# **Source Products**



## AHV-IV™ RENEGADE

#### **FEATURES**

- Up to 80,000 lbs of peak force and frequency limit of <1 Hz to 250 Hz\*
- Fully integrated with INOVA's Vib Pro<sup>™</sup> and VibPro HD<sup>™</sup> source controllers for greater control, timing, and QC
- Durable, rectangular baseplate reinforced to support long term field use in comparison with I-Beam structured baseplates.
- The AHV-IV Renegade is produced using an advanced reaction mass assembly which makes it easier to detect and repair failures in the field.
- INOVA's Patented Pre-Loaded Stilt Structure prolongs the life of parts
- Certified Roll-Over Protection
- Simplified Hydraulics
- Articulated, Oscillated Steering
- High Capacity Hydraulic Cooling

#### **TECHNICAL SPECIFICATIONS - PLS-380 ACTUATOR**

Shaker Model: P-Wave Vibrator; PLS-380

Peak Force: 356 kN (80,000 lb)

 Piston Area:
 167.2 sq cm (25.92 sq in)

 Mass Weight:
 5,910 kg (13,029 lb)

 Driven Weight:
 1,985 kg (4,377 lb)

 Useable Stroke:
 10.16 cm (4.0 in p-p)

Frequency Limit: 1 Hz to 250 Hz\*

Mass Accumulators: 2 x 1 L (0.26 gal.); in-line

Lift Stroke: 114.3 cm (45 in)

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)

Pilot Valve: M00G

\* Max peak force from 5.5 Hz



Hydaulic Fluid Filtration: 3-micron absolute servo filter;

3.5-micron absolute, high and low

pressure, triple element

Accumulators: 2 x 19 L (5 gal); bladder-type Heat Exchanger: Steel core; multi-wing fan;

hydraulically-driven

Reservoir: 170 L (45 gal)

Baseplate Type: Reinforced rectangular
Baseplate Area: 2.5 m2 (3,864 in²)
Baseplate Clearance: 46 cm (18 in) - Tires

58 cm (23 in) - Tracks

### **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

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## **AHV-IV™ RENEGADE**

## TECHNICAL SPECIFICATIONS - CHASSIS (CON'T)

Fuel Capacity: 757.08 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; 35 articulated; hydraulic

power steering; 16.5 oscillation

center joint

Axles: Inboard planetary axle with enclosed

wet disc brakes and differential lock

Gearboxes: 1.7 to 1 ratio reduction

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

Tire Options: Sand Tire:

167 cm x 112 cm x 64 cm

(66 in x 44 in x 25 in)

; 20 ply minimum

Tracks:

91.44 cm (36 in) wide rubber track

#### **PHYSICAL SPECIFICATIONS**

Buggy Length: 10.01 m (400 in)

Buggy Width: 3.4 m (134 in) for 66 x 44 tires on

standard axle\*\*

4.0 m (157 in) for 66 x 44 tires on

heavy axle\*\*

3.0 m (118 in) for tracks on

standard axle

3.58 m (141 in) for tracks on

heavy axle

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

3.68 m (145 in) for tracks

Wheelbase: 4.77 m (188 in)

N/A for tracks

Turning radius – inside: 6.93 m (273 in)

N/A for tracks

Speed: 20.4 km/hr (12.7 mph) tires,

heavy axle

20.9 km/hr (13 mph) tracks,

standard axle

Gradeability: Tires: 60%; (31 degrees) heavy axle

Tracks: 51%; (27 degrees) standard axle

Gross Vehicle Weight: Tires: 37,300 kg (82,300 lb)

Tracks: 41,855 kg (92,080 lb)

Hold-down Weight: Tires: 36,287 kg (80,000 lb) at 2,850 psi

Tracks: 36,287 kg (80,000 lb) at

2,850 psi

Front axle Weight: Tires: 18,750 kg (41,350 lb)

Tracks: 20,245 kg (44,540 lb)

Rear axle Weight: Tires: 18,585 kg (40,950 lb)

Tracks: 21,609 kg (47,540 lb)

<sup>\*\*</sup>Buggy width will vary depending on tires selected

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## **AHV-IV™ RENEGADE**

## **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
- Central tire inflation system
- Safety Kits
  - Emergency stop, fire extinguisher, backup camera

\*\*\*Common options listed