



T4044A-PA150 SYSTEM DATASHEET



SYSTEM PERFORMANCE	METRIC	IMPERIAL
Sine Force Peak kN (lbf)	39.20	8,800
Random Force rms kN (lbf)	39.20	8,800
Shock Force (6ms) kN (lbf)	78.40	17,600
Useful Frequency Range Hz	5 - 2200	5 - 2200
Continuous Displacement mm (in)	100	3.9
Shock Displacement mm (in)	100	3.9
Max Velocity m/s (in/s)	2.4	94.5
Max Acceleration Sine Peak m/s ² (g)	784	79.9

Air-cooled long-stroke system designed for demanding test requirements normally performed by hydraulic shakers. Accommodates a wide-variety of test requirements with attendant time and cost savings. Ideally suited to transportation /package testing.

- Automatic static and dynamic armature centering
- Motorized gearbox for shaker rotation standard
- Useable frequency range 5 - 2200 Hz
- Max static payload 500 kg (1100 lb)
- Air-cooled amplifier efficiency > 90%
- Rugged air-isolated trunnion

T4044A SHAKER	METRIC	IMPERIAL
Armature Diameter mm (in)	445	17.5
Armature Material	Al	Al
Effective Armature Mass kg (lb)	50	110
Armature Insert Pattern PCD mm (in) plus 1 in center	8-160/8-280/8-400	8-8.0/8-12.0/8-16.0
Armature Insert Threads	M12	3/8-16UNC
First Resonant Frequency (bare table) ±5% Hz	1,810	1,810
Max Static Payload kg (lb)	500	1,100
Natural Frequency Thrust Axis Hz	< 5	< 5
Stray Flux Density gauss	< 10	< 10

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

PA150 POWER AMPLIFIER	METRIC	IMPERIAL
Number of Sub-modules Supplied	9	9
Rated Power Output kVA	50	50
Rated Output Voltage V rms	100	100
Rated Output Current A rms	500	500
Number of Cabinets	1	1
System Required Power kVA	87	87
Amplifier Weight Uncrated kg (lb)	900	1980
Dimensions Uncrated (W x D x H) mm (in)	580 x 850 x 1800	22.9 x 33.5 x 70.9

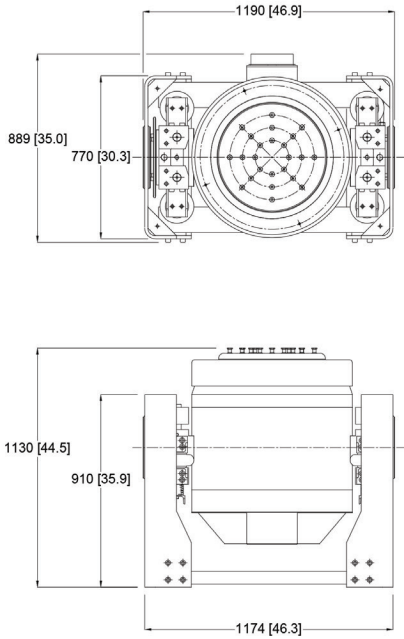
OPTIONS & ACCESSORIES
Sentek Dynamics offers a wide selection of options and accessories for unique applications and complete turn-key systems.

- 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

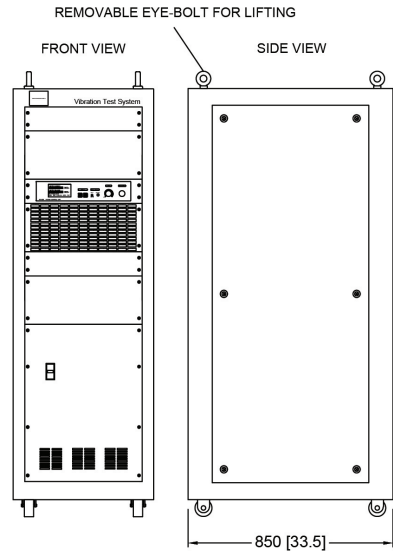
BU-4 BLOWER	METRIC	IMPERIAL
Standard Air Hose Length m (ft)	5	16.4
Hose Diameter mm (in)	250	9.8
Blower Unit Weight Uncrated kg (lb)	320	704
Dimensions (W x D x H) mm (in)	1300 x 1200 x 1960	51.2 x 47.3 x 77.2



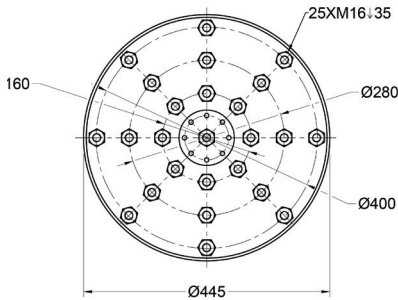
SHAKER MODEL T4044A



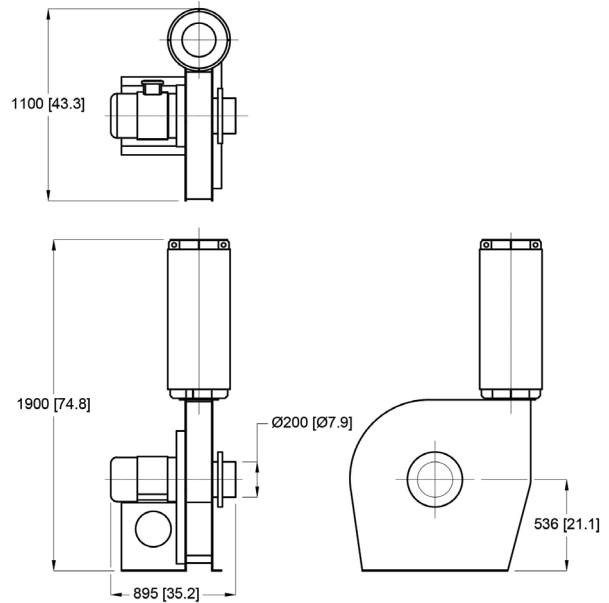
POWER AMPLIFIER MODEL PA150



ARMATURE INSERT PATTERN



BLOWER UNIT MODEL BU-4



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