



# M4040A-PA140 SYSTEM DATASHEET



SYSTEM PERFORMANCE	METRIC	IMPERIAL
Sine Force Peak kN (lbf)	39.20	8,812
Random Force rms kN (lbf)	39.20	8,812
Shock Force (6ms) kN (lbf)	78.40	17,625
Useful Frequency Range Hz	5 - 2200	5 - 2200
Continuous Displacement mm (in)	51	2.0
Shock Displacement mm (in)	51	2.0
Max Velocity m/s (in/s)	2	78.7
Max Acceleration Sine Peak m/s <sup>2</sup> (g)	980	100

Air-cooled system ideally suited to test small-sized electronic parts, connectors, hand-held units and small mechanical assemblies.

- Continuous displacement 51 mm (2.0 in)
- Useable frequency range 5 - 2200 Hz
- Max static payload 500 kg (1102 lb)
- Air-cooled amplifier efficiency > 90%
- Rugged isolated trunnion

M4040A SHAKER	METRIC	IMPERIAL
Armature Diameter mm (in)	400	15.7
Armature Material	Al	Al
Effective Armature Mass kg (lb)	40	88
Armature Insert Pattern PCD mm (in)	4-100/8-200/8-315	4-4/8-8/8-12.5
Armature Insert Threads	M10	3/8-16UNC
First Resonant Frequency (bare table) ±5% Hz	2,060	2,060
Max Static Payload kg (lb)	500	1,102
Natural Frequency Thrust Axis Hz	< 5	< 5
Stray Flux Density gauss	< 10	< 10
Shaker Weight Uncrated kg (lb)	2,150	4,740
Dimensions Uncrated (W x D x H) mm (in)	1190 x 889 x 1130	46.9 x 35.0 x 44.5

### SLIP TABLES

Mono-base slip tables in a wide-range of sizes and configurations for maximum over-turning moment and cross-axial restraint

PA140 POWER AMPLIFIER	METRIC	IMPERIAL
Number of Sub-modules Supplied	8	8
Rated Power Output kVA	40	40
Rated Output Voltage V rms	100	100
Rated Output Current A rms	360	360
Number of Cabinets	1	1
System Required Power kVA	45	45
Amplifier Weight Uncrated kg (lb)	450	992
Dimensions Uncrated (W x D x H) mm (in)	580 x 850 x 1840	22.8 x 33.5 x 72.4

### OPTIONS & ACCESSORIES

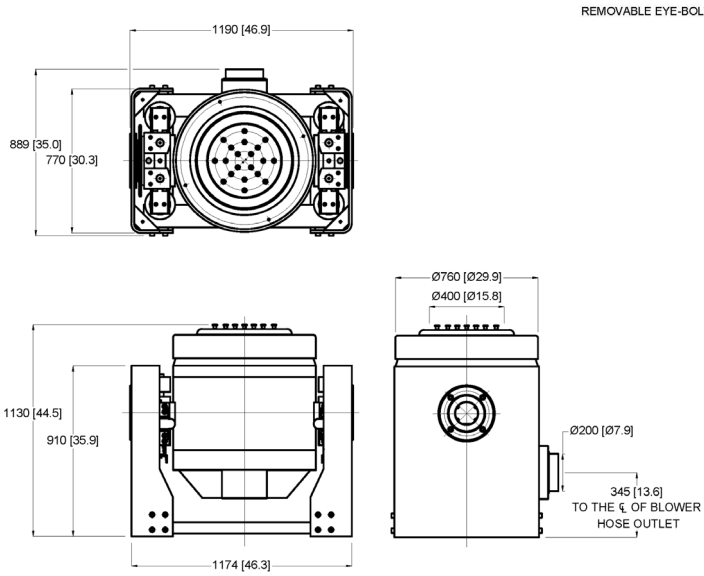
Sentek Dynamics offers a wide selection of options and accessories for unique applications and complete turn-key systems.

- Custom armature and slip table insert patterns and threads available
- Air-isolation feet, pads and mounts to eliminate need for seismic floor
- Thermal barrier for use with environmental test chambers
- Remote control panel for remote operation

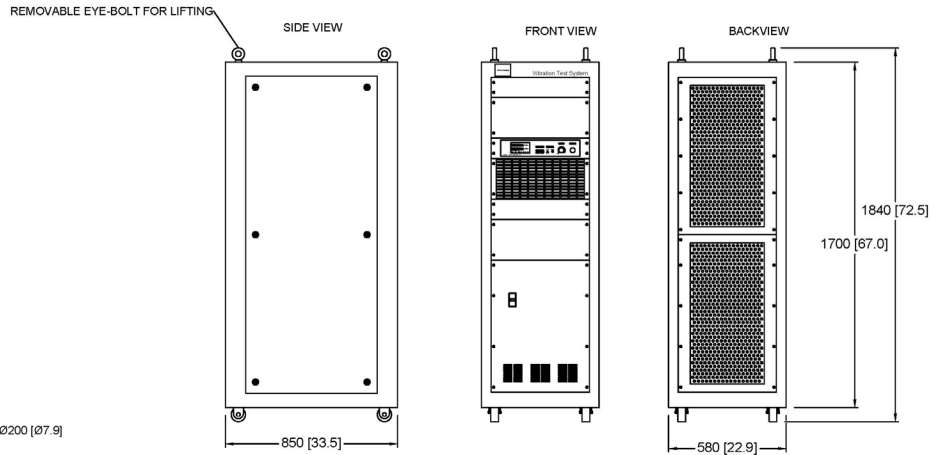
BU-3 BLOWER	METRIC	IMPERIAL
Standard Air Hose Length m (ft)	5	16.4
Hose Diameter mm (in)	200	7.9
Blower Unit Weight Uncrated kg (lb)	260	573
Dimensions (W x D x H) mm (in)	800 x 1100 x 1900	31.5 x 43.3 x 74.8



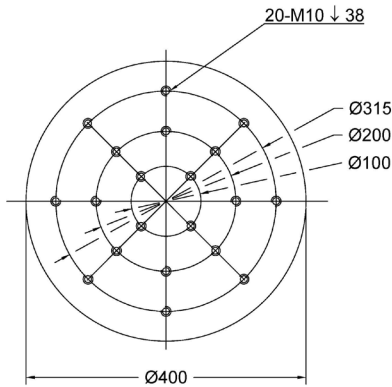
**SHAKER MODEL M4040A**



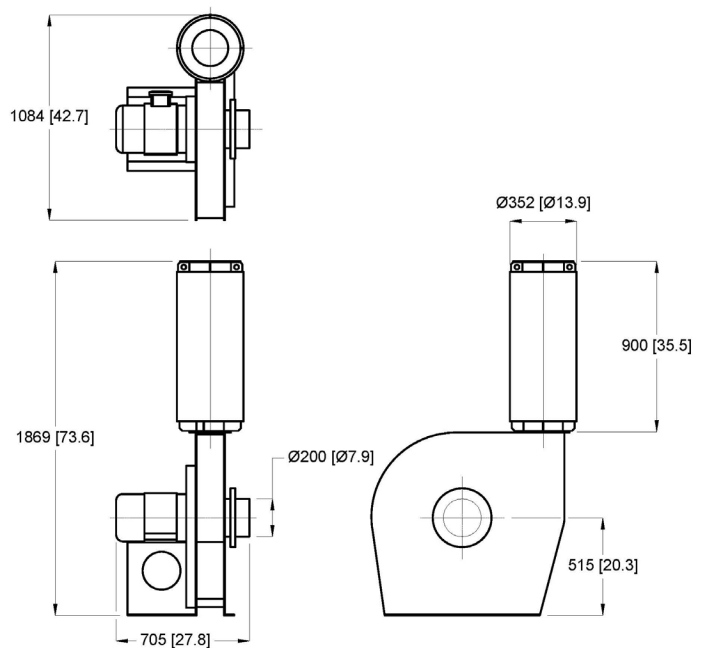
**POWER AMPLIFIER MODEL PA140**



**ARMATURE INSERT PATTERN**



**BLOWER UNIT MODEL BU-3**



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