GREEN MACHINES 500ze

MODEL: 500ze (Single 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	1,080 kg	(2381 lbs)
Front Axle Max Weight	1,300 kg	(2866 lbs)
Rear Axle unladen	805 kg	(1774 lbs)
Rear Axle Max Weight	1,600 kg	(3527 lbs)
Max Total Permissible Wht (GVW)	2,252 kg	(4965 lbs)
Kerb wht(ready for sweeping) (No options)	1,885 kg	(4156 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^2 (Limit is 2.5 m/s^2)
Whole Body	0.14 m/s^2 (Limit is 0.5 m/s^2)

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 (29.5 kW hr)
No of Cells	1 x 23 cell pack
Battery Weight	408 kg total
Battery Charge time (from 75% – 80% depletion)	Single Phase – 7 hrs 3 Phase; – 4 hrs
Battery Endurance under normal working	1 day normal shift
Battery life (No of Charge cycles)	2000 (equivalent to 5yrs normal activity)
Cell Capacity	400 Amp Hr.
Total Theoretical Storage Useable Storage	29.5 kWh 23 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 Capacity	13 lts (3.4 US Gals)
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^3/h ($1m^3/sec$)

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	Hydraulic Drum Brake with Adjusting System
Brake Fluid Type	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)