



<b>Series F Advanced Test Frame + IntelliMESUR® Software</b>	<b>Series ESM Test Stand + Force Gauge / Indicator with Sensor + MESUR®gauge Software</b>
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Configuration	Test frame + force sensor + integrated control panel or PC license	Test stand + test stand control panel + force measuring instrument + PC
Peak load sampling rate	20,000 Hz	Up to 14,000 Hz, with Series 7 force gauge / indicator
Data acquisition rate	1,000 Hz	50 Hz
Distance measurement	Included	Optional
Distance accuracy	±0.002 in [0.05 mm], factory-compensated at up to full load	±0.002 in. per 10 in. (±0.05 mm per 250 mm), subject to uncompensated system deflection
Distance resolution	0.0005 in [0.01 mm]	0.001 in [0.02 mm]
Height mode	✓	✗
Deflection compensation utility for grips and fixtures	✓	✗
Limit switches	✓, with ruler	✓
Overload protection	Included	Optional
Auto return / cycling	Included	Optional
Max number of cycles	Unlimited	99,999
Record results for each cycle	✓	✗
Break detection	Included	Optional
Load holding	Included	Optional
Preload	Included	Optional
FollowMe® force-based positioning	Included	Optional
Multi-step testing	✓	✗
Single-step testing	✓	✓



**Series F Advanced Test Frame**  
+ IntelliMESUR® Software

**Series ESM Test Stand +**  
Force Gauge / Indicator with Sensor +  
MESUR®gauge Software

<b>Batch mode (set up no. of runs)</b>	✓	✗
<b>Graph force vs. travel or force vs. time</b>	✓	✓
<b>Overlay previous runs on graph</b>	✓, up to 10	✗
<b>Pass / fail limits</b>	✓	✓, via force gauge / indicator
<b>Operator prompting</b>	✓	✗
<b>Available results</b>	<ul style="list-style-type: none"> <li>▪ Final load</li> <li>▪ Maximum load</li> <li>▪ Minimum load</li> <li>▪ Load at maximum distance</li> <li>▪ Load at minimum distance</li> <li>▪ Load at break</li> <li>▪ Average load</li> <li>▪ Delta load</li> <li>▪ Maximum distance</li> <li>▪ Final distance</li> <li>▪ Minimum distance</li> <li>▪ Free height</li> <li>▪ Final height</li> <li>▪ Distance at maximum load</li> <li>▪ Distance at minimum load</li> <li>▪ Distance at break</li> <li>▪ Delta distance</li> <li>▪ Area under the curve</li> </ul>	<ul style="list-style-type: none"> <li>▪ Maximum load</li> <li>▪ Minimum load</li> <li>▪ Average load (via force gauge / indicator)</li> <li>▪ Area under the curve</li> </ul>
<b>Available statistics for results</b>	<ul style="list-style-type: none"> <li>▪ Maximum</li> <li>▪ Minimum</li> <li>▪ Mean</li> <li>▪ Standard Deviation</li> <li>▪ Variance</li> </ul>	<ul style="list-style-type: none"> <li>▪ Maximum</li> <li>▪ Minimum</li> <li>▪ Mean</li> <li>▪ Standard Deviation</li> <li>▪ Variance</li> </ul>
<b>Report creator</b>	✓	✓
<b>Field-upgradeable firmware</b>	✓	✗