Spécifications de l'équipement sismique réflexion : MARK IV

-IVI- MARK IV VEHICLE WITH Y2400 VIBRATOR

ivi

'birdwagen' MARK IV off-road vehicle with 24 ton vibrator, noise reduction package and 3-man cab

INDUSTRIAL VEHICLES INTERNATIONAL 6737 E. 12th Street • Tulsa, Oklahoma U.S.A. 74112
918 / 836-6516 • Telex 49-7574 (Call back: INDVEHICLE TUL)

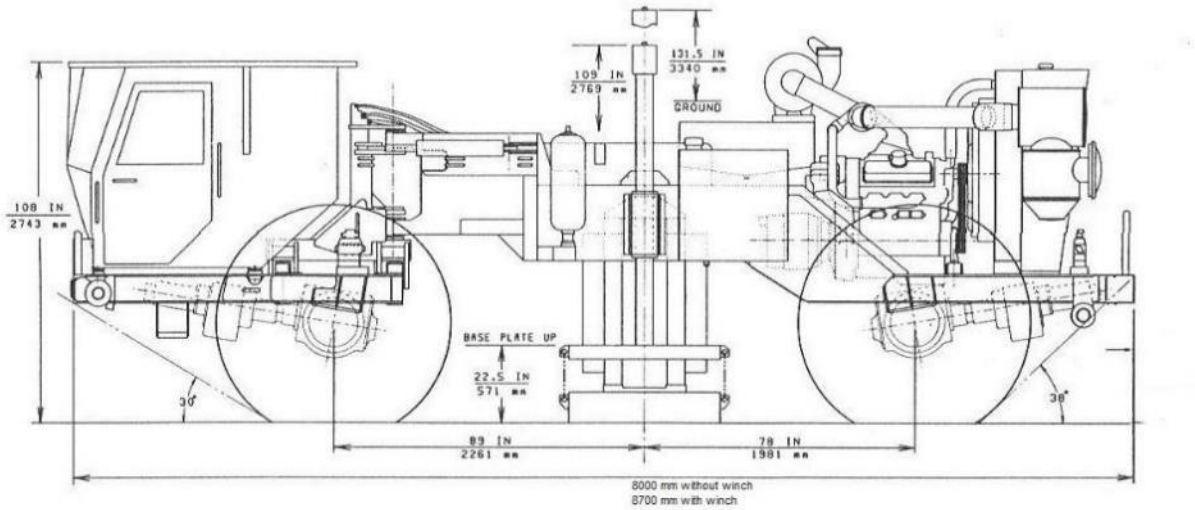
CATEGORY	ENGLISH	METRIC
Total Weight	44,000 Pounds*	19.964 kg*
Front Axle Weight	21,000 Pounds*	9.528 kg*
Rear Axle Weight	23,000 Pounds*	10.436 kg*
Pump	Sundstrand 26	Sundstrand 26
System Pressure	3,000 PSI	204 bar
Transmission	Funk 4-Speed	Funk 4-Speed
Cab	2 or 3 Man Cab	2 or 3 Man Cab
Turning Radius	23 Feet 6 Inches	7,16 meters
Engine - 6V-92T Detroit	322 Horsepower @ 2100 RPM	240 kw. @ 2100 RPM

FAILING Y-2400

CATEGORY	ENGLISH	METRIC
Maximum Peak Force	48,044 Pounds	21.794 kg.
Mass Piston Area	16.01 Inches²	103,3 cm²
Reaction Mass Weight	6,700 Pounds	3.039 kg.
Reaction Mass Stroke	Plus or Minus 2 Inches	Plus or Minus 5,08 cm.
Reaction Centering	Air Spring Actuators	Air Spring Actuators
Servovalve	200 GPM	756 l/m
Servovalve Pilot Filter	3 Micron	3 Micron
Baseplate Area	3,068 Inches²	19.789 cm²
Baseplate Assembly Weight	3,308 Pounds	1.501 kg.
Lift System Stroke	38 Inches	96,5 cm.
Lift Cylinder Diameter	3.25 Inches	8,26 cm.
Lift Synchronization	Split Crossbeam	Split Crossbeam
Vibrator Pump Flow	103 GPM @ 1800 RPM	389 l/m. @ 1800 RPM
Holddown Weight	42,000 Pounds*	19.056 kg.*

1 *These weights can be increased by adding water and or CaCl to the tires.

IVI Mark 4 vibrator specifications.



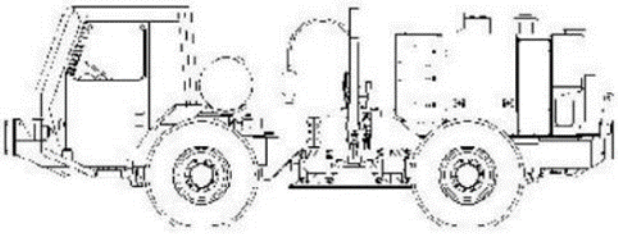
Spécifications de l'équipement sismique réflexion : ENVIRO VIBE II

INDUSTRIAL VEHICLES INTERNATIONAL, INC.

6737 EAST 12TH STREET, TULSA, OKLAHOMA 74112 U.S.A. PHONE (918)836-6516 FAX (918)838-9529

EnviroVibe II

With **'minivib' 15**



PRODUCT SPECIFICATION

CLASS: The **EnviroVibe II** is an articulated off-road vehicle for carrying seismic energy sources. It is hydrostatically driven in a 4x4 configuration.

TIRES: (Four):
Standard: 500/70R24, LI157B, TLR4
Optional: 48x31-20, 14 ply, HF3
Optional: 600/55B-26.5, 20 ply, HF-1

DIMENSIONS:
LENGTH: 274.7 inches (6977 mm)
WIDTH: (Does not include tire bulge at loaded section)
84.7 inches (2151 mm) minimum with 500/70R24 tires
95.7 inches (2431 mm) maximum with 500/70R24 tires
107 inches (2718 mm) maximum with 48x31-20 tires
HEIGHT: 99.2 inches (2520 mm)102 inches with rotating light
WHEELBASE: 120 inches (3048 mm)

COMPONENTS AND ANCILLARY EQUIPMENT

ENGINE: Rear mounted engine is equipped with a lubrication system for operation at steep angles of inclination. The engine protection system automatically idles the Diesel under excessively high temperatures or low lubricating oil pressure.

John Deere 4045HF485 (Tier 3, Stage 3): 173 horsepower (129 kW) @ 2,400 RPM continuous rating.

TRACTION PUMP: Variable displacement, axial piston type, electric displacement control: 4,060 psi (280 bar) continuous; 6,525 psi (450 bar) intermittent, pressure-override control.

DRIVE TRAIN: The **EnviroVibe II** is a full-time 4-wheel drive vehicle. Variable displacement hydraulic motors are coupled to single reduction gearboxes which drive the axles via telescoping driveshafts.

HYDRAULIC MOTORS:
Rear: Axial piston, variable displacement type. 4060 psi (280 bar) continuous; 7400 psi (510 bar) intermittent. Electric motor displacement control via joystick.

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EnviroVibe P15 vibrator specifications.

EnviroVibe II

Front: Axial piston, variable displacement type. 4060 psi (280 bar) continuous; 7400 psi (510 bar) intermittent. Automatic hydraulic motor displacement control via drive system pressure, electrical override.

GEARBOX: Single speed, 2.16:1.

DRIVE AXLES, FRONT & REAR: Outboard planetary type; 19.84:1. Internal wet disc brakes and differential lock.

STANDARD DRIVE TRAIN DYNAMIC PERFORMANCE:

TRACTIVE EFFORT, VELOCITY, & GRADABILITY
At 3500 psi (207 bar), 2400 engine RPM, no ground slippage, standard tires (500/70R24), 414 rev/mi (259 rev/km), GVW 28,230 lbs (12.805 kgf).

SPEED	TRACTIVE EFFORT		VELOCITY		GRADE
	lb	N	mph	km/h	degrees
LO 4WD	20,912	93.019	3.1	5,0	29.6
MID 4WD	8,365	37.208	7.8	12,6	16.1
HI 4WD	4,182	18.604	15.7	25,2	8.5

COOLING: The water-cooled Diesel engine's heat is dissipated via a suction-fan cooled radiator. The hydraulic system oil is cooled with a series mounted radiator capable of dissipating over 56 hp (42 kW) in heat. Optional bypass valving is available for cold weather operation. Chaff screens minimize radiator core fouling.

FUEL: Fuel tank capacity = 100 US gal (375,5 liters).

HYDRAULIC LINES AND VALVING: Hydraulic fluid lines are adequately sized to keep peak flow velocities below 35 ft/sec (10,7 m/s). Large connections use SAE flange fittings for ease of maintenance. Relief valves in critical locations limit peak pressure under dynamic braking conditions to 4,500 psi (310 bar).

BRAKES: The vehicle is equipped with three braking systems:
1. Hydrodynamic braking (normal).
2. Hydraulic wet disc brakes on the axle shafts (service).
3. Spring applied, hydraulically released wet disc brakes on the axle input shaft (parking).

MANEUVERABILITY: Wagon wheel, hydraulic-power steering: ±40°. Suspension of front section oscillates ±15° with respect to rear wheels. Approach angle; 25°. Departure angle; 31°.

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