

SCRATCH 5.5 SPECIFICATIONS

PERFORMANCE CAPACITIES

FEATURE	RANGE	ACCURACY & CAPACITY
Velocity	1 - 400mm/s	0.25mm/s
Normal Load	1-600N	0.05% accuracy, 1000 sps
Tangential Load	1-225N	0.25% accuracy, 1000 sps
Lateral Displacement	200mm	0.25mm
Depth	50mm	5 micron accuracy

WORKING ENVELOPE

ORIENTATION	RANGE	NOTE
Lateral	300mm	200mm working space
Vertical	50mm	
Work Surface	150mm x 300mm	¼-20 mounting holes on 1" grid
Lateral Displacement	300mm	0.25mm
Depth	+/-2.5mm	12.5µm

STANDARDS & TEST CAPABILITIES

STANDARD OR TEST	NOTES
ASTM D7027-05	Meets and exceeds
ISO 19252:2008	Meets and exceeds both formats
ISO 19252:2013	Meets and exceeds both formats
Ford 5 Finger	Multiple constant-load
Erichsen Crosshatch	Manual turntable accessory available
ASTM D3363	Replication by constant-load analysis
Toyota TSL3618G 4.9 & Others	Per ASTM
Scratch Coefficient of Friction	Per ASTM and ISO
Reciprocation	Up to 1Hz
Puncture	Thin film non-conductive puncture detection
Indentation	Up to 200N @1mm/s
Automotive Mar Analysis	

OUTPUT

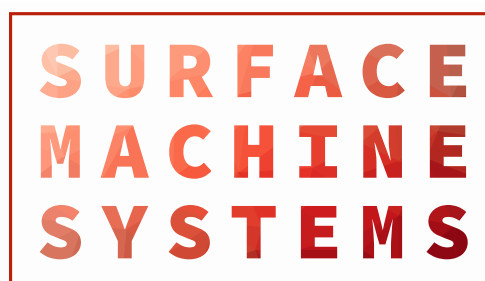
- CSV format, all analog sensors + scratch coefficient of friction

STYLI CHUCK

- ASTM/ISO standard for 0.095" shank

SOFTWARE

- Real-time diagnostics
- Heads-Up Data Display with temporal comparisons
- Export to SVA Software



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