



# EasyLoad



**MANUAL**

# EasyLoad



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## 1 Introduction

Congratulations with your purchase of your EasyLoad. You can easily load and unload your vehicle with the EasyLoad. For the installation we recommend using a recognised installation company and the "EasyLoad installation instructions".



Carefully read the manual before commissioning the product.

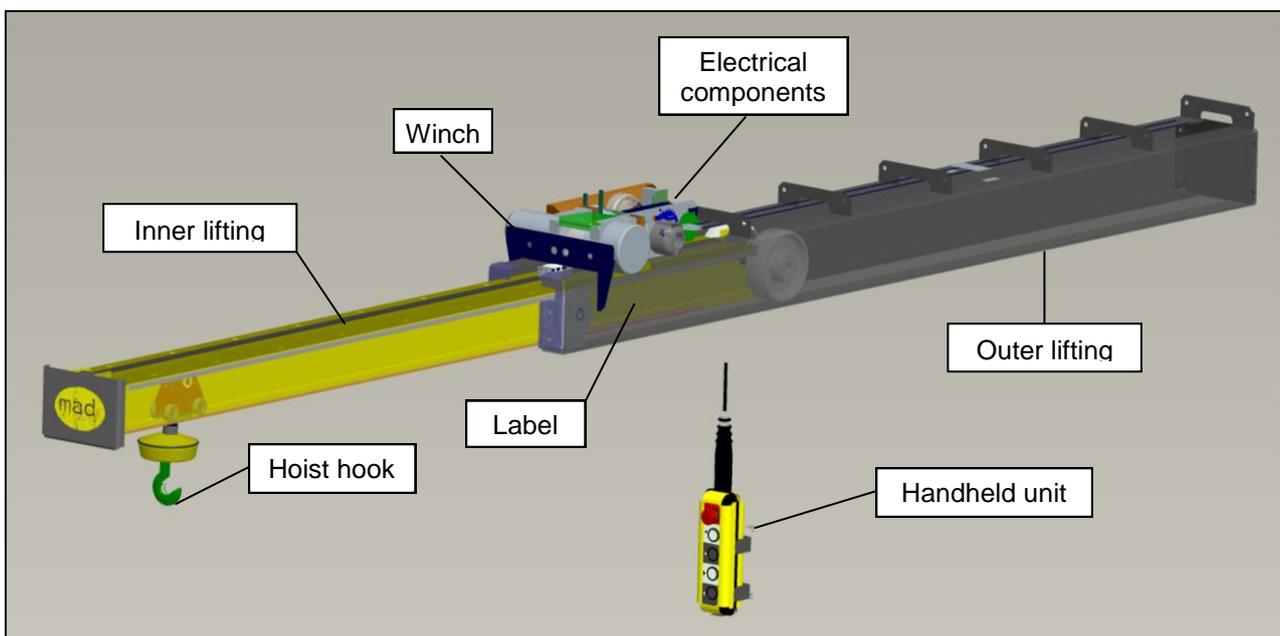
### 1.1 Origin and year of production

Every EasyLoad will carry the label below that specifies a unique serial number:

		<b>MAD Holding BV</b>	
<a href="http://www.mad-easyload.com">www.mad-easyload.com</a>		Veenendaal The Netherlands	
<b>EasyLoad</b>		V DC	12
Type	EL-250-XXXXXX	kW	1.2
No,	690XXX	A	100
Year	2010		
Patent	NL-1014332 EP-1123893		

The label can be found on the right-hand side of the outer lifting arm under the winch.

### 1.2 Overview



## 2 Safety



### 2.1 Safety instructions

- Carefully read all instructions before use.
- The EasyLoad must have been installed by an organisation with sufficient expertise and in accordance with the included installation manual.
- Check the EasyLoad visually for irregularities before every use. (Twisted cables/damage, etc.) If in doubt, contact your supplier.
- Do not use the EasyLoad if it is seriously damaged.
- Do not use the EasyLoad when defects are found and have it repaired by an expert.
- Have any repairs and maintenance be performed by an expert in the area of lifting.
- The EasyLoad may not be used for anything else than loading and unloading the vehicle.
- Ensure the hoisting cable is always under tension to prevent the cable running out or twisting.
- Only use approved/certified hoisting equipment (straps, hooks, chains, etc.).
- Wear sturdy gloves when grabbing the steel cable.
- Do not touch the load or steel cable when lifting or lowering.
- When using the EasyLoad, ensure that no parts of your body are under the load.
- Never lift more than 250 kg.
- People may not be lifted.
- Only lift in the vertical direction.
- Avoid excessive swinging of the load.
- Stop the lifting when there is an indication that a hoisting cable is twisted, that there is an overload situation or that there are other faults.
- Do not drive the vehicle when a load is suspended from the EasyLoad.
- Ensure the load is fastened correctly before driving.
- Do not fasten the load to the EasyLoad or frame.
- Always place the hoist hook in the top position. The hoist hook swinging may possible cause damage to the vehicle or load.
- The EasyLoad must be fully retracted during driving.
- Do not expose the inner lifting arm too long or to too much water.
- Do not expose the EasyLoad to chemicals.

### 2.2 Emergency stop

If the emergency stop is pressed, the EasyLoad will be disconnected from the power supply. The power supply can again be activated by turning the button of the emergency stop to the right.



### 2.3 Maintenance and inspections

In principle, the EasyLoad is maintenance free. An annual inspection, however, must be performed by an appropriately authorised inspection body. A maintenance card is included on page 12 where the annual overhauls can be signed off.

## 2.4 Safety symbols on the EasyLoad

			
Suspended loads	Safety footwear mandatory	Observe the use instructions	Maximum load 250 kg

## 2.5 Workplace

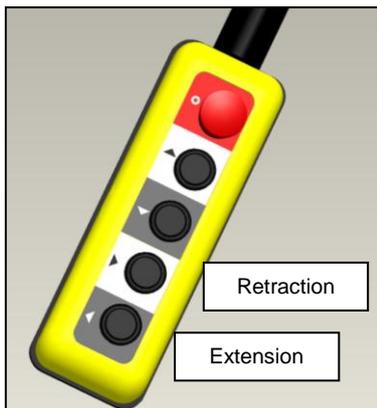
Ensure that the vehicle cannot start to roll and that the gradient is not more than 3°. Use the handbrake and/or ensure the vehicle is in gear or in the parking position. The workplace should be straight behind the vehicle. Open both rear doors fully to ensure damage cannot occur. If you keep the engine of the vehicle running to charge the battery, ensure that this takes place in an appropriately ventilated environment.

Do not operate the EasyLoad when slinging or releasing the load. Also ensure that other people are not put at risk due to the retraction and extension of the lifting arm.

## 3 Operation

A switch will be operated when the rear doors are opened that will activate the EasyLoad. The EasyLoad can be fully operated by using the handheld unit that can be found in the right frame tube in a holder. The handheld unit is kept in its place through a magnet and can be easily pulled out from its holder.

### 3.1 Retracting and extending the load/hook

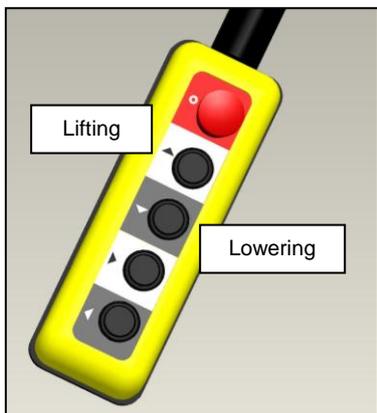


The bottom two buttons on the handheld unit are for retracting and extending, respectively, the inner lifting arm.

The load/hook can be moved outwards by pressing the button with the left arrow on the handheld unit. When the button is released, the extension movement stops. A slipping clutch will become operational at the end of the stroke. Do not keep the button pressed unnecessarily long because this may cause damage.

The load/hook can be moved inwards by pressing the button with the right arrow. The retraction will stop when the button is released. A slipping clutch will become operational at the end of the stroke. Do not keep the button pressed unnecessarily long because this may cause damage.

### 3.2 Lifting and lowering the load/hook



The handheld unit also has switches for lifting and lowering.

The load can be lifted by pressing the switch with the up arrow. When the hoist reaches the lifting arm, it will automatically switch off. Further lifting will not be possible.

The load can be lowered by pressing the switch with the down arrow. Loads can be lowered by approximately 2.8 metres. Lowering is limited to ensure that the cable does not roll out completely.

The EasyLoad is equipped with a protection against overloading to ensure that weights of more than 250 kg are not lifted. The EasyLoad will, in the first instance, start to lift but when the load is fully suspended from the hook, it will switch itself off when trying to lift a weight that is too heavy. Lowering will then only be possible. Once the excess weight has been removed, the EasyLoad can again be operated as normal.

### 3.3 Emergency stop



If the emergency stop is pressed, all functions will be immediately blocked and lifting, lowering, retracting or extending will stop. All functions can again be activated by turning the emergency stop to the right.

## 4 Instructions for loading and unloading

- Ensure that the load is straight under the EasyLoad.
- Put the hoist hook on top of the load to be lifted.
- Attach the hoist hook to the load; if required, use a suitable hoisting device.
- Ensure that the load cannot tilt during lifting.
- Lift the load to such a height that the bottom point of the load is above the loading floor of the vehicle.
- Slide the load inwards or outwards by using the handheld unit.
- Allow the load to drop until the hoisting cable is sufficiently loose to uncouple the hoist hook.
- Slide the lifting arm fully inside after using the lifting arm and put the hoist hook in its highest position. This can be done at the same time if required.
- Remove any hoisting equipment.

## 5 Connecting the power supply

### 5.1 Power supply

The EasyLoad can be directly connected to the vehicle's battery. There is a switch in the circuit that activates the EasyLoad when the rear doors are open to ensure that the vehicle's battery is not continuously used.

The power supply cable should be connected to the EasyLoad by using the grey 2-pole connector. The plus wire marked in red is fused with a 100 A fuse directly at the battery.

The control electronics of the EasyLoad is fused with a 15 A fuse. This fuse can be found on the outer lifting arm behind the guard on the left-hand side.

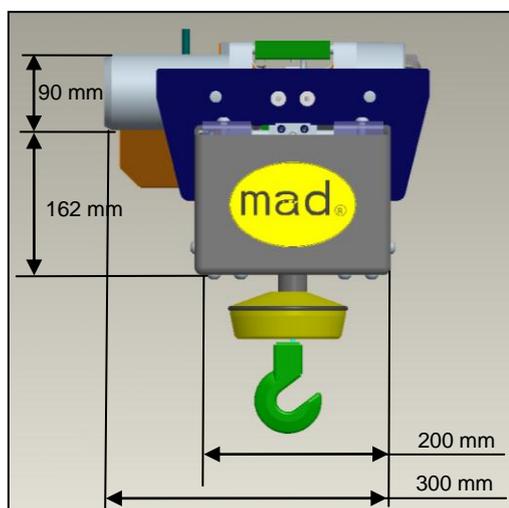
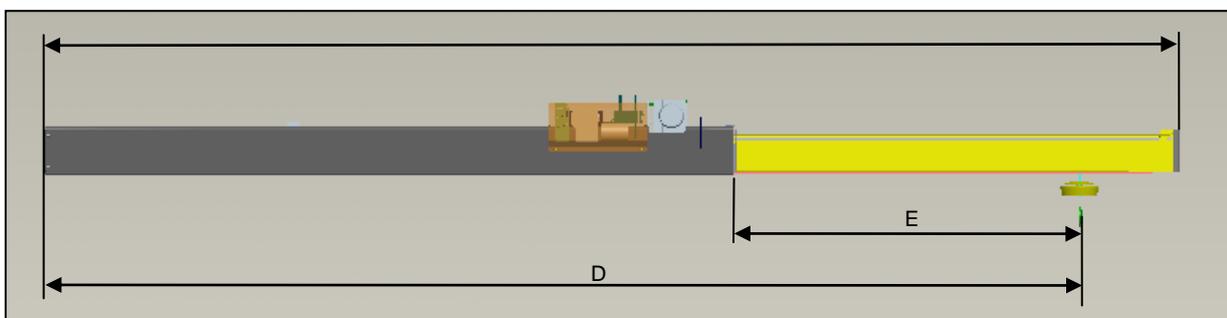
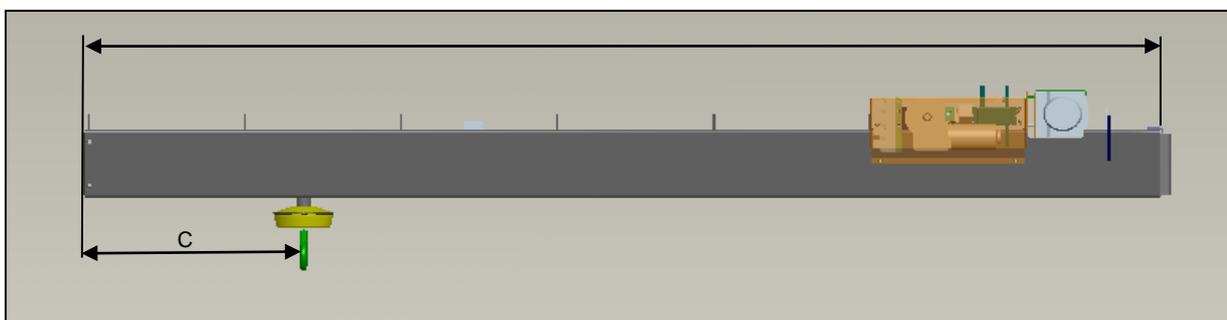
### 5.2 Handheld unit



The handheld unit can be kept in the bracket for this purpose. The connection with the EasyLoad is made through the 7-pole connector in the outlet next to the winch to the right on top of the EasyLoad.

## 6 Technical Specifications

			<b>EL-250-2xx</b>	<b>EL-250-1xx</b>
Retracted length	A	mm	2230	1830
Extended length	B	mm	3630	3230
Hook distance – at the front of the EasyLoad retracted	C	mm	610	610
Hook distance – at the front of the EasyLoad extended	D	mm	3410	2610
Hook distance retracted versus extended	D-C	mm	2800	2000
Maximum reach behind the vehicle	E	mm	1200	800
Lifting arm height in door opening		mm	160	160
Weight		kg	110	94
Max. lifting capacity		kg	250	250
Cable speed		mm/min	6000	6000
Voltage		V	12	12
Maximum current consumption		A	100	100



## 7 Troubleshooting

Problem	Possible reason	Solution
Retracting and extending are slow and difficult	<ul style="list-style-type: none"> <li>• Battery (nearly) spent</li> <li>• Mechanical fault</li> <li>• Slipping clutch slipping</li> <li>• Slipping clutch too lightly adjusted</li> </ul>	<ul style="list-style-type: none"> <li>• Charge or replace the battery</li> <li>• Contact a specialist</li> <li>• The commercial vehicle is positioned on a gradient that is too large (max. 3<sup>0</sup>)</li> <li>• Contact a specialist</li> </ul>
Retracting and extending not possible	<ul style="list-style-type: none"> <li>• Emergency stop pressed</li> <li>• Control switch faulty</li> <li>• Door switch faulty or incorrectly adjusted</li> <li>• No voltage</li> <li>• Mechanical fault</li> <li>• Slipping clutch slipping</li> <li>• Slipping clutch too lightly adjusted</li> </ul>	<ul style="list-style-type: none"> <li>• Unlock the emergency stop</li> <li>• Replace the switch</li> <li>• Re-adjust or replace the switch</li> <li>• Charge or replace the battery</li> <li>• Check the connection of the handheld unit to the EasyLoad (connector next to the winch motor)</li> <li>• Door switch faulty or incorrectly adjusted</li> <li>• Check the control fuse (15 A at the winch motor)</li> <li>• Check the main fuse (100 A at the battery)</li> <li>• Contact a specialist</li> <li>• The commercial vehicle is positioned on a gradient that is too large (max. 3<sup>0</sup>)</li> <li>• Contact a specialist</li> </ul>
Lifting or lowering is very slow	<ul style="list-style-type: none"> <li>• Battery (nearly) spent</li> <li>• Mechanical fault</li> </ul>	<ul style="list-style-type: none"> <li>• Charge or replace the battery</li> <li>• Contact a specialist</li> </ul>

Problem	Possible reason	Solution
<p>Lifting and/or lowering is not possible</p>	<ul style="list-style-type: none"> <li>• Emergency stop pressed</li> <li>• Control switch faulty</li> <li>• Door switch faulty or incorrectly adjusted</li> <li>• Overload protection faulty or incorrectly adjusted</li> <li>• The hook can only be lowered</li>   <li>• The hook can only be lifting</li> <li>• The hook cannot be lowered completely</li>   <li>• The hook does not lower smoothly</li>   <li>• No voltage</li> </ul>	<ul style="list-style-type: none"> <li>• Unlock the emergency stop</li> <li>• Replace the switch</li> <li>• Re-adjust or replace the switch</li> <li>• Contact a specialist</li>   <li>• The pull of the highest point has been reached</li> <li>• Too much weight on the hook; this may be 250 kg at most</li> <li>• The pull of the lowest point has been reached</li> <li>• The pull of the lowest point is no longer true; contact a specialist</li> <li>• Mechanical fault; contact a specialist</li> <li>• The pull of the lowest point is not correctly adjusted; contact a specialist</li> <li>• The cable has not been rolled up tightly; contact a specialist</li> <li>• Charge or replace the battery</li> <li>• Check the connection of the handheld unit to the EasyLoad (connector next to the winch motor)</li> <li>• Door switch faulty or incorrectly adjusted</li> <li>• Check the control fuse (15 A at the winch motor)</li> <li>• Check the main fuse (100 A at the battery)</li> </ul>

## 8 Guarantee terms and conditions

1. MAD Holding B.V., hereinafter to be referred to as MAD, grants a factory guarantee of 12 months on the total construction and related materials with regard to manufacture, assembly and development errors on its equipment, in this case, specifically the EasyLoad, and the related original accessories to the first owner.
2. The guarantee shall not apply if the purchaser implements changes or repairs to the EasyLoad himself or herself or has a third party perform these, if the EasyLoad has been used for other purposes than the normal ones or if MAD is of the opinion that it has been used or maintained improperly as well as to damage due to transport.
3. The guarantee only applies to the delivery of factory new equipment and parts.
4. The guarantee shall only apply if the installation of the EasyLoad and the frame comply with the installation procedure described by MAD; EH00002.
5. The effective date of this guarantee shall be determined by the date of the delivery to the purchaser; the invoice date of the MAD dealer or installation station is the determining factor within this context.
6. All parts that are subject to wear and tear are excluded from this guarantee as are components/products that have been explicitly delivered under different guarantee terms and conditions.
7. Accessories or components/products delivered by other parties than MAD are excluded from this guarantee.
8. The sales and delivery terms and conditions of the dealer of MAD equipment can only limit MAD's factory guarantee but can never extend the factory guarantee.
9. MAD shall ensure the repair and/or replacement of that which has been delivered during the guarantee period. This shall be deemed to mean repairing and/or replacing faulty parts where only the material and installation costs shall be borne by MAD. Call-out costs shall not be reimbursed.
10. Faults must be reported to MAD or the supplier by the purchaser of EasyLoad within a week after they have been observed. Should this not take place, the guarantee shall be null and void.
11. MAD is entitled to replace guarantee parts by other parts and/or components that are at least equivalent if the repair costs are higher than the value of the guarantee parts.
12. If MAD should decide not to repair or replace the guarantee parts, compensation shall be paid that will never be higher than the purchase amount of the delivery.
13. MAD's liability shall remain limited to that which has been determined in 11 and 12. With the exception of compensation as specified in 12, any other payment for direct or indirect losses shall be expressly excluded.
14. MAD shall become the owner of the replaced guarantee parts when the guarantee coverage leads to replacement.
15. With regard to repairs performed within the guarantee period, a 3-month guarantee shall apply to the work and a 12-month guarantee shall apply in relation to the part guarantee with the exception of parts subject to wear and tear.
16. The first purchaser must offer the EasyLoad to the MAD dealer whilst submitting the purchase invoice (and possibly confirmation of registration for the additional 12-month guarantee) or the purchaser should at least make exact reference to this to obtain the guarantee.
17. Any costs for shipment after guarantee determination and processing shall be borne by MAD.
18. Any fault or defect shall not defer the (payment) obligation of the purchaser with regard to an EasyLoad and/or accessories delivered or to be delivered.

## 9 Annual maintenance history

<b>Installation date:</b>	<b>Inspection date:</b>
<b>Performed by:</b>	<b>Performed by:</b>
Company stamp and initials	Company stamp and initials

<b>Inspection date:</b>	<b>Inspection date:</b>
<b>Performed by:</b>	<b>Performed by:</b>
Company stamp and initials	Company stamp and initials

<b>Inspection date:</b>	<b>Inspection date:</b>
<b>Performed by:</b>	<b>Performed by:</b>
Company stamp and initials	Company stamp and initials

<b>Inspection date:</b>	<b>Inspection date:</b>
<b>Performed by:</b>	<b>Performed by:</b>
Company stamp and initials	Company stamp and initials

<b>Inspection date:</b>	<b>Inspection date:</b>
<b>Performed by:</b>	<b>Performed by:</b>
Company stamp and initials	Company stamp and initials

<b>Inspection date:</b>	<b>Inspection date:</b>
<b>Performed by:</b>	<b>Performed by:</b>
Company stamp and initials	Company stamp and initials

## CE Declaration of Conformity

MAD Holding B.V.  
Wiltonstraat 53  
PO Box 760  
3900 AT Veenendaal  
The Netherlands

Declares under its own responsibility that the EasyLoad (250 kg and 500 kg type) with type number 69XXXX complies with the Machinery Directive 2006/42/EG and the EMC Directive 2004/108/EG as included in international and national legislation.

The following European harmonised standard has been used when assessing product safety:

NEN-EN 14492-2:2006+A1: Cranes –  
Power driven winches and hoists – Part 2:  
Power driven hoists

Veenendaal, December 2013

MAD Holding B.V.

A handwritten signature in blue ink, appearing to be 'M.M. Bovenschen', written over a horizontal line.

M.M. Bovenschen

Business Manager

