

INDUSTRIAL VEHICLES INTERNATIONAL, INC

birdwagen

A Hydraulic Drive Articulated 4X4 Vehicle

HEMI 50

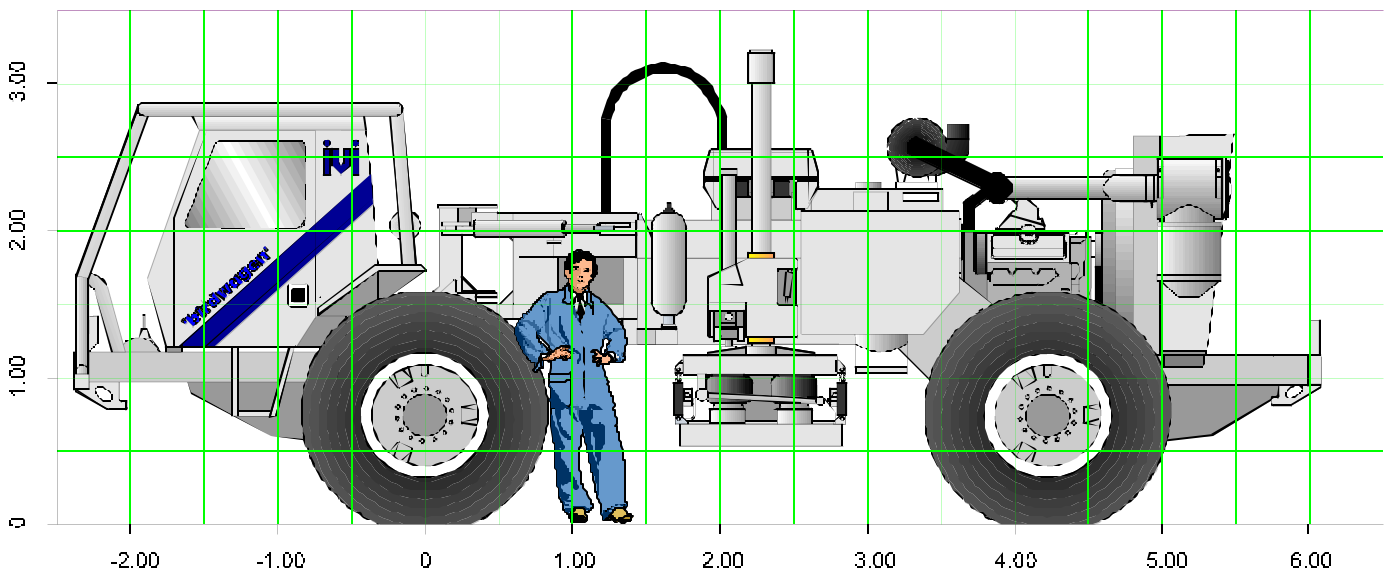
A 50,000 Pound Vibrator

The 'birdwagen' MARK IV off-road carrier with the **HEMI 50** vibrator is an advanced seismic source production system designed for high quality and high production geophysical prospecting. The 50,000 pound output vibrator offers broad band output and a high signal to noise ratio for the deeper surveys. The advanced features include high fidelity output, 4 Speed transmissions, variable speed hydraulic motors, noise limiting systems, and ergonomic operator features. Wagon wheel articulated steering, which was first introduced to the geophysical industry by IVI in 1984, offers safe and reliable off road operation. The unique IVI traction system delivers the massive tractive effort, and the terrain following capability needed in rugged geophysical prospects.



Side View Dimensional Drawing of the 'birdwagen' with **HEMI 50**

meters



'birdwagen'

'birdwagen' Mark 4b Vehicle

| CATEGORY | ENGLISH | METRIC |
|-------------------|---------------------------|----------------------|
| Total Weight | 52,000 Pounds | 23.587 kgf. |
| Front Axle Weight | 25,000 Pounds | 11.340 kgf. |
| Rear Axle Weight | 27,000 Pounds | 12.247 kgf. |
| System Pressure | 3,000 PSI | 204 bar |
| Transmission | 4 Speed | 4 Speed |
| Cab | 2 or 3 Man Vista Cab | 2 or 3 Man Vista Cab |
| Turning Radius | 23 Feet 6 Inches | 7,16 meters |
| Engine - CAT C13 | 400 Horsepower @ 2100 RPM | 299 kW @ 2100 RPM |
| Standard Tire | 28x26 Radial LI 165 | 28x26 Radial LI 165 |

HEMI-50 Vibrator

| CATEGORY | ENGLISH | METRIC |
|---------------------------|---------------------------|------------------------|
| Max Theoretic Peak Force | 50,160 Pounds | 223,123 N. |
| Mass Piston Area | 16.72 Inches ² | 107,9 cm ² |
| Reaction Mass Weight | 5,820 Pounds | 2.640 kgf. |
| Reaction Mass Stroke | 3.0 Inches | 7,62 cm. |
| Reaction Centering | Air Springs | Air Springs |
| Servo Valve | 200 GPM | 756 l/m |
| Servo Valve Pilot Filter | 3 Micron | 3 Micron |
| Baseplate Area | 4,230 Inches ² | 27.290 cm ² |
| Baseplate Assembly Weight | 4,260 Pounds | 1.932 kgf. |
| Lift System Stroke | 34 Inches | 86,4 cm. |
| Lift Cylinder Diameter | 3.25 Inches | 8,26 cm. |
| Lift Synchronization | Split Crossbeam | Split Crossbeam |
| Vibrator Pump Flow | 120 GPM @ 2100 RPM | 454 l/m @ 2100 RPM |
| Holddown Weight | 50,000 Pounds | 22.680 kgf. |

'birdwagen' OPTIONS

| OPTION | DESCRIPTION |
|---------------------------|--|
| Front Winch | Hydraulically powered 20,000 pound winch |
| Front Winch (High Torque) | Hydraulically powered 30,000 pound winch |
| Noise Reduction | Equipment that limits the ambient noise of the 'birdwagen' |
| 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 |
| Cab ROPS | A cab rollover protective structure |

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

'birdwagen'



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