

# 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 Wheels 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

Kerb to kerb	5.5 m diam (2.75 m rad)
Over brushes	7.1 m diam (3.55 m rad)

## 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	(2204 lbs)
Rear Axle Max Weight	1,600 kg	(3527 lbs)
Max Total Permissible Wht (GVW)	2,620 kg	(5776 lbs)
Kerb wht(ready for sweeping) (No options)	2,250 kg	(4960 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	76 dB(A)
Drive By Noise (sweeping)	74 dB(A) @7m
Drive By Noise (Transit)	59 d(BA)
Sound Power Reading	
99 dB(A) 2000/14EC	Equates to 74 dB(A) at 7 mtrs

## 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 (1.1cc/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 – Semi 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 5yrs normal activity)
Cell Capacity	400 Amp Hr.
Total Theoretical Storage Useable	59 kWh
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 / 32A fFused)

## 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% HFDU68

Hydraulic Tank

13 lts (3.4 US Gals)

Capacity

Brush Motor – max speed

105 rpm

Auxiliary System Max Pressures

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  
Tube

520 mm wide x 90 mm high (21" w x 4" H)  
175 mm (7")

## BRAKES

Front and Rear Brakes  
Brake Fluid Type

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

## TYRES

Size

155/70 R12C – 8Ply – Tyres on 4.5J rims –

Max Loading

750 kg (1650 lbs)

Tyre Pressure

6.5 bar (94 psi)

Tyre Footprint Loadings  
(At GVW) Wheel

3,40 kg/square centimeter  
(at GVW); 48.3 psi (3.32 bar)

## WATER SYSTEM

Tank Capacity

121 lts (31 US Gals)

Max system Pressure

8 bar (118 psi)

Cloudmaker Flow Rate

15 lt/hr (3.95 US Gals)

## PRESSURE WASHER

Electro/Hydraulic driven high pressure piston pump

Water Flow

9 lts/min (2.32 US Gals)

Max Water Pressure

90 bar (1323 psi)

