

VIBRATOR SPECIFICATIONS



GEOPHYSICAL

	UV2 PLS-334	COMMANDER PLS-364	RENEGADE PLS-380	TITAN PLS-480
PEAK FORCE	115.6 kN (26,000 LBF)	275 kN (61,800 LBF)	356 kN (80,000 LBF)	
FREQUENCY LIMIT *	<1Hz to > 400 Hz		<1Hz to > 250 Hz	
BASEPLATE RESONANCE	160 Hz	135 Hz	80 Hz	135 Hz
FULL DRIVE FREQUENCY	8 Hz	6 Hz	7 Hz	3.4 Hz FOR 60,000 4.5 Hz FOR 80,000

***ACTUAL FORCE OUTPUT IS DEPENDENT ON FREQUENCY, GROUND CONDITIONS, CONTROLLER TYPE AND MAINTENANCE CONDITION OF THE VIBRATOR . CONSULT USER MANUAL FOR GUIDELINES ON OPERATION.**

LOW FORCE FREQUENCY OUTPUT

THE TABLE BELOW DISPLAYS THE LOW FREQUENCY FORCE OUTPUT FOR THE VIBRATOR AT 75% OF HOLD-DOWN WEIGHT.

	UV2 PLS-334	COMMANDER PLS-364	RENEGADE PLS-380	TITAN PLS-480	TITAN PLS-480
FREQUENCY (Hz)	FORCE OUTPUT (LBS)				
1	827	2180	2578	4778	4819
2	3308	8721	10312	19116	19279
3	7443	19622	23202	42733	43099
4	13231	34379	37019	48053	57466
5	17285	42974	46273	48053	62160
6	20742	46350	55528	48053	62160
7	24199	46350	60000	48053	62160
8	25500	46350	60000	48053	62160
9	25500	46350	60000	48053	62160
10	25500	46350	60000	48053	62160

***ACTUAL FORCE OUTPUT IS DEPENDENT ON FREQUENCY, GROUND CONDITIONS, CONTROLLER TYPE AND MAINTENANCE CONDITION OF THE VIBRATOR . CONSULT USER MANUAL FOR GUIDELINES ON OPERATION.**

ACTUATOR

	UV2	COMMANDER	RENEGADE	TITAN
SHAKER MODEL	PLS-334	PLS-364	PLS-380	PLS-480
BASEPLATE AREA	1.02 M ² (1,580 IN ²)	2.5 M ² (3,864 IN ²)		
BASEPLATE CLEARANCE	53.3 CM (21 IN) WITHOUT PAD	46 CM (18 IN) WITH TIRES		
PISTON AREA	55.7 CM ² (8.64 IN ²)	132.9 CM ² (20.6 IN ²)	167.2 CM ² (25.92 IN ²)	
MASS WEIGHT	1,828 KG (4029 LB)	4998 KG (11,020 LB)	5,910 KG (13,029 LB)	6,109.5 KG (13,469 LB)
DRIVEN WEIGHT	913 KG (2012 LB)	2,027 KG (4,469 LB)	1,985 KG (4,377 LB)	2,170 KG (4,786 LB)
USABLE STROKE	10.1 CM (4.0 IN)	9.83 CM (3.87 IN)	10.1 CM (4 IN)	17.78 CM (7 IN)
ACCUMULATORS	2 X 19 L (5 GAL) BLADDER TYPE			
MASS INTERNAL ACCUMULATORS	N/A	N/A	2 X 1 L (0.26 GAL)	9.46 L (2.5 GAL)
SERVO ACCUMULATORS	3.8 L (1 GAL)			164 CC (10 IN ³)
LIFT STROKE	97 CM (38 IN)		1.143 M (45 IN)	
ISOLATION METHOD	AIRBAGS			
HYRAULIC SYSTEM PUMPS	2 X 119 CC (7.25 IN ³) DENISON P-7 (1 PUMP)	2 X 119 CC (7.25 IN ³) DENISON P-7	2 X 119 CC (7.25 IN ³) DENISON P-7	3 X 119 CC (7.25 IN ³) DENISON P-7
SERVO VALVE	ATLAS 130 WITH DR MODIFICATION	ATLAS 240H WITH DR MODIFICATION		
PILOT VALVE	MOOG			
HYDRAULIC RESERVOIR	132 L (35 GAL)	170 L (45 GAL)		295.2 L (78 GAL)

CHASSIS

	UV2	COMMANDER	RENEGADE	TITAN
ENGINE	UP TO 170 HP TIER 4 / STAGE V	UP TO 500 HP TIER 3 / STAGE III A UP TO 513 HP TIER 4 / STAGE V	UP TO 500 HP TIER 3 / STAGE III A	UP TO 589 HP TIER 3 / STAGE III A UP TO 513 HP TIER 4 / STAGE V
COOLING	WATER COOLED RADIATOR TO +57 C (+135 F) FOR HOT CLIMATE AND -50 C (-58 F) FOR COLD CLIMATE.			
ENGINE SAFETY	SHUTDOWN SYSTEM FOR LOW OIL PRESSURE , HIGH ENGINE WATER TEMPERATURE , LOW COOLANT LEVEL			
FUEL CAPACITY	378 L (100 GAL)	757.1 L (200 GAL)		1324.9 L (350 GAL)
DRIVE PUMP	100 CC (6.1 IN³) WITH ELECTRIC DISPLACMENT CONTROL 1 PUMP	100 CC (6.1 IN³) WITH ELECTRIC DISPLACMENT CONTROL 2 PUMPS	100 CC (6.1 IN³) WITH ELECTRIC DISPLACMENT CONTROL 2 PUMPS	2 X 100 CC (6.1 IN³) WITH ELECTRIC DISPLACMENT CONTROL
DRIVE MOTORS	250 CC (15.26 IN³) VARIABLE VOLUME FOR 6 FORWARD AND 2 REVERSE SPEED			
CAB	STEEL CONSTRUCTION, ADJUSTABLE DRIVER AND PASSENGER SEAT. THREE-POINT SHOULDER HARNESS, A/C, HEATER, DEFROSTER, WIPER, DOME LIGHT, SIDE-MOUNTED MIRRORS.			
FRAME	SOLID-STEEL			

ELECTRICAL

	UV2	COMMANDER	RENEGADE	TITAN
NEUROTEC	ENABLED	COMPATIBLE	COMPATIBLE	ENABLED
ELECTRICAL	+12 V START +12 V RUN 120 AMP ALTERNATOR	+12 V START +12 V RUN 170 AMP ALTERNATOR	+12 V START +12 V RUN 170 AMP ALTERNATOR	+12 V START +12 V RUN 200 AMP ALTERNATOR
	ONE, HEAVY-DUTY +12 V 8D BATTERY WITH DISCONNECT SWITCHES	TWO, HEAVY-DUTY +12 V 8D BATTERIES WITH DISCONNECT SWITCHES	TWO, HEAVY-DUTY +12 V 8D BATTERIES WITH DISCONNECT SWITCHES	TWO, HEAVY-DUTY +12 V 8D BATTERIES WITH DISCONNECT SWITCHES

VEHICLE

	UV2	364	380	TITAN
VEHICLE LENGTH	7.9 M (311 IN)	10.01 M (400 IN)		10.01 M (400 IN)
WIDTH **	2.21 M (87 IN) WITH TIRES	3.4 M (134 IN) WITH TIRES		3.32 M (131 IN) WITH TIRES
HEIGHT	3.11 M (122.5 IN) WITH TIRES	3.50 M (138 IN) WITH TIRES	3.50 M (138 IN) WITH TIRES 3.68 M (145 IN) WITH TRACKS	3.70 M (146 IN) WITH TIRES
WHEELBASE	3.28 M (129 IN)	4.77 M (188 IN)		
TURNING RADIUS	10.67 M (420 IN) O.D CURB TO CURB	6.93 M (273 IN) INSIDE		
MAX SPEED	23 KM/HR (14 MPH)	20.4 KM/HR (12.7 MPH)		26 KM/HR (16 MPH)
GRADEABILITY	60 % (31 DEGREES) FOR TIRES			
GROSS VEHICLE WEIGHT ***	13,753 KG (30,320 LB) MINIMUM 16,964 KG (37,400 LB) MAXIMUM	30,663 KG (67,600 LB) MINIMUM 31,842 KG (70,200 LB) MAXIMUM	39,048 KG (86,086 LB) MAXIMUM	34,077 KG (75,126 LB) MINIMUM 40,369 KG (88,998 LB) MAXIMUM
HOLD DOWN WEIGHT ***	8,165 KG (18,000 LB) MINIMUM 15,422 KG (34,000 LB) MAXIMUM	26,036 KG (57,400 LB) MINIMUM 27,216 KG (60,000 LB) MAXIMUM	36,287 KG (80,000 LB) MAXIMUM	29,995 KG (66,128 LB) MINIMUM 36,287 KG (80,000 LB) MAXIMUM
NOISE	88 dB @ 10 M SIDE TO SIDE	104 dB @ 10 M SIDE TO SIDE (TIER 3) 87 dB @ 10 M SIDE TO SIDE (TIER 4)	104 dB @ 10 M SIDE TO SIDE (TIER 3)	97 dB @ 10 M SIDE TO SIDE (TIER 3)

**BUGGY WIDTH WILL VARY DEPENDING ON TIRES SELECTED

*** DESIRED WEIGHT ACHEIVED WITH REMOVABLE SLIDE-ON FRAME WEIGHT