) Max Elongation 10% STGA/80/10E 01/2925
 Gauge Length: 80mm (3.15 in) Max Elongation 25% STGA/80/25E 01/2926

SOFTWARE:

NEXYGEN™ 4.0 Software Package 40/0658
 NEXYGEN™ Upgrade to Version 4.0 40/0658/NR
 ONDIO Application Builder (Use With NEXYGEN) 40/0683
 NEXYGEN/ONDIO Software Suite 40/0695
 NEXYGEN/ONDIO Upgrade 40/0695/U

GRIPS & FIXTURES:

All grips up to a capacity of 50 kN (11000 lbf) can be fitted.



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