

UV2 (PLS-334)

FEATURES

- New vibrator buggy design for small to mid-range source acquisition
- Up to 34,000 lbs of peak force
- In-cab CAN bus control and monitoring system
- Smaller footprint provides easier mobility through environmentally sensitive areas
- Fully integrated with INOVA's Vib Pro™ and Vib Pro™ HD source controllers for greater control, timing, QC, and lower distortion
- Pre-Loaded Stilt Structure prolongs the life of parts
- Articulated, Oscillated Steering
- High Capacity Hydraulic Cooling



TECHNICAL SPECIFICATIONS - PLS-334 ACTUATOR

Shaker Model:	P-Wave Vibrator; PLS-334
Peak Force:	151 kN (34,000 lbf)*
Piston Area:	55.7 sq cm (8.64 sq in)
Mass Weight:	1,184 kg (2,610 lb)
Driven Weight:	458 kg (1,010 lb)
Useable Stroke:	10.1 cm (4.0 in)
Frequency Limit:	1 Hz to 400 Hz**
Low Frequency Full Drive:	7.97 Hz @ 34,000 lbf 5.68 Hz @ 17,300 lbf
Mass Accumulators (2):	3.8 L (1 gal.)
Lift Stroke:	97 cm (38 in)
Balance Method:	Airbags (2)
Isolation Method:	Airbags (6)
Hydraulic System:	Closed-loop
Hydraulic System Pump:	119 cc (7.25 in ³); Denison P-7
Servo Valve:	Atlas 60FC, 130, 200H, 240H (with DR modification)

Pilot Valve:	M00G
Filtration:	3-micron absolute servo filter; 10-micron charge pump and return filters
Heat Exchanger:	Aluminum, engine mounted
Reservoir:	132 L (35 gal)
Baseplate Type:	36" x 54" 8-sided
Baseplate Area:	1.02 m ² (1,580 in ²)
Baseplate Clearance:	53.3 cm (21 in) - w/o pad

* Peak force stated is achieved with optional weight kit installed

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

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TECHNICAL SPECIFICATIONS - CHASSIS

Engine:	John Deere 4045H, 4.5L (173 HP @ 2,400 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:	378 L (100 gal)
Drive Pump:	100 cc (6.1 in ³) with electric displacement control
Drive Motors:	250 cc (15.26 in ³) variable volume for 3 forward and 1 reverse speeds
Frame:	Solid-steel frame for maximum strength and reliability; 33° articulated; hydraulic power steering; 16.5° oscillation center joint
Axles:	Inboard planetary axle with enclosed wet disc brakes, differential lock, and parking brake
Cab:	Fabricated-steel construction; high visibility with adjustable driver and passenger seat; two, 3-point shoulder belts; air-conditioning; heater; wiper; dome light; and side mounted mirrors; window defrost
Electrical:	+12 V start; +12 V run with 120-amp alternator and one, heavy-duty, +12 V, 8D battery; positive and negative battery-disconnect switch

PHYSICAL SPECIFICATIONS

Buggy Length:	7.9 m (311 in)
Buggy Width:	2.21 m (87 in) with tires **
Height (maximum):	3.11m (122.5 in) with tires
Wheelbase:	3.28 m (129 in)
Turning circle:	10.67 m (420 in) O.D. curb-curb
Speed:	22 km/hr (14 mph)
Gross Vehicle Weight	Minimum 11,113 kg (24,500 lb) Maximum 16,329 kg (36,000 lb) ****
Hold-down Weight:	Minimum 8,165 kg (18,000 lb) Maximum 15,422 kg (34,000 lb) ****
Front axle Weight:	Minimum 5,987 kg (13,200 lb) Maximum 8,391 kg (18,500 lb) ****
Rear axle Weight:	Minimum 5,126 kg (11,300 lb) Maximum 7,938 kg (17,500 lb) ****
Noise:	81 dB @ 7 m to side

COMMON VEHICLE OPTIONS*****

- Winch with capacity of 6,804 kg (15,000 lb)
- Various tire and wheel options on request
- Weight kit achieve 34,000 lbs peak force
- Safety kits
 - Emergency stop, fire extinguisher, backup camera

*** Buggy width will vary depending on tires selected

**** Desired weight achieved with optional weight kit installed

***** Common options listed