

INDUSTRIAL VEHICLES INTERNATIONAL, INC

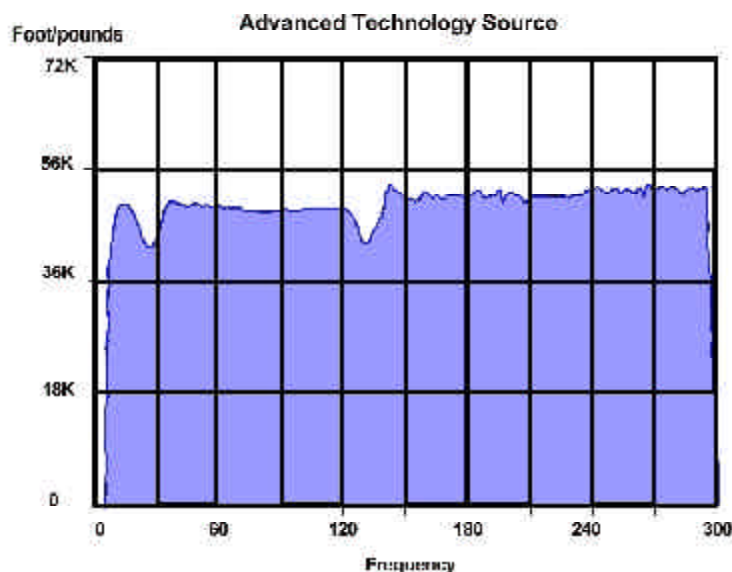
birdwagen

A Hydraulic Drive Articulated 4X4 Vehicle

ATS

A 62,000 Pound Vibrator

The **ATS** represents a group of new technologies which effectively extends the frequency range of traditional Oil and Gas seismic vibrators. Many of the demands for modern geophysical surveys require greater high frequency signal content. Larger and larger vibrators do not address this issue. Most standard vibrators today have a drop in amplitude output above 140 hz. The **ATS** extends this full amplitude output to 300 hz. The design of the **ATS** is similar to the 'minivib' product group, with a circular dome baseplate and a piston-mounted mass assembly. Other design considerations include dynamic hydraulic flow optimization, reduced vibrator mechanical structures, and servovalve enhancement.



A preliminary ATS amplitude spectrum showing a 10 to 300 hz. sweep. As with any measured vibrator spectrum, these results are ground dependent.

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

'birdwagen' Mark 4c Vehicle

CATEGORY	ENGLISH	METRIC
Total Weight	64,000 Pounds	29.030 kg.
Front Axle Weight	31,500 Pounds	14.288 kg.
Rear Axle Weight	32,500 Pounds	14.742 kg.
Traction System Pressure	4,000 PSI	276 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	67x34-25 14 ply	67x34-25 14 ply

ATS Vibrator

CATEGORY	ENGLISH	METRIC
Max Theoretical Peak Force	62,000 Pounds	276,000 N.
Vibrator System Pressure	3,100 PSI	214 bar
Mass Piston Area	20 Inches ²	129 cm ²
Reaction Mass Weight	8,650 Pounds	3.924 kg.
Reaction Mass Stroke	Plus or Minus 1.50 Inches	Plus or Minus 3,81 cm.
Reaction Centering	Air Springs	Air Springs
Servoalve	200 GPM	908 l/m
Servoalve Pilot Filter	3 Micron	3 Micron
Baseplate Area	6,362 Inches ²	41.045 cm ²
Baseplate Assembly Weight	3,875 Pounds	1.760 kg.
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	62,000 Pounds	28.123 kg.

ATS

ATS

'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.

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