AHV-V TITAN

FEATURES

- <1 to >250 Hz frequency range*
- 2 x increased force output at low frequencies over current technologies
- Low full drive frequency (3.4 Hz for 60K lbs vibe, 4.2 Hz for 80K lbs vibe)
- Stiffer baseplate designed for improved coupling
- INOVA's Patented Pre-Loaded Stilt Structure provides simplified maintenance

GEOPHYSICAL SPECIFICATIONS

Peak Force:	356kN (80,000 lb)
Frequency Limit :	<1 Hz to >250 Hz*
Baseplate Resonance:	135 Hz

The table below displays the low frequency force output for the vibrator at 75% drive level.

FREQUENCY	FORCE OUTPUT (LBS)	
	60,000 VEHICLE	80,000 VEHICLE
1	4778	4819
2	19116	19279
3	42733	43099
4	48053	57466
5	48053	62160
6	48053	62160
7	48053	62160
8	48053	62160

*Actual force output is dependent on frequency, ground conditions, controller type and maintenance condition of the vibrator . Consult user manual for guidelines on operation.

TECHNICAL SPECIFICATIONS - ACTUATOR

Shaker Model:	P-Wave Vibrator; PLS-480
Piston Area:	167.2 sq cm (25.9 sq in)
Mass Weight:	6,109.5 kg (13,469 lb)
Driven Weight:	2,170.9 kg (4,786 lb)
Usable Stroke:	17.78 cm (7 in)
Mass Internal Accumulators (2):	9.46 L (2.5 gal.)
Servo Accumulators (2):	164 cc (10 in^3)
Lift Stroke:	1.143m (45 in)
Balance Method:	Airbags
Isolation Method:	Airbags
Hydraulic System:	Closed-loop
Hydraulic System Pumps:	3 x 119 cc (7.25 in^3) Denison P-7
Servo Valve:	Atlas 240H *(with DR modification)*
Pilot Valve:	MOOG
Hydraulic Fluid Filtration:	3 x 3 -micron absolute; *high pressure, double element*
Accumulators:	2 x 19 L (5 gal); *bladder-type*
Heat Exchanger:	Dual coolers; multi-wing fan; hydraulically-driven
Hydraulic Reservoir:	295.2 L (78 gal)
Baseplate Type:	Reinforced rectangular

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TECHNICAL SPECIFICATIONS - CHASSIS

Engine:	Up to 589 HP, Cummins; (Tier 3 and Tier 4 options available)
Cooling:	Water-cooled radiator to +55° C (+131 °F) for hot climate and -50 °C (-58 °F) for cold climate
Air Compressor:	18 CFM
System Warning Device:	Engine shutdown system for low oil pressure, high engine water temperature, and low coolant level
Fuel Capacity:	Up to 1324.9 L (350 gal)
Frame:	Solid-steel frame for maximum strength and reliability
Axles:	Differential lock, SWEDA
Gearboxes:	Infinite variable speed
Cab:	Fabricated-steel construction; high visibility with adjustable driver and passenger seat; 3-point shoulder harness; air-conditioning; heater; defroster; wiper; dome light and side-mounted mirrors
Electrical:	+12 V start; +12 V run with 200-amp alternator

PHYSICAL SPECIFICATIONS

Buggy Length:	11.78 m (464 in)
Buggy Width:	3.32 m (131 in) with 66 x 43 in tires**
Height (maximum):	3.7 m (146 in) for tires
Wheelbase:	4.77 m (188 in)
Turning radius – inside:	6.93 m (273 in)
Grade-ability:	60% (31 degrees) for tires
Gross Vehicle Weight:	33,151 kg (73,086 lb) 40,368 kg (88,998 lb)
Hold-down Weight:	Minimum 30,7890 kg (67,880 lb) Maximum*** 36,287 kg (80,000 lb)
Front axle Weight:	Minimum 16,116 kg (35,530 lb) Maximum*** 20,002 kg (44,098 lb)
Rear axle Weight:	Minimum 17,035 kg (37,556 lb) Maximum*** 20,366 kg (44,900 lb)

COMMON OPTIONS

- Winch with capacity of 13,608 kg (30,000 lb)
- Various tire and wheel options on request
- Automatic greasing system
- Hydraulic kidney loop filtration
- Central tire inflation kit
- Fast fueling system (Wiggins)
- Safety Kits
- Emergency stop, fire extinguisher, backup camera

** Buggy width will vary depending on tires selected

*** Desired weight achieved with removable slide-on frame weight

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