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# Gallego Technic SARL

## SERCEL / MERTZ M13S/609 S-WAVE

### SERVO-HYDRAULIC VIBRATOR

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#### Design Features of the Mertz M13S/609 S-Waves Vibrator.

- A rugged M13 S-Wave Vibrator Actuator built to survive most difficult operational requirements.
- A 4x4 rigid-frame vehicle with adequate “hold-Down” weight for a 138 kN (31022 lb.f) P-Wave actuator.

#### VIBRATOR SPECIFICATIONS

- **Actuator Model** : M13 S-Wave
- **Reaction Mass Weight** : 3175 Kg
- **Base plate Weight** : 3629 Kg
- **Base plate size** : S-WAVES
- **Peak Force** : 13749 daN
- **Hold-Weight** : 17799 daN
- **Usable Stroke** : 20.32 cm
- **Frequency range** : 3 – 80 Hz
- **Accumulators, 19 Liters** : 1 HP & 2 LP
- **Vibrator pump, Axial piston, Variable volume with integral charge pump** : Sauer 26 series, Pressure compensated
- **Pump de-stroke system** : Barnes 12 VDC
- **Hydraulic oil filtration** : 3 micron absolute, full flow
- **Oil tank** : Vented with air filter, 114 Litter (30 gal.)
- **Operating oil pressure** : HP 215 bars, LP 12 bars

#### VEHICLE SPECIFICATIONS

- **Vehicle type** : Rigid frame, 4x4 Wheeled vehicle with front & rear steering axle.
- **Engine** : 8V92 Detroit Diesel, 300 hp
- **Transmission** : 2 x Sauer 24 series pumps and motors, 2 x Funk 4-speed gear boxes.
- **Axles** : Rockwell single reduction with planetary hub
- **Brakes** : Front and rear air actuated
- **Vehicle length** : 9 m 25
- **Vehicle width** : 2 m 72
- **Vehicle height** : 3 m 40
- **Speed (Max)** : 25 Km/H
- **Gradability (max)** : 58% (30 Degrees)
- **Fuel consumption (Avg.)** 35 L/hr
- **Fuel tank** : 500 Liters
- **Electrical system** : 12 VDC – 24 VDC
- **Tyres** : 23.5 R 25