

INDUSTRIAL VEHICLES INTERNATIONAL, INC

birdwagen

A Hydraulic Drive Articulated 4X4 Vehicle

Liquidator

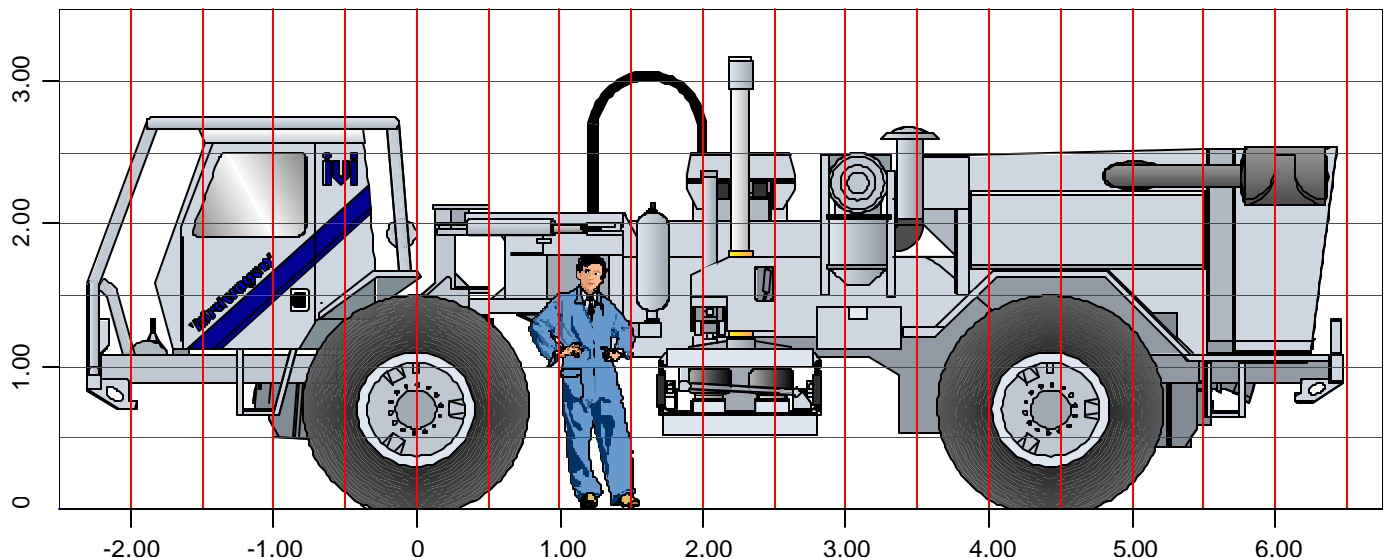
A Very Low Frequency Vibrator

The **LIQUIDATOR** is a very low frequency output vibrator intended as a tool in engineering and earthquake studies. It is the only vibratory source able to output 10,000 pounds force at one hertz and 20,000 pounds of force at two hertz. In addition it can operate conventionally up to 100 hertz. The vibrator is mounted on the MARK IV 'birdwagen'. The 'birdwagen' is an off-road 4x4 buggy with an articulated steering system and an oscillating frame. The cab forward design allows for the convenient operation of both the vehicle and the vibrator source. The rear mounted engine with sound reduction panels allows for a quiet and an efficient operation.



Side View Dimensional Drawing of the 'birdwagen'

meters



'birdwagen'

VISIT THE IVI WEBSITE AT <http://www.indvehicles.com>

'birdwagen' Mark 4 Vehicle

CATEGORY	ENGLISH	METRIC
Total Weight	64,000 Pounds	29.030 kgf.
Front Axle Weight	31,500 Pounds	14.288 kgf.
Rear Axle Weight	32,500 Pounds	14.742 kgf.
System Pressure	3,750 PSI	259 bar
Transmission	Hydrostatic 4 Speed	Hydrostatic 4 Speed
Cab	2 or 3 Man Vista Cab	2 or 3 Man Vista Cab
Turning Radius	26 Feet	7,92 meters
Engine- CAT C15	450 Horsepower @ 2100 RPM	336 kW @ 2100 RPM
Standard Tire	26.5x25 20 ply Super Rock Grip	26.5x25 20 ply Super Rock Grip

Liquidator

CATEGORY	ENGLISH	METRIC
Max Theoretical Peak Force	20,640 Pounds	91.811 N.
Mass Piston Area	6.88 Inches ²	44,4 cm ²
Reaction Mass Weight	13,475 Pounds	6.112 kgf.
Reaction Mass Stroke	Plus or Minus 8 Inches	Plus or Minus 20,3 cm.
Reaction Centering	Hydraulic	Hydraulic
Servo Valve	200 GPM	908 l/m
Servo Valve Pilot Filter	3 Micron	3 Micron
Baseplate Area	6,723 Inches ²	43.374 cm ²
Baseplate Weight - P-wave	6,730 Pounds	3.053 kgf.
Baseplate Weight - S-wave	7,680 Pounds	3.484 kgf.
Lift System Stroke	36 Inches	91,4 cm.
Lift Cylinder Diameter	4.0 Inches	10,16 cm.
Lift Synchronization	Split Crossbeam	Split Crossbeam
Vibrator Pump Flow	140 GPM @ 2100 RPM	530 l/m @ 2100 RPM
Holddown Weight	40,000 Pounds	18.144 kgf.

'birdwagen' OPTIONS

OPTION	DESCRIPTION
Front Winch	Hydraulically powered 20,000 pound winch
Front Winch (High Torque)	Hydraulically powered 30,000 pound winch
Cold Weather Options	Various heaters, covers, and other equipment for cold temperatures
Optional Lighting	Various vehicle lighting configurations for different local requirements
Cab Protective Structure	A cab structure designed to protect the cab in rugged conditions

Specifications are subject to change without notice. All specifications reflect standard equipment.

'birdwagen'

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