

Series ESM / EasyMESUR® Comparison Chart

✓ = included ○ = optional ✗ = not available



Feature / Specification	Series ESM	Series F + EasyMESUR®
Configuration	Series ESM test stand, test stand control panel, force gauge, MESUR®gauge PC-based data collection software, cables	Series F test frame, integrated touchscreen control panel, integrated force sensor
Controlled by	- Motion control: control panel - Force limits & pass/fail: force gauge - Data collection: MESUR®gauge	Set up, run, and analyze data via the integrated EasyMESUR® control panel
Load capacities	300, 750, 1,500 lbf [1.5, 3.4, 6.7 kN]	100, 300, 500, 750, 1,500 lbf [0.5, 1.3, 2.2, 3.4, 6.7 kN]
Test creation wizards	✗	✓
Distance measurement, distance limits, preload	○	○
Auto-return	○	✓
Cycling	○	○
Break detection	○	○
Load holding	○	○
FollowMe® crosshead positioning	○	○
Extended speed ranges	○	○
Pass / fail limits	✓ (via force gauge or MESUR®gauge)	✓
Graphing and statistics	○ (via MESUR®gauge)	○
Report creator	○ (via MESUR®gauge)	○
PC control via third-party application	○	○
Overload protection	○	✓
Coefficient of friction (COF) measurement	○ (via M5-2-COF gauge)	✗ (available with IntelliMESUR)
Password protection	For force gauge and test stand, not available for MESUR®gauge	Complete protection
Distance resolution	0.001 in [0.02 mm]	
System deflection compensation	✗	✓
Position accuracy	±0.002 in. per 10 in. (±0.05 mm per 250 mm)*	±0.006 in. [0.15 mm], at any load or position
Peak load capture rate	7,000 Hz	5,000 Hz
Data acquisition rate	50 Hz	100 Hz
Throat depth	3 in [76 mm]	4 in [101 mm]
Field upgradeable firmware	✗	✓

* Because load cell deflection and system deflection are present and not automatically compensated for, Series ESM is recommended for applications requiring at least 0.2 in [5 mm] of travel distance.