



Series F Advanced Test Frame + IntelliMESUR® Software	Series ESM Test Stand + Force Gauge / Indicator with Sensor + MESUR®gauge Software
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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	✓	✓



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