

ECOVOLVE

**ED1500
ELECTRIC DUMPER**

OPERATOR'S HAND BOOK



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THIS OPERATOR'S HAND BOOK ONLY CONTAINS BASIC INFORMATION for operating the ED1500. This operator's hand book should be kept with machine at all time. A full and comprehensive instruction guide may be found in the Operator's Manual supplied with the ED1500. The OPERATOR'S MANUAL contains full information on the operational, maintenance, transportation and technical data for the ED1500.



**Operator must read and understand the
OPERATOR'S MANUAL before operating the ED1500**



SAFETY REGULATIONS

Always follow the warnings contained within this Operator's Manual and on the ED1500 to avoid incidents and accidents from occurring unnecessarily.

The following symbols and the signal words **DANGER**, **WARNING**, **CAUTION**, and **ELECTRICAL WARNING** indicate hazards and instructions.

Warning Symbols



DANGER! / WARNING!

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.



CAUTION!

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.



ELECTRICAL WARNING!

ELECTRICAL WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



CRUSH POINT WARNING!

MOVING PARTS WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.



WHEEL CRUSH WARNING!

WHEEL CRUSH WARNING indicates a hazardous situation which, if not avoided, could result in serious injury. Obey all safety messages that follow this symbol to avoid injury.

Operators Personal Protective Equipment (PPE)



SAFETY SHOES REQUIRED

Safety shoes must always be worn when operating the ED1500 to avoid personal injury.

For all other (PPE) follow the guidelines issued by the specific site you are operating the ED1500 on.



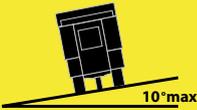
SKIP STICKER WARNING SYMBOLS



Indicate change of direction by using hand signals.



Danger! Don't drive with the skip in the raised position



Max 10° **Danger!** Risk of over turning on **Max Gradient 10°**



Danger! High level of risk which could result in death or serious injury if they are not avoided.



Max 15° Drivable uphill/downhill **Max Gradient 15°**



Warning! Don't exceed the max load rating **1500kg / 3306 Lbs**



Danger! When unloading the skip in the raised position. Keep clear of the risk zone



DANGER! stand clear while being loaded



Do **NOT** power wash

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TILLER CONTROLS



Tiller in start position. (Fig 2)



Beacon Light & Motion buzzer ON/
OFF switch. (Fig 3)



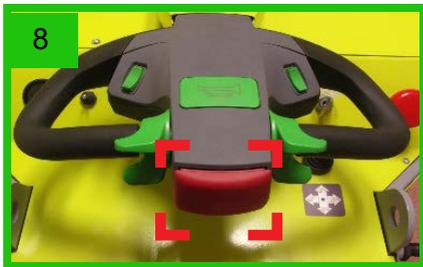
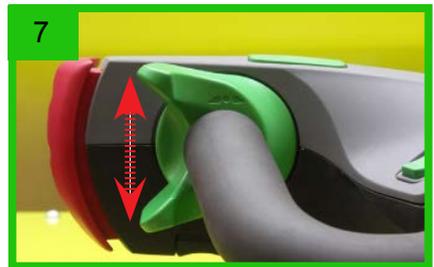
Speed Switch. Two options high and
low (Fig 4)



Horn. (Fig 5)



Traction paddles. UP forward /DOWN reverse. (Fig 6-7)



EMR REVERSE – When Pressed IN will STOP the ED1500, and move it forward away from danger. (Fig 8-9)



DASH CONTROLS

Multi-functional display. Displays battery discharge (BDI), hour meter and error messages.(Fig 10)



Multi-functional display metre. (Fig 10)



Light switch. (Fig 11)

Key start. To power up the ED1500, first check that the emergency stop button is in the UP position, then turn the start key clockwise. (Fig 12)



Emergency stop button. (“E-stop”)

Press the E-stop button to immediately interrupt all powered functions. Use the E-stop during operation if the travel or skip functions do not respond normally to operator commands. (Fig 13-14)



ON POSITION



OFF POSITION

Skip lever.

The skip lever has four positions.

1. pull the lever back to raise the skip.
2. push the lever forward to lower the skip
3. push the lever to the right to tilt the skip out
4. push lever to the left to tilt skip in. (Fig 15-16)



RAISE

LOWER



TILT IN

TILT OUT

OPERATOR'S SAFETY RAILS & PLATFORM

Operator's platform

In the **down** position the operator can operate the ED1500 standing on the platform, in the **up** position the operator can walk behind the ED1500. (Fig 17-18)

Ride on mode: Operators platform **Must be** in the **Down** position.

Walk mode: Operators platform **Must be** in the **Up** position.



Operator's safety rails

For the operators safety the dumper is fitted with two retractable rails as shown.(Fig 21)

Ride on mode: Safety rails **Must be** in the **Up** position.

Walk mode: Safety rails **Must be** in the **Down** position. (Fig 19-21)



SAFETY RAIL LOCK

CHARGING

Charging

When charging the ED1500 the operator must determine what power source is being used on the work site 110V or 240V. **If in doubt, ask the supervisor.** Both the 110V and the 240V charging cable has a blue coupler, this is to be connected to the ED1500 charging point first and then the remaining plug is plugged in to the power source outlet socket. (Fig 24-26) Charging the battery is covered in chapter 6 of the **Operator's manual.**

To ensure maximum performance and life of AGM battery. Charge the battery pack fully before use.



STEERING & PARKING

Steering

The tiller head of the ED1500 can move from left to right as required when steering the ED1500, this will turn the traction wheel in the direction desired. (Fig 27)



Parking

In the interest of safely parking, it is the operator's responsibility to **ensure** the ED1500 is parked in a **safe manner** and not obstructing other traffic or people.

When parking the ED1500,

- The start key must be turned anticlockwise to power off, and removed from the machine.
- The E-stop button must be pushed in to the off position, to further ensure isolation of the machine. (Fig 14)
- The Safety arms and the Step should be put in the retracted position.
- If parking for long periods of time, the ED1500 should be in a sheltered area or indoors.
- If parking on an incline, use the chock provided. (Fig 35)



Greasing

The ED1500 is fitted with 17 grease nipples which can be located at all moving joint.

To grease simply remove the grease nipple dust cap. (Fig 36)

Give each point 1 squirt of grease and replace dust cap.



TRANSPORTATION OF MACHINE

The ED1500 is easily transportable. The operator's platform and side supports can be folded down for ease of transportation.



WARNING!

When **LOADING** the ED1500 on a suitable vehicle ensure that the following points are adhered to.

- Clean the ED1500 to reduce the hazard of dirt and debris falling from the machine during transport.
- Confirm that the transport vehicle is serviceable for the transport task and that it is rated to carry a **Mass of 1.5 tons or 3306 Lbs**
- Move the ED1500 slowly and follow directions from people assisting with loading and alignment on the transport vehicle.
- Secure the ED1500 to the transporter using only the ED1500s anchor points.



WARNING!

When **LIFTING** the ED1500 on to a suitable transporter ensure that the following points are adhered to.

- Confirm that the lifting device has adequate lifting capacity and reach to perform the lifting operation.
- Clean the ED1500 to reduce the hazard of dirt and debris falling from the machine during lifting.
- Use **ONLY** the lifting points as described in this chapter 8.3 to lift the ED1500.

LIFTING & ANCHOR POINTS

The unladen weight of the dumper is 1500kg /3306Lbs.

The ED1500 has two lifting points (Fig 28) and five anchor points which are used to lift and secure the machine when transporting. The two lifting points, as indicated below  are designed so that the machine can be lifted safely on to a suitable transporter. The five anchor points  are designed to anchor the machine. The assigned **lifting and anchor points must be used** in conjunction with approved straps or chains. At all times in transportation the ED1500 **must** be anchored.

Lifting

When using the lifting eyes, it is advised to use a “D” shackle Fig 29 to connect securely to them, this gives easier safe connection for the chain hook when lifting. Fig 30.



Anchor

While being transported it is important to ensure the ED1500 does not move, the five anchor points provided should be used to best effect, front and back of the machine, using certified slings and chains. See Fig 31-34.



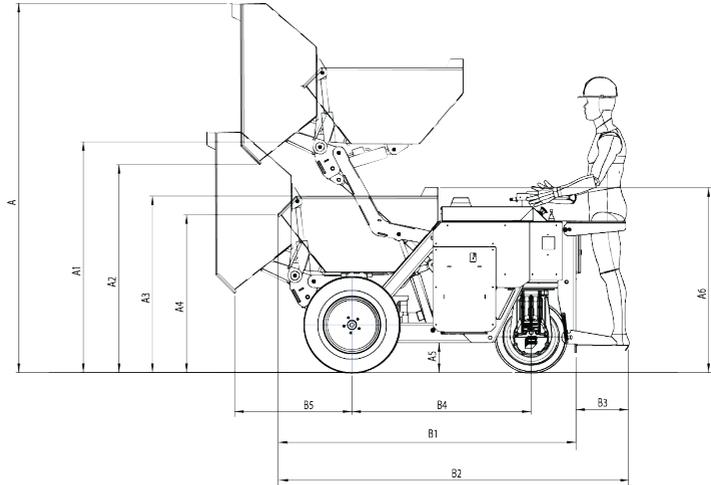
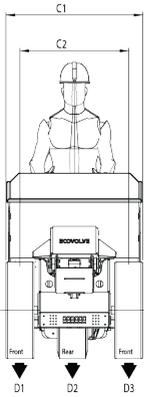
OPERATOR'S DAILY/WEEKLY CHECK

1. Charger status
2. E-Stop.
3. Hydraulic Hoses and Couplers for Leaks.
4. Operators Platform and Safety Rails
5. Body protection switch.
6. Dash display is working correctly.
7. All Function Test.
8. The function of the toggle switch.
9. Buzzer and Sounder.
10. Check for Damages.
11. Check for Lubrication.



It is the operator's responsibility to report any faults observed to the site supervisor. The operator's weekly check list is covered under relevant section of the Operator's manual supplied with the Ed1500.

METRIC KEY MEASUREMENTS AND GROUND PRESSURE

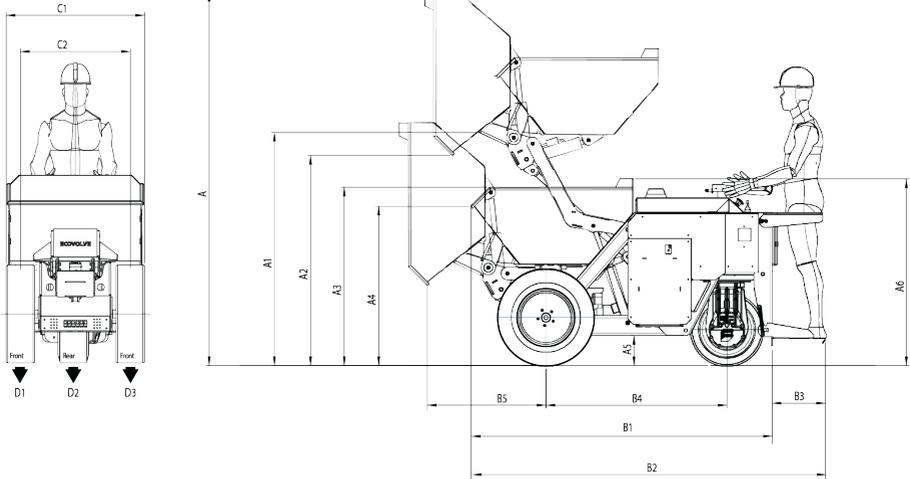


	A	A1	A2	A3	A4	A5	A6
mm	2900	1800	1600	1300	1150	210	1340

	B1	B2	B3	B4	B5	C1	C2
mm	2245	2575	330	1326	700	1175	975

Ground Pressure (Kg)	D1 (Front)	D2 (Rear)	D3 (Front)
Unladen weight 1500Kg	370	780	370
Laden weight 3000Kg	970	1060	970

IMPERIAL KEY MEASUREMENTS AND GROUND PRESSURE



	A	A1	A2	A3	A4	A5	A6
in	114	71	63	51	45	8.3	53

	B1	B2	B3	B4	B5	C1	C2
in	88.4	101.4	13.0	52.2	27.5	46.2	38.4

Ground Pressure (pounds)	D1 (Front)	D2 (Rear)	D3 (Front)
Unladen weight 3300 Lb	816	1720	816
Laden weight 6600 Lb	2140	2330	2140

ED1500 EUROPEAN CE CERTIFICATE

EU Declaration of Conformity

We,

EcoVolve Ltd

Of,

Dublin Road, Ballybrittas, Co. Laoise, Ireland

Declare under our sole responsibility as the body authorised to prepare the technical file for the product:

ED 1500 High Tip Electric Dumper

Complies with the applicable EHSR's of the **2006/42/EC – Machinery Directive and its amending directive**

We declare the technical file for this machine was compiled according to Appendix VII Part B and undertake to forward these to market monitoring authorities by request via our technical department. Commissioning of the machine is acceptable as it complies with the provisions of all applicable EC directives. This declaration is invalidated by any modification outside the scope of those intended by the manufacturer.

This declaration is invalidated by any modification outside the scope of those intended by the manufacturer.

For the intended purpose to

Handling and dumping of construction waste

Authorised representative for the compilation of the relevant technical documentation and issuer of EC Declaration of Conformity:

Signed: *Sean Breen* Date: *24-9-16*

EcoVolve Ltd

Dublin Road

Ballybrittas

Co Laoise

Ireland



Place of issue: **Republic of Ireland**

