



# GREEN MACHINES 500ze

**MODEL: 500ze (Double battery pack)**



## MACHINE DIMENSIONS

Max Width – Work Mode (over brush plates)	1.105 mm	(44 ins)
Width over Body	1.170 mm	(46 ins)
Max Length (including brushes)	3.400 mm	(133 ins)
Length over Body	3.050 mm	(120 ins)
Max Height (excluding folding beacon)	1.980 mm	(78 ins)
Wheel Base	1.380 mm	(54.3 ins)
Min. swept width (brushes in)	1.380 mm	(54.3 ins)
Max. swept width (brushes out)	1.950 mm	(76 ins)
Brush Diameter	750 mm	(29.5 ins)
Max Hopper Dump (Unload) Height	1.500 mm	(59 ins)

## TRACK & INSIDE TRACK DIMENSIONS

Rear Wheel Inside Track (inner wheel to inner wheel)	890 mm	(35 ins)
Rear Wheels Track (centre of wheel to centre of wheel)	1,000 mm	(37.6 ins)

## TURNING CIRCLE (DIAMETRE)

Kerb to kerb	5.5 m
Over brushes	7.1 m

## VEHICLE WEIGHTS

Front Axle unladen	1,260 kg	(2778 lbs)
Front Axle Max Weight	1,300 kg	(2866 lbs)
Rear Axle unladen	1,000 kg	(2 204 lbs)
Rear Axle Max Weight	1,600 kg	(3527 lbs)
Max Total Permissible Wht (GVW)	2,620 kg	(5 776 lbs)
Kerb wht (ready for sweeping) (No options)	2,250 kg	(4 960 lbs)

## VEHICLE SPEEDS

Forward Travel Mode (Transit)	25 km/h max (15.6 mph)
Reverse	6 km/h max (4 mph)
Forward Sweep (Brushes down)	12 km/h max (7.5 mph)
Forward Travel Mode (Work Mode) (Brushes Up)	16 km/h max (10 mph)
Reverse	6 km/h max (4 mph)

## MAXIMUM HILL CLIMB

20%

## HOPPER

Capacity	1.269 cu mtr Gross/ 0.744 cu mtr Net
System Compaction Ratio	2:1
Clearance for tipping	1.4 mtrs (55 ins)

## NOISE

Inside Cab with Fan at 2400 rpm	82 dB(A)
Drive By Noise (Transit)	61 dB(A)

## WHOLE BODY VIBRATION

Hand Arm	0.48 m/s <sup>2</sup> (Limit is 2.5 m/s <sup>2</sup> )
Whole Body	0.14 m/s <sup>2</sup> (Limit is 0.5 m/s <sup>2</sup> )

Levels comply with Machinery Safety Directive 98/37/EC

## STEERING SYSTEM

Gear type pump (1.1 c/rev) tandem driven with Aux pump off variable speed auxiliary electric motor  
Open centre Hydrostatic steering unit incorporating PRV & cylinder protection valves

## DRIVE SYSTEM

Motor 10kw (nominal) - 25kw (peak) 3- Phase Synchronous Motor

Axle Heavy Duty – Full floating Axle Shafts and Blocking differential with 1:22,28 reduction ratio

## ELECTRICAL DRIVE SYSTEM

Battery Type	Lithium Ion (59 kW hr)
No of Cells	2 x 23 cell pack
Battery Weight	2 x 388 kg in total 776 kg
Battery Charge time (from 75% – 80% depletion)	Single Phase – 7 hrs 3 Phase; – 4 hrs
Battery Endurance under normal working	2 shifts a day is feasible
Battery life (No of Charge cycles)	2000 (equivalent to 5ys normal activity)
Cell Capacity	400 Amp Hr.
Total Theoretical Storage	59 kWh
Usable Storage	46 kWh



## BATTERY CHARGERS

### Single Phase Charger

A depot based charger.  
Use switched interlocked industrial sockets.  
For EU use IEC 60309

Cable: 32A 3 pin wall socket to Charger  
(230V / 16AMP Fused)

### 3 Phase Charger

A depot based charger.  
Use switched interlocked industrial sockets.

Cable: 32A 5pin socket to Charger  
(400V / 32AMP Fused)

## BATTERY HANDLING EQUIPMENT

### Battery Lifting Device

**Includes:**  
2,000 kg short fork with large 80 mm rollers (KA458)  
Battery Stand LH and RH – CD798

## HYDRAULICS

### Oil Specification

Bio-degradable OECD 70% HFDE

### Hydraulic Tank Capacity

13 lts (3.4 US Gals)

### Brush Motor – max speed

105 rpm

### Auxiliary System Max Pressure

Max pressure – 210 bar

## SUCTION FAN PERFORMANCE

### Suction Fan – max RPM

2700 rpm

### Maximum Flow Maximum

3600 m<sup>3</sup>/h (1m<sup>3</sup>/sec)

## NOZZLE & SUCTION TUBE DIMENSIONS

Nozzle Dimensions Suction 520 mm wide x 90 mm high (21" w x 4" H)  
Tube 175 mm (7")

## BRAKES

Front and Rear Brakes  
Brake Fluid Type

Hydraulic Drum Brake with Adjusting System  
DOT4 – SAE J 1703 DOT 4

## TYRES

Size  
Max Loading  
Tyre Pressure  
Tyre Footprint Loadings  
(At GVW) Wheel

155/70 R12C – 8 Ply – Tyres on 4.5J rims –  
750 kg (1650 lbs)  
6.5 bar (94 psi)  
3,40 kg/square centimeter  
(at GVW); 48.3 psi (3.32 bar)

## WATER SYSTEM

Tank Capacity  
Max system Pressure  
Cloudmaker Flow Rate

121 lts (31 US Gals)  
8 bar (118 psi)  
15 l/hr (3.95 US Gals)

## PRESSURE WASHER

Electro/Hydraulic driven high pressure piston pump  
Water Flow  
Max Water Pressure

9 lts/min (2.32 US Gals)  
90 bar (1323 psi)

