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Data Sheet

Motorized Force Test Stand ESM

The ESM is a versatile and economical motorized test stand for most compression and tensile testing applications up to 200 IbF. It can accept a wide variety of sample shapes and sizes and can be configured in many positions due to modular design. Speed is adjustable and remote control operation provides added safety during testing. Other features include a manual fine adjustment knob and a stepper motor that prevents speed variation with load, making testing more precise and repeatable. Use any Mark-10 force gauge and force gripping fixtures to create a complete testing solution.

Specifications

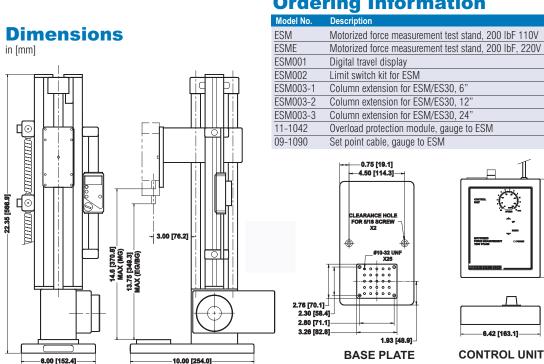
Load capacity:	200 lbF [1,000 N]
Maximum travel:	pprox13 in [330 mm], depending on gauge, gripping fixtures, and sample size
Speed range:	0.5 - 13 in/min [13 - 300 mm/min]
Speed setting accuracy:	\pm 5%, \pm 0% variation with load
Weight (w/o optional equipment):	
Test stand:	20.0 lb [9.1 kg]
Control unit:	2.7 lb [1.2 kg]
Power:	Universal input 80-240 VAC, 50/60 Hz
Included accessories:	Extension rod, small hook, medium hook, #10-32 coupler, compresion plate, force
	gauge mounting hardware, tool kit
Warranty:	3 years (see individual statement for further details)

Optional Equipment

Digital travel display ESM001	6 in [150 mm] travel, 0.0005 in [0.01 mm] resolution, 0.001 in [0.03 mm] accuracy, SPC output for data collection.
Limit switch kit	Set of adjustable upper and lower solid state limit switches.
ESM002	
Overload protection module	Protects the force gauge against overloads during motorized tests, adjustable from 10
11-1042	- 150% of gauge's full capacity. Compatible with force gauges equipped with analog
	output.
Set point cable	Stops test stand travel at programmable high and low set points for tension
09-1090	and compression forces. Compatible with force gauges with set point outputs.
Column extensions	Available in 6 in, 12 in, 24 in, and custom lengths



The ESM is shown in a typical tensile testing application, with Series BG digital force gauge, digital travel display, limit switch kit, and wedge grips







» Digital travel display





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