

NET500

380kW/517Hp - 50tons



SIMPLE MOVING, BETTER WORK



NET500: POWER IN MOVMENT

Newton redefines the rigid dump truck to adapt it to your every need and application. The ideal solution for those who need a machine capable of facing any condition and working scenario. The 3rd and 4th steering axles allow for operation in confined spaces and reduced fuel consumption, while still offering a 27,5m³* load volume within just 11m of length. Equipped with Statera**, the brand-new Newton's suspension/weighing system, the NET500 keeps the business under control while ensuring optimal comfort at full load.

*: SAE 2:1

** : patent pending

POWER UNIT



Engine:

- MTU Diesel OML 473 LA Stage VI; 15,6lt; 6 cylinders in line
- Power: 380kW (517hp) @1.600rpm
- Maximum torque: 2.600Nm @1.300rpm
- X-Pulse amplified pressure common rail injection; Engine brake; EGR; Exhaust gas after-treatment with DOC, DPF, SCR and ASC catalyst and with AdBlue® injection

Gearbox:

- ZF Ecolife Offroad 2
- Electronically controlled automatic 7F+2R
- Maximum turbine torque 3.850Nm and maximum ratio 5,6
- Separate gearbox/retarder cooling circuit
- Integrated hydraulic retarder with 1.900Nm braking torque

Transfer:

- ZF TC27L
- Pneumatic low gear engagement with spring return
- Low gear ratio 1,54
- Front/rear differential lock with ADM2

AXLES AND STEERING



Axles:

- Kessler “Heavy Duty” with floating axle shafts
- Load capacity: 20 tons/axle
- Transverse differential lock on single axle
- ABS integrated in the axle

Steering:

- Danfoss electropneumatic “gps” ready OSPE 160L
- 1st axle steering angle: 34°
- 3rd axle steering angle: 18°
- 4th axle steering angle: 33°
- Steering radius: 8,7m
- Electric emergency steering

STRUCTURE



Chassis:

- Double C in DOMEX 700 MC with connection crossbeams and reinforcements to absorb torsional stresses

Suspensions:

- hydropneumatic with Statera[®] integrated weighing system
- Dedicated 10" touchscreen for weight and daily performance monitoring
- Nominal load: 50.000kg
- Max load: 55.000 kg

Brakes:

- Dry disc brakes with independent circuit
- Parking/emergency brake: passive spring pneumatic

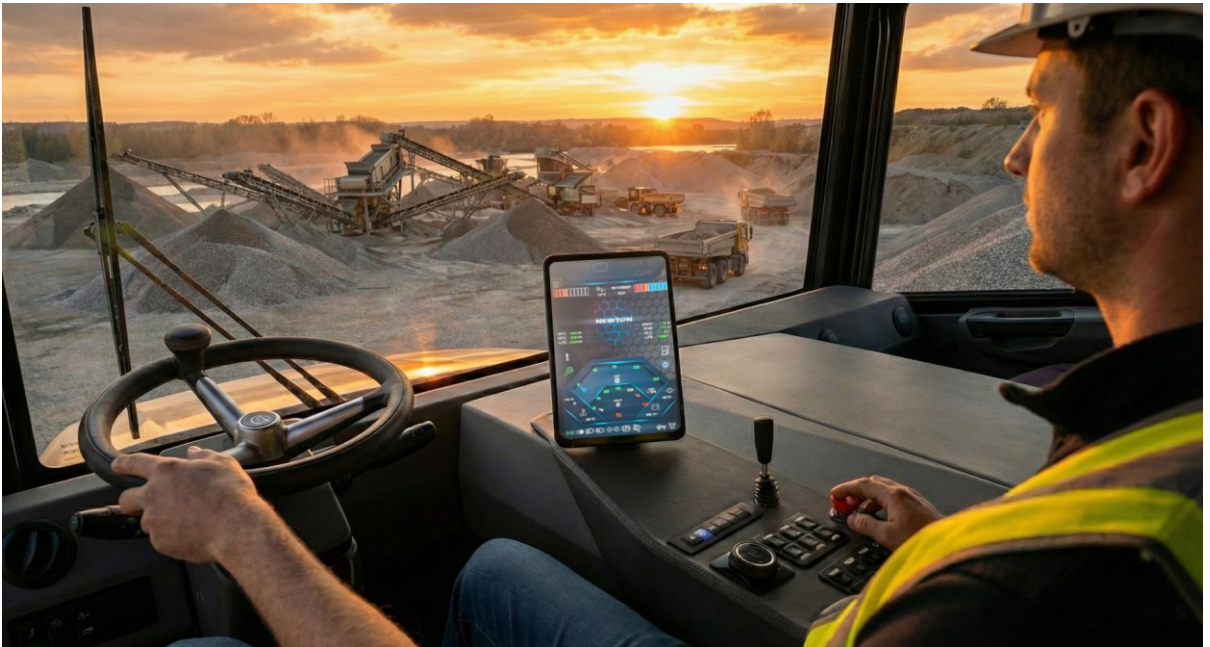
BODY



Body:

- Rear reinforced round body in HB500; floor 10mm, sides 8mm
- Tailgate with hydraulic tilting opening
- Tipping angle: 55°
- Tipping cylinders: 2 front-mounted telescopic
- Pump: 400 l/min max 370 bar
- Tipping time with load: 15s
- Struck capacity: 22m³
- Heaped capacity SAE 2:1: 27,5m³

CABB AND CONNECTION



Cab:

- Mounted on anti-vibration mounts. Tilting and FOPS/ROPS certified
- Seat with pneumatic adjustment and 3-point belt
- Radio DAB+/Bluetooth/USB
- Air conditioning

Technology:

- Newton Network: cloud system allows real-time remote monitoring of every vehicle parameter, from localization to consumption, for data-driven fleet management
- Load control with dedicated 10" touchscreen
- On-panel consumption data
- 12" main touch screen
- Rear Camera and side/front camera option

OPERATIONAL DATA



Weight:

- Curb weight: 25tons (43%-31%-20%-6%)
- Loaded weight: 75tons (22%-26%-27%-25%)

Dimensions:

- Width: 2,98m
- Length: 10,92m
- Height: 3,87m (3,20m without removable cab guard)

Pneumatics:

- 18.00R25

Refilling capacities:

- Diesel: 300lt
- AD Blue: 40lt
- Engine oil: 40lt
- Gearbox oil: 28lt
- Transfer oil: 5,3lt
- Axles oil: 80lt
- Hydraulic oil: 350lt (steering, suspensions and tipping)
- Coolant: 100lt

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