



**battery roll pusher**

MRE 100 L | MRE 100 LP | MRE 100 LPT  
MRE 200 L | MRE 200 LP | MRE 200 LPT  
MRE 300 L | MRE 300 LP | MRE 300 LPT  
MRE 500 L |



## **operating instructions**



This product complies with the Directive 2006/42/CE

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MANMRELENA4V0525

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# introduction

Dear customer,

Thank you for purchasing Renova's **MRE L / MRE LP / MRE LPT moviroll – battery roll pusher**.

We also thank you for the preference you have reserved for this innovative product. We are certain it will satisfy you with its technologically advanced solutions, its in-line and elegant design and its professional quality.

In this manual you will find our instructions for a proper use of this product and the necessary technical information, as well as our advices, to ensure excellent performance over time.

All information contained in this manual have been collected respecting the rules in force, the current state of knowledge of design and construction, our knowledge and our many years of experience.

The instruction manual was translated with all due care and attention. However, we do not accept liability for any translation errors. The Italian version of this instruction manual is definitive.

The warranty does not apply in cases which occur as a result of the Customer's violation of advice concerning operation, incorrect use, improper application, negligence (including but not limited to improper maintenance and storage), accidents, improper installation, modifications (included but not limited to the use of non-original parts or accessories not authorized by Renova), improper adjustment or repair. All parts subject to normal wear are excluded from the guarantee.

## warning

**CAREFULLY READ THE INSTRUCTIONS AND WARNINGS IN THIS MANUAL AND KEEP THEM FOR FURTHER REFERENCE FOR ENTIRE PRODUCT LIFE. THEY SUPPLY IMPORTANT INSTRUCTIONS REGARDING OPERATIONS AND SAFETY FOR INSTALLING, USING AND MAINTAINING THE PRODUCT.**

**PLEASE TAKE THE TIME TO READ AND UNDERSTAND THE INSTRUCTIONS COMPLETELY BEFORE THE INSTALLATION AND USE OF THIS PRODUCT.**

**IN THE EVENT OF A POSSIBLE BREAKDOWN OF THE PRODUCT, THE OPERATOR SHOULD UNDERSTAND THE MANUFACTURER'S INSTRUCTIONS AND BE AWARE OF THE DANGERS, BEFORE ANY CHECK INTERVENTION OR RECOURSE OF RENOVA'S TECHNICAL ASSISTANCE.**

## general warnings

- **MRE L / MRE LP / MRE LPT moviroll** is exclusively designed to move cylindrical loads as paper and corrugated rolls, wood and steel rolls, and vehicles.
- **MRE L / MRE LP / MRE LPT moviroll** must not be used to brake heavy loads which run toward the appliance.
- The work place must be kept proper of whatever object should be between the machine and the object to move. Any object in between that could create a somersault, a sliding or a fall must be kept away.
- The operator must always be aware that nothing or no one is in the way of the object to be displaced and that no one could be endangered by the moving object.
- Certain fundamental rules must be respected when using any kind of electrical appliance. More specifically:
  - do not leave the appliance exposed to the weather (rain, sun, etc.)
  - do not use the appliance next to flammable material
  - do not let children or incapable persons use the appliance without supervision
- A hearing protection must always be used.

## assistance

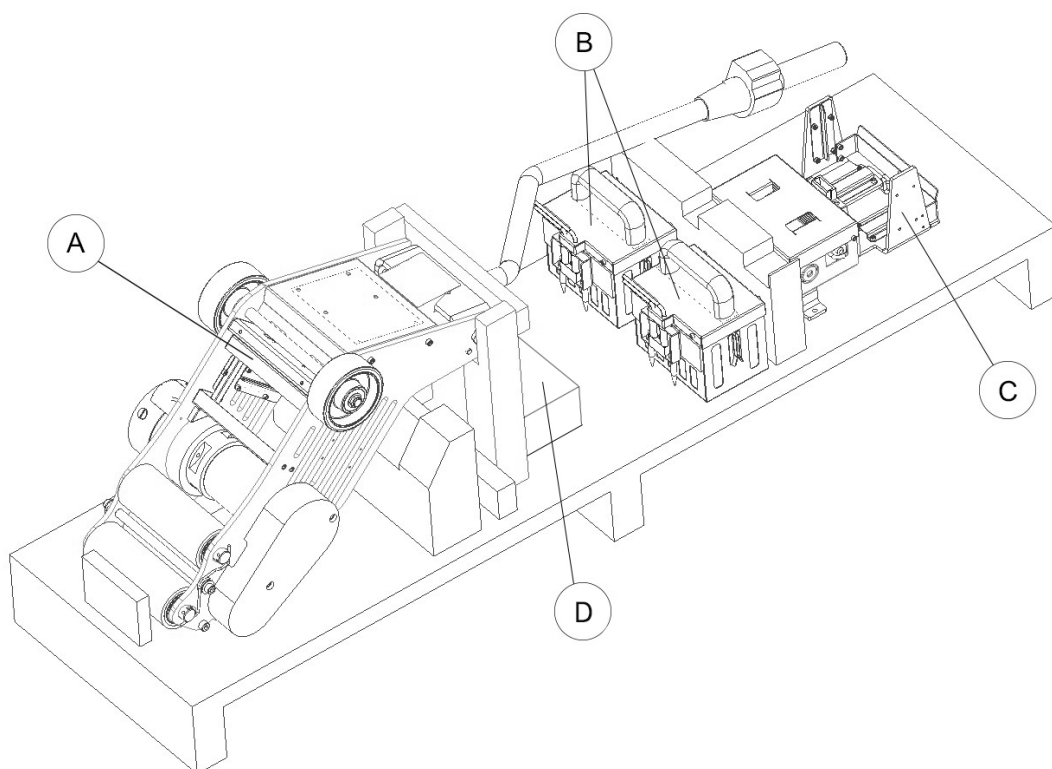
Renova is worldwide present with Agents and Distributors.

### Contact Renova support

[support@renova-srl.com](mailto:support@renova-srl.com)

## general instructions

### INITIAL CONTENT OF THE BOX



|          |                                          |                      |
|----------|------------------------------------------|----------------------|
| <b>A</b> | <b>MRE L / MRE LP / MRE LPT moviroll</b> | <b>x1</b>            |
| <b>B</b> | <b>batteries</b>                         | <b>x2 (optional)</b> |
| <b>C</b> | <b>battery charger</b>                   | <b>x1</b>            |
| <b>D</b> | <b>shipment kit</b>                      | <b>x1</b>            |

### CONTENT DESCRIPTION

**MOVIROLL** - In the box you can find the **moviroll** model as previously ordered: MRE L / MRE LP / MRE LPT

**BATTERIES** - MRE L / MRE LP / MRE LPT **moviroll** (all models) is provided with a second battery (optional). The two Plug&Play batteries are housed in the box near the **moviroll** system. They are supplied with a state of charge at 30% or less; therefore, they require a full charging cycle before the use.

**BATTERY CHARGER** - **moviroll** is provided with the original battery charger.

**SHIPMENT KIT** - with spare throttle, plug battery and fuse for the electronic board.

## PACKAGING

Please do not throw away the wood packaging of your **moviroll** as it might be useful for storage purposes, when moving or, in case of damages, when the device must be sent back to Renova srl.

## SERIAL NUMBER

Each **moviroll** is provided with its serial number.

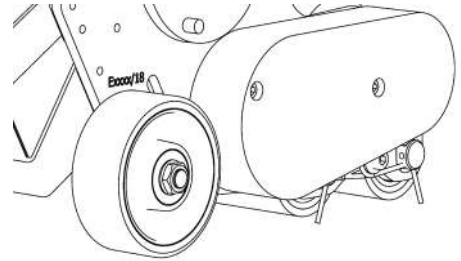
Please find the serial number of your **moviroll** stamped on the **moviroll** frame, above the rear wheel.

Example in the picture on the right.

Please find the serial number also on the warranty sheet provided with the **moviroll**.

### IMPORTANT:

Always communicate the serial number when requiring assistance or spare parts for your **moviroll**.



## instructions for use

- Unpack the appliance and store the packaging material
- After unpacking, make sure that the appliance is intact with no visible signs of damage caused by transport. If in doubt, do not use the appliance and contact Renova srl
- Place the **moviroll** on a safe and flat surface that can support its weight
- Insert one battery into the special chassis. After three months of non-use, the battery needs a full discharge and charge cycle
- A permanently lit red LED indicates that the appliance is ready to be used
- Now select the forward gear -  - or the backward gear -  (emergency)
- After approximately 30 seconds of inactivity, MRE switches to Standby mode. To resume operation, you need to press the forward or reverse button and then rotate the accelerator knob. MRE will start moving in the previously selected direction. (\*Note: This function is available in the newer versions. For further assistance, please contact Renova srl.)
- To start using the **MRE L / MRE LP / MRE LPT moviroll** to handle rolls just spin the accelerator handle.
- Push the switch into OFF position when the **moviroll** is not running in order to preserve the battery charge

### PLEASE NOTE:

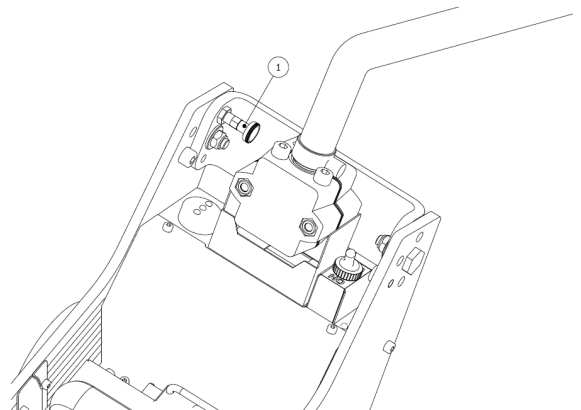
The **moviroll** battery roll pusher is equipped with reverse gear. Please use the reverse gear to release the **moviroll** from the roll, when the **moviroll** remains locked beneath the roll weight because of an obstacle or a wrong maneuver.

## TILTING HANDLE

**moviroll** models are also equipped with tilting handle.

When the working space is small, the operator can work alongside the load only turning the handle and 'pull' the load instead of thrusting it.

- Pull outward the spring stopper (position 1 in the picture) to overturn the handle
- Overturn the handle until the handle locks



- Pull outward the spring stopper and push back the handle to unlock the handle and to bring it to its original position

## BATTERY STATUS

The battery status LEDs (see the picture at page 10):

|                   |                                  |
|-------------------|----------------------------------|
| <b>GREEN LED</b>  | charged battery                  |
| <b>YELLOW LED</b> | 50% battery charge (when active) |
| <b>RED LED</b>    | discharged battery               |

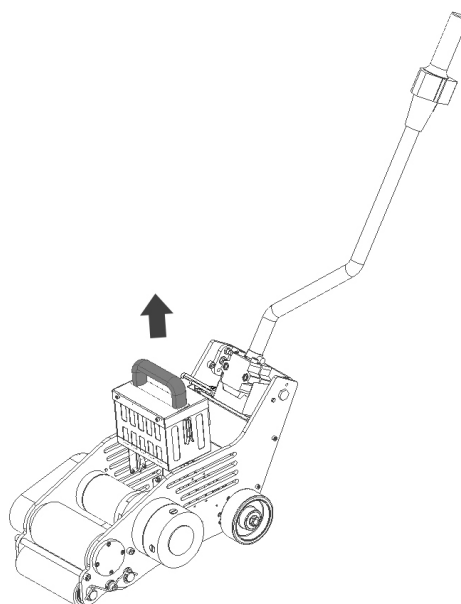


### ATTENTION!

Use the **moviroll** only when GREEN and YELLOW LEDs. Do not use the **moviroll** with RED battery status LED to avoid any irreparably damage to the electronic unit and the battery. With RED LED recharging the battery is mandatory before using the **moviroll** again.

## BATTERY RECHARGE

- Push the switch into the OFF position
- **Remove the battery from the chassis (as in the picture) and place it in a suitable area before charging it**
- Connect the battery to the battery charger through the connector
- Connect the battery charger to the mains supply.  
Two red LEDs on the battery charger now turn on; one LED indicates that the battery charger is under tension, the other LED indicates that the battery is charging.
- The estimated time of charging is about 4 hours (maximum time needed for a full recharge of the battery). The battery is full recharged when one of the two LEDs will turn green.
- Please leave the battery under charge for about 30 minutes to stabilize the tension of the cells.
- After recharging the battery disconnect the battery from the charger, then the charger from the mains supply. The red LED of the charger will remain lit for a bit of time even if cable unplugged.



### PLEASE NOTE:

In the case of battery charger equipped with a single LED, this will be lit red and turn green at completed recharge.



### ATTENTION!

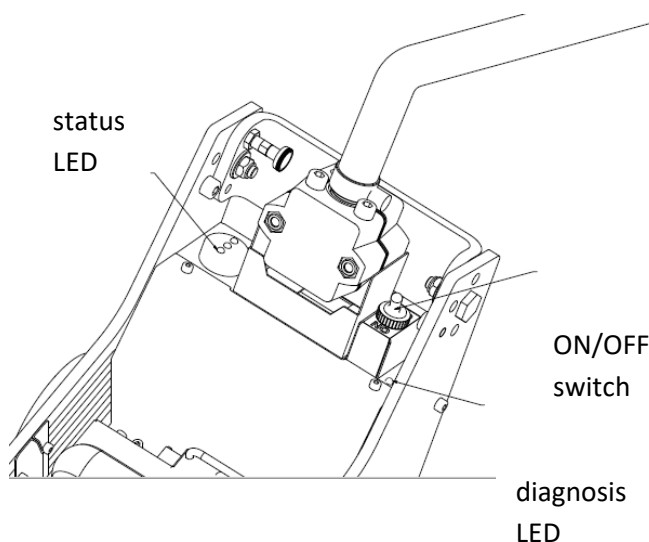
For the full recharge of the battery, please use the battery charger supplied with the **moviroll** battery roll pusher. To not damage the battery please do not use different battery chargers.

## BATTERY HANDLING PRECAUTIONS

- Do not disassemble, crush or puncture a battery
- Do not dispose of a battery in fire
- Do not immerse the unit in any liquid
- Do not expose a battery to temperatures above 40°C (104°F) and below 5°C (41°F)
- Do not use a damaged battery
- Do not leave batteries unused for extended periods of time, either in the product or in storage
- **BATTERY STORAGE AND DISPOSAL**
- Store the batteries separately from the product
- Store the batteries at temperatures between 15°C and 20°C (59°F and 68°F)
- Always check and follow your applicable regulations before disposing of a battery

## malfunctions diagnosis

In case of anomalies or malfunctions in the **moviroll** system, carefully observe the diagnostic LED and note the number of long and short flashes to identify the issue. Then, contact Renova support at [support@renova-srl.com](mailto:support@renova-srl.com) to receive assistance and resolve the anomaly



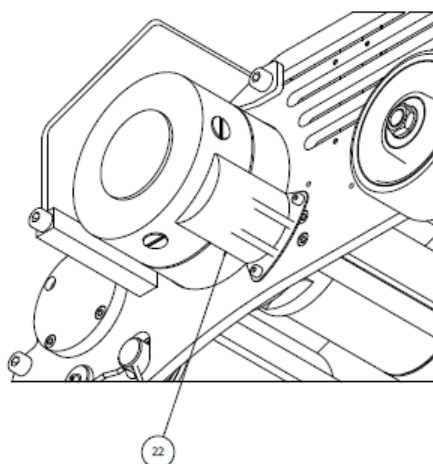
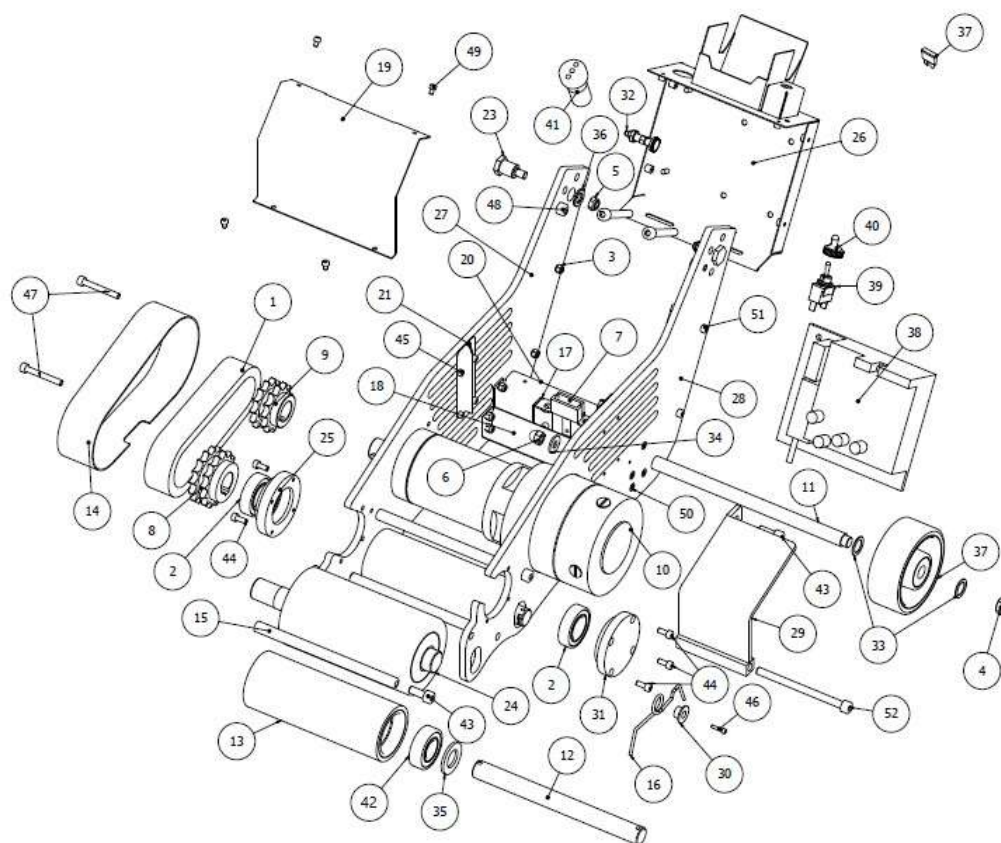
### PLEASE NOTE:

Please see warranty conditions on the warranty sheet.



# components descriptions and codes

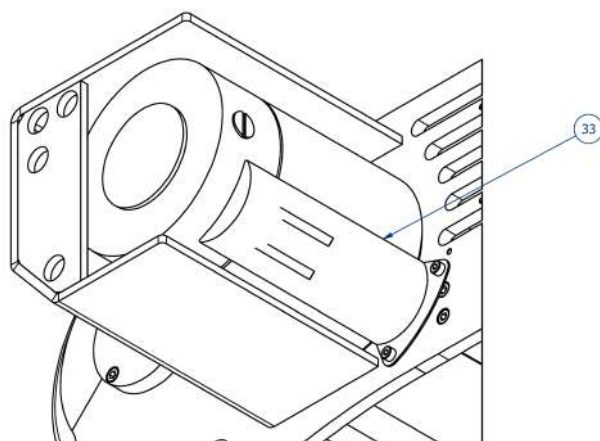
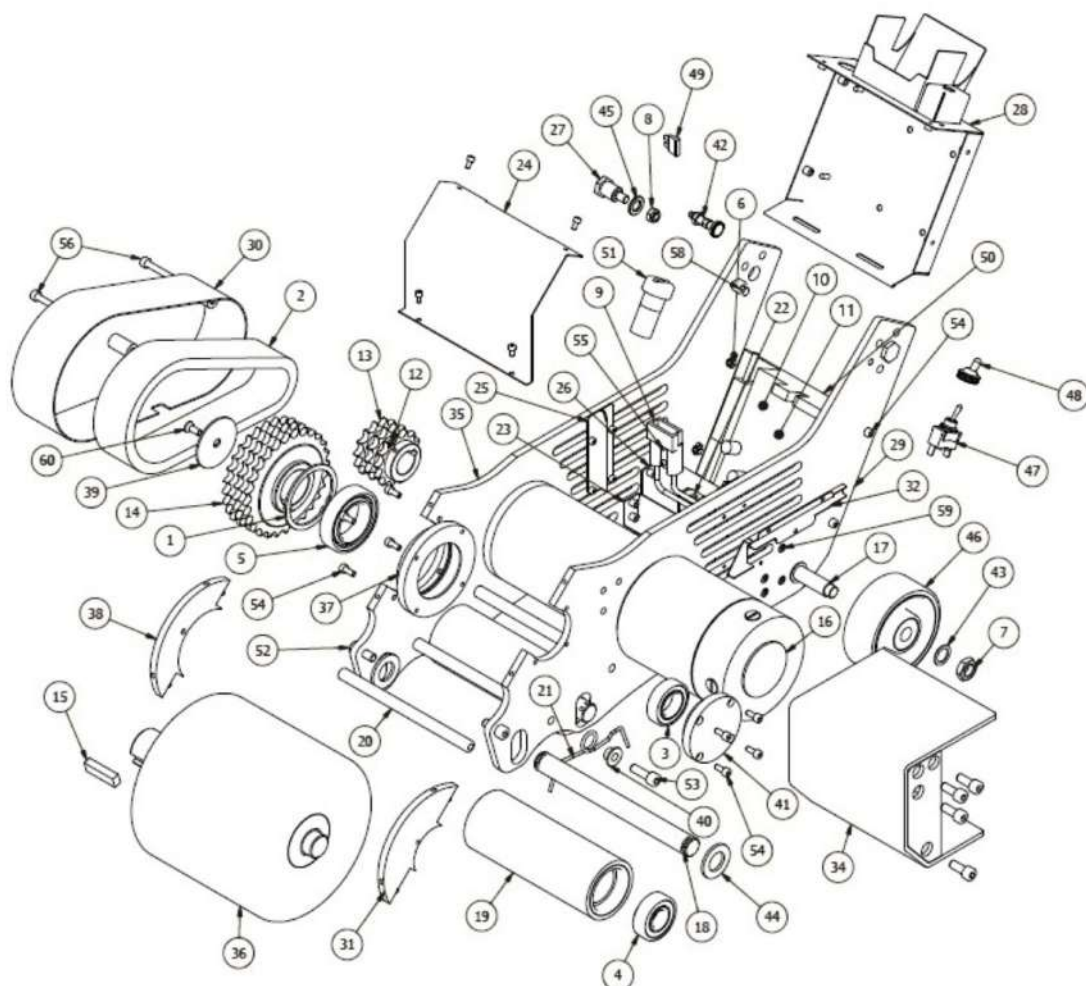
MRE 100 L / MRE 200 L / MRE 300 L



| POSITION | CODES – FOR MODELS MRE L |           |           | DESCRIPTION                         | QTY |
|----------|--------------------------|-----------|-----------|-------------------------------------|-----|
|          | MRE 100 L                | MRE 200 L | MRE 300 L |                                     |     |
| 1        | C10-0012                 | C10-0012  | C10-0012  | Double chain                        | 1   |
| 2        | C30-0004                 | C30-0004  | C30-0004  | Ball bearing                        | 2   |
| 3        | D10-0001                 | D10-0001  | D10-0001  | Hexagon nut                         | 17  |
| 4        | D14-0002                 | D14-0002  | D14-0002  | Nut                                 | 2   |
| 5        | D16-0001                 | D16-0001  | D16-0001  | Nut                                 | 2   |
| 6        | D18-0003                 | D18-0003  | D18-0003  | Nut                                 | 1   |
| 7        | E50-0001                 | E50-0001  | E50-0001  | Bottom connector                    | 1   |
| 8        | I30-0001                 | I30-0001  | I30-0001  | Sprocket                            | 1   |
| 9        | I30-0023                 | I30-0023  | I30-0023  | Sprocket                            | 1   |
| 10       | M65-0021                 | M65-0022  | M65-0023  | Gearmotor                           | 1   |
| 11       | MREP0016                 | MREP0016  | MREP0016  | Rear wheels axis                    | 1   |
| 12       | MREP0017                 | MREP0017  | MREP0017  | Rubber roller axis                  | 2   |
| 13       | MREP0018                 | MREP0018  | MREP0018  | Rubber roller                       | 2   |
| 14       | MREP0022                 | MREP0022  | MREP0022  | Chain gear box – roller drive cover | 1   |
| 15       | MREP0023                 | MREP0023  | MREP0023  | Rod                                 | 3   |
| 16       | MREP0027                 | MREP0027  | MREP0027  | Spring                              | 2   |
| 17       | MREP0035                 | MREP0035  | MREP0035  | Fixed battery centering holder      | 1   |
| 18       | MREP0061                 | MREP0061  | MREP0061  | Bottom battery support              | 2   |
| 19       | MREP0063                 | MREP0063  | MREP0063  | Electronic board cover              | 1   |
| 20       | MREP0069                 | MREP0069  | MREP0069  | Fixed battery centering support     | 1   |
| 21       | MREP0070                 | MREP0070  | MREP0070  | Fixed battery centering guide       | 2   |
| 22       | MREP0078                 | MREP0078  | MREP0078  | External motor cable carter         | 1   |
| 23       | MREP0091                 | MREP0091  | MREP0091  | Tilting handle pivot                | 2   |
| 24       | MREP0112                 | MREP0112  | MREP0112  | Roller drive                        | 1   |
| 25       | MREP0145                 | MREP0145  | MREP0145  | Open flange for roller drive        | 1   |
| 26       | MREP0168                 | MREP0168  | MREP0168  | Electronic board support            | 1   |
| 27       | MREP0169                 | MREP0169  | MREP0169  | Right frame (gearbox side)          | 1   |
| 28       | MREP0170                 | MREP0170  | MREP0170  | Left frame (motor side)             | 1   |
| 29       | MREP0630                 | MREP0630  | MREP0630  | Motor cover                         | 1   |
| 30       | MVRP0020                 | MVRP0020  | MVRP0020  | Spring support                      | 2   |
| 31       | MVRP0024                 | MVRP0024  | MVRP0024  | Closed flange for motor shaft       | 1   |
| 32       | P52-0001                 | P52-0001  | P52-0001  | Spring stopper                      | 1   |
| 33       | R60-0001                 | R60-0001  | R60-0001  | Washer                              | 4   |
| 34       | R60-0002                 | R60-0002  | R60-0002  | Flat washer                         | 1   |
| 35       | R60-0005                 | R60-0005  | R60-0005  | Washer                              | 4   |
| 36       | R60-0007                 | R60-0007  | R60-0007  | Flat washer                         | 2   |
| 37       | R95-0001                 | R95-0001  | R95-0001  | Rubber wheel                        | 2   |
| 38       | S15-0067                 | S15-0067  | S15-0067  | Electronic board                    | 1   |
| 39       | S15-0020                 | S15-0020  | S15-0020  | On/Off switch                       | 1   |
| 40       | S15-0021                 | S15-0021  | S15-0021  | On/Off switch rubber cover          | 1   |
| 41       | S20-0002                 | S20-0002  | S20-0002  | Battery status led                  | 1   |
| 42       | C30-0008                 | C30-0008  | C30-0008  | Radial bearing                      | 4   |
| 43       | V50-0005                 | V50-0005  | V50-0005  | Galvanized screw                    | 5   |
| 44       | V50-0007                 | V50-0007  | V50-0007  | Galvanized screw                    | 8   |
| 45       | V50-0008                 | V50-0008  | V50-0008  | Blackened screw                     | 8   |
| 46       | V50-0011                 | V50-0011  | V50-0011  | Blackened screw                     | 2   |
| 47       | V50-0016                 | V50-0016  | V50-0016  | Galvanized screw                    | 2   |
| 48       | V50-0022                 | V50-0022  | V50-0022  | Blackened screw                     | 2   |
| 49       | V50-0026                 | V50-0026  | V50-0026  | Blackened screw                     | 13  |
| 50       | V50-0027                 | V50-0027  | V50-0027  | Galvanized screw                    | 13  |
| 51       | V50-0030                 | V50-0030  | V50-0030  | Galvanized screw plug               | 4   |

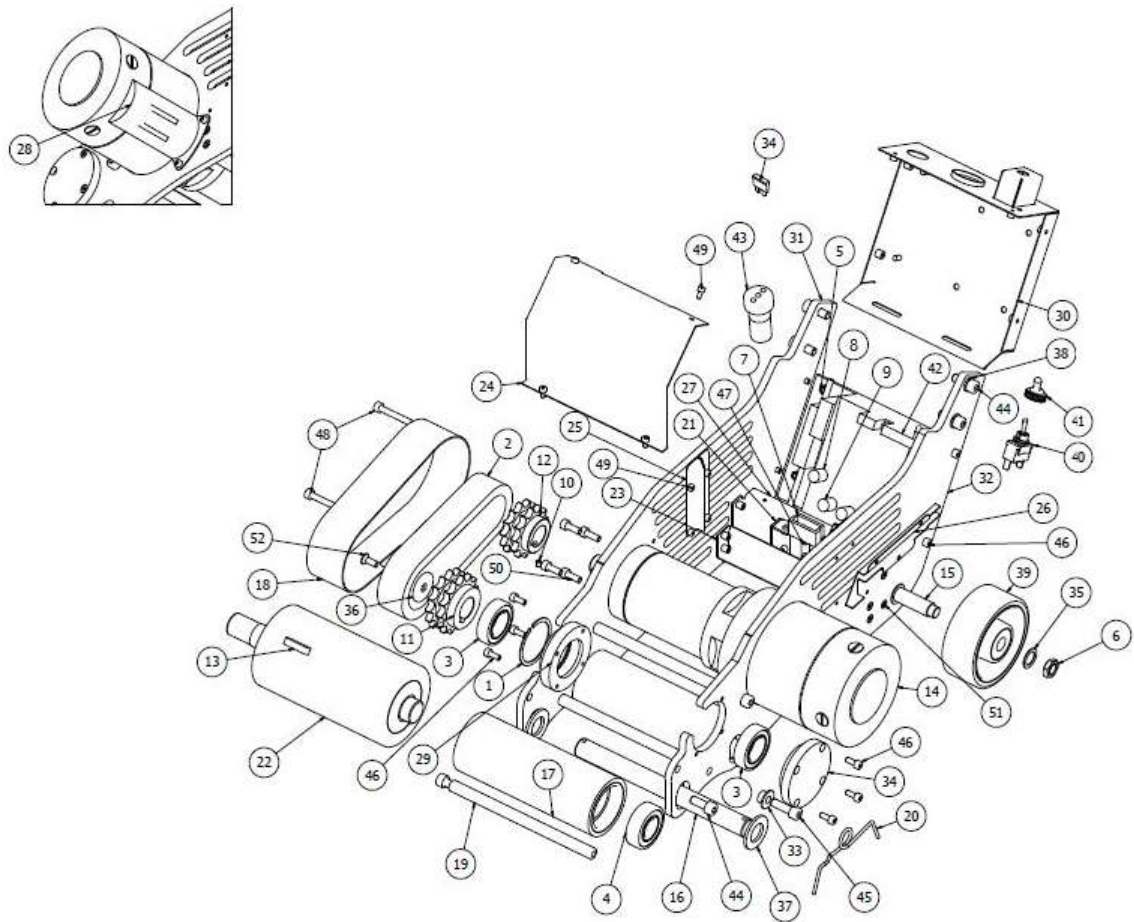
|    |          |          |          |                 |   |
|----|----------|----------|----------|-----------------|---|
| 52 | V50-0063 | V50-0063 | V50-0063 | Blackened screw | 1 |
|----|----------|----------|----------|-----------------|---|

## MRE 500 L



| POSITION | CODES – FOR MODEL MRE 500 L | DESCRIPTION                      | QTY |
|----------|-----------------------------|----------------------------------|-----|
| 1        | A70-0024                    | sprocket ring                    | 1   |
| 2        | C10-0021                    | Triple chain                     | 1   |
| 3        | C30-0004                    | radial ball bearing              | 1   |
| 4        | C30-0008                    | radial roller bearing            | 1   |
| 5        | C30-0035                    | radial bearing motor haft        | 1   |
| 6        | D10-0001                    | hex nut                          | 2   |
| 7        | D14-0001                    | hex nut                          | 2   |
| 8        | D16-0001                    | hex nut                          | 2   |
| 9        | E50-0001                    | connector                        | 1   |
| 10       | E50-0150                    | remote led cable with white plug | 1   |
| 11       | E50-0160                    | remote led cable with green plug | 1   |
| 12       | G38-0002                    | flat point grub screw            | 1   |
| 13       | I30-0017                    | triple pinion                    | 1   |
| 14       | I30-0028                    | triple pinion                    | 1   |
| 15       | L50-0002                    | Key                              | 1   |
| 16       | M65-0032                    | gearmotor                        | 1   |
| 17       | MREP0016                    | rear wheel axle                  | 1   |
| 18       | MREP0017                    | roller axle                      | 2   |
| 19       | MREP0018                    | rubber roller                    | 2   |
| 20       | MREP0023                    | tie rod                          | 3   |
| 21       | MREP0027                    | roller spring                    | 2   |
| 22       | MREP0035                    | fixed battery centering          | 1   |
| 23       | MREP0061                    | lower battery support            | 2   |
| 24       | MREP0063                    | electronic board casing          | 1   |
| 25       | MREP0070                    | fixed battery centering guide    | 2   |
| 26       | MREP0077                    | fixed battery centering support  | 1   |
| 27       | MREP0091                    | folding handle rotation pin      | 2   |
| 28       | MREP0168                    | electronic board casing          | 1   |
| 29       | MREP0194                    | left plate frame (motor side)    | 1   |
| 30       | MREP0196                    | triple chain casing              | 1   |
| 31       | MREP0199                    | assembled cap                    | 1   |
| 32       | MREP0200                    | internal motor cable casing      | 1   |
| 33       | MREP0201                    | external motor cable casing      | 1   |
| 34       | MREP0202                    | motor casing                     | 1   |
| 35       | MREP0390                    | right plate reducer side         | 1   |
| 36       | MREP0392                    | rubberized motor shaft           | 1   |
| 37       | MREP0393                    | open bearing flange              | 1   |
| 38       | MREP0394                    | assembled cap                    | 1   |
| 39       | MREP0396                    | washer                           | 1   |
| 40       | MVRP0020                    | door spring                      | 2   |
| 41       | MVRP0024                    | closed flange motor shaft        | 1   |
| 42       | P52-0001                    | spring piston                    | 1   |
| 43       | R60-0001                    | washer                           | 4   |
| 44       | R60-0005                    | washer                           | 4   |
| 45       | R60-0007                    | flat washer                      | 2   |
| 46       | R95-0001                    | wheel with bearings              | 2   |
| 47       | S15-0020                    | ON/OFF switch                    | 1   |
| 48       | S15-0021                    | cap for ON/OFF switch            | 1   |
| 49       | S15-0023                    | fuse                             | 1   |
| 50       | S15-0081                    | electronic board                 | 1   |
| 51       | S20-0002                    | battery charge indicator         | 1   |
| 52       | V50-0005                    | zinc-plated screw                | 11  |

|    |          |                   |    |
|----|----------|-------------------|----|
| 53 | V50-0006 | screw             | 2  |
| 54 | V50-0007 | zinc-plated screw | 12 |
| 55 | V50-0011 | burnished screw   | 2  |
| 60 | V50-0016 | burnished screw   | 2  |
| 57 | V50-0017 | zinc-plated screw | 21 |
| 58 | V50-0022 | burnished screw   | 2  |
| 59 | V50-0027 | zinc-plated screw | 12 |
| 60 | V53-0001 | burnished screw   | 1  |

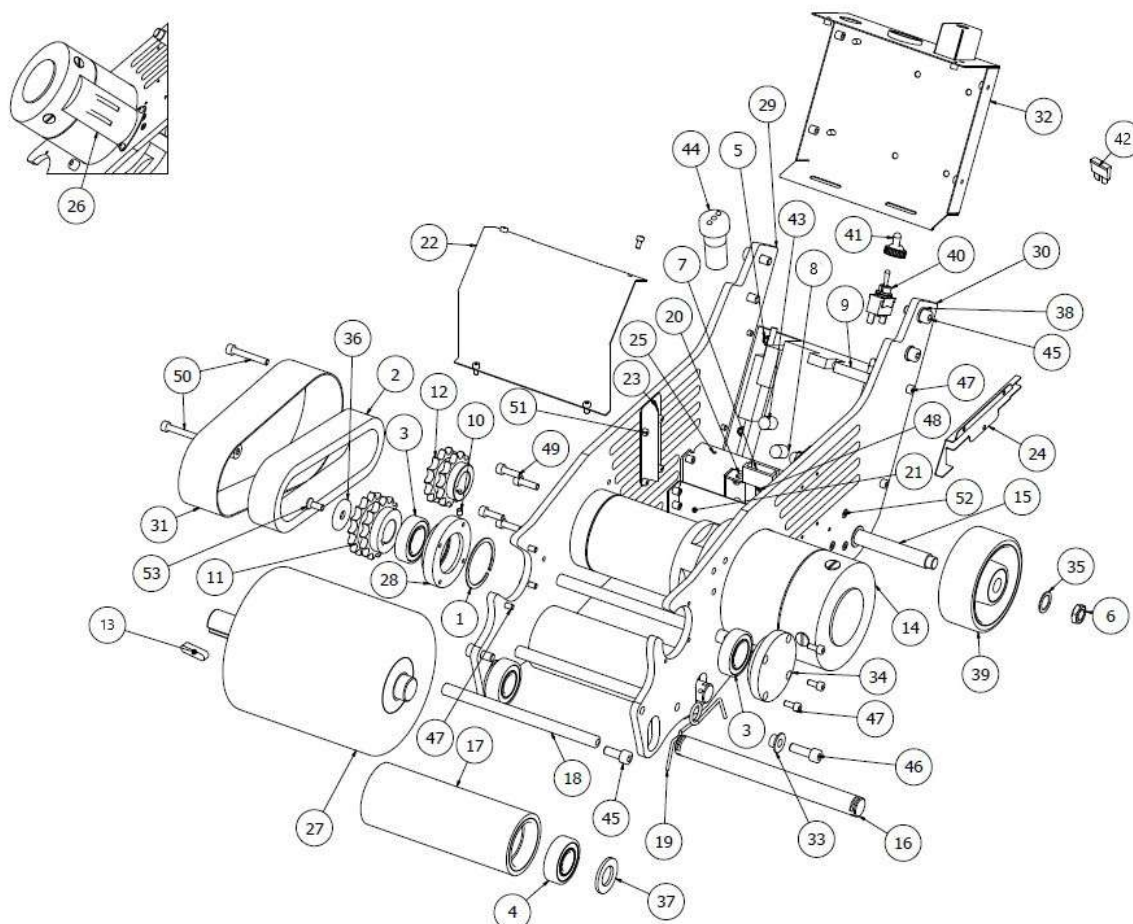


| POSITION | CODES – FOR MODELS MRE LP |           |           | DESCRIPTION                          | QTY |
|----------|---------------------------|-----------|-----------|--------------------------------------|-----|
|          | MRE100 LP                 | MRE200 LP | MRE300 LP |                                      |     |
| 1        | A70-0003                  | A70-0003  | A70-0003  | sprocket ring                        | 1   |
| 2        | C10-0012                  | C10-0012  | C10-0012  | double chain                         | 1   |
| 3        | C30-0004                  | C30-0004  | C30-0004  | radial bearing                       | 2   |
| 4        | C30-0008                  | C30-0008  | C30-0008  | radial bearing for rollers           | 1   |
| 5        | D10-0001                  | D10-0001  | D10-0001  | nut                                  | 2   |
| 6        | D14-0002                  | D14-0002  | D14-0002  | wheel nut                            | 2   |
| 7        | E50-0001                  | E50-0001  | E50-0001  | anderson connector                   | 1   |
| 8        | E50-0150                  | E50-0150  | E50-0150  | remote led with white plug           | 1   |
| 9        | E50-0160                  | E50-0160  | E50-0160  | remote led with green plug           | 1   |
| 10       | G38-0002                  | G38-0002  | G38-0002  | flat point grub screw                | 1   |
| 11       | I30-0001                  | I30-0001  | I30-0001  | double chain gear                    | 1   |
| 12       | I30-0023                  | I30-0023  | I30-0023  | pinion                               | 1   |
| 13       | L51-0004                  | L51-0004  | L51-0004  | tongue                               | 1   |
| 14       | M65-0014                  | M65-0015  | M65-0016  | gearmotor                            | 1   |
| 15       | MREP0016                  | MREP0016  | MREP0016  | rear wheel axle                      | 1   |
| 16       | MREP0017                  | MREP0017  | MREP0017  | roller axle                          | 2   |
| 17       | MREP0018                  | MREP0018  | MREP0018  | rubber roller                        | 2   |
| 18       | MREP0022                  | MREP0022  | MREP0022  | reducer chain casing                 | 1   |
| 19       | MREP0023                  | MREP0023  | MREP0023  | tie rod                              | 3   |
| 20       | MREP0027                  | MREP0027  | MREP0027  | roller spring                        | 2   |
| 21       | MREP0035                  | MREP0035  | MREP0035  | fixed battery centering              | 1   |
| 22       | MREP0043                  | MREP0043  | MREP0043  | rubberized crankshaft                | 1   |
| 23       | MREP0061                  | MREP0061  | MREP0061  | lower battery support                | 2   |
| 24       | MREP0063                  | MREP0063  | MREP0063  | electronic board casing              | 1   |
| 25       | MREP0070                  | MREP0070  | MREP0070  | fixed battery centering guide        | 2   |
| 26       | MREP0073                  | MREP0073  | MREP0073  | internal crankcase for motor cables  | 1   |
| 27       | MREP0077                  | MREP0077  | MREP0077  | fixed battery centering support      | 1   |
| 28       | MREP0104                  | MREP0104  | MREP0104  | external crankcase for motor cables  | 1   |
| 29       | MREP0145                  | MREP0145  | MREP0145  | open crankshaft flange               | 1   |
| 30       | MREP0187                  | MREP0187  | MREP0187  | electronic board support with switch | 1   |
| 31       | MREP0206                  | MREP0206  | MREP0206  | right plate frame (reducer side)     | 1   |
| 32       | MREP0207                  | MREP0207  | MREP0207  | left plate frame (motor side)        | 1   |
| 33       | MVRP0020                  | MVRP0020  | MVRP0020  | spring holder                        | 2   |
| 34       | MVRP0024                  | MVRP0024  | MVRP0024  | closed crankshaft flange             | 1   |
| 35       | R60-0001                  | R60-0001  | R60-0001  | washer                               | 4   |
| 36       | R60-0004                  | R60-0004  | R60-0004  | flat washer                          | 1   |
| 37       | R60-0005                  | R60-0005  | R60-0005  | washer                               | 4   |
| 38       | R60-0047                  | R60-0047  | R60-0047  | spring washer                        | 4   |
| 39       | R95-0001                  | R95-0001  | R95-0001  | wheel with bearings                  | 2   |
| 40       | S15-0020                  | S15-0020  | S15-0020  | ON/OFF switch                        | 1   |
| 41       | S15-0021                  | S15-0021  | S15-0021  | cap for ON/OFF switch                | 1   |
| 42       | S15-0081                  | S15-0081  | S15-0081  | electronic board                     | 1   |
| 43       | S20-0002                  | S20-0002  | S20-0002  | battery charge indicator             | 1   |
| 44       | V50-0005                  | V50-0005  | V50-0005  | screw galvanized                     | 8   |
| 45       | V50-0006                  | V50-0006  | V50-0006  | screw                                | 2   |
| 46       | V50-0007                  | V50-0007  | V50-0007  | galvanized screw                     | 10  |
| 47       | V50-0011                  | V50-0011  | V50-0011  | burnished screw                      | 2   |
| 48       | V50-0016                  | V50-0016  | V50-0016  | burnished screw                      | 2   |
| 49       | V50-0017                  | V50-0017  | V50-0017  | galvanized screw                     | 21  |
| 50       | V50-0028                  | V50-0028  | V50-0028  | burnished screw                      | 4   |



|    |          |          |          |                  |    |
|----|----------|----------|----------|------------------|----|
| 51 | V50-0062 | V50-0062 | V50-0062 | galvanized screw | 12 |
| 52 | V53-0001 | V53-0001 | V53-0001 | burnished screw  | 1  |

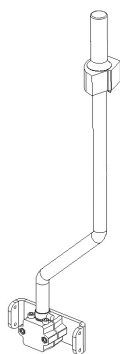
## MRE 100 LPT / MRE 200 LPT / MRE 300 LPT



| POSITION | CODES – FOR MODELS MRE LPT |            |            | DESCRIPTION                | QTY |
|----------|----------------------------|------------|------------|----------------------------|-----|
|          | MRE100 LPT                 | MRE200 LPT | MRE300 LPT |                            |     |
| 1        | A70-0003                   | A70-0003   | A70-0003   | Seeger ring                | 1   |
| 2        | C10-0020                   | C10-0020   | C10-0020   | Double chain               | 1   |
| 3        | C30-0004                   | C30-0004   | C30-0004   | Radial ball bearing        | 2   |
| 4        | C30-0008                   | C30-0008   | C30-0008   | Radial roller bearing      | 4   |
| 5        | D10-0001                   | D10-0001   | D10-0001   | Nut                        | 2   |
| 6        | D14-0002                   | D14-0002   | D14-0002   | Nut                        | 2   |
| 7        | E50-0001                   | E50-0001   | E50-0001   | Anderson connector         | 1   |
| 8        | E50-0150                   | E50-0150   | E50-0150   | Remote LED with white plug | 1   |
| 9        | E50-0160                   | E50-0160   | E50-0160   | Remote LED with green plug | 1   |
| 10       | G38-0002                   | G38-0002   | G38-0002   | Flat-tip set screw         | 1   |
| 11       | I30-0001                   | I30-0001   | I30-0001   | Double chain gear          | 1   |
| 12       | I30-0023                   | I30-0023   | I30-0023   | Double sprocket            | 1   |
| 13       | L51-0004                   | L51-0004   | L51-0004   | Key                        | 1   |
| 14       | M65-0014                   | M65-0015   | M65-0016   | Gear motor                 | 1   |

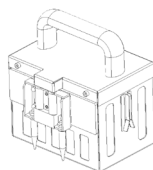


|    |          |          |          |                                     |    |
|----|----------|----------|----------|-------------------------------------|----|
| 15 | MREP0016 | MREP0016 | MREP0016 | Rear wheel axle                     | 1  |
| 16 | MREP0017 | MREP0017 | MREP0017 | Roller axle                         | 2  |
| 17 | MREP0018 | MREP0018 | MREP0018 | Rubber roller                       | 2  |
| 18 | MREP0023 | MREP0023 | MREP0023 | Tie rod                             | 3  |
| 19 | MREP0027 | MREP0027 | MREP0027 | Roller spring                       | 2  |
| 20 | MREP0035 | MREP0035 | MREP0035 | Fixed battery locator               | 1  |
| 21 | MREP0061 | MREP0061 | MREP0061 | Lower battery support               | 2  |
| 22 | MREP0063 | MREP0063 | MREP0063 | Front cover for electronic board    | 1  |
| 23 | MREP0070 | MREP0070 | MREP0070 | Fixed guide for battery alignment   | 2  |
| 24 | MREP0073 | MREP0073 | MREP0073 | Inner cover for motor cables        | 1  |
| 25 | MREP0077 | MREP0077 | MREP0077 | Fixed support for battery alignment | 1  |
| 26 | MREP0104 | MREP0104 | MREP0104 | Outer cover for motor cables        | 1  |
| 27 | MREP0108 | MREP0108 | MREP0108 | Rubber-coated motor shaft           | 1  |
| 28 | MREP0145 | MREP0145 | MREP0145 | Open flange for motor shaft         | 1  |
| 29 | MREP0180 | MREP0180 | MREP0180 | Right plate frame                   | 1  |
| 30 | MREP0181 | MREP0181 | MREP0181 | Left plate frame                    | 1  |
| 31 | MREP0184 | MREP0184 | MREP0184 | Double chain cover                  | 1  |
| 32 | MREP0187 | MREP0187 | MREP0187 | Board support for ON/OFF switch     | 1  |
| 33 | MVRP0020 | MVRP0020 | MVRP0020 | Spring holder                       | 2  |
| 34 | MVRP0024 | MVRP0024 | MVRP0024 | Closed flange for motor shaft       | 1  |
| 35 | R60-0001 | R60-0001 | R60-0001 | Washer                              | 4  |
| 36 | R60-0004 | R60-0004 | R60-0004 | Flat washer                         | 1  |
| 37 | R60-0005 | R60-0005 | R60-0005 | Washer                              | 4  |
| 38 | R60-0047 | R60-0047 | R60-0047 | Spring washer                       | 4  |
| 39 | R95-0001 | R95-0001 | R95-0001 | Wheel with bearings                 | 2  |
| 40 | S15-0020 | S15-0020 | S15-0020 | ON/OFF switch                       | 1  |
| 41 | S15-0021 | S15-0021 | S15-0021 | Cap for ON/OFF switch               | 1  |
| 42 | S15-0023 | S15-0023 | S15-0023 | Fuse                                | 1  |
| 43 | S15-0081 | S15-0081 | S15-0081 | Electronic board                    | 1  |
| 44 | S20-0002 | S20-0002 | S20-0002 | Battery charge indicator            | 1  |
| 45 | V50-0005 | V50-0005 | V50-0005 | Zinc-plated screw                   | 8  |
| 47 | V50-0006 | V50-0006 | V50-0006 | Screw                               | 2  |
| 47 | V50-0007 | V50-0007 | V50-0007 | Zinc-plated screw                   | 10 |
| 48 | V50-0011 | V50-0011 | V50-0011 | Blackened screw                     | 2  |
| 49 | V50-0014 | V50-0014 | V50-0014 | Screw                               | 4  |
| 50 | V50-0016 | V50-0016 | V50-0016 | Blackened screw                     | 2  |
| 51 | V50-0017 | V50-0017 | V50-0017 | Zinc-plated screw                   | 21 |
| 52 | V50-0062 | V50-0062 | V50-0062 | Zinc-plated screw                   | 12 |
| 53 | V53-0001 | V53-0001 | V53-0001 | Blackened screw                     | 1  |

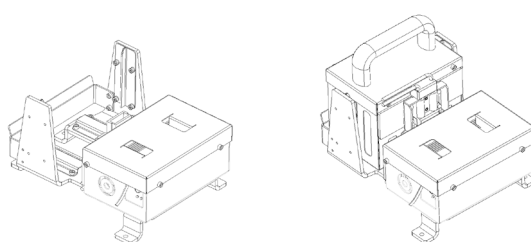


|  |          |                |
|--|----------|----------------|
|  | MREK0029 | 'S' handle kit |
|--|----------|----------------|

|  |          |        |
|--|----------|--------|
|  | MREK0016 | handle |
|--|----------|--------|



|  |           |                                            |
|--|-----------|--------------------------------------------|
|  | KITBATTC  | 24 V battery for MRE L models              |
|  | KITBATTLP | 24 V battery for MRE LP and MRE LPT models |



**The battery charger must not be positioned vertically but always on a horizontal surface.**

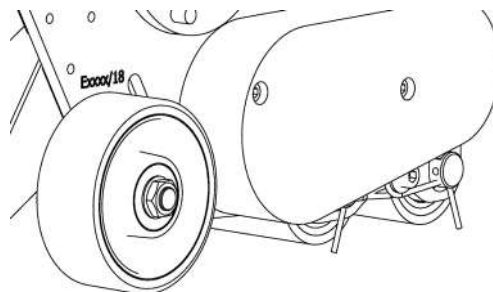
|  |            |                          |
|--|------------|--------------------------|
|  | KITCHRC    | charger 220V 50-60 Hz    |
|  | KITCHRUSAC | charger US 110V 50-60 Hz |

## SPARE PARTS REQUEST

Please always communicate the serial number of your **moviroll** when requiring spare parts together with the code of the spare parts needed.

Each **moviroll** is provided with its serial number.  
Please find the serial number of your **moviroll** stamped on the **moviroll** frame, above the rear wheel.  
Example in the picture on the right.

Please find the serial number also on the warranty sheet provided with the **moviroll** and on the Declaration of Conformity in this manual.



## instructions for a proper use

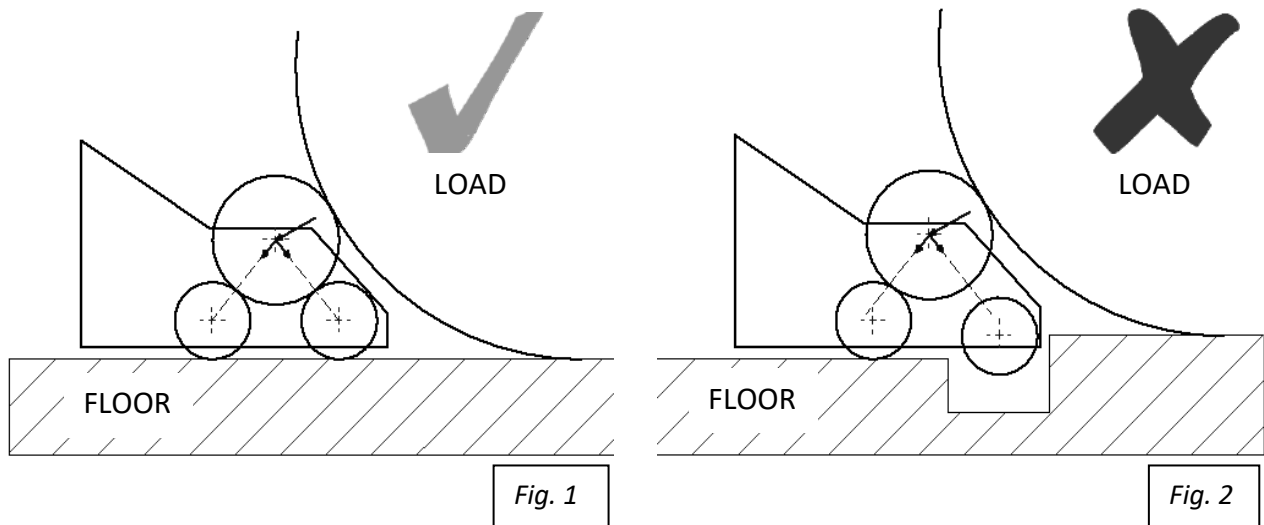
**moviroll** uses the power of a gear motor, which generates the capability of moving small or big loads through a pyramidal transmission with rollers.

The power transmission from the motor to the rollers begins when **moviroll** is touching the roll/load. The rollers on the ground allow the movement of the load in a continuous and regular way and the overcoming of small obstacles.

ⓘ Do not use **moviroll** on surfaces with obstacles and holes of big dimensions that may cause the detachment of one of the rollers from the roller drive.

Figure 1 shows how the weight of the roll/load should be unloaded on the rollers.

Figure 2 shows an example of how **moviroll** should not work in order to avoid the premature breakdown of the bearing of the roller drive due to an improper unloading of the roll/load weight on them.



**ISOENCertifications S.r.l.**



## **ATTESTAZIONE DI CONFORMITÀ / CONFORMITY STATEMENT**

dichiariamo che l'esame è stato effettuato secondo i sotto citati requisiti che il sottoscritto soggetto recepisce.

*/ we declare that the examination has been carried out according to the below mentioned requirements, that are acknowledged by the holder of the folder Statement*

Secondo quanto descritto nel Fascicolo Tecnico costituito nell'anno 2015

*/ According to the Technical File issued in 2015*

**RENOVA S.R.L.  
VIALE RIMEMBRANZE 93  
I - 20099 SESTO SAN GIOVANNI (MI)**

Dichiara che il / i prodotto / i

*/ declares that the product/s*

Descrizione / **Description:**  
Nome / **Name:**

Spingi bobina  
MOVIROLL

Modello / **Model:**

MRE  
MRE L  
MRE LP  
MRE LPT  
MRE XS  
MRE XS L  
MRE XS LPT



È conforme alle seguenti direttive

*/ fulfills the requirements of the following directions*

alla Direttiva 2006/42/CE relativa alle macchine (procedura di valutazione in accordo all'allegato VIII)

*/ directive 2006/42/CE "Machinery directive" (conformity assessment according to annex VIII)*

Norme applicate

*/ applied standards*

**EN ISO 12100:2010**



**ISOENCertifications**

**ISOENCertifications s.r.l.**

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L'Amministratore Unico

ISOENCertifications S.r.l.

Niki Müller

prima emissione / first issue: 12/06/2015

data di revisione / revision date: Rev. A 12/06/2015

**DICHIARAZIONE DI CONFORMITÀ**  
alla Direttiva 2006/42/CE relativa alle macchine in accordo all'allegato IIA  
*DECLARATION OF CONFORMITY*  
according to 2006/42/EC machinery directive annex IIA

**RENOVA s.r.l.**

Viale Rimembranze, 93 – 20099 – Sesto San Giovanni (Milano)

**DICHIARA CHE / DECLARE THAT**  
il prodotto/the product

Descrizione /  
Description

**Spingi bobina**

Nome / Name

**MOVIROLL**

Modello / Model

**MRE L / MRE LP / MRE LPT**

Anno di  
fabbricazione e  
costituzione  
fascicolo tecnico/  
Production year

**2023**

N° matricola



**E' CONFORME / FULFILLS**

alle seguenti Direttive Europee: / the requirements of the Directive:

alla Direttiva 2006/42/CE relativa alle macchine  
(procedura di valutazione in accordo all'allegato VIII)  
directive 2006/42/EC "Machinery directive"  
(conformity assessment according to annex VIII)  
Norme applicate/applied standards  
EN ISO 12100:2010

Nome e indirizzo della persona stabilita nella Comunità europea autorizzata a costituire il fascicolo tecnico /  
Name and address of the person established in the EU Community authorized to compile the technical file

Ugo Re

Amministratore /  
General manager

Nome / name

Funzione / function

Firma / signature

Firma della persona autorizzata a redigere la dichiarazione a nome del fabbricante o del suo mandatario  
Signature of the person empowered to draw up the declaration on behalf of the manufacturer or his authorized representative

Ugo Re

Amministratore /  
General manager

Nome / name

Funzione / function

Firma / signature

Luogo / Place MILANO Data / date

La macchina è progettata rispettando tutti i requisiti di sicurezza previsti per la destinazione d'uso che devono essere previsti anche agli elementi o quasi macchine associate per estenderne la destinazione d'uso con particolare riferimento a rischi interferenziali (posizionamento operatore, solidità di elementi mobile, giunzioni e saldature)  
The machine is designed in compliance with all the safety requirements envisaged for the intended use which must also be provided for the associated elements or the Partly Completed Machinery to extend their intended use with reference to interference risks (operator positioning, solidity of moving elements and joints and welds)  
Si declina ogni responsabilità legata all'eventuale non-conformità degli elementi associati o quasi macchine per estenderne la destinazione d'uso  
We decline all responsibility related to any non-conformity of the associated elements or Partly Completed Machinery to extend their intended use.  
La presente dichiarazione di conformità è emessa sotto la responsabilità esclusiva del fabbricante  
This declaration of conformity is issued under the sole responsibility of the manufacturer

Pagina 1 di 1



|                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | <p align="center"><b>DICHIARAZIONE DI CONFORMITÀ UE</b><br/> <b>EU DECLARATION OF CONFORMITY</b></p> <p>In accordo alla direttiva 2014/34/UE del Parlamento europeo e del Consiglio, del 26 febbraio 2014 ,<br/> concernente l'armonizzazione delle legislazioni degli Stati membri relative agli apparecchi e sistemi di<br/> protezione destinati a essere utilizzati in atmosfera potenzialmente<br/> <i>According to 2014/34/EU directive on the harmonisation of the laws of the Member States relating to<br/> equipment and protective systems intended for use in potentially explosive atmospheres</i></p> |
|-----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|                                           |                                                                                                                                                                                         |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Ragione sociale /<br/>manufacturer</b> | <p align="center">RENOVA SRL<br/> Sede legale/legal site: Via Palmanova 24 20132 Milano<br/> Sede operativa/operative site: Viale Rimembranze 93 20099 Sesto San Giovanni(MI)-Italy</p> |
|-------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## dichiara che / declare that

|                                         |                                                                                                                       |
|-----------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| <b>Prodotto/Product Name</b>            | Spingi bobine ed attrezzature e per la movimentazione di carrelli<br>Reel pushers and equipment and for cart handling |
| <b>Tipologie/Types</b>                  | Movicart<br>Moviroll                                                                                                  |
| <b>Categoria ATEX<br/>ATEX category</b> | 3                                                                                                                     |
| <b>Matricola/serial number</b>          |                                                                                                                       |

**E' CONFORME**  
**FULFILS**

alla Direttiva Europea **2014/34/UE**  
the European Directive **2014/34/EU**

Prodotto di categoria 3 per zone ATEX 2-22/ ATEX category 3product for 1-22 ATEX classified zone



Sono stati applicati i seguenti standard tecnici  
*The following technical standards have been applied:*

**EN 1127-1:2019**  
**EN ISO 80079-36:2016 (ex EN 13463 – 1)**  
**EN ISO 80079-37:2016 (ex EN 13463 – 5)**  
**Controllo interno della fabbricazione in accordo alla EN ISO/IEC 80079-34:2020**  
*Interna Fabrication Control according to EN ISO/IEC 80079-34:2020*

RENOVA applicando il marchio **CE** garantisce che il progetto, la costruzione delle attrezzature sopra menzionate rispondono ai requisiti della Direttiva **2014/34/UE**  
La presente dichiarazione di conformità è rilasciata sotto la responsabilità esclusiva del fabbricante.

RENOVA by using the **CE** marking guarantee that design, construction of equipment mentioned above fulfil the requirements of the Directive **2014/34/EU**  
*This declaration of conformity is issued under the sole responsibility of the manufacturer.*











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