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**: 122x230x13 cm
- **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