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# Gallego Technic SARL

## SERCEL / MERTZ M22/601

### SERVO-HYDRAULIC VIBRATOR

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#### Design Features of the Mertz M22/601 P-Wave Vibrator.

- A rugged M22 P-Wave Vibrator Actuator build 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** : M22 P-Wave
- **Reaction Mass Weight** : 2086 Kg
- **Baseplate Weight** : 1225 Kg
- **Baseplate size** : 122x230x13cm
- **Peak Force** : 13360 daN
- **Hold-Weight** : 13790 daN
- **Usable Stroke** : 7,62 cm
- **Frequency range** : 7 – 180 Hz
- **Accumulators, 19 Litter** : 1 HP & 1 LP
- **Vibrator pump, Axial piston, Variable volume with integral charge pump** : Sauer 25 series, Pressure compensated
- **Pump destroke 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** : 6 V53 Detroit Diesel, 220 hp
- **Transmission** : 2 x Sauer 23 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** : 8.50 m
- **Vehicle width** : 2.50 m
- **Vehicle height** : 3 m
- **Speed (Max)** : 25 Km/H
- **Gradability (max)** : 58% (30 Degrees)
- **Fuel consumption (Avg.)** 28 L/hr
- **Fuel tank** : 360 Litters
- **Electrical system** : 12 VDC
- **Tyres** : 23.1x26 16-ply