

 **moviroll**

battery roll pusher

MRE 1000 L



operating instructions



 **renova**
WE NEVER LOSE CONTROL

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This product complies with the Directive 2006/42/CE

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MANMRE1000LENA4V0126

index

introduction	page 4
warning	page 4
general warnings	page 4
assistance	page 5
general instructions	page 5
initial content of the box.....	page 5
content description	page 5
packaging	page 6
serial number	page 6
instructions for use	page 6
battery status	page 6
battery recharge	page 7
battery handling precautions	page 7
battery storage and disposal	page 7
malfunctions diagnosis	page 8
components descriptions and codes	page 9
instructions for a proper use	page 12
conformity statement	page 13

introduction

Dear customer,

Thank you for purchasing Renova's **MRE 1000 L 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 1000 L moviroll** is exclusively designed to move cylindrical loads as paper and corrugated rolls, wood and steel rolls, and vehicles.
- **MRE 1000 L 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

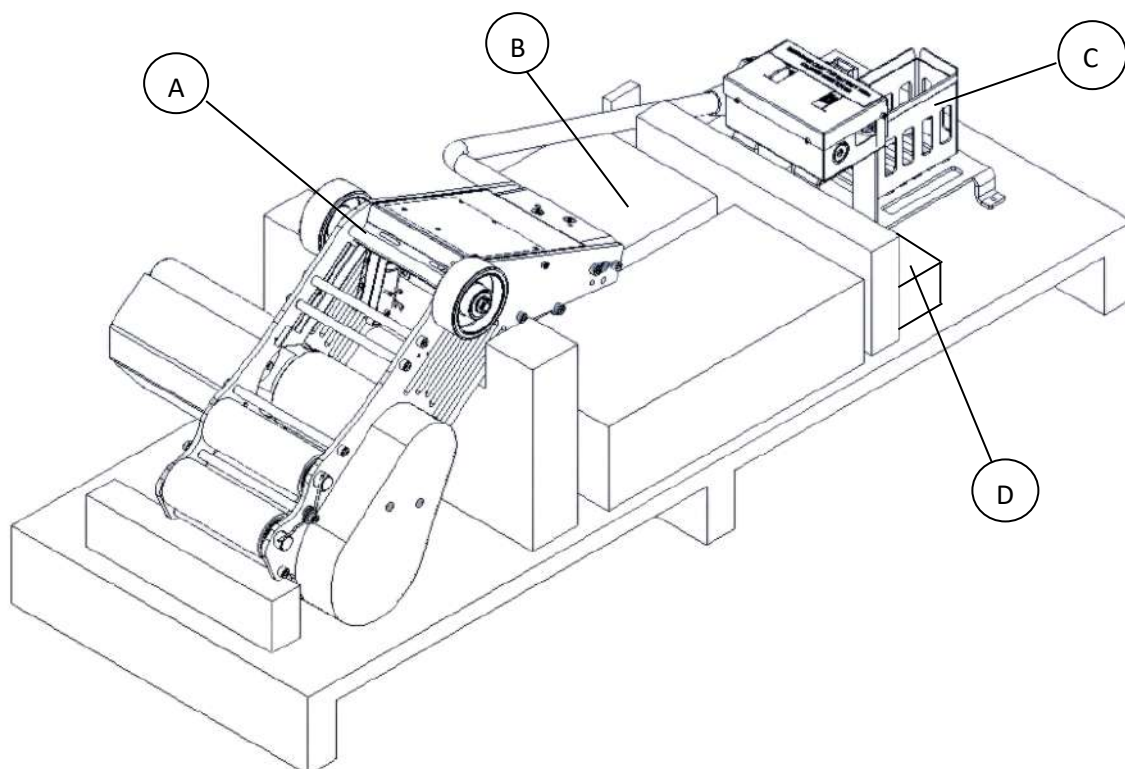
Renova is worldwide present with Agents and Distributors.

Contact Renova support

support@renova-srl.com

general instructions

INITIAL CONTENT OF THE BOX



A	MRE 1000 L moviroll	x1
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B	batteries	x2 (optional)
C	battery charger	x1
D	shipment kit	x1

CONTENT DESCRIPTION

MOVIROLL - In the box you can find the **moviroll** model as previously ordered: MRE 1000 L

BATTERIES – MRE 1000 L **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.

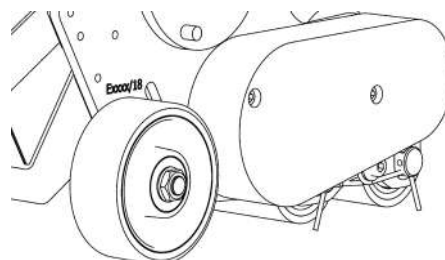
SERIAL NUMBER

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. Previous recharge of the battery is not necessary
- A permanently lit red LED indicates that the appliance is ready to be used
- Now select the forward gear -  - or the backward gear -  (emergency)
- To start using the **MRE 1000 L 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.

BATTERY STATUS

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

GREEN LED	charged battery
YELLOW LED	50% battery charge (when active)
RED LED	discharged battery

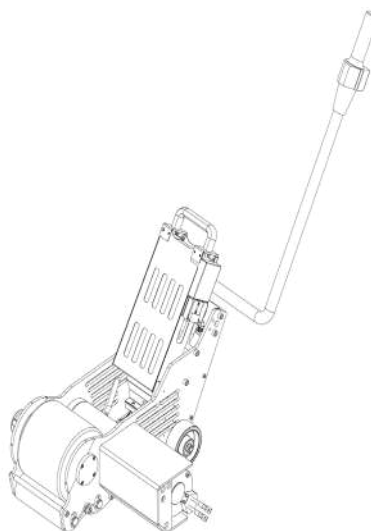


ATTENTION!

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

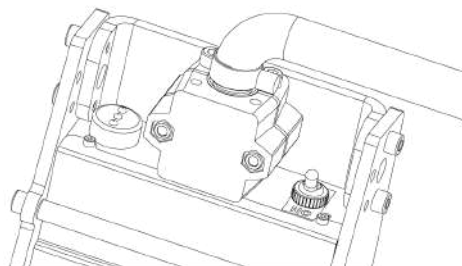
- Do not disassemble, crush or puncture a battery
- Do not dispose of a battery in fire
- Do not immerse the unit in any liquid
- Do not expose a battery to temperatures above 40°C (104°F) and below 5°C (41°F)
- Do not use a damaged battery
- Do not leave batteries unused for extended periods of time, 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

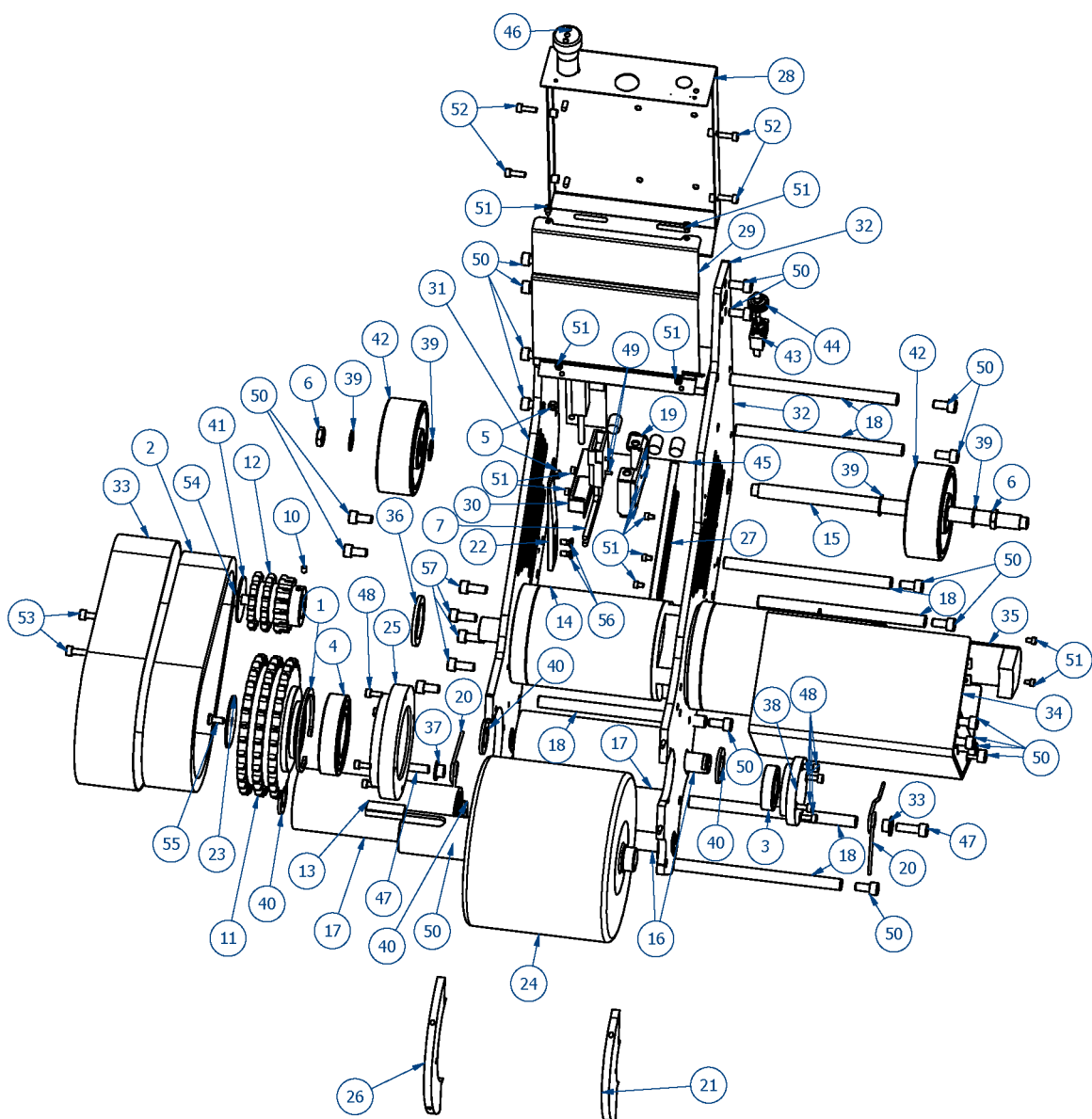
In case of anomalies or malfunctions in the **moviroll** system, carefully observe the diagnostic LED and note the number of long and short flashes to identify the issue. Then, contact Renova support at support@renova-srl.com to receive assistance and resolve the anomaly



PLEASE NOTE:

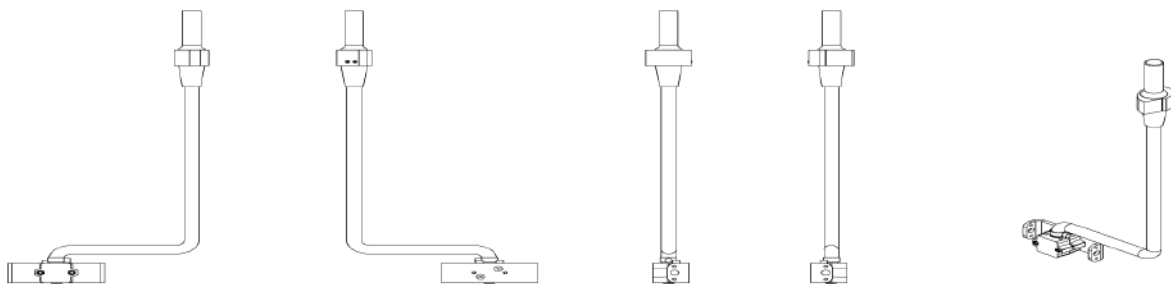
Please see warranty conditions on the warranty sheet.

components descriptions and codes

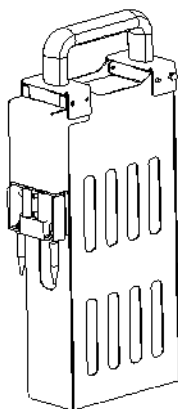


POSITION	CODES – FOR MODEL MRE 1000 L	DESCRIPTION	QTY
1	A70-0035	SEGEER	1
2	C10-0030	TRIPLE ROLLER CHAIN	1
3	C30-0004	BALL BEARING	1
4	C30-0028	BALL BEARING	1
5	D10-0001	NUT	2
6	D14-0002	NUT	2
7	E50-0001	LOWER ANDERSON CONNECTOR	1
8	E50-0150	REMOTE LED WITH WHITE PLUG	1
9	E50-0160	REMOTE LED WITH GREEN PLUG	1
10	G38-0002	FLAT-POINT SET SCREW	1
11	I30-0033	TRIPLE SPROCKET	1

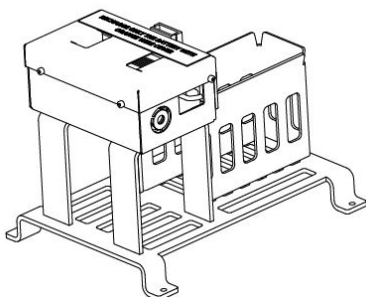
12	I30-0036	TRIPLE SPROCKET	1
13	L50-0004	TAB	1
14	M65-0055	GEAR MOTOR	1
15	MREP0016	REAR AXLE SHAFT	1
16	MREP0017	ROLLER SHAFT	2
17	MREP0018	ASSEMBLED RUBBER ROLLER	2
18	MREP0023	TIE ROD	7
19	MREP0035	FIXED BATTERY LOCATOR	1
20	MREP0140	ROLLER SPRING	2
21	MREP0199	ASSEMBLED CAP	1
22	MREP0350	SHORT BATTERY GUIDE	1
23	MREP0396	WASHER FOR RUBBER SHAFT	1
24	MREP0476	RUBBER MOTOR SHAFT	1
25	MREP0479	OPEN BEARING FLANGE	1
26	MREP0481	ASSEMBLED CAP	1
27	MREP0485	INTERNAL MOTOR CABLE HOUSING	1
28	MREP0486	ELECTRONIC BOARD SUPPORT FOR SWITCH AND LED	1
29	MREP0487	ELECTRONIC BOARD HOUSING	1
30	MREP0488	INTERNAL BATTERY CABLE HOUSING	1
31	MREP0674	RIGHT PLATE, GEAR REDUCER SIDE	1
32	MREP0675	LEFT PLATE, MOTOR SIDE	1
33	MREP0676	TRIPLE CHAIN GUARD	1
34	MREP0677	ASSEMBLED MOTOR HOUSING	1
35	MREP0678	EXTERNAL MOTOR CABLE HOUSING	1
36	MREP0679	REDUCER SPROCKET SPACER RING	1
37	MVRP0020	SPRING HOLDER	2
38	MVRP0024	CLOSED FLANGE FOR MOTOR SHAFT	1
39	R60-0001	WASHER	4
40	R60-0005	WASHER	4
41	R60-0033	FLAT WASHER	1
42	R95-0001	WHEEL	2
43	S15-0020	ON/OFF SWITCH	1
44	S15-0021	ON/OFF SWITCH BOOT / SWITCH RUBBER COVER	1
45	S15-0071	ELECTRONIC BOARD	1
46	S20-0002	BATTERY CHARGE INDICATOR	1
47	V50-0006	SCREW	2
48	V50-0007	SCREW	8
49	V50-0011	SCREW	2
50	V50-0025	SCREW	20
51	V50-0026	SCREW	15
52	V50-0030	SCREW	4
53	V50-0031	SCREW	2
54	V51-0030	SCREW	1
55	V53-0001	SCREW	1
56	V53-0008	SCREW	2
57	V53-0050	SCREW	4



	MREK0016	HANDLE
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	KITBATT	24 V BATTERY
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Use this battery charger only with the batteries with the orange wire cover

DO NOT use with any other battery

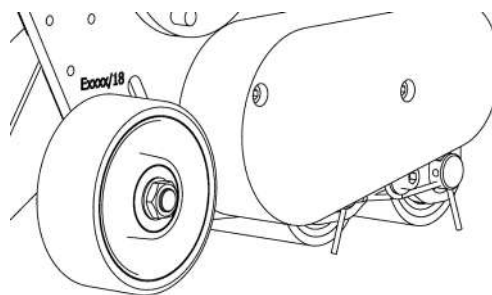
The battery charger must not be positioned vertically but always on a horizontal surface.

	KITCHRS220	CHARGER 220V 50-60 Hz
	KITCHRS110	CHARGER USA 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.

ⓘ

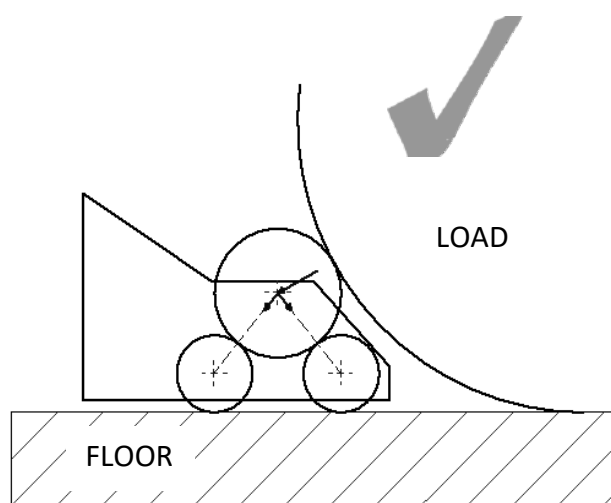


Fig. 1

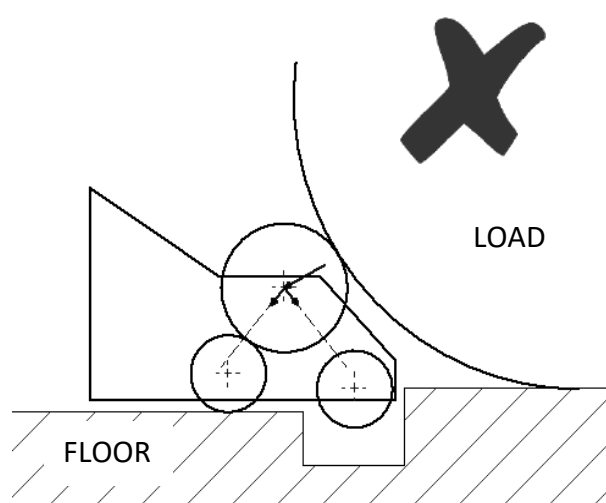


Fig. 2

ISOENCertifications S.r.l.



ISOENCertifications

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 present Statement.

Secondo quanto descritto nel Fascicolo Tecnico costituito nell'anno 2015

/According to the content of 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

/I declares that the product(s)

Descrizione ; Description:
Nome /Name:

Modello ; Model:

**Spingi bobina
MOVIROLL**

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



E' CONFORME alle seguenti direttive:

/I FULFIL the requirements of the following direct(s):

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

/according to the 2006/42/EC "Machinery directive" conformity assessment according to annex VIII

Norme applicate

/I applied standards

EN ISO 12100:2010



ISOENCertifications

ISOENCertifications s.r.l.

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L'Amministratore Unico

ISOENCertifications S.r.l.

Niki Muller

/Niki Muller

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 / F U L F I L S

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

	DICHIARAZIONE DI CONFORMITÀ UE EU DECLARATION OF CONFORMITY In accordo alla direttiva 2014/34/UE del Parlamento europeo e del Consiglio, del 26 febbraio 2014, concernente l'armonizzazione delle legislazioni degli Stati membri relative agli apparecchi e sistemi di protezione destinati a essere utilizzati in atmosfera potenzialmente <i>According to 2014/34/EU directive on the harmonisation of the laws of the Member States relating to equipment and protective systems intended for use in potentially explosive atmospheres</i>
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Ragione sociale / manufacturer	RENOVA SRL Sede legale/legal site: Via Palmanova 24 20132 Milano Sede operativa/operative site: Viale Rimembranze 93 20099 Sesto San Giovanni(MI)-Italy
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dichiara che / declare that

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

E' CONFORME
FULFILLS

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

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