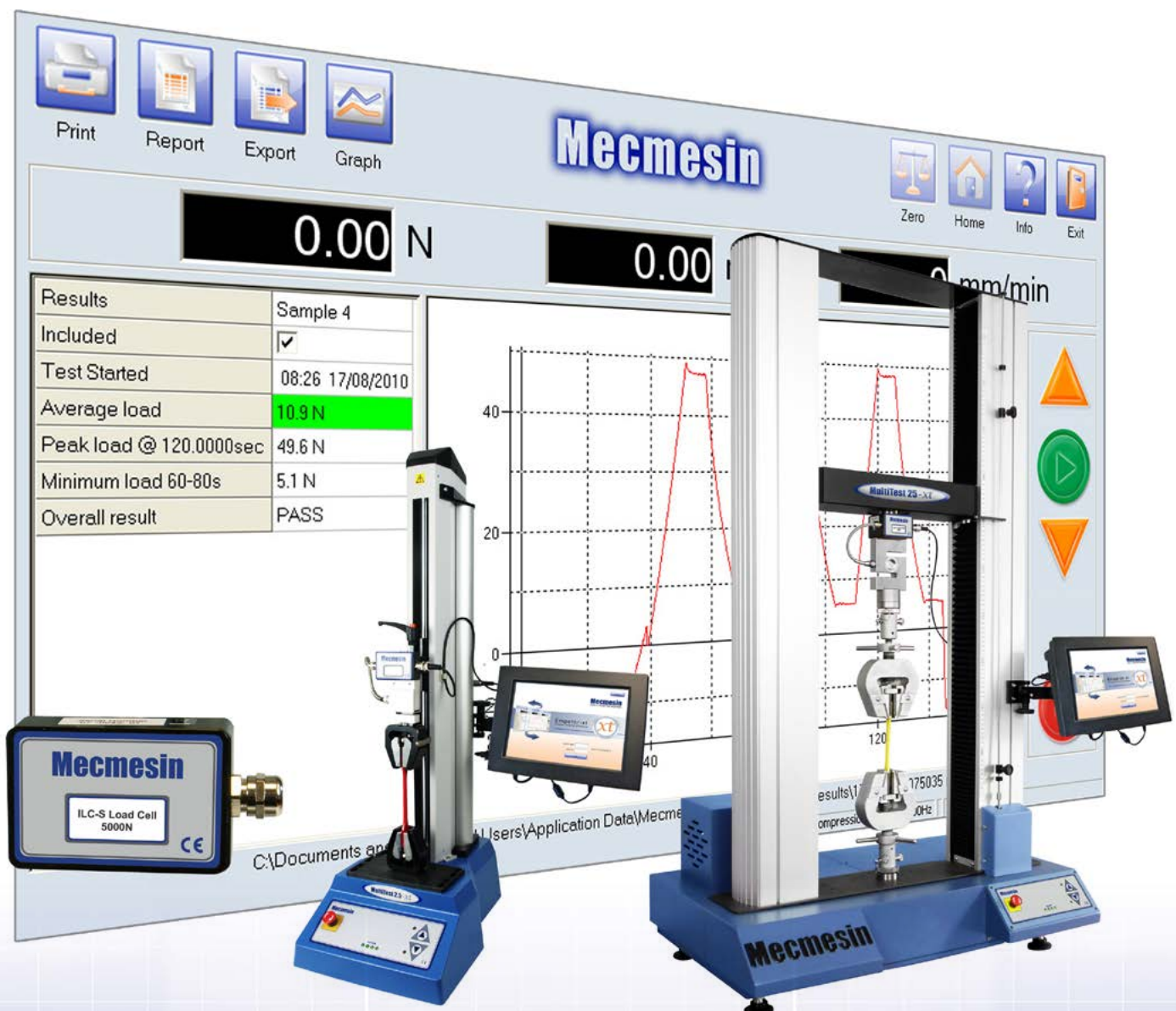
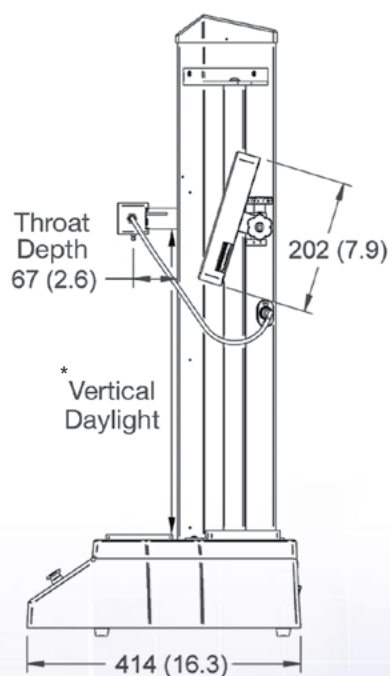
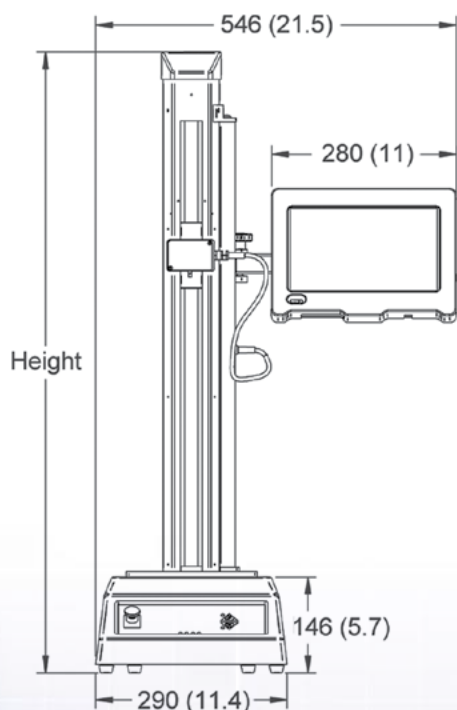


MultiTest-xt

Technical Datasheet



MultiTest 0.5-xt, 1-xt & 2.5-xt

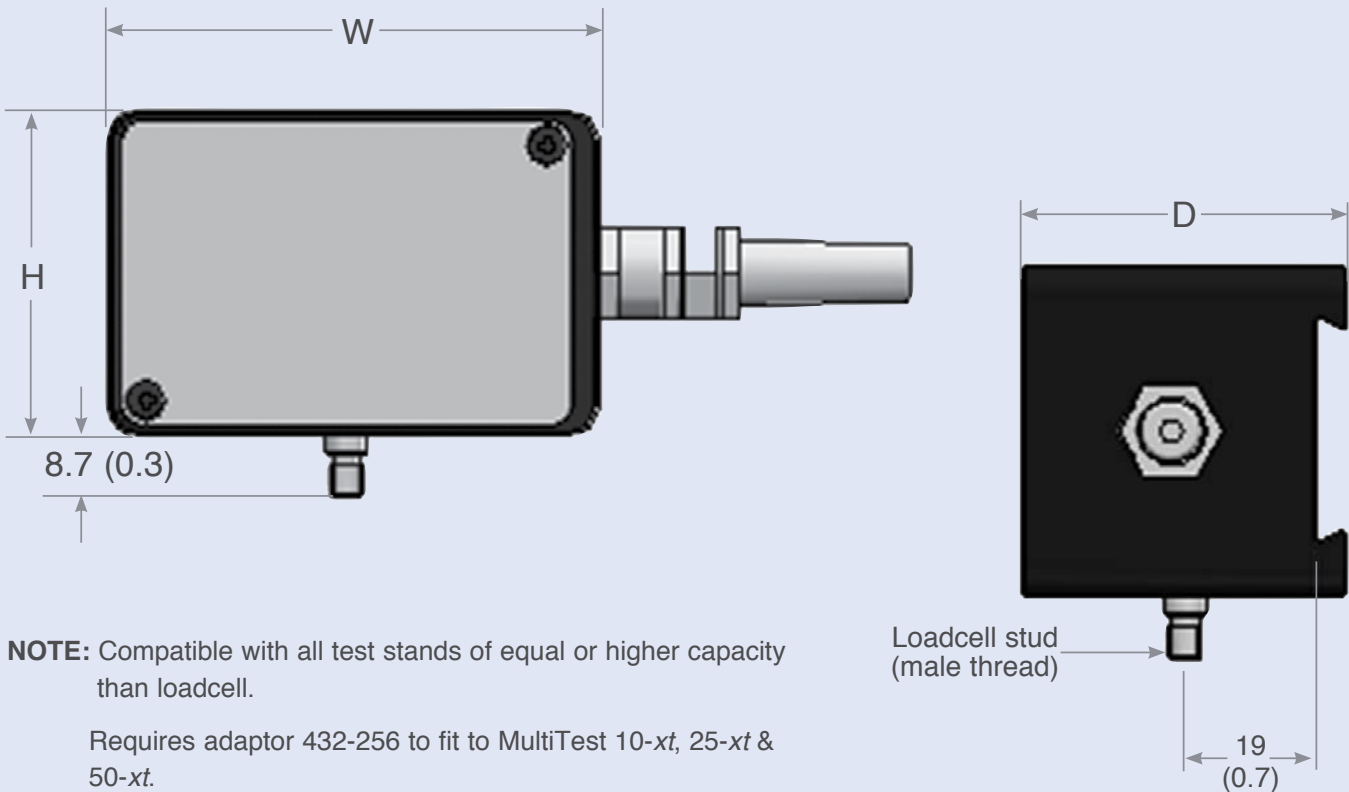


All measurements are in millimetres and (inches)

	Height	Width (test frame only)	Max Width (with console fitted)	Depth	Vertical Daylight*
MultiTest 0.5-xt	1710 mm (67.3)	290 mm (11.4)	546 mm (21.5)	414 mm (16.3)	1359 mm (53.5)
MultiTest 1-xt	1510 mm (59.4)	290 mm (11.4)	546 mm (21.5)	414 mm (16.3)	1159 mm (45.6)
MultiTest 2.5-xt	941 mm (37)	290 mm (11.4)	546 mm (21.5)	414 mm (16.3)	590 mm (23.2)

* Measured without loadcell or grips

Intelligent Loadcell ILC



All measurements are in millimetres and (inches)

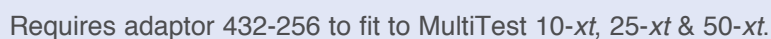
ILC capacity	Part No.	Thread	Overall daylight reduction	Loadcell width (W)	Loadcell depth (D)	Loadcell height (H)	Total daylight reduction using twin-column dovetail (432-256)
2 N	879-009	#10-32UNF	15 (0.6)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
5 N	879-010	#10-32UNF	15 (0.6)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
10 N	879-001	#10-32UNF	15 (0.6)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
25 N	879-002	#10-32UNF	15 (0.6)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
50 N	879-003	#10-32UNF	15 (0.6)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
100 N	879-004	#10-32UNF	15 (0.6)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
250 N	879-005	#10-32UNF	15 (0.6)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
500 N	879-006	#10-32UNF	15 (0.6)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)

See page 3 for ILC-S loadcells (100 N to 5000 N)

ILC Load Measurement Accuracy

% of full scale (fs)	N
± 0.1% fs	2 N - 500 N

Intelligent Loadcell ILC-S



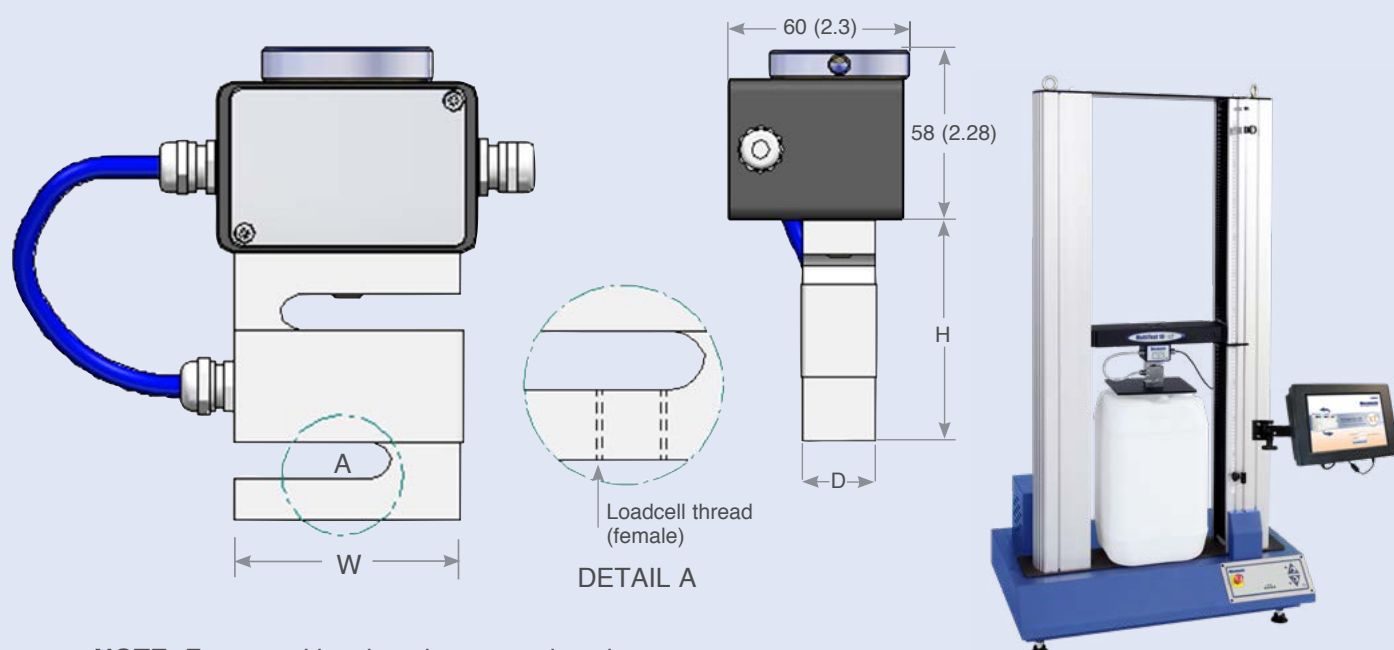
* measured without loadcell or grips



Mecmesin

MultiTest 10-xt & 25-xt

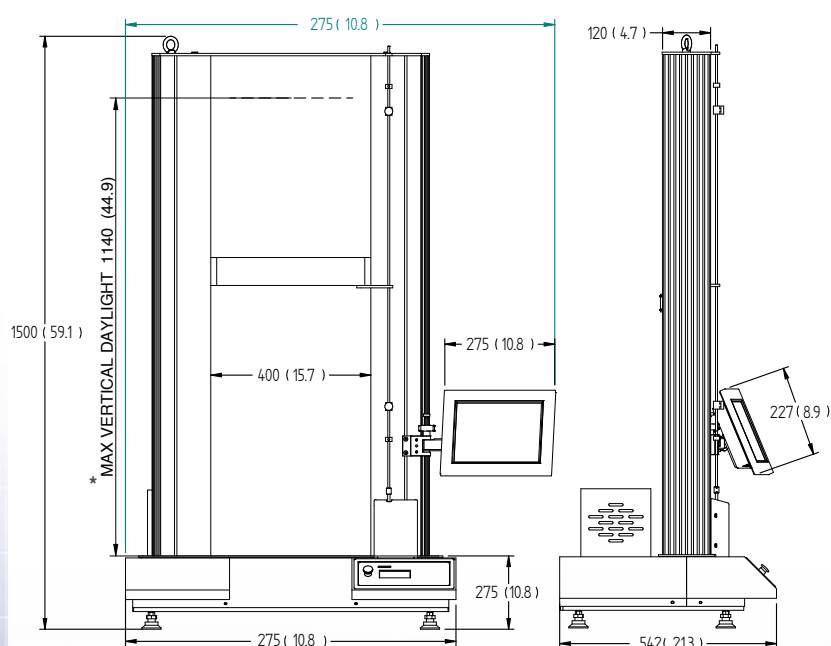
Intelligent Loadcell ILC-T



ILC-T capacity	Part No.	Thread	Overall daylight reduction	Loadcell width (W)	Loadcell depth (D)	Loadcell height (H)
10 kN	879-025	M12 x 1.75	134 (5.3)	51 (2)	25 (1)	76 (2.9)
25 kN	879-026	M16 x 2	147 (5.8)	76 (2.9)	38 (1.5)	89 (3.5)

All measurements are in millimetres and (inches)

* measured without loadcell or grips



Twin-Column Dovetail Adaptor

Note: For use with ILC and ILC-S

Supplied as standard with MultiTest 10-i & 25-i



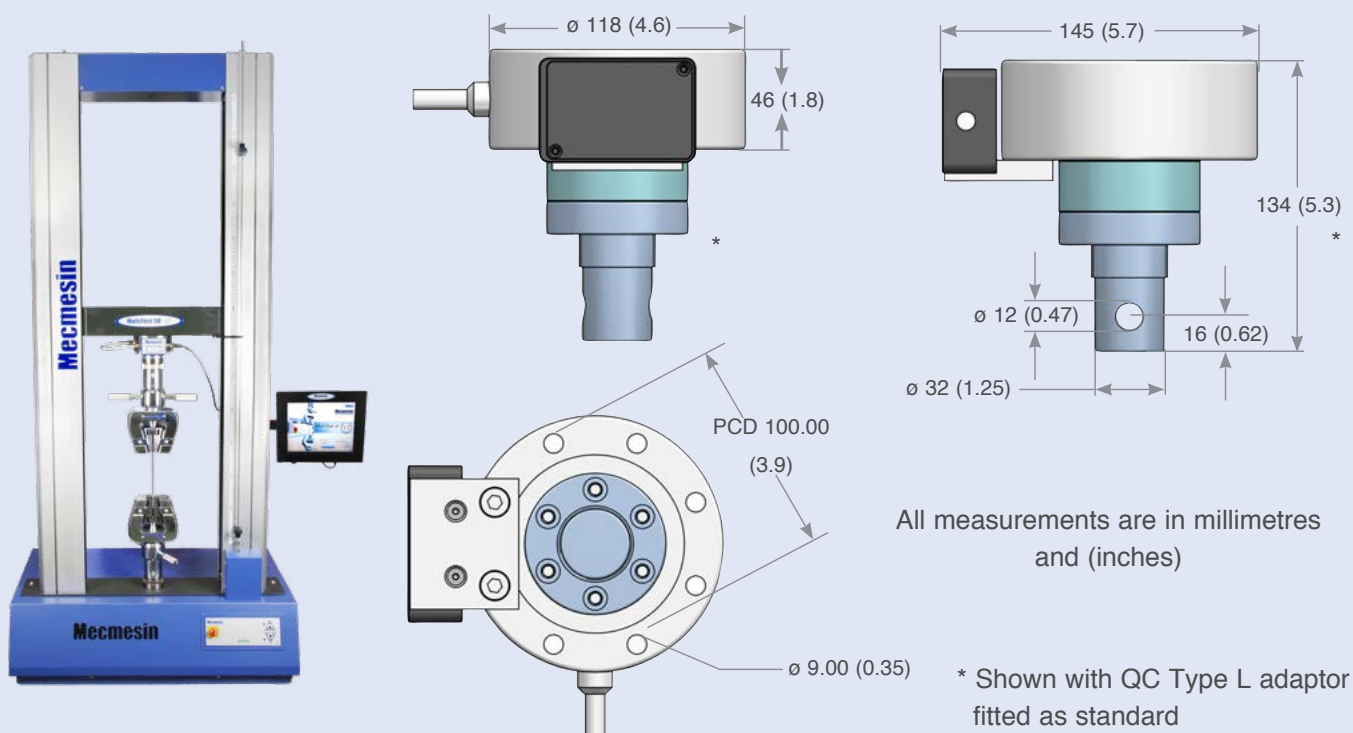
Rated capacity	Part No.
5 kN	432 - 256

ILC-T Load Measurement Accuracy

% of full scale (fs)	N
± 0.2% fs	10 kN - 25 kN

MultiTest 50-xt

Intelligent Loadcell ILC-P



ILC-P capacity	Part No.	Thread	Overall daylight reduction	Loadcell diameter (ø)	Loadcell height (H)
20 kN	879-077	M18 x 1.5	134 (5.3)	118 (4.6)	134 (5.3)
50 kN	879-076	M18 x 1.5	134 (5.3)	118 (4.6)	134 (5.3)

All measurements are in millimetres and (inches)

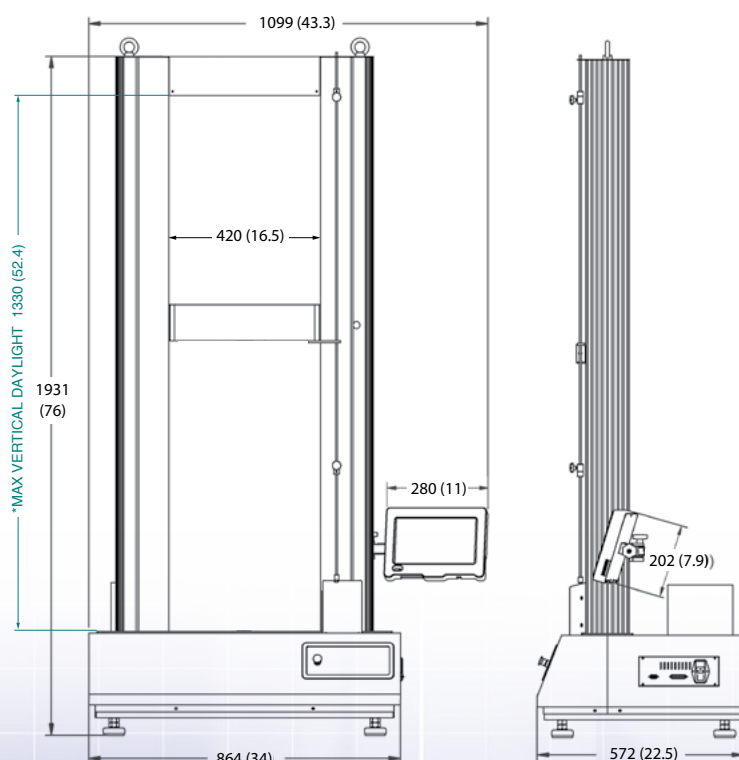
* measured without loadcell or grips

Note: Adaptors are supplied to allow fitting of additional ILC and ILC-S / T loadcells to ILC-P loadcells or directly to moving crosshead.

Twin-Column Dovetail Adaptor

NOTE: For use with ILC and ILC-S loadcells.

Supplied as standard with MultiTest 50-xt



Rated capacity	Part No.
5 kN	432 - 256

ILC-P Load Measurement Accuracy

% of full scale (fs)	N
± 0.2% fs	20 kN - 50 kN

Specifications

MultiTest-xt		0.5	1	2.5	5	10	25	50
TEST FRAME								
Rated capacity	N	500	1000	2500	5000	10000	25000	50000
	kgf	50	100	250	500	1000	2500	5000
	lbf	110	220	550	1100	2200	5500	11000
Number of ballscrews		1	1	1	1	2	2	2
Speed range	mm/min	1 - 1000	1 - 1000	1 - 1000*	1 - 500	1 - 1000	1 - 1000**	1 - 400***
	in/min	(0.04 - 40)	(0.04 - 40)	(0.04 - 40)	(0.04 - 20)	(0.04 - 40)	(0.04 - 40)	(0.04 - 15)
Crosshead speed accuracy		±0.2% of indicated speed						
Distance between columns		-	-	-	-	400 mm (15.7")	400 mm (15.7")	420 mm (16.5")
Throat depth†		67 mm (2.6")	67 mm (2.6")	67 mm (2.6")	95 mm (3.7")	-	-	-
Vertical daylight ††		1359 mm (53.5")	1159 mm (45.6")	590 mm (23.2")	710 mm (28.0")	1140 mm (44.9")	1140 mm (44.9")	1330 mm (52.4")
Height		1710 mm (67.3")	1510 mm (59.4")	941 mm (37")	1082 mm (42.6")	1500 mm (59.1")	1500 mm (59.1")	1931 mm (76")
Width (test frame only)		290 mm (11.4")	290 mm (11.4")	290 mm (11.4")	328 mm (12.9")	826 mm (32.5")	826 mm (32.5")	864 mm (34")
Max width (with console fitted)		546 mm (21.5")	546 mm (21.5")	546 mm (21.5")	615 mm (24.2")	1073 mm (42.2")	1073 mm (42.2")	1099 mm (43.3")
Depth		414 mm (16.3")	414 mm (16.3")	414 mm (16.3")	526 mm (20.7")	542 mm (21.3")	542 mm (21.3")	572 mm (22.5")
Weight		43 kg (95 lbs)	41 kg (90 lbs)	27 kg (60 lbs)	43 kg (95 lbs)	145 kg (320 lbs)	145 kg (320 lbs)	290 kg (639 lbs)
Max. power requirement		120 watts	200 watts	250 watts	150 watts	450 watts	450 watts	450 watts
Voltage		230 V AC 50 Hz or 110 V AC 60 Hz						
LOAD MEASUREMENT								
Available loadcell ranges	N	2 to 50,000 (14 models)						
	kgf	0.2 to 5,000 (14 models)						
	lbf	0.45 to 11,000 (14 models)						
Loadcell measurement accuracy		±0.1% of full scale for loadcells from 2 N to 2.5 kN ±0.2% of full scale for loadcells from 5 kN to 50 kN						
Loadcell measurement resolution		1:6500						
DISPLACEMENT								
Crosshead travel††		1200 mm (47.3")	1000 mm (39.4")	500 mm (19.7")	590 mm (23.2")	950 mm (37.4")	950 mm (37.4")	1100 mm (43.3")
Positional accuracy per 300 mm (11.81") of travel		±130 μm (±0.005")				±100 μm (±0.004")		
Displayed resolution		±0.01 mm (±0.0004")						

* 2.5 kN - recommended maximum speed = 750 mm/min (30 in/min) above 2 kN
 ** 25 kN - recommended maximum speed = 500 mm/min (20 in/min) above 10 kN
 *** 50 kN - recommended maximum speed = 250 mm/min (10 in/min) above 25 kN

† measured on centre line of loadcell
 †† measured without loadcell or grips

Common Specifications

Operating temperature	10C - 35C (50F - 95F)
Humidity range	Normal industry and laboratory conditions
Sampling rate (Hz)	Selectable from 1 kHz, 500 Hz, 100 Hz, 50 Hz, 10 Hz
Compensation for system movement	Yes
Loadholding	Yes
Digital display of Load/Position/Speed	Yes
Output of test results to PC/Printer/Datalogger	Yes, via USB/Network Ports or Wireless Network
Communication with PLC/Digital Control Interface	RS232 via USB/Network converter in ASCII Format Yes, via programmable digital ports 6 Inputs + 6 Outputs

Options

Column gaiter	Available upon request
Safety guard	

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