



Delmer B.V.
Hogeschoollaan 231
5037 GC Tilburg
The Netherlands

**Tools & Equipment
For Retail and Craftsman**

Delmer Electric Mini Dumper Manual & CE



Thank you for purchasing a new E dumper.

We have done our utmost to ensure your E dumper will be the most trouble-free and productive machine you will ever use. Please carefully read through this entire Operator's Manual before using this unit. Pay special attention to the cautions and warnings.



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HINTS FOR SAFE OPERATION

- DO** study this manual before operating your E dumper.
- DO** check all nuts, bolts, and wheel studs regularly.
- DO** use appropriate work clothing, including a protective helmet and safety shoes.
- DO** exercise extreme caution with the controls when working on steep or slippery surfaces, especially when people are near the working area.
- DO** always drive the machine with both hands on the steering handlebar.
- DO** ensure that all safety guards are in place when operating the E dumper.

ATTENTION

- DO** keep the E dumper free of any accumulation of dirt, grease, oil, or other flammable materials.
- DO** connect the dumper to the supplied battery charger after use. The battery charger should remain powered up and connected to the E dumper until the next use to ensure the batteries are fully charged. Note that the drive motor is inhibited while the battery charger is plugged into the E dumper socket.

SAFETY

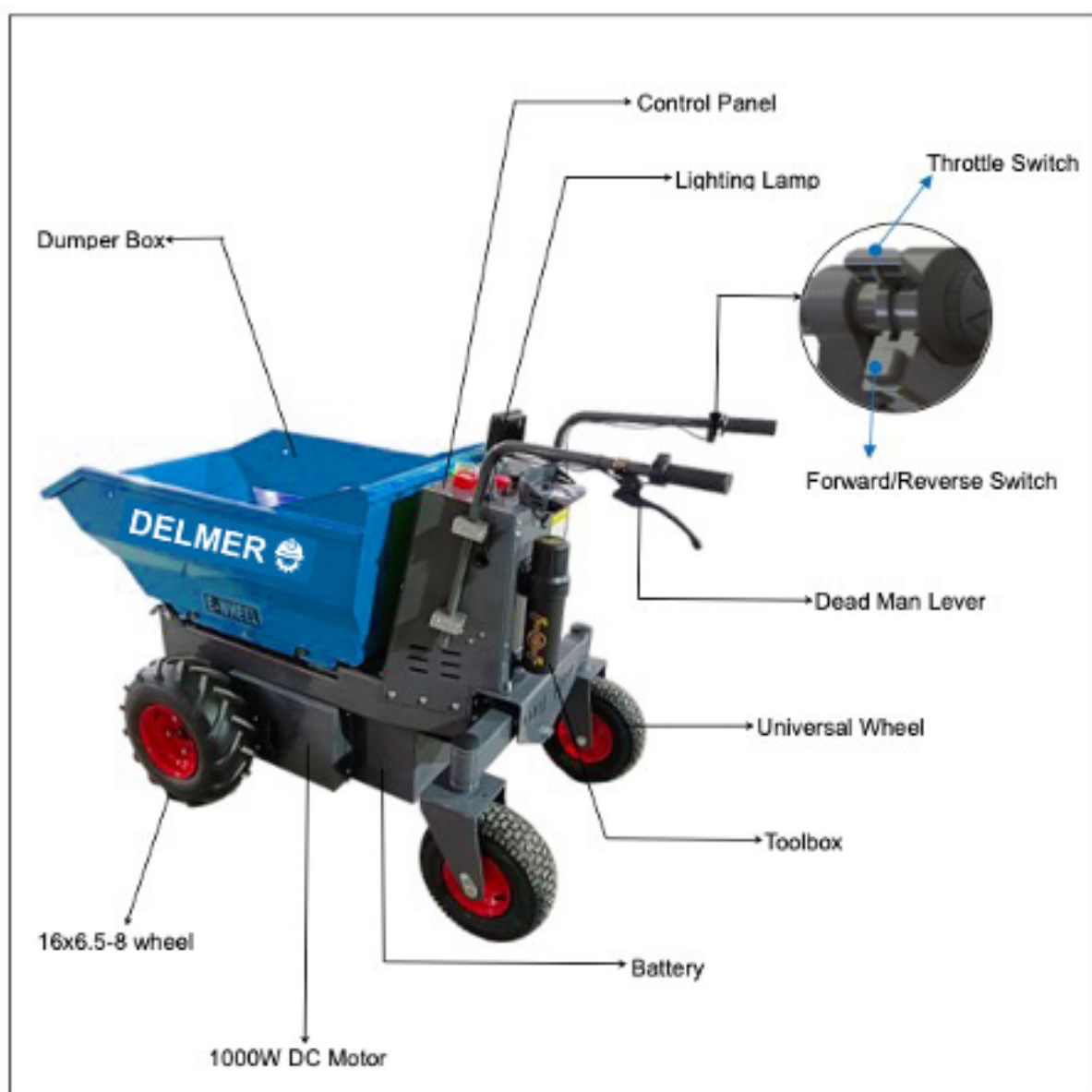
- DO NOT** allow anyone lacking experience to operate your E dumper.
- DO NOT** carry passengers on your E dumper.
- DO NOT** start work without completing the daily maintenance checks.
- DO NOT** operate the E dumper without exercising appropriate safety precautions.
- DO NOT** use other types of battery chargers or batteries.
- DO NOT** pressure wash directly onto the dumper's electronics.

BE SAFE: USE COMMON SENSE AT ALL TIMES.

Specifications

Model	EMD500	Forward speed 1	2.5 km/h
Power	1000W Brushless DC motor	Forward speed 2	5.3 km/h
Battery	48V 20Ah Lead-acid Battery	Forward speed 3	6.5 km/h
Loading Capacity	500 kg	Reverse speed	2.0 km/h
Wheel size	Front 6.50-8, rear 5.00-6	Overall size	1771x891x1114 mm
Tipping	Hydraulic power	N.W / G.W	250 / 280 kg

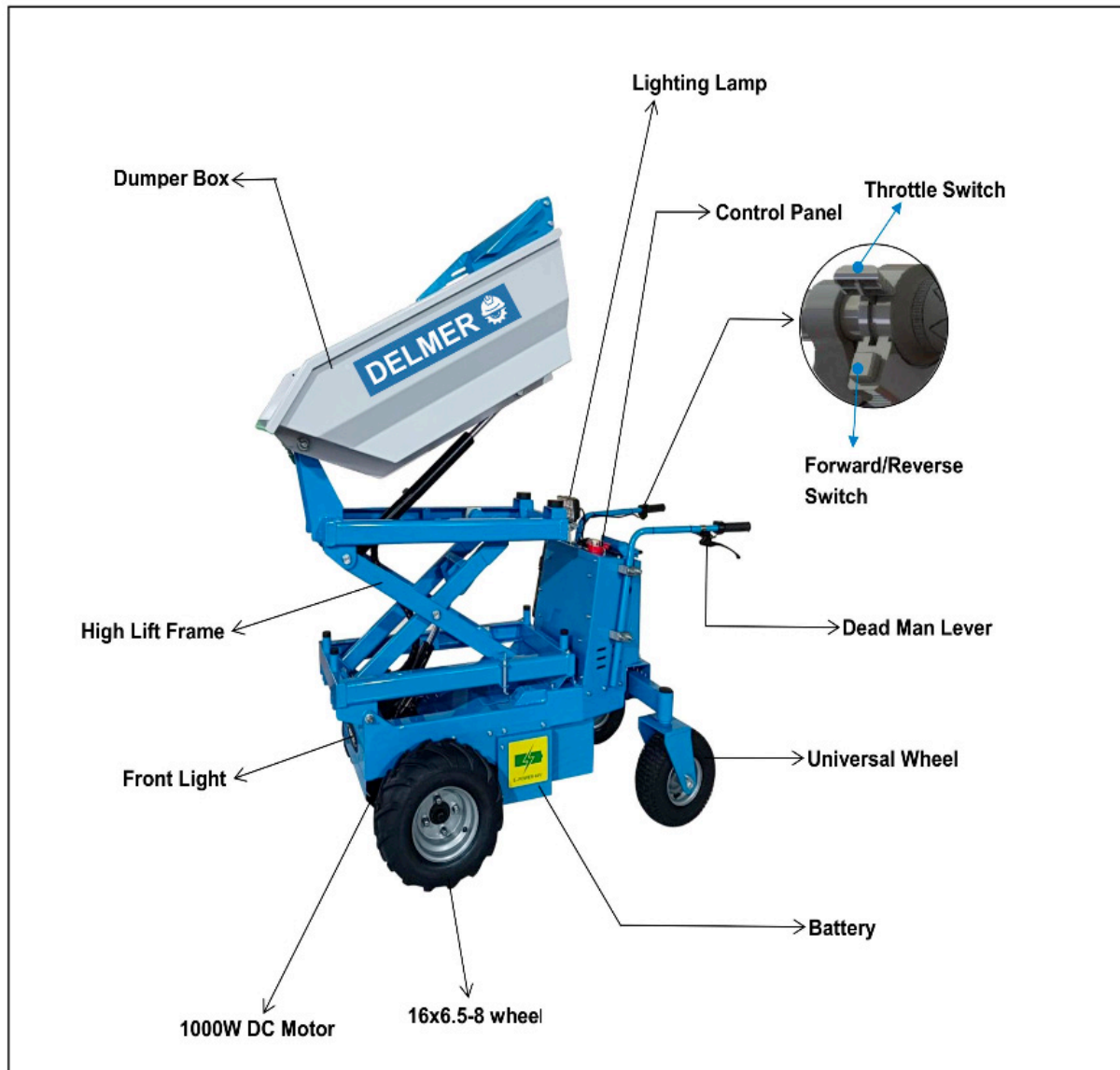
Features and Controls:



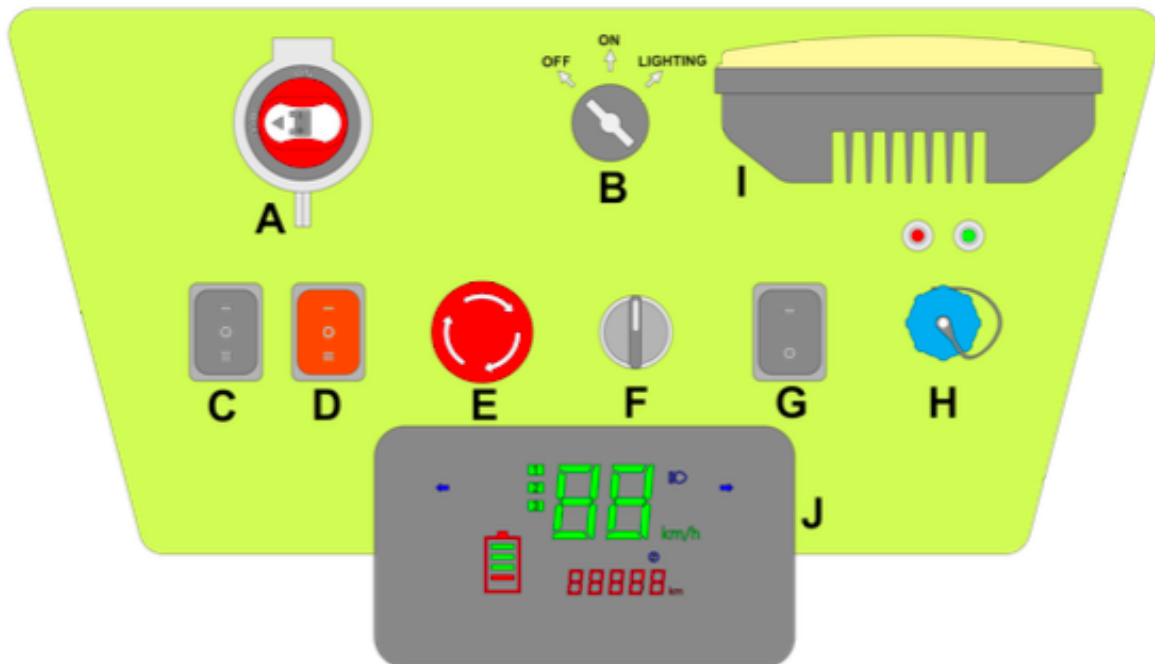
Specifications

Model	EMD500HL	Forward speed 1	2.5 km/h
Power	1000W Brushless DC motor	Forward speed 2	5.3 km/h
Battery	48V 20Ah Lead-acid Battery	Forward speed 3	6.5 km/h
Loading Capacity	500 kg	Reverse speed	2.0 km/h
Wheel size	Front 6.50-8, rear 5.00-6	Charging time	6-8 hours
Tipping	Hydraulic power	Overall size	1708x874x1258 mm
Max. lifting height	1.5 m	N.W / G.W	308 / 350 kg

Features and Controls:



Control Panel



A: Main Power Switch

Turn the switch to ON/OFF position to power the machine on or off.

B: Key Switch

Turn the key to the ON/OFF position to control the circuit. The LCD instrument panel will be on when the key is in the ON position. The far-right position is for lighting.

C: Hydraulic High Lifting Switch

— Empty

≡ Reset

D: Hydraulic Tipping Switch

— Empty

≡ Reset

E: Emergency Stop Button

Press this button in case of emergency to stop the machine.

F: Speed Select

Choose speed 1, 2, or 3.

G: Lighting Switch

- Headlight is on
O Headlight is off.

H: Charging Interface

Charge the battery when it is low.

I: LED Headlight

The 48V 8pcs lamp beads LED headlight ensures safe work at night.

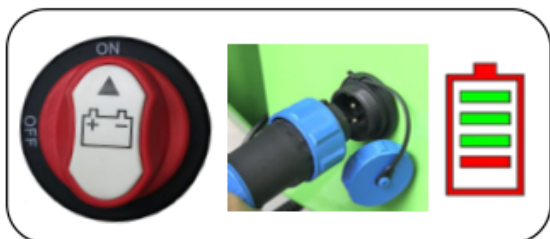
J: LCD Instrument Panel

Monitor the status of the dumper, including battery power, travel speed and ODO meter.

Operating Instructions

Getting Started:

1. For first-time use, switch on the main power.
2. Charge the machine until the battery symbol indicates a full load.

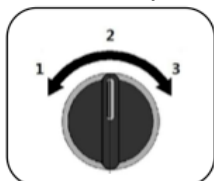


To Move Forward:

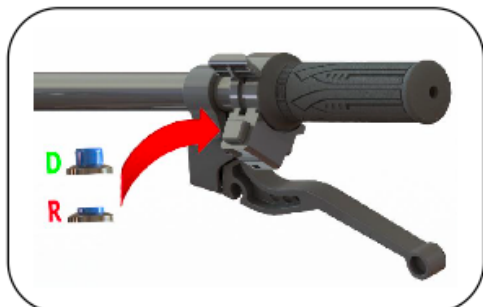
1. Turn the key switch to the ON position.



2. Choose the speed on the panel:
 - 1: Max speed 2.5 km/h
 - 2: Max speed 5.3 km/h
 - 3: Max speed 6.5 km/h



3. Check the Forward/Reverse Switch on the right control handle and confirm the button is in the pop-up state (D).

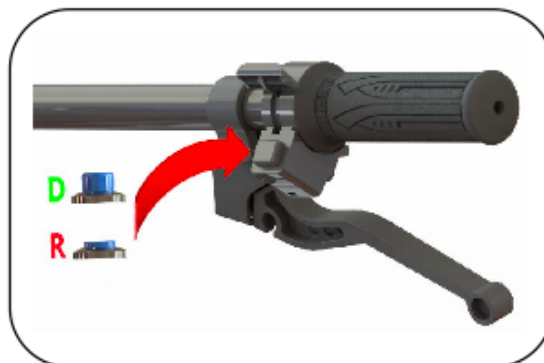


4. Slowly pull the left Dead Man Lever upward while pressing the thumb switch. The dumper will move forward.

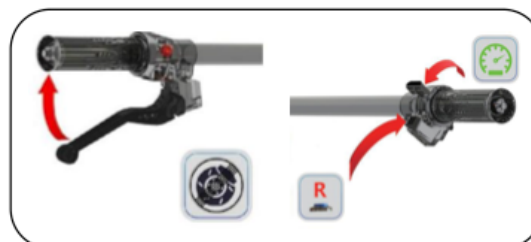


To Reverse:

1. Press the Forward/Reverse Switch to the R status. There will be a beeping alarm from the machine.

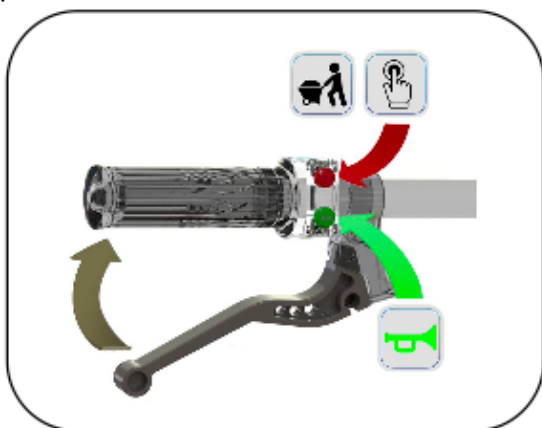


2. Slowly pull the left Dead Man Lever upward while pressing the thumb switch. The dumper will move backward.



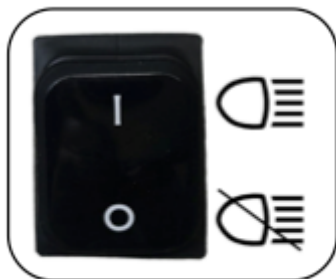
Push Mode & Horn Switch:

1. After powering on, press the red button on the left handle and pull the left Dead Man Lever upward to enter push mode.
 - Use push mode when there is a wall in front of you or in narrow passageways to avoid safety hazards.
2. Press the green horn button to remind pedestrians or vehicles.



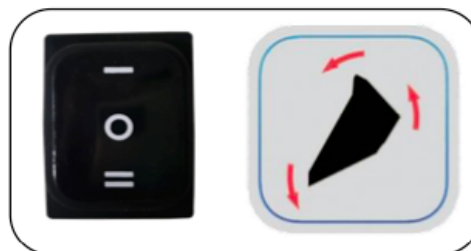
To turn on the Light:

1. Turn the key to the far right to turn on the front light.
2. Press the black button under condition 1 to turn on the small light. If the front light is not on, the small top light will not turn on either.



To Empty / Reset Skip:

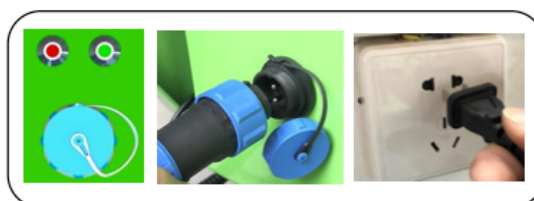
1. Stop the machine and press the Hydraulic Tipping Switch on the control panel.
 - Empty
 - = Reset



Please note! Ensure no one is in front of the E dumper.

To Charge the Battery:

1. Connect the power line to the charging interface, then plug it into the main power.
2. After charging, disconnect the plug first, then disconnect the power line from the charging interface.



Please Note! Charge the battery immediately when the voltage value on the dashboard drops below 44V. Failing to do so will severely damage the battery and shorten its life cycle. It may even cause the battery to become unchangeable.



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Maintenance

Routine checks of your E dumper will ensure trouble-free operation with less downtime. A daily check takes only minutes but could save you hours.

Component	Daily	Weekly
State of battery charge	√	
Control Cables	√	
Condition of wiring		√
Tire Pressure		√
All Nuts/Bolts		√
Brake System		√
Charger		√

Tire pressures: Front wheel 30 psi

Storage

If the machine will not be used for more than 30 days, consider the following for proper storage:

1. Fully charge the batteries before storage and charge them monthly.
2. Keep the batteries clean and dry. Do not store the machine in a wet environment.
3. Protect the batteries from overheating and flames to avoid explosion hazards.
4. Use clean cloths to wipe the outside of the machine and keep the air vents clear.
5. Store the unit on flat ground in a clean, dry building with good ventilation.
6. Do not expose the electric dumper to direct sunlight during storage.
7. Disconnect the batteries from any electrical circuit and place them in a cool, dry place.
8. Separate the connectors and cables from the terminals before storing the batteries.
9. Always turn off the main power switch during storage.



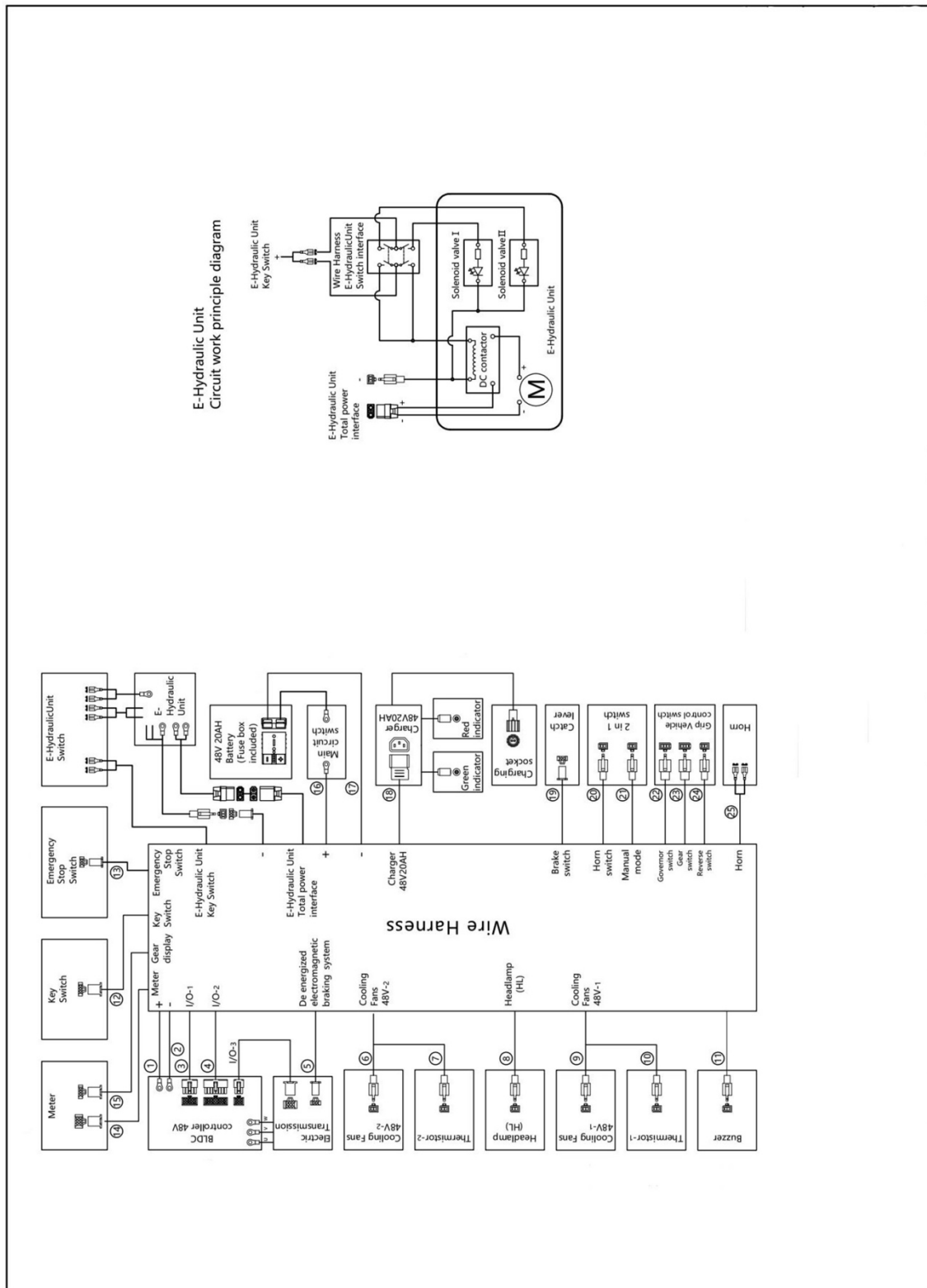
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Troubleshooting

Problem	Possible Cause	Solution
Machine does not run. Machine was running but suddenly stopped. Short run time (less than 1-3 hours per charge.) Machine runs sluggishly. Battery lights do no illuminate.	Undercharged battery.	Charge the battery. A new battery should have been charged for at least 12 hours before using the machine for the first time. After first time use, recharge the battery until the green charge light illuminates. Check all connectors, make sure the charger connector is plugged into the charge interface, and that the charger is plugged into the outlet. Make sure power flow to the wall outlet is 'ON'.
	Charger is not working.	There is no sure way to tell if your charger is working unless you have a voltmeter. If you suspect there is a problem with your charger, contact us via email info@delmer.nl
	Loose wire or loose connectors.	Check all wires and connectors. Make sure the motor harness connector is plugged into the battery, and that there are no loose wires.
	Dead battery.	Charge the battery as showed in the instruction manual.
	Motor damage.	
	Overcharged battery.	Do not charge the battery longer than 30 hours. If you suspect damage due to overcharging, contact us.
	Machine is overloaded and/or running conditions are too stressful.	Make sure not to overload the machine, maximum capacity is 500kg or run in a less stressful environment.
Sometimes the machine doesn't run but other times it does.	Loose wire or connector.	Check all wire connections to make sure they are tight.
	Motor or electrical damage.	Contact us for diagnosis and/or repair.
Battery makes a sizzling or gurgling noise when charging.	It is normal for the batteries to make noise or swell slightly while charging and is not reason for concern.	No action required.
		If your battery does not make noise or swell slightly during charging, it does not mean that it is not accepting the charge.
One or more tires are flat.	Tire has lost air.	Inflate the tire with proper quantity air.
	Tire puncture.	Patch or replace damaged inner tube.
	Leaky tire air valve.	Replace or tighten tire air valve.
Machine feels loose or less solid than initial assembly.	Hardware has become loose.	Retighten all hardware using tools.

Circuit Diagram





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**Tools & Equipment
voor Vakhandel en Vakman**

Certificate of Conformity

Certificate number: 4Q210427.WKPUW10

Test report / technical construction file nr.: TCF-WKPT210420B-MDEMC

Certificate holder:

Delmer B.V.
Hogeschoollaan 231,
5037GC Tilburg,
Nederland

Certification mark ECM:



Product: Mini Dumper

Model(s): EMD500, EMD500HL, EMD3004x4

Conformity assessed according to standard(s):

EN ISO 12100:2010, EN 60204-1:2018,
EN IEC 61000-6-1:2019,
EN 61000-6-3:2007/A1:2011/AC:2012

Related to CE directive(s):

2006/42/EG (Machinerichtlijn)
2014/30/EU (Richtlijn Elektromagnetische Compatibiliteit)

Remark: Dit document is vrijwillig uitgegeven op verzoek van de fabrikant. Het is onze mening dat de technische documentatie, ontvangen van de fabrikant, voldoet aan de vereisten voor het ECM-certificeringsmerk. Het hierboven afgebeelde conformiteitsmerk kan op de producten worden aangebracht volgens de ECM-regeling met betrekking tot de uitgifte en het gebruik ervan.

Additional information and clarification on Marking:



The manufacturer is responsible for the CE marking process and should refer to a notified body if necessary. This document is issued based on the ECM Voluntary Mark regulations for product certification. RG01_ECM rev.3 available at: Entecerma

Issue date: 27 april 2021
Expiry date: 26 april 2026

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