

# Series ESM / EasyMESUR® Comparison Chart

✓ = included ○ = optional ✗ = not available



Feature / Specification	Series ESM	Series F + EasyMESUR®
<b>Configuration</b>	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
<b>Controlled by</b>	- 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
<b>Load capacities</b>	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]
<b>Test creation wizards</b>	✗	✓
<b>Distance measurement, distance limits, preload</b>	○	○
<b>Auto-return</b>	○	✓
<b>Cycling</b>	○	○
<b>Break detection</b>	○	○
<b>Load holding</b>	○	○
<b>FollowMe® crosshead positioning</b>	○	○
<b>Extended speed ranges</b>	○	○
<b>Pass / fail limits</b>	✓ (via force gauge or MESUR®gauge)	✓
<b>Graphing and statistics</b>	○ (via MESUR®gauge)	○
<b>Report creator</b>	○ (via MESUR®gauge)	○
<b>PC control via third-party application</b>	○	○
<b>Overload protection</b>	○	✓
<b>Coefficient of friction (COF) measurement</b>	○ (via M5-2-COF gauge)	✗ (available with IntelliMESUR)
<b>Password protection</b>	For force gauge and test stand, not available for MESUR®gauge	Complete protection
<b>Distance resolution</b>	0.001 in [0.02 mm]	
<b>System deflection compensation</b>	✗	✓
<b>Position accuracy</b>	±0.002 in. per 10 in. (±0.05 mm per 250 mm)*	±0.006 in. [0.15 mm], at any load or position
<b>Peak load capture rate</b>	7,000 Hz	5,000 Hz
<b>Data acquisition rate</b>	50 Hz	100 Hz
<b>Throat depth</b>	3 in [76 mm]	4 in [101 mm]
<b>Field upgradeable firmware</b>	✗	✓

\* 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.