

V300

V350

V400

- DC energized shakers producing 370 lbf (1.65 kN) to 1650 lbf (7.3 kN) peak force
- Choice of system configuration
- Vertical isolation mounts
- Low frequency isolation trunnions
- Rigid trunnions
- Chamber interfaces
- Air glides



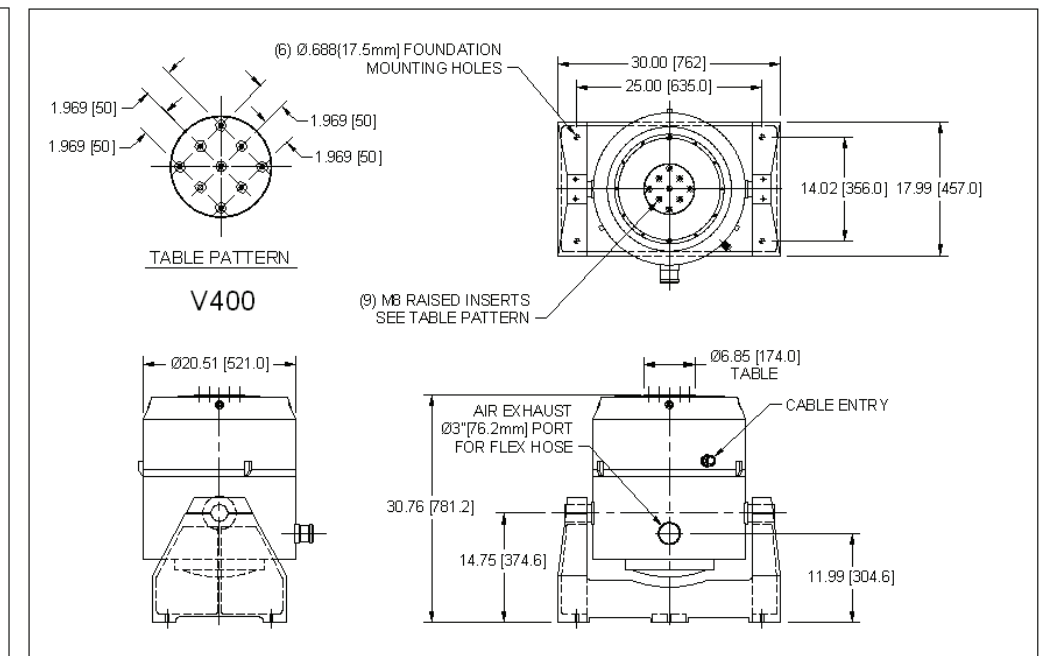
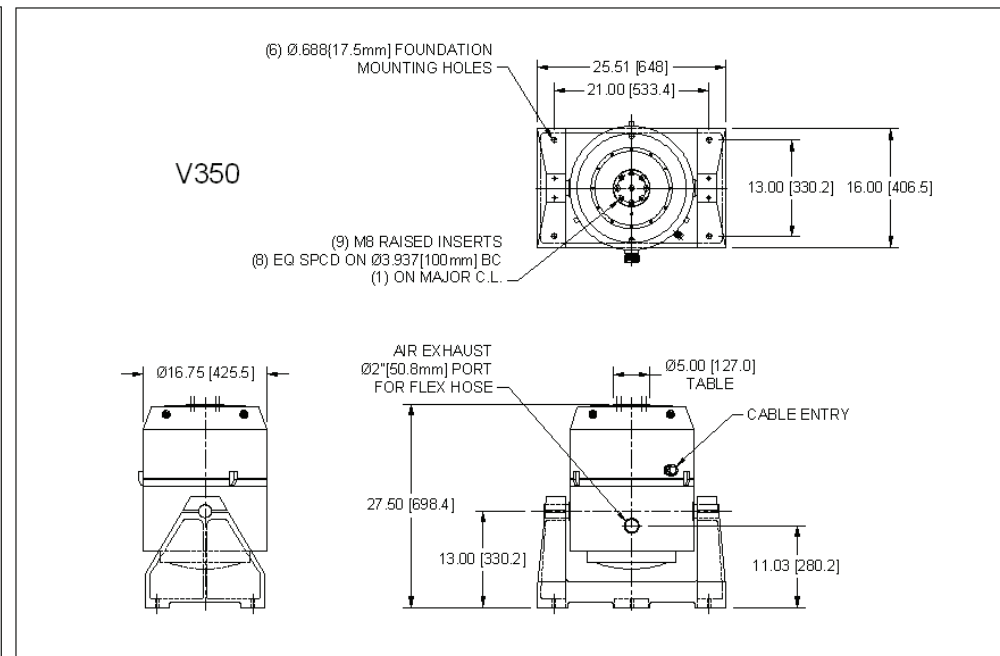
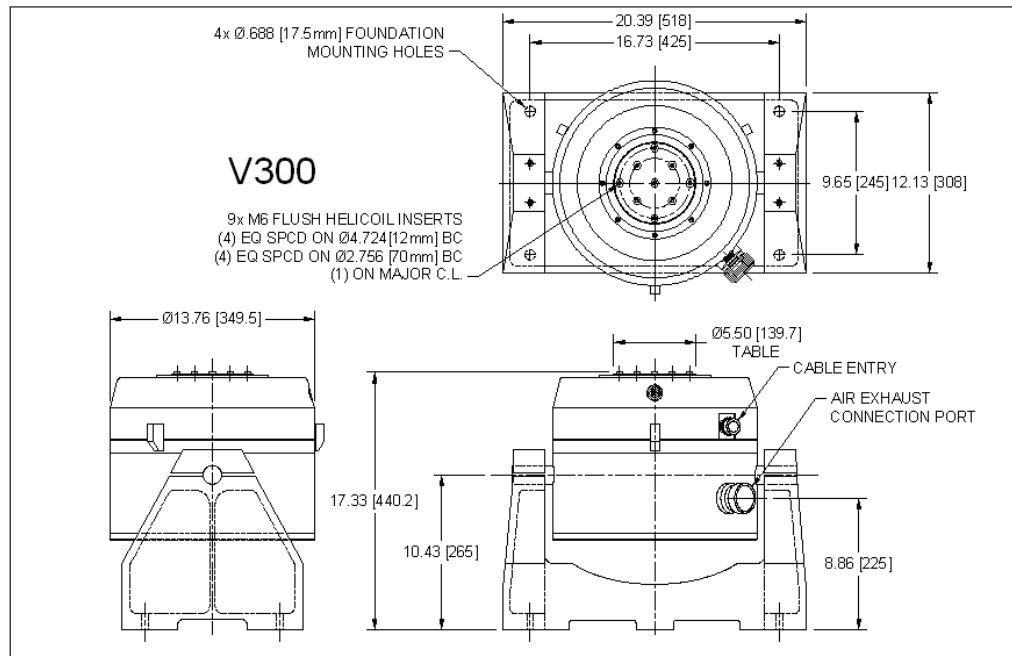
Data Physics' range of air-cooled shakers have found application testing in Formula 1 racing cars, mobile telephones, health & safety type approvals, materials analysis, avionics systems and electronic sub-systems testing. These shakers provide high lateral and torsional stiffness to provide maximum stability and support. Thus producing high performance and low distortion levels.

SignalForce
Shakers

	Maximum Sine Force			Maximum Random Force			Maximum Shock Force*			Maximum Acceleration (Sine)		Maximum Velocity		Rated Travel Peak to Peak		Armature Diameter		Armature Mass		Insert Threads		Armature Resonance $\pm 5\%$	Frequency Range		Static Payload Support		Shaker Body Mass		Stray Magnetic Field @ 25 mm above table		Electrical Power Consumption
	lbf	N	kgf	lbf	N	kgf	lbf	N	kgf	g	m/s ²	ips	mps	in.	mm	in.	mm	lbs.	kg	SAE	Metric		Hz	Minimum	Maximum	lbs	kg	lbs.	kg	mT	
V300/DSA1-1k	370.0	1646	165	190	850	86.6	1110	4400	503.5	98	961.1	50.00	1.27	0.5	12.7	5.5	140	3.8	1.71	1/4-28	M6	4700	DC	5000	200	90.0	350	160	<.5	5.0	2.7
V350/DSA1-1k	535.0	2380	240	295	1310	133.4	1605	7140.0	728.1	71	696.3	35.5	0.9	0.8	20.3	5.0	127	7.5	3.41	5/16-24	M8	3500	DC	4000	250	114.0	770	350	<.5	5.0	4.5
V350/DSA1-2k	700	3100	315	505	2240	228.4	2090	9300.0	948.3	93	912.0	50.00	1.27	1.0	25.4	5.0	127	7.5	3.41	5/16-24	M8	3500	DC	4000	250	114.0	1410	640	<.5	5.0	5.5
V400LT/DSA1-2k	1035	4600	470	575	2560	260.8	3100	13800.0	1407.2	57	559.0	32	0.81	1.0	25.4	13.1	333	18.0	8.18	5/16-24	M8	2900	DC	3000	350	160.0	1410	640	<.5	5.0	6.8
V400LT/DSA4-4k	1350	6000	610	875	3900	397.7	4045	18000.0	1835.5	75	735.5	50.00	1.27	1.0	25.4	13.1	333	18.0	8.18	5/16-24	M8	2900	DC	3000	350	160.0	1410	640	<.5	5.0	8.1
V400LT/DSA4-8k	1650	7325	745	935	4150	423.2	4940	21980	2241.1	91	892.4	60	1.52	1.0	25.4	13.1	333	18.0	8.18	5/16-24	M8	2900	DC	3000	350	160.0	1410	640	<.5	5.0	11.4
V400/DSA1-2k	1035	4600	470	575	2560	260.8	3100	13800.0	1407.2	90	882.6	32	0.81	1.0	25.4	6.9	174.5	11.5	5.22	5/16-24	M8	2800	DC	3000	350	160.0	1410	640	<.5	5.0	6.8
V400/DSA4-4k	1350	6000	610	875	3900	397.7	4045	18000.0	1835.5	117	1147.4	50.00	1.27	1.0	25.4	6.9	174.5	11.5	5.22	5/16-24	M8	2800	DC	3000	350	160.0	1410	640	<.5	5.0	8.1
V400/DSA4-8k	1645	7325	745	935	4150	423.2	4940	21980	2241.1	120	1176.8	60	1.52	1.0	25.4	6.9	174.5	11.5	5.22	5/16-24	M8	2800	DC	3000	350	160.0	1410	640	<.5	5.0	11.4

*Note- At 3 mSec

SignalForce

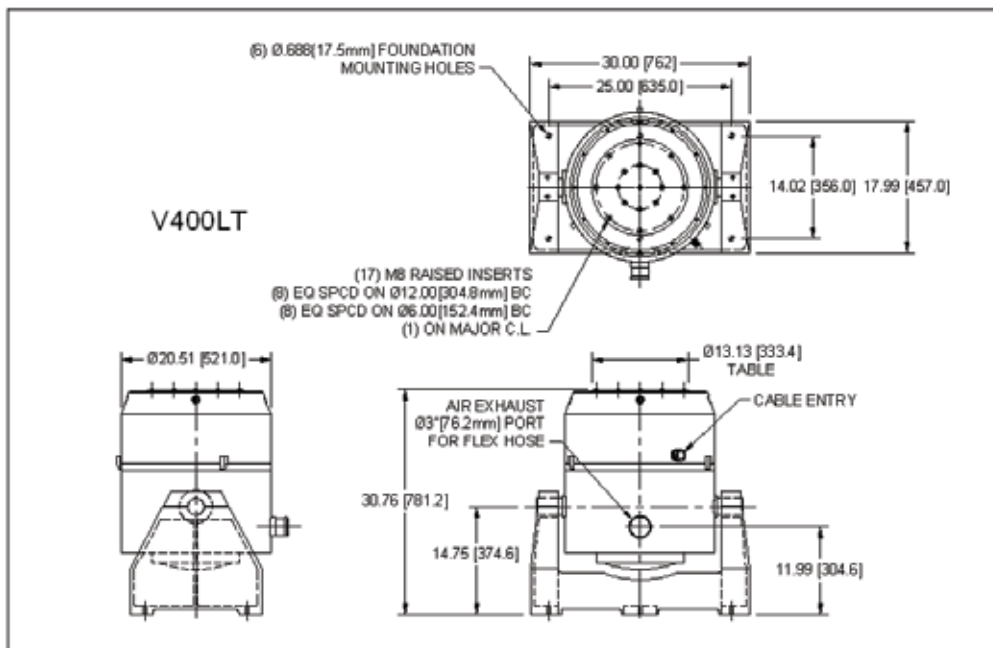


Options

- Pneumatic isolation mounts with resonance <5Hz
- Rigid trunnions
- Isolated trunnions for horizontal and vertical operation
- Degaussing to reduce stray field
- Air glides for use with chambers
- Head expanders
- Thermal barriers

Armature Insert Details

- V100: 1 centre, 4 on 42.5mm PCD, 4 on 85mm PCD
- V300: 1 centre, 4 on 70mm PCD, 4 on 120mm PCD
- V350: 1 centre, 8 on 100mm PCD,
- V400: 9 on 50mm grid
- V400LT: 1 centre, 8 on 152.4mm PCD, 8 on 304.8mm PCD



Discover more at www.dataphysics.com

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