

The GW-V617 air-cooled shaker is the perfect fit for intermediate force level testing applications that require a smaller sized shaker system. The GW-V617 shaker has an armature size of 6.9 inches (174.5 mm) and a peak to peak displacement of 2 inches (51 mm). The shaker is available in two force ratings, depending on power amplifier configuration.

### Standard Features

- Peak sine force: up to 1500 lbf (6.67 kN)
- Random force rms: up to 1025 lbf (4.6 kN)
- Velocity peak: 60 in/sec. (1.5 m/sec)
- Peak to peak displacement: 2.0 in (51 mm)



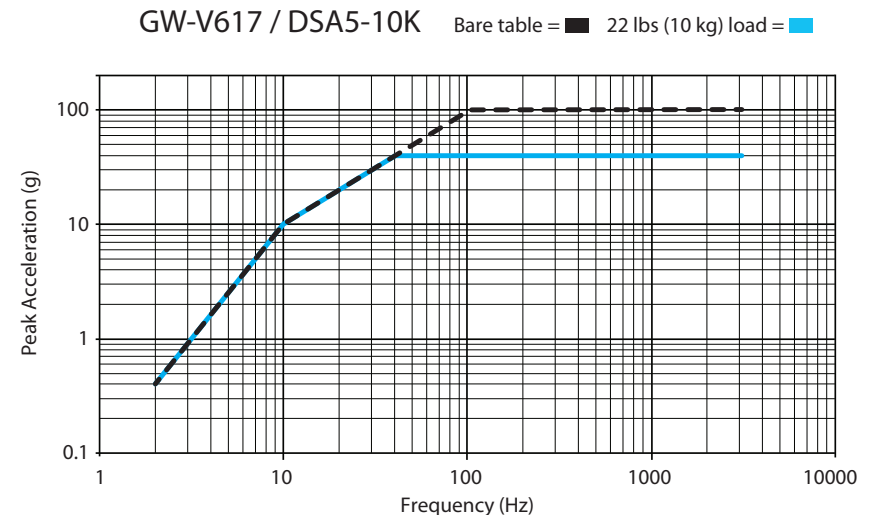
### Options

- Air or rubber isolated mounts for vertical testing only
- Isolated trunnions for vertical and horizontal testing
- Air glides
- Motorized guidance
- V-groove wheels and guidance rails
- Monobase systems to provide three axis testing with slip tables
- Head expanders and fixtures
- Thermal barriers
- Acoustic enclosures
- Weatherproof enclosures for cooling blowers
- Economy field supply

### Typical Applications

- Electronic components
- Avionics
- Automotive

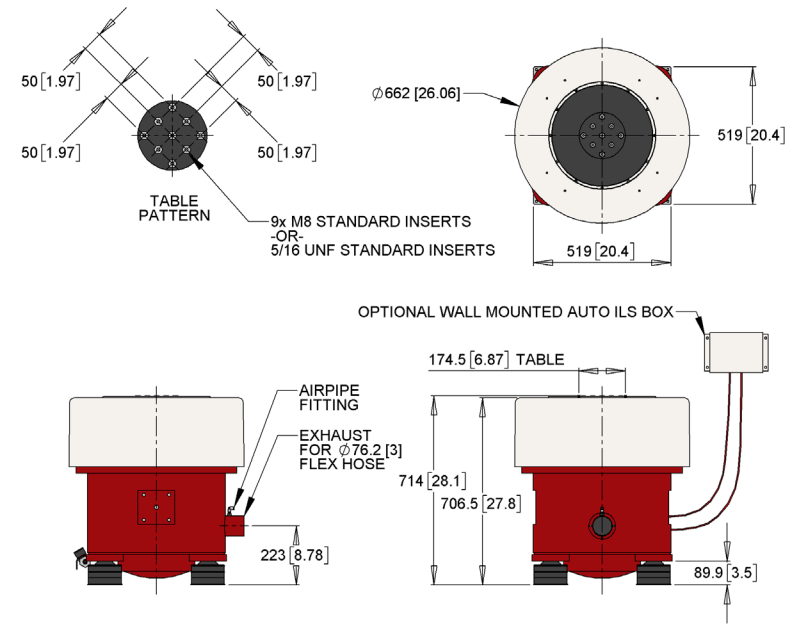
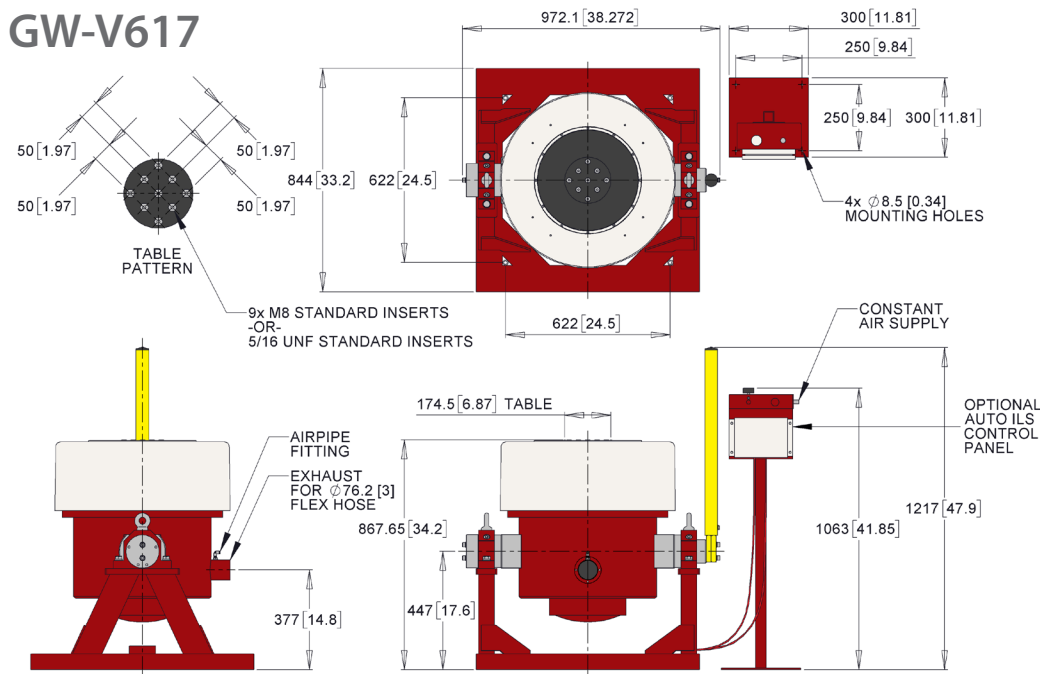
### Sine Performance Envelope



	Maximum Sine Force (pk)		Maximum Random Force (rms)		Maximum Shock Force*		Maximum Acceleration (Sine)		Maximum Velocity		Displacement Peak to Peak		Armature Diameter		Armature Mass		Insert Threads		Armature Resonance ±5%	Frequency Range		Static Payload Support		Electrical Power Consumed	Shaker Body Mass		Stray Magnetic Field**	
	lbf	kN	lbf	kN	lbf	kN	g	m/s <sup>2</sup>	ips	m/s	in	mm	in	mm	lbs	kg	SAE	Metric	Hz	Min.	Max.	lbs	kg	KVA	lbs	kg	mT	Gauss
GW-V617/DSA5-5K	1050	4.67	900	4.0	3480	15.5	70	687	60	1.5	2.0	51	6.9	174.5	15.0	6.8	5/16-24	M8	2200	DC	3000	200	90	8.8	1385	629	<.5	5.0
GW-V617/DSA5-10K	1500	6.67	1025	4.6	4500	19.9	100	980	60	1.5	2.0	51	6.9	174.5	15.0	6.8	5/16-24	M8	2200	DC	3000	200	90	11.4	1385	629	<.5	5.0

\* At 3 mSec \*\* 1 in. (25 mm) above table

### GW-V617



Measures are in millimeters [ inches ].

### Environmental Characteristics

#### Ambient Working Temperature Range

(non-condensing)

Shaker	50F to 77F (10C to 25C)
Amplifier	50F to 104F (10C to 40C)

Anti-condensation blower option available for the shaker when used in conjunction with a thermal chamber.

#### Acoustic Noise @ 1m

Shaker	Up to 100 dbA & 1m**
Amplifier	65 dbA @ 1m with cooling fans at low speed, 78 dbA @ 1m with cooling fans at high speed. High speed fan engaged at <60% output current.
Blower	72 dbA @ 1m##

#### Humidity

Shaker	<95% non-condensing
Amplifier	<95% non-condensing

#### Facility Requirements

Power supply range	380/400/415/440/480 Vac 50/60 Hz 3 phase AC
Total electrical requirements	See table

#### Weight#

1385 lbs (629 Kg)

\*\* Dependent upon operating frequency & payload.

# Typical weight, dependent upon mounting options selected.

## Noise reduction enclosures available for the cooling blower.

### Amplifier Characteristics

Rated Power*	5 kVA / 10 kVA
Switching Frequency	100 kHz nominal
Input Sensitivity	2.3 V rms for full output
Input Impedance	10 K ohm input impedance
Voltage Output	82 V rms
Current Output	62 A rms per fitted power module Each power module = 5KW Example: 15Kw = 3 power modules
Signal to Noise Ratio	> 75 dB
Weight*	616 lbs (280 kg) (5K) 638 lbs (290 kg) (10K)

\* Multiple listing reflects amplifier models – small to large.

#### Performance Notes

1. Random force based upon a flat spectrum 20Hz-2KHz @3 sigma with a non-resonant payload equal to or greater than twice the moving system mass.
2. System utility includes the cooling blower.
3. Specifications are subject to change without notice.

### Amplifier Dimensions

Height	50" (1273 mm)
Width	24" (600 mm)
Depth	32" (800 mm)

### Shaker Dimensions

Height	28.1" (714 mm)
Width	20.4" (519 mm)
Depth	20.4" (519 mm)

(May vary with mounting options.)

### Blower Dimensions

Height	30.3" (770 mm)
Width	28.3" (720 mm)
Depth	36.2" (920 mm)