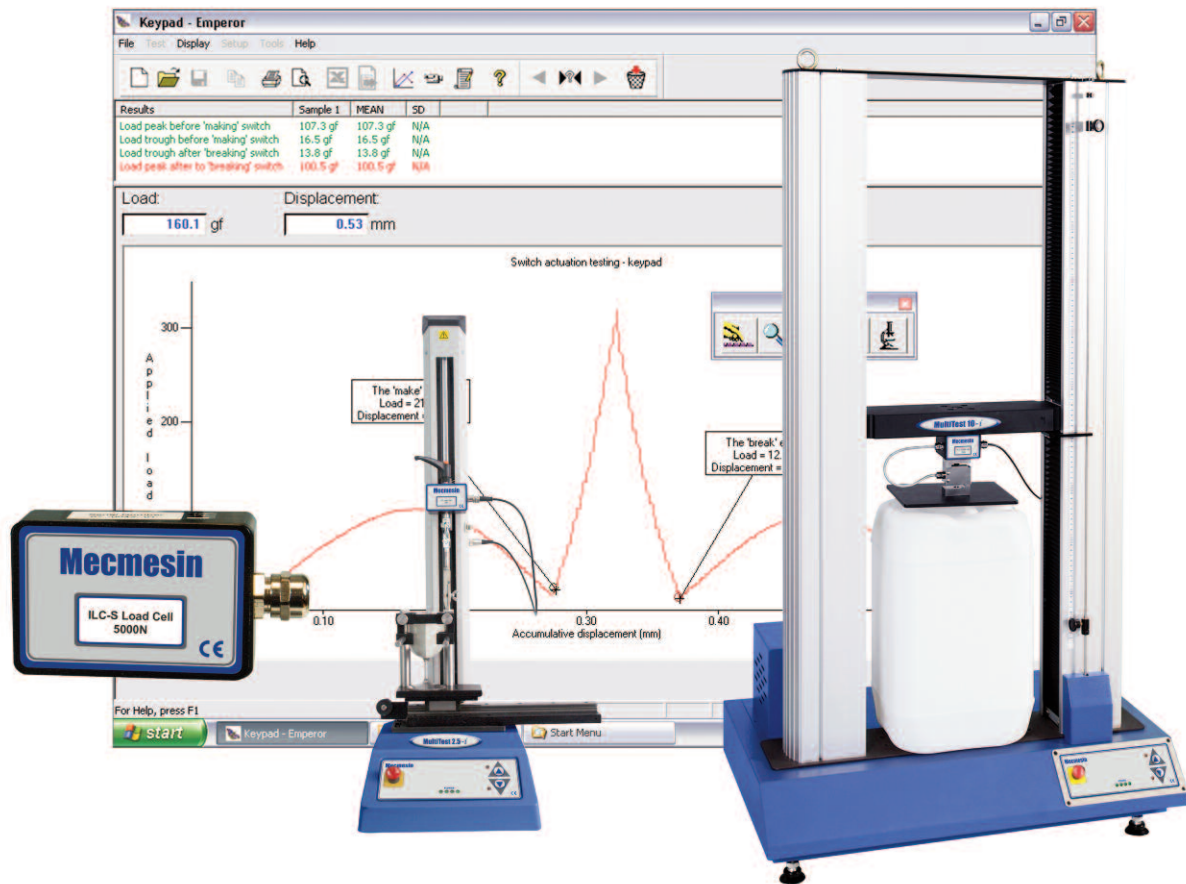


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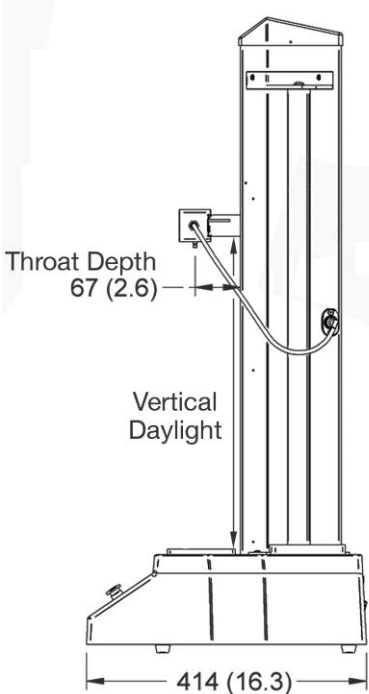
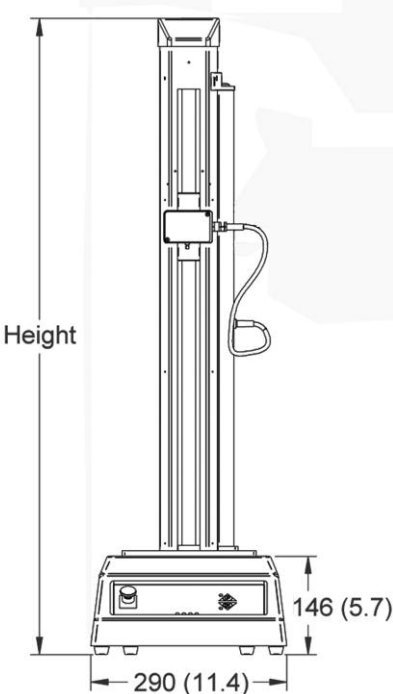
testing to perfection

MultiTest-i

Technical Datasheet



MultiTest 0.5-i, 1-i & 2.5-i



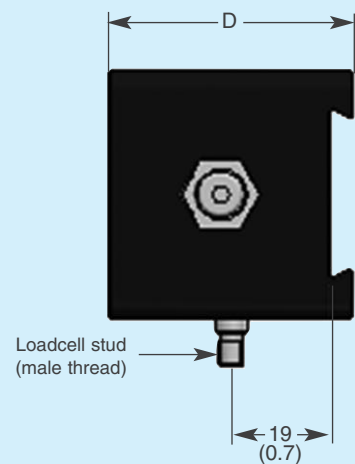
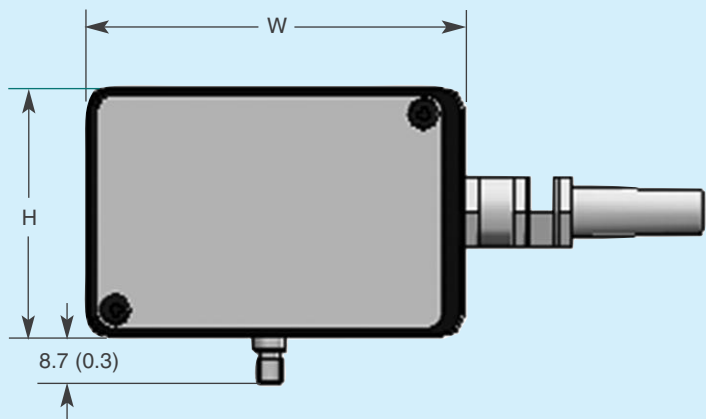
All measurements are in millimetres and (inches)

	Height	Width	Depth	Vertical Daylight*
MultiTest 0.5-i	1710mm (67.3)	290mm (11.4)	414mm (16.3)	1359mm (53.5)
MultiTest 1-i	1510mm (59.4)	290mm (11.4)	414mm (16.3)	1159mm (45.6)
MultiTest 2.5-i	941mm (37)	290mm (11.4)	414mm (16.3)	590mm (23.2)

* Measured without loadcell or grips

Intelligent Loadcell ILC

NOTE: Compatible with all test stands of equal or higher capacity than loadcell.
Requires adaptor 432-256 to fit to MultiTest 10-*i*, 25-*i* and 50-*i*.



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)
2N	879-009	#10-32UNF	15 (0.59)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
5N	879-010	#10-32UNF	15 (0.59)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
10N	879-001	#10-32UNF	15 (0.59)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
25N	879-002	#10-32UNF	15 (0.59)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
50N	879-003	#10-32UNF	15 (0.59)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
100N	879-004	#10-32UNF	15 (0.59)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
250N	879-005	#10-32UNF	15 (0.59)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)
500N	879-006	#10-32UNF	15 (0.59)	72 (2.8)	46.5 (1.8)	48 (1.9)	99 (3.9)

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

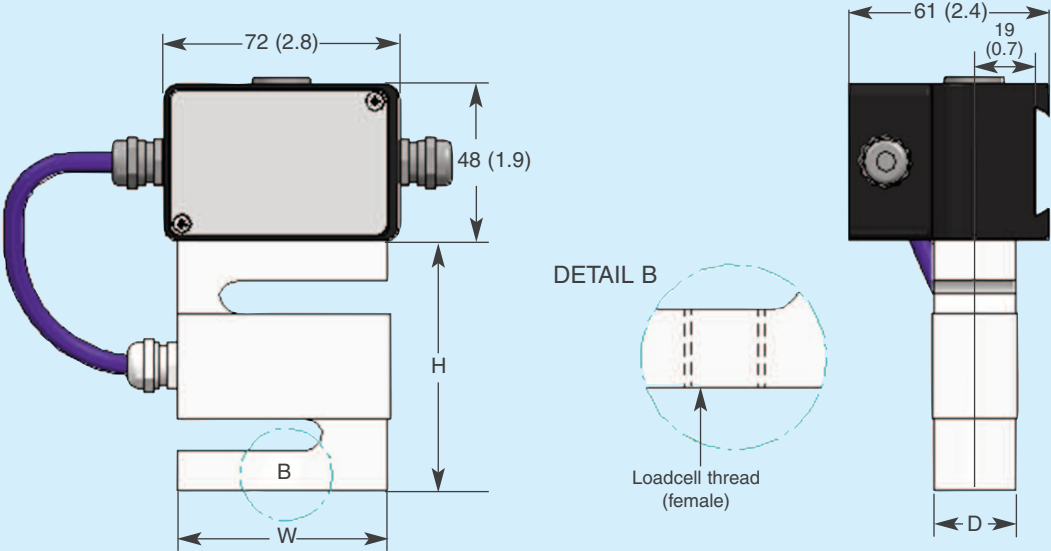
ILC Load Measurement Accuracy

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

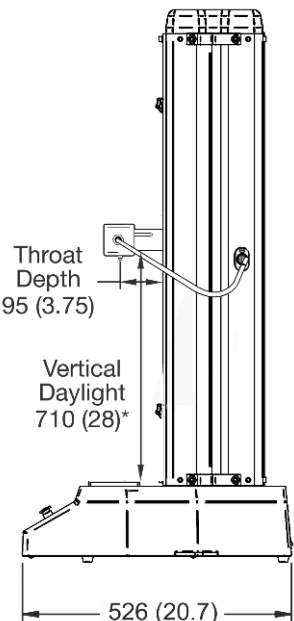
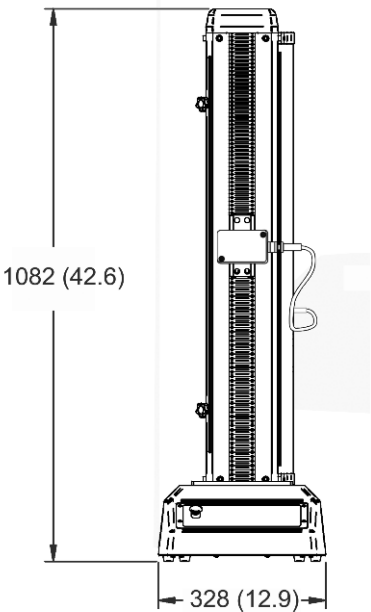


Intelligent Loadcell ILC-S

NOTE: Compatible with all test stands of equal or higher capacity than loadcell
Requires adaptor 432-256 to fit to MultiTest 10-i, 25-i and 50-i



ILC-S 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)
100N	879-064	M6 x 1	70 (2.7)	51 (2)	13 (0.5)	64 (2.5)	154 (6)
200N	879-065	M6 x 1	70 (2.7)	51 (2)	13 (0.5)	64 (2.5)	154 (6)
500N	879-066	M6 x 1	82 (3.2)	51 (2)	19 (0.7)	76 (2.9)	166 (6.5)
1000N	879-067	M10 x 1.5	82 (3.2)	51 (2)	19 (0.7)	76 (2.9)	166 (6.5)
2500N	879-008	M12 x 1.75	82 (3.2)	51 (2)	25 (0.98)	76 (2.9)	166 (6.5)
5000N	879-024	M12 x 1.75	82 (3.2)	51 (2)	25 (0.98)	76 (2.9)	166 (6.5)



ILC-S Load Measurement Accuracy

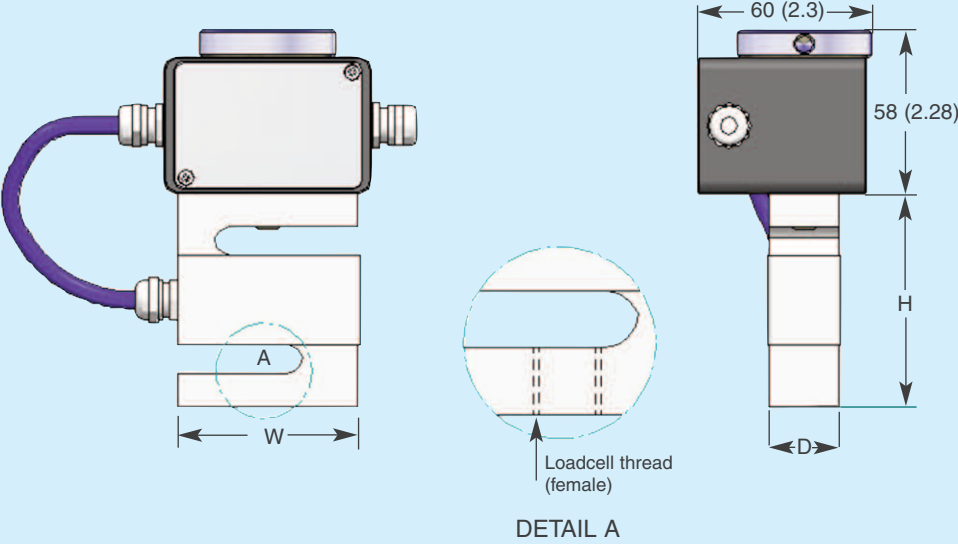
% of full scale(fs)	N
±0.1% fs	100N - 2500N
±0.2% fs	5000N

All measurements are in millimetres and (inches)
* measured without loadcell or grips

MultiTest 10-i & 25-i

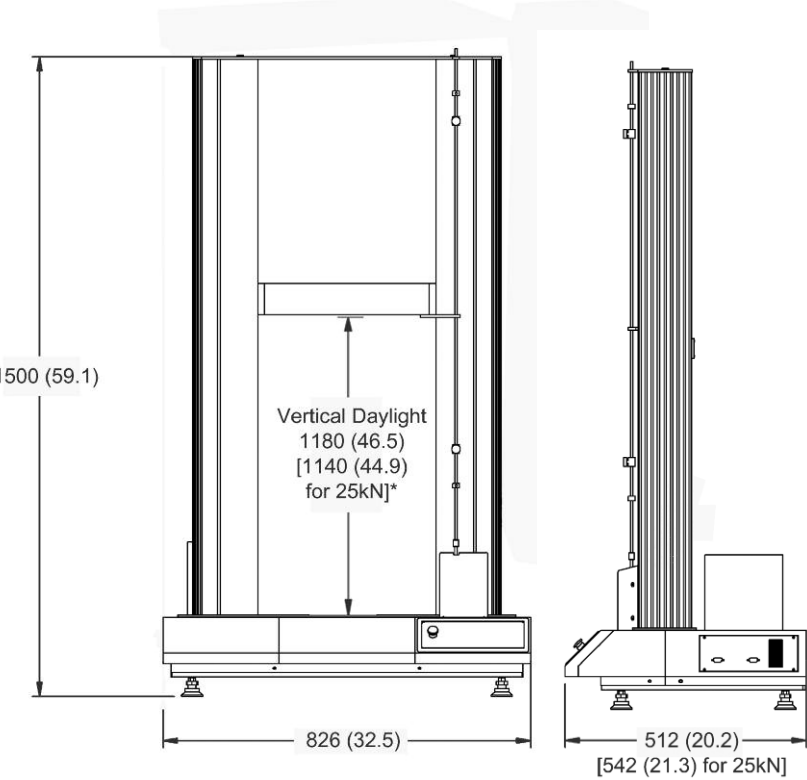
Intelligent Loadcell ILC-T

For use with twin-column stands only



ILC-T capacity	Part No.	Thread	Overall daylight reduction	Loadcell width (W)	Loadcell depth (D)	Loadcell height (H)
10kN	879-025	M12 x 1.75	134 (5.3)	51 (2)	25 (0.98)	76 (2.9)
25kN	879-026	M16 x 2	147 (5.8)	76 (2.9)	38 (1.5)	89 (3.5)

All measurements are in millimetres and (inches)



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

Rated capacity	Part No.
5kN	432-256



ILC-T Load Measurement Accuracy

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

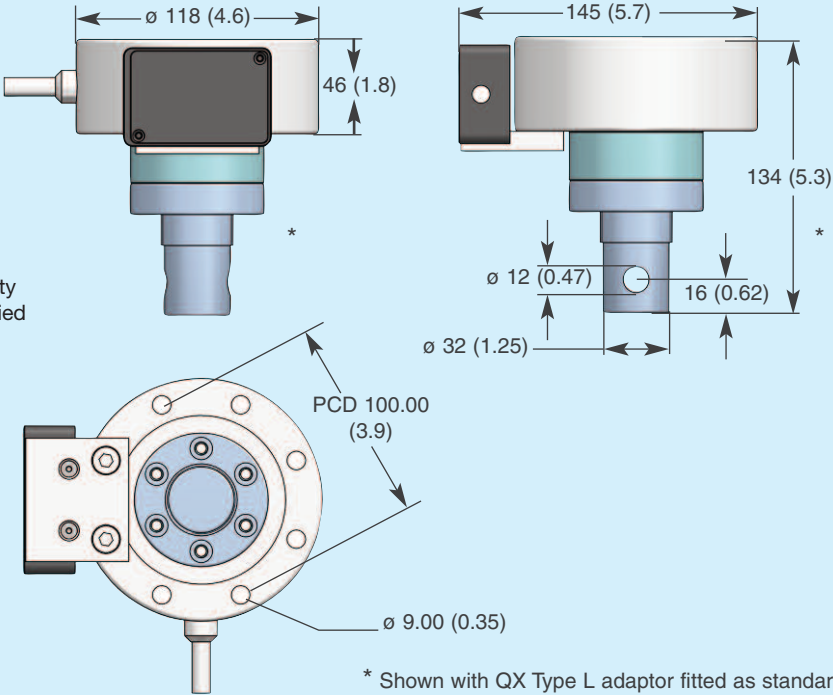
* measured without loadcell or grips

MultiTest 50-i



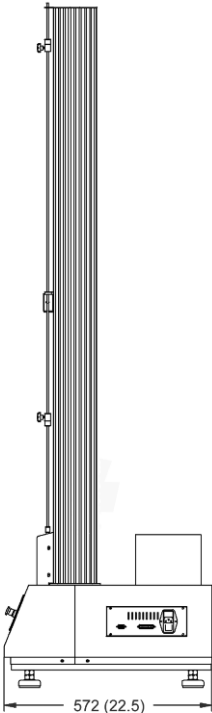
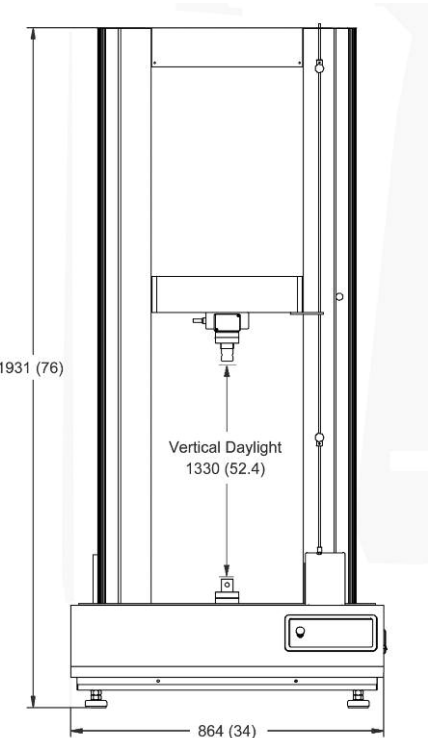
Intelligent Loadcell ILC-P

Shown with safety guard (not supplied as standard)



ILC-P capacity	Part No.	Thread	Overall daylight reduction	Loadcell Length (L)	Loadcell diameter (ø)	Loadcell height (H)
20kN	879-077	M18 x 1.5	134 (5.3)	145 (5.7)	118 (4.6)	134 (5.3)
50kN	879-076	M18 x 1.5	134 (5.3)	145 (5.7)	118 (4.6)	134 (5.3)

All measurements are in millimetres and (inches)



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

Twin-column Dovetail Adaptor

NOTE: For use with ILC and ILC-S
Supplied as standard with MultiTest 50-i

Rated capacity	Part No.
5kN	432-256



ILC-P Load Measurement Accuracy

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

Specifications

MultiTest- <i>i</i>		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		±0.1% of indicated speed						
Distance between columns		-	-	-	-	400mm (15.7")	400mm (15.7")	420mm (16.5")
Throat depth****		67mm (2.6")	67mm (2.6")	67mm (2.6")	95mm (3.7")	-	-	-
Vertical daylight*****		1359mm (53.5")	1159mm (45.6")	590mm (23.2")	710mm (28.0")	1180mm (46.5")	1140mm (44.9")	1330mm (52.4")
Height		1710mm (67.3")	1510mm (59.4")	941mm (37")	1082mm (42.6")	1500mm (59.1")	1500mm (59.1")	1931mm (76")
Width		290mm (11.4")	290mm (11.4")	290mm (11.4")	328mm (12.9")	826mm (32.5")	826mm (32.5")	864mm (34")
Depth		414mm (16.3")	414mm (16.3")	414mm (16.3")	526mm (20.7")	512mm (20.2")	542mm (21.3")	572mm (22.5")
Weight		38kg (84lbs)	36kg (79lbs)	22kg (49lbs)	38kg (84lbs)	110kg (243lbs)	140kg (309lbs)	285kg (628lbs)
Maximum power requirement		120 watts	200 watts	250 watts	150 watts	400 watts	450 watts	450 watts
Voltage		230V AC 50Hz or 110V AC 60Hz						
LOAD MEASUREMENT								
Available loadcell ranges	N	2 to 50000 (14 models)						
	kgf	0.2 to 5000 (14 models)						
	lbf	0.45 to 11000 (14 models)						
Loadcell measurement accuracy		±0.1% of full scale for loadcells from 2 to 2500N ±0.2% of full scale for loadcells from 5000 to 50000N						
Loadcell measurement resolution		1:6500						
DISPLACEMENT								
Crosshead travel*****		1200mm (47.3")	1000mm (39.4")	500mm (19.7")	590mm (23.2")	960mm (37.8")	950mm (37.4")	1100mm (43.3")
Position control resolution		±0.01mm (±0.0004")						
SOFTWARE								
Digital display of load/length/speed		Yes						
Communication with test stand		Via RS232 port or USB port (converter supplied)						
Computer requirements		100Mb available HD, CD-ROM plus available RS232 port/USB port						
Operating system (OS)		Compatible OS installed as listed; Windows® 2000, XP & 7						
Sampling rate		Selectable from 1000Hz, 500Hz, 100Hz, 50Hz and 10Hz						
Secondary input		Event Input (switch), Digital control I/O Ports						
Data output		LPT1 (Printer port), RS232 Port (direct or via USB/Network converter in ASCII format) ASCII file (Export to spreadsheet, SPC package etc...)						

* 2.5kN - above 2kN, the recommended maximum speed is 750mm/min (30in/min)

** 25kN - above 10kN, the recommended maximum speed is 500mm/min (20in/min)

*** 50kN - above 25kN, the recommended maximum speed is 250mm/min (10in/min)

**** Measured on centre line of loadcell

***** Measured without loadcell or grips

Common Specifications		Options
Operating temperature	10 - 35°C (50 - 95°F)	Column gaiter
Humidity range	Normal industry and laboratory conditions	Safety guard
Compensation for system movement	Yes	
Loadholding	Yes	
Graphical representation	Yes	
Output of test results to PC/Printer/Datalogger	Yes - includes auto-export to Microsoft™ Excel and via USB/Network Ports or Wireless Network	
	RS232 via USB/Network converter in ASCII format	
Communication with PLC/Digital Control Interface	Yes - via programmable digital ports	
	6 Inputs + 6 Outputs	

available upon request

Mecmesin reserves the right to alter equipment specifications without prior notice.

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