

EZ20

Materials Testing Machine

The EZ20 materials testing system combines high performance, flexibility and exceptional ease of use. It is ideal for testing applications with capacities up to 20kN (4500lbf) in tension and direct compression. The EZ20 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 EZ20 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

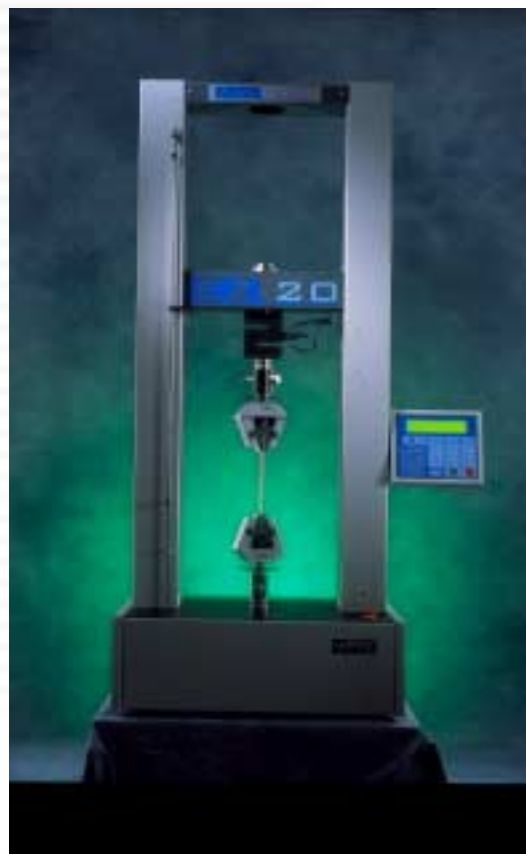
SPECIFICATIONS

Force Range:	20kN (4500lbf)
Crosshead Speed:	Up to 20kN (4500 lbf) 0.1 to 500 mm/min 0.01 to 20 inches/min
Speed Accuracy:	Up to 10kN (2200 lbf) 0.1 to 1020 mm.min 0.01 to 40 inches/min < 0.2% at steady state
Stroke:	< 0.2% at steady state 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-6222-0101
January 2001

INTERNET
www.ametek.com
www.chatillon.com
www.lloyd-instruments.co.uk

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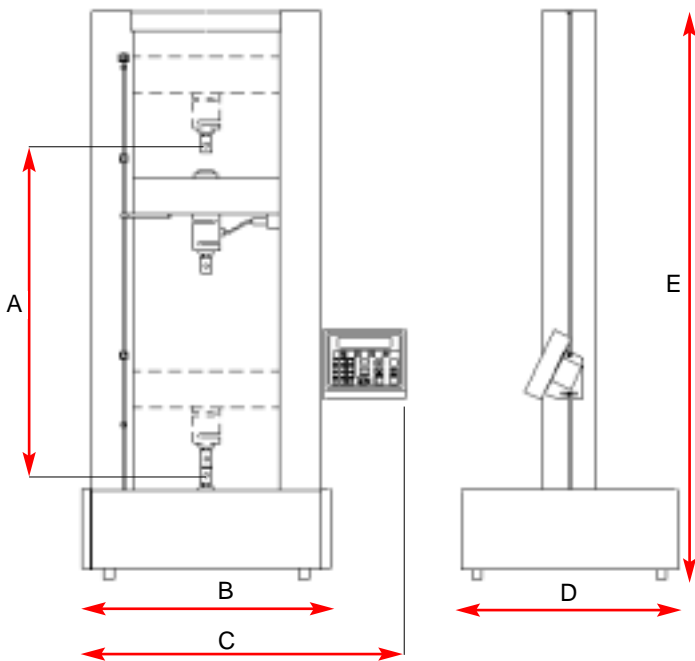
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INSTRUMENTS
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ORDERING INFORMATION

Model	Part No.	Description
EZ20	01/2889	Twin column, bench mounted Materials Testing System

EZ20 DIMENSIONS

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



STANDARD ACCESSORIES

LOADCELLS:

5 N (1 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 (2200lbf)
20 kN (4500lbf)

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

EXTENSOMETERS:

Non Contacting Extensometer & Mounting Stand	LASERSCAN	01/2913
Extensometer Punch (applies 2 mm, 0.08 in targets)	TTOXP/2	01/1159
Extensometer Punch (applies 4 mm, 0.16 in targets)	TTOXP/4	01/1156
Longtravel Extensometer	EXL750	01/2914
Extensometer Stand for EXL750	EXT STAND B	01/2313
High Res' Longtravel Extensometer & Stand	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 100 kN (22000lb) can be fitted to the EZ20.

Distributed By

AMETEK®

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Manufacturer