

Engineered For Performance

There's a Series F test frame for every need and budget. Select from a wide range of force capacities, heights, and form factors.



F105 | F305 | F505

F755 | F1505

F755S | F1505S

F505H

	F105	F305	F505	F505H	F755	F755S	F1505	F1505S
Force Capacity:	100 lbF [0.5 kN]	300 lbF [1.5 kN]	500 lbF [2.2 kN]	500 lbF [2.2 kN]	750 lbF [3.4 kN]	750 lbF [3.4 kN]	1,500 lbF [6.7 kN]	1,500 lbF [6.7 kN]
Travel Distance:	18.0 in [457 mm]	18.0 in [457 mm]	18.0 in [457 mm]	18.0 in [457 mm]	32.0 in [813 mm]	14.2 in [360 mm]	32.0 in [813 mm]	14.2 in [360 mm]

SPECIFICATIONS

	F105	F305	F505	F505H	F755	F755S	F1505	F1505S
Load capacity*:	100 lbF [0.5 kN]	300 lbF [1.5 kN]	500 lbF [2.2 kN]		750 lbF [3.4 kN]		1,500 lbF [6.7 kN]	
Maximum travel:	18.0 in [457 mm]				32.0 in [813 mm]	14.2 in [360 mm]	32.0 in [813 mm]	14.2 in [360 mm]
Speed range:	0.02 - 45 in/min [0.5 - 1,100 mm/min]				0.001 - 60 in/min [0.02 - 1,525 mm/min]		0.001 - 70 in/min [0.02 - 1,800 mm/min]	
Load accuracy (% of full scale):	Test frame: $\pm 0.1\%$ Force sensor: Series F505: $\pm 0.1\%$ Series R07: $\pm 0.15\%$							
Load sampling rate:	20,000 Hz							
Data acquisition rate:	1,000 Hz							
Speed accuracy:	$\pm 0.2\%$ of setting, virtually no variation with load							
Distance accuracy:	± 0.002 in [0.05 mm], factory-compensated at up to full load							
Distance resolution:	0.0005 in / 0.01 mm							
Limit switch repeatability:	± 0.001 in / 0.03 mm							
Power:	Universal input 100-240 VAC, 50/60 Hz, 300W				Universal input 100-240 VAC, 50/60 Hz, 120W		Universal input 100-240 VAC, 50/60 Hz, 450W	
Fuse type:	1.2 A, 250V, 3AG, SLO BLO				4A, 3AG, SLO BLO			
Weight:	60 lb [27 kg]		70 lb [32 kg]		184 lb [83 kg]	149 lb [68 kg]	197 lb [89 kg]	157 lb [71 kg]
Shipping weight:	75 lb [34 kg]		85 lb [39 kg]		235 lb [107 kg]	195 lb [88 kg]	247 lb [112 kg]	205 lb [93 kg]
Environmental conditions:	<ul style="list-style-type: none"> ▪ Indoor use only ▪ Up to 6,500 ft [2,000 m] above sea level ▪ Temperature range: 40 - 95°F [5 - 35°C] ▪ Humidity range: up to 80% relative humidity at 31°C, decreasing linearly to 50% relative humidity at 40°C, non condensing ▪ Mains supply voltage fluctuations up to $\pm 10\%$ of the nominal voltage ▪ Transient overvoltages up to the levels of Overvoltage Category II ▪ Use in environments up to Pollution Degree 2 							
Conformance:	CE							
Warranty:	3 years [see individual statement for further details]							

- * Load capacity is reduced at higher speeds in the following models:
- F305: limited to 200 lbF [1 kN] above 24 in [610 mm]/min
 - F505 / F505H: limited to 300 lbF [1.5 kN] above 24 in [610 mm]/min
 - F755 / F755S: limited to 500 lbF [2.3 kN] above 35 in [900 mm]/min
 - F1505 / F1505S: limited to 1,000 lbF [4.5 kN] above 60 in [1,525 mm]/min

Complete Systems - Test Frame with Pre-configured Tablet Control Panel

Model No.	Description
F105-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, 100 lbF / 0.5 kN, 110V*
F305-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, 300 lbF / 1.5 kN, 110V*
F505-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, 500 lbF / 2.2 kN, 110V*
F505H-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, horizontal, 500 lbF / 2.2 kN, 110V*
F755-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, 750 lbF / 3.4 kN, 110V*
F755S-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, short, 750 lbF / 3.4 kN, 110V*
F1505-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, 1,500 lbF / 6.7 kN, 110V*
F1505S-IMT	Test frame with IntelliMESUR® pre-loaded tablet control panel, vertical, short, 1,500 lbF / 6.7 kN, 110V*

Select a complete system or frame + software
Select a force sensor (required - see next page)

Test Frame + Standalone Software (for customer installation on a Windows device)

Model No.	Description
F105-IM	Test frame with IntelliMESUR® software, single license, vertical, 100 lbF / 0.5 kN, 110V*
F305-IM	Test frame with IntelliMESUR® software, single license, vertical, 300 lbF / 1.5 kN, 110V*
F505-IM	Test frame with IntelliMESUR® software, single license, vertical, 500 lbF / 2.2 kN, 110V*
F505H-IM	Test frame with IntelliMESUR® software, single license, horizontal, 500 lbF / 2.2 kN, 110V*
F755-IM	Test frame with IntelliMESUR® software, single license, vertical, 750 lbF / 3.4 kN, 110V*
F755S-IM	Test frame with IntelliMESUR® software, single license, vertical, short, 750 lbF / 3.4 kN, 110V*
F1505-IM	Test frame with IntelliMESUR® software, single license, vertical, 1,500 lbF / 6.7 kN, 110V*
F1505S-IM	Test frame with IntelliMESUR® software, single license, vertical, short, 1,500 lbF / 6.7 kN, 110V*

* All test frame models contain a universal power supply (80 - 240V) and power cord with US prong style. Add suffix 'E' for European prong, 'U' for UK prong, or 'A' for Australian prong. Ex: F505-IMTE.