

## AHV-IV™ (PLS-362)

### FEATURES

- Up to 61,800 lbs of peak force and frequency limit of 1 Hz to 250 Hz\*
- Fully integrated with INOVA's Vib Pro™ source controller for greater control, timing, and QC
- Durable, rectangular baseplate reinforced to support long term field use in comparison with I-Beam structured baseplates
- INOVA's Patented Pre-Loaded Stilt Structure prolongs the life of parts
- Certified Roll-Over Protection
- Articulated, Oscillated Steering
- High Capacity Hydraulic Cooling



### TECHNICAL SPECIFICATIONS - PLS-362 ACTUATOR

Shaker Model:	P-Wave Vibrator; PLS-362	Pilot Valve:	M00G
Peak Force:	275 kN (61,800 lb)	Filtration:	3-micron absolute servo filter; 3.5-micron absolute, high and low pressure, triple element
Piston Area:	132.9 sq cm (20.6 sq in)	Accumulators:	2 x 19 L (5 gal); bladder-type
Mass Weight:	3,683 kg (8,120 lb)	Heat Exchanger:	Steel core; multi-wing fan; hydraulically-driven
Driven Weight:	1,823 kg (4,020 lb)	Reservoir:	170 L (45 gal)
Useable Stroke:	9.83 cm (3.87 in)	Baseplate Type:	Reinforced rectangular
Frequency Limit:	1 Hz to 250 Hz*	Baseplate Area:	2.5 m <sup>2</sup> (3,864 in <sup>2</sup> )
Mass Accumulators (2):	1 L (0.26 gal.); in-line	Baseplate Clearance:	46 cm (18 in) - Tires 63.5 cm (25 in) - Tracks
Lift Stroke:	97 cm (38 in)	Winch Capacity:	13,608 kg (30,000 lb)
Balance Method:	Airbags		
Isolation Method:	Airbags		
Hydraulic System:	Closed-loop		
Hydraulic System Pumps:	2 x 119 cc (7.25 in <sup>3</sup> ); Denison P-7		
Servo Valve:	Atlas 240H (with DR modification)		

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### TECHNICAL SPECIFICATIONS - CHASSIS

Engine:	Detroit Diesel – Series 60, 14 L (425 BHP @ 1,900 RPM)
Optional Engine:	500 BHP @ 1,900 RPM
Air Cleaner:	Dry-type, 3-stage with pre-cleaner
Cooling:	Water-cooled radiator to +50 °C (+122 °F) for hot climate and -50 °C (-58 °F) for cold climate
Air Compressor:	13 CFM
System Warning Device:	Engine shutdown system for low oil pressure, high engine water temperature, and low coolant level
Fuel Capacity:	757.08 L (200 gal)
Drive Pumps:	100 cc (6.1 in <sup>3</sup> ) with electric displacement control
Drive Motors:	250 cc (15.25 in <sup>3</sup> ) variable volume with electronic control for 6 forward and 2 reverse speeds
Frame:	Solid-steel frame for maximum strength and reliability; 35 articulated; hydraulic power steering; 16.5 oscillation center joint
Axles:	Inboard planetary axle with enclosed wet disc brakes and differential lock
Gearboxes:	Single speed
Cab:	Fabricated-steel construction; high visibility with adjustable driver and passenger seat; two, 3-point shoulder belts; air-conditioning; heater; defroster; wiper; dome light; and side mounted mirrors
Electrical:	+24 V start; +12 V run with 110-amp alternator and two, heavy-duty, +12 V, 8D batteries; battery-disconnect switch

### PHYSICAL SPECIFICATIONS

Buggy Length:	10.01 m (400 in)
Buggy Width:	3.4 m (134 in) for 66 x 44 in tires 2.44 m (96 in) for 23.5 x 25 tires 3.0 m (118 in) for tracks
Height (maximum):	3.50 m (138 in) for tires 3.68 m (145 in) for tracks
Wheelbase:	4.77 m (188 in)
Turning radius – inside:	6.93 m (273 in)
Speed:	26 km/hr (16 mph) tires 20.9 km/hr (13 mph) tracks
Gradeability:	Tires: 60%; (31 degrees) Tracks: 51%; (27 degrees)
Gross Vehicle Weight	Minimum 25,968 kg (57,250 lb) tires Maximum** 29,937 kg (66,000 lb) Maximum 38,600 kg (85,000 lb) tracks
Hold-down Weight:	Minimum 22,383 kg (50,350 lb) Maximum** 29,030 kg (64,000 lb)
Front axle Weight:	Minimum 13,789 kg (30,400 lb) tires Maximum** 15,853 kg (34,950 lb) Maximum 18,600 kg (41,000 lb) tracks
Rear axle Weight:	Minimum 12,179 kg (26,850 lb) Maximum** 14,084 kg (31,050 lb) Maximum 20,000 kg (44,000 lb) tracks

\* Max peak force from 6.2 Hz

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