

## AHV-V TITAN

### FEATURES

- 1- 130 Hz frequency range
- Up to 80,000 lbs peak force
- 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 couplin
- INOVA's Patented Pre-Loaded Stilt Structure prolongs life of parts

### GEOPHYSICAL PERFORMANCE

Peak Force: 356kN (80,000 lb)

Frequency Limit : 1 Hz to 130 Hz\*

Baseplate Resonance: 135 Hz

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

Frequency (Hz)	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

\*Dependent on ground conditions, controller type and force level settings.



### TECHNICAL SPECIFICATIONS - PLS-480 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)
Useable Stroke:	17.78 cm (7 in)
Mass Internal Accumulators (2):	9.46 L (2.5 gal.)
Servo Valve Manifold Accumulators (2):	10 cubic inches
Lift Stroke:	1.143m (45in)
Balance Method:	Airbags
Isolation Method:	Airbags
Hydraulic System:	Closed-loop
Hydraulic System Pumps:	3 x 119 cc (7.25 in <sup>3</sup> ); 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 (Tier 3 and Tier 4 options available)
Cooling:	Water-cooled radiator to +50° C (+130 °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
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 240-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):	3.47 m (137 in) for tires
Wheelbase:	4.77 m (188 in)
Turning radius – inside:	6.93 m (273 in)
Gradeability:	60% (31 degrees) for tires
Gross Vehicle Weight:	25,968 kg (57,250 lb) 29,937 kg (66,000 lb)
Hold-down Weight:	Minimum 30,789 kg (67,880 lb) Maximum*** 36,367 kg (84,130 lb)
Front axle Weight:	Minimum 14,591 kg (32,168 lb) Maximum*** 18,643 kg (41,100 lb)
Rear axle Weight:	Minimum 16,199 kg (35,712 lb) Maximum*** 19,514 kg (43,020 lb)

### COMMON VEHICLE OPTIONS

- Winch with capacity of 13,608 kg (30,000 lb)
- Various Tire and Wheel Options On Request
- Automatic greasing system
- Central tire inflation kit
- Fast fueling system (Wiggins)
- Hydraulic kidney loop filtration system (0.5 micron)
- 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