

12000 Series Compacting Truck

the best compacting truck in the world



Carries more. Costs less.



12000NBR

KEY FEATURES:

- Zero emissions battery electric operation
- ZEV automatic transmission
- Electric regenerative brakes with air EBS
- Super-low floor cab
- Web integrated

KEY SPECIFICATIONS:

- GVM:** 12,300kg
- Power:** 110kW electric drive (upgradeable to 220kW)
- Battery Capacity:** 115kWh (upgradeable to 126kWh)
- Wheelbase:** 3500mm
- Height:** 2680mm
- Compacting Bin:** 8m³ rear loading

*Introducing the **ZEV 12000 Series**, the best compacting trucks in the world today, boasting battery electric drive, a super low-floor cab and a single piece chassis/bin.*

Zero Emissions

Full battery electric drive means zero carcinogenic and greenhouse gas emissions. Active regenerative braking ensures brake wear is almost completely eliminated removing hazardous dusts from the effects of braking.

Best Loading Capacity

The compacting and ejecting system maximises available space in the bin and achieves extremely high compacting densities.

The one piece chassis/bin design reduces vehicle weight and improves the weight distribution ensuring maximum loading.

Best Stability

The single-piece integrated chassis/bin design lowers the centre of gravity and the overall profile, greatly improving vehicle stability and reducing wind resistance which increases energy efficiency and improves access to areas with limited headroom.

Best Acceleration/Deceleration

The ZEV 12000 series achieves new levels of performance between load connection points and improved handling in the urban environments it is designed for. The optional all-wheel electric drive systems provide incredibly smooth and unprecedented acceleration and controlled deceleration.

Best Manoeuvrability

The short wheelbase and optional all-wheel smart control steering achieves maximum manoeuvrability in tight areas while minimising energy consumption and tyre damage from scuffing.

Quietest

Electric drive means there is no engine noise. Independent PTO means the hydraulics only operate on demand and are extremely quiet. A quiet vehicle opens up greater working hours and areas.

Safest

The low profile of the ZEV 12000 series minimises the possibility of vehicle rollovers and reduces the likelihood of interference with overhead obstructions.

The low-entry cab eliminates stresses and falls from frequent cab entry and egress and the dual-entry arrangement allows access from either side of the vehicle. The dual-drive option even lets the driver operate the vehicle from either side for greater vehicle loading visibility and safety.

The smart operator interface provides camera views of the vehicle and compactor, while the large wraparound windscreen reduces operator blind spots and the low seating position maximises visibility in urban settings.

Build Options

ZEV 12000 compacting trucks come factory configured as either a side, rear or glass loader with drive configurations of 4x2 and 4x4.

Highest Productivity

The innovative features of the ZEV 12000 series provide the highest productivity for rubbish and recycling collection. The vehicles can complete larger runs in shorter times with higher operator satisfaction with their low entry walk through dual drive cab.

Operators will appreciate the quiet operation, the high speed between loadings, the live PTO with responsive hydraulics, the absence of refuelling stops and the autopark mode which together ensure that more is done with less.

Best Advanced Analytics

ZEV 12000 vehicles are fully web integrated. The vehicle location and all data is available on the ZEV asset management web site. ZEV technical support actively tracks and manages the performance of the vehicle. Business services are available directly from the ZEV host or via the secure host API.

The geo-located data set from the ZEV 12000 includes everything from vehicle speed to weight, allowing for advanced analytics on loading, routes, driver behaviour and safety.

Lowest Maintenance and Downtime

Full battery electric operation eliminates engine servicing.

Regenerative braking means virtually no brake wear. The smooth electric drive and air suspension minimises drive line wear and stress.

Lowest Total Cost of Ownership

The innovative design of the ZEV 12000 results in higher productivity, reduced maintenance and downtime, safer operation and higher resale value.

Best Energy Efficiency

The ZEV 12000 is the most energy efficient compacting truck in the world. The dynamically controlled battery electric drive with regenerative braking and finely tuned hydraulics only consumes power when being used, ensuring the lowest possible energy use.



MOTOR SPECIFICATIONS

Motor: TM4 Motive (medium voltage)
Maximum Output: 110kW (motor can be upgraded to 220kW)
Continuous Output: 66kW (motor can be upgraded to 132kW)
Maximum Torque: 256Nm (motor can be upgraded to 512Nm)
Continuous Torque: 106Nm (motor can be upgrade to 212Nm)
Maximum RPM: 10700rpm
Cooling: Liquid

TRANSMISSION/GEARING

Model: ZEV 4-speed
Type: Four gears forward, one gear reverse
Control: Electronic over air
1st Gear Ratio: 9.9:1
2nd Gear Ratio: 6.6:1
3rd Gear Ratio: 4.05:1
4th Gear Ratio: 2.7:1
Reverse Gear Ratio: 9.9:1

CAB FEATURES

Type: Forward control, all steel construction super-low floor
Seating Capacity: Two
Driver's Seat : Squab seat with integrated three-point belt system
Front Passenger Seat: Squab seat with integrated three-point belt system
Sun Visor: Driver and passenger sides
Windshield Wipers: Electric, dual, intermittent
Ventilator: Forced by electric blower
Rear-View Mirrors Inside: One flat type
Rear-View Mirrors Outside: Two flat type, two convex spotters
Auxilliary Power Socket: 24V equipped
Floor Mat: Vinyl type
Central Locking: Equipped
Heater and Defroster: Equipped
Air Conditioner: Equipped
Power Windows: Equipped
Audio: AM/FM radio with USB docking
Speakers: Equipped
Reversing Camera: Equipped
Load Camera: Equipped

PERFORMANCE

Maximum Road Speed: 107km/h
Peak Gradeability: 33.6% (69% with motor upgrade)
Continuous Gradeability: 12.7% (27% with motor upgrade)

SUSPENSION

Front Suspension Type: Independent with torsion rods
Rear Suspension Type: Independent with torsion rods

BRAKES

Primary Braking System: Electric regenerative
Secondary Braking System: Full air, dual circuit disc brakes for front and rear
Air Dryer: Equipped
EBS: Equipped
Parking Brake: Spring brake acting on rear wheels

WHEELS & TYRES

Wheel Type: Alloy
Rim Size: 10 stud 9 x 19.5
Tyre Size: 305/70R19.5
Number of Tyres: 4

BATTERY

Size: 115.20kWh (upgradeable to 126.72kWh)
Nominal Voltage: 384V
Peak Voltage: 438V
Onboard Charger Type: Single phase liquid-cooled
Onboard Charger Power: 6.6kW upgradeable to 13.2kW
External DC Charger Type: CCS Type 2

SWITCHES

One-key starting-stopping
Lighting
Directional indicator
Wiper and washer
Hazard
Map lamp
Fog lamp
Bin flood lamps
Beacons
Compactor control
PTO
Vehicle direction
Horn button
Autopark

WARNING INDICATORS

Air pressure warning lamp and buzzer
High beam indicator lamp
Turn signal indicator lamp
Parking brake indicator lamp
Hazard indicator lamp
Beacon indicator lamp
Forward/reverse/neutral lamp
Battery low lamp
Electronic system warning lamp
ABS warning lamp
SRS warning lamp
Bin flood lamp indicator lamp
External charger lamp
Back-up warning buzzer
Autopark mode lamp
PTO indicator lamp

INSTRUMENTS

Speedometer with trip meter
Odometer
Battery load gauge
Battery capacity gauge
Coolant temperature gauge
Air pressure gauges

ELECTRICAL

Type: 24V negative earth
DC-DC Converter: 100A
Headlamps: 90mm LED
High/Low Beam: Equipped
Reverse Flood Lighting: Equipped
Day Running Lamps: Equipped
Reading Lamp: Equipped
Air Horn: Equipped

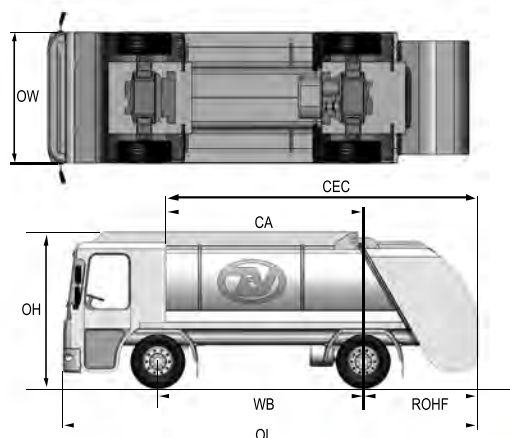
STEERING

Front-wheel velocity-sensitive power steering

AXLE SPECIFICATIONS

Front Axle Load Limit: 6000kg
Rear Axle Load Limit: 6300kg
Front Axle: Independent steering axle with dual steering control
Rear Axle: Dual reduction single speed hypoid powered axle
Axle Gear Ratio: 6.3:1

12000 Series 12000NBR Dimensions



DIMENSIONS - mm

Model: ZEV 12000 Series 12000NBR

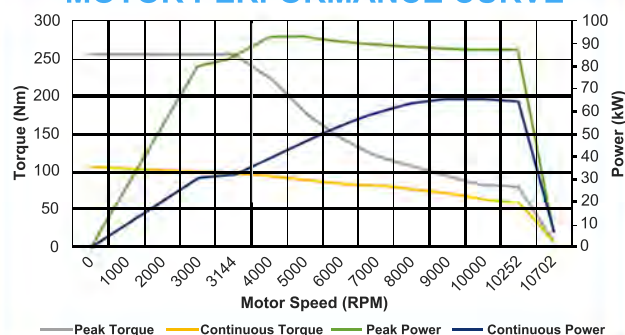
Wheelbase (WB)	3500
Overall Length (OL)	7000
Overall Width (OW)	2200
Overall Height (OH)	2680
Cab to rear axle centre (CA)	3400
Rear overhang (at frame end) (ROHF)	1930
Back of Cab to End of Chassis (CEC)	5330
Front chassis height (HF)	270
Rear chassis height (HR)	400

Chassis mass - kg

GVM12300

Tare6000

MOTOR PERFORMANCE CURVE



MAINTENANCE AND WARRANTY

WARRANTY

24 months, unlimited kilometres

The ZEV 12000 Series compacting trucks come with the full Zero Emission Vehicles maintenance contract. This comprehensive maintenance package covers all call out, maintenance and fair wear and tear repair costs ensuring complete peace of mind in the operation and performance of your ZEV 12000 Series compacting truck.

DISCLAIMER

All effort has been made to ensure the information contained in this brochure was correct as at October, 2017. Zero Emission Vehicles Limited reserves the right to alter any details of the specifications and equipment mentioned herein without notice. Zero Emission Vehicles in so far as it is permitted by law to do so, shall not be liable in any way as a result of any reliance placed by any person on anything contained in this brochure. You should therefore check with Zero Emission Vehicles at the time of ordering your motor vehicle to ensure that colour, specifications, design features and options are available for the vehicle you are ordering. Please note that some options may only be available in combination with others. Zero Emission Vehicles will on request provide up to date information on all accessories, design features, prices and availability.

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