Source Products



AHV-IV™ COMMANDER (PLS-364)

FEATURES

- Accurate weighted-sum ground force estimate
- Stiffer baseplate designed for improved coupling
- Increased force output
- Lower distortion
- INOVA's Patented Pre-Loaded Stilt Structure prolongs the life of parts
- Certified Roll-Over Protection
- Articulated, Oscillated Steering



TECHNICAL SPECIFICATIONS - PLS-364 ACTUATOR

Shaker Model: P-Wave Vibrator; PLS-364

 Peak Force:
 275 kN (61,800 lb)

 Piston Area:
 132.9 sq cm (20.6 sq in)

 Mass Weight:
 4,998 kg (11,020 lb)

 Driven Weight:
 2,027 kg (4,469 lb)

 Useable Stroke:
 9.83 cm (3.87 in)

Frequency Limit: <1 Hz to 250 Hz*

Mass Accumulators (2): 3.8 L (1.0 gal.) Servo Manifold

Lift Stroke: 97 cm (38 in)
Balance Method: Airbags
Isolation Method: Airbags
Hydraulic System: Closed-loop

Hydraulic System Pumps: $2 \times 119 \text{ cc } (7.25 \text{ in}^3)$; Denison P-7 Servo Valve: Atlas 240H (with DR modification)

Pilot Valve: MOOG

Hydraulic Fluid Filtration:

Accumulators: Heat Exchanger:

Hydraulic Reservoir:

Baseplate Type: Baseplate Area:

Baseplate Clearance:

3-micron absolute servo filter;

3.5-micron absolute, high and

low pressure, triple element

 $2 \times 19 L$ (5 gal); bladder-type

Steel core; multi-wing fan;

hydraulically-driven

170 L (45 gal)

Reinforced rectangular

2.5 m² (3,864 in²)

46 cm (18 in) - Tires

^{*} Max peak force from 5.18 Hz

Source Products



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TECHNICAL SPECIFICATIONS - CHASSIS

Engine: Detroit Diesel – Series 60, 14 L

425 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: 757.1 L (200 gal)

Drive Pumps: 100 cc (6.1 in³) with electric

displacement control

Drive Motors: 250 cc (15.25 in³) variable volume with

electronic control for 6 forward and 2

reverse speeds

Frame: Solid-steel frame for maximum strength

and reliability; hydraulic

power steering

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; 3-point shoulder harness; 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

8D batteries; battery-disconnect switch

PHYSICAL SPECIFICATIONS

Buggy Length: 10.01 m (400 in)

Buggy Width: 3.4 m (134 in) with 66 x 44 in tires***

2.44 m (96 in) with 23.5 x 25 in tires

Height (maximum): 3.50 m (138 in) for tires

Wheelbase: 4.77 m (188 in)

Turning radius – inside: 6.93 m (273 in)

Speed: 26 km/hr (16 mph)

Gradeability: 60% (31 degrees) for tires

Gross Vehicle Weight: Minimum 25,968 kg (57,250 lb)

Maximum** 29,937 kg (66,000 lb)

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)

Maximum** 15,853 kg (34,950 lb)

Rear axle Weight: Minimum 12,179 kg (26,850 lb)

Maximum** 14, 084 kg (31,050 lb)

COMMON VEHICLE OPTIONS****

- Winch with capacity of 13,608 kg (30,000 lb)
- Engine upgrade to 500 BHP
- Various Tire and Wheel Options On Request
- Tracks
 - Suitable for Artic or Desert Operations
- 295 L (78 gal) Hydaulic reservoir
- 1135 L (300 gal) fuel tank
- 160-amp alternator
- Accumulator charging manifold kit
- Automatic greasing system
- Central tire inflation system
- Wiggins fuel system
- Safety Kits
 - Emergency stop, fire extinguisher, backup camera

^{**} Desired weight achieved with removable slide-on frame weight

^{***}Buggy width will vary depending on tires selected

^{****} Common options listed