

 **movicart**

electric tug

MTE 1000 | MTE 1500



operating instructions



 **renova**
WE NEVER LOSE CONTROL

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www.renova-srl.com – email: support@renova-srl.com

This product complies with the Directive 2006/42/CE

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MANMTEENA4V0225

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introduction

Dear customer,

Thank you for purchasing Renova's **movicart MTE - electric tug**.

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

- **movicart MTE** is exclusively designed to move loads on trolleys or rails by interposing or hooks
- **movicart MTE** 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.

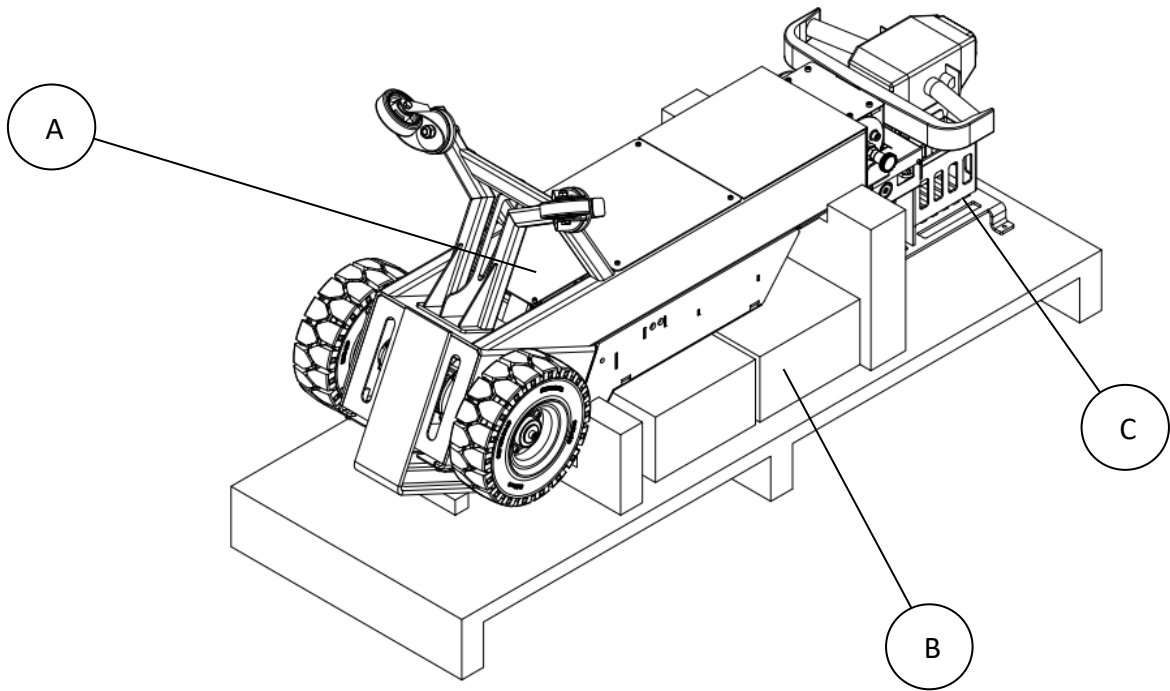
assistance

Renova is worldwide present with Agents and Distributors.

Contact Renova support
support@renova-srl.com

general instructions

INITIAL CONTENT OF THE BOX



A	movicart MTE	x1
B	batteries	x2 (optional)
C	battery charger	x1

CONTENT DESCRIPTION

MOVICART MTE: In the box you can find the **movicart MTE** model as previously ordered: MTE1000 / MTE1500

BATTERIES: **movicart MTE** (all models) is provided with a second battery (optional). The two Plug&Play batteries are housed in the box near the **movicart MTE** 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: **movicart MTE** is provided with the original battery charger.

PACKAGING

Please do not throw away the wood packaging of your **movicart MTE** 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 **movicart MTE** is provided with its serial number.

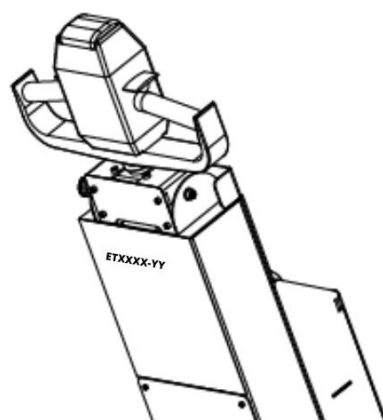
Please find the serial number of your **movicart MTE** stamped on the back of the **movicart MTE**.

Example in the picture on the right.

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

IMPORTANT:

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



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 **movicart MTE** on a safe and flat surface that can support its weight
- Insert the battery into the special chassis. After three months of non-use, the battery needs a full discharge and charge cycle.
- Push the switch into the ON position
- A lit red LED indicates that the appliance is ready to be used
- After having adjusted the desired maximum speed with the potentiometer, by pressing the green throttle accelerator in forward or reverse gear, MTE will activate
- To start using the **movicart MTE** to handle loads just spin the accelerator handle.
- Push the switch into OFF position when the **movicart MTE** is not running in order to preserve the battery charge

BATTERY STATUS

The status LEDs (see the picture at page 8):

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

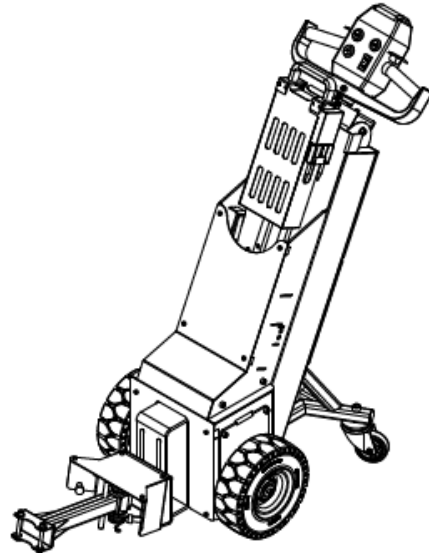


ATTENTION!

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

BATTERY RECHARGE

- Push the switch into the OFF position
- **Remove the battery from the chassis (as in the picture)**
- Insert the battery into the charger.
- Connect the battery charger to the mains supply.
A red LED on the battery charger now turns on.
- 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 the LED will turn green.
- Please leave the battery under charge for about 30 minutes to stabilize the tension of the cells.
- After recharging the battery remove the battery from the charger, then unplug the charger from the mains supply. The red LED of the charger will remain lit for a bit of time even if cable unplugged.



ATTENTION!

For the full recharge of the battery, please use the battery charger supplied with the **movicart MTE** 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

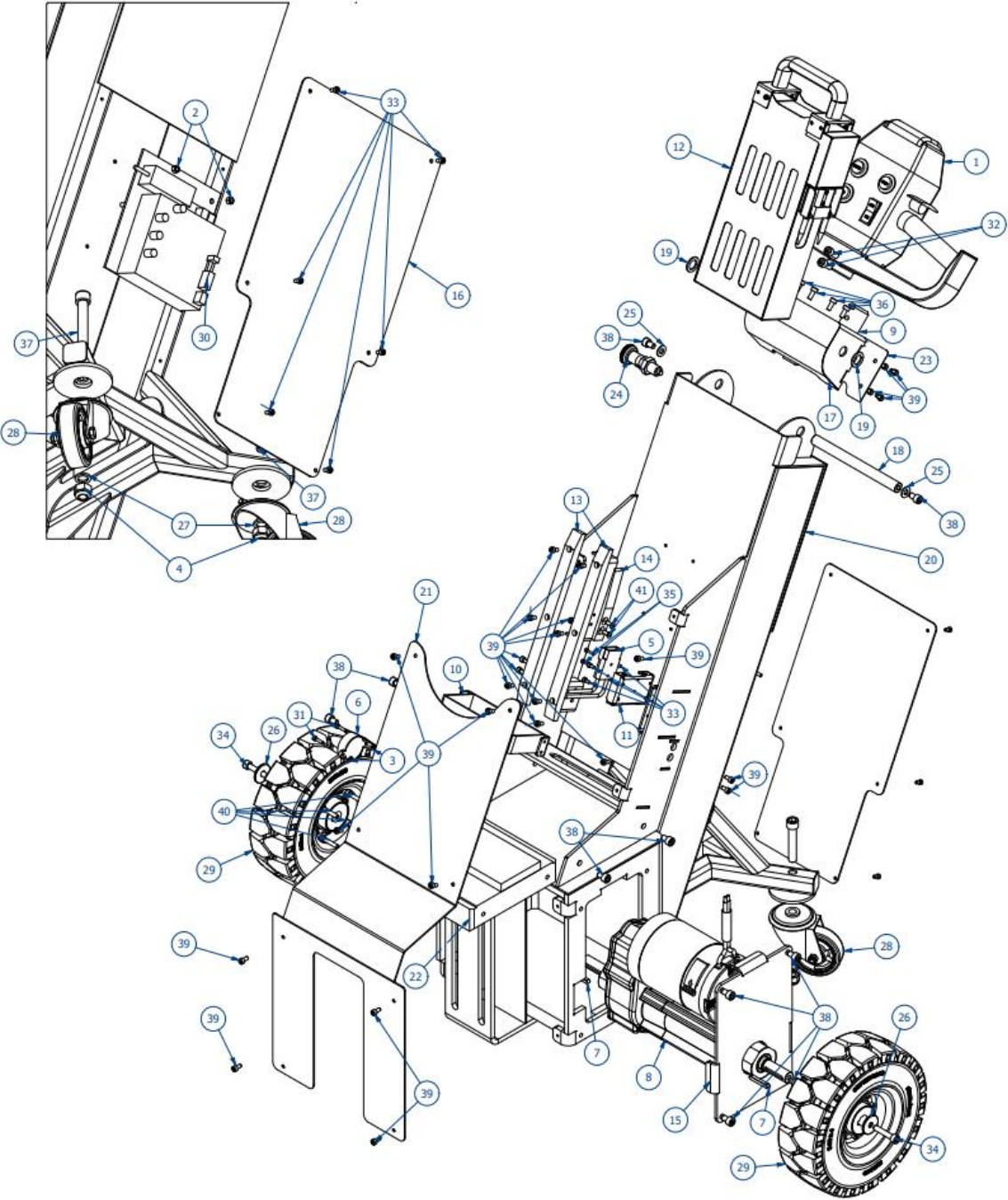
In case of anomalies or malfunctions in the **movicart** system, carefully observe the diagnostic LED and note the number of long and short flashes to identify the issue. Then, contact Renova support at support@renova-srl.com to receive assistance and resolve the anomaly



PLEASE NOTE:

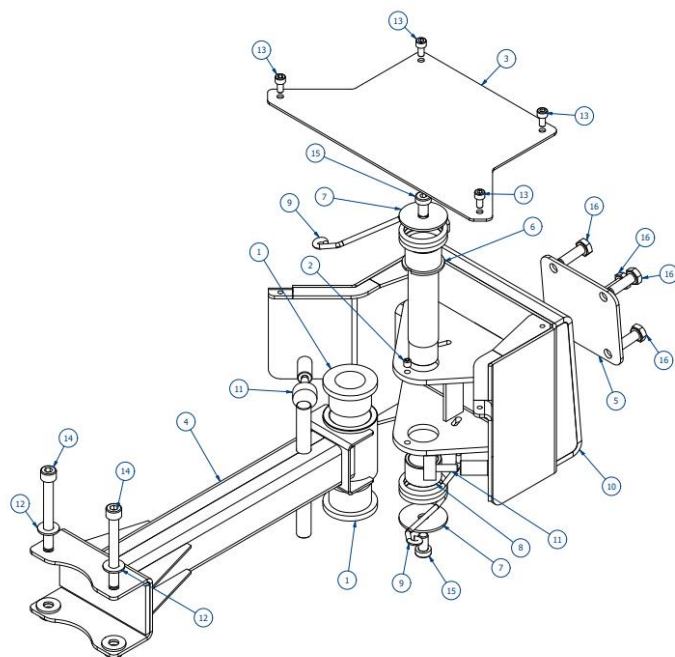
Please see warranty conditions on the warranty sheet.

components descriptions and codes



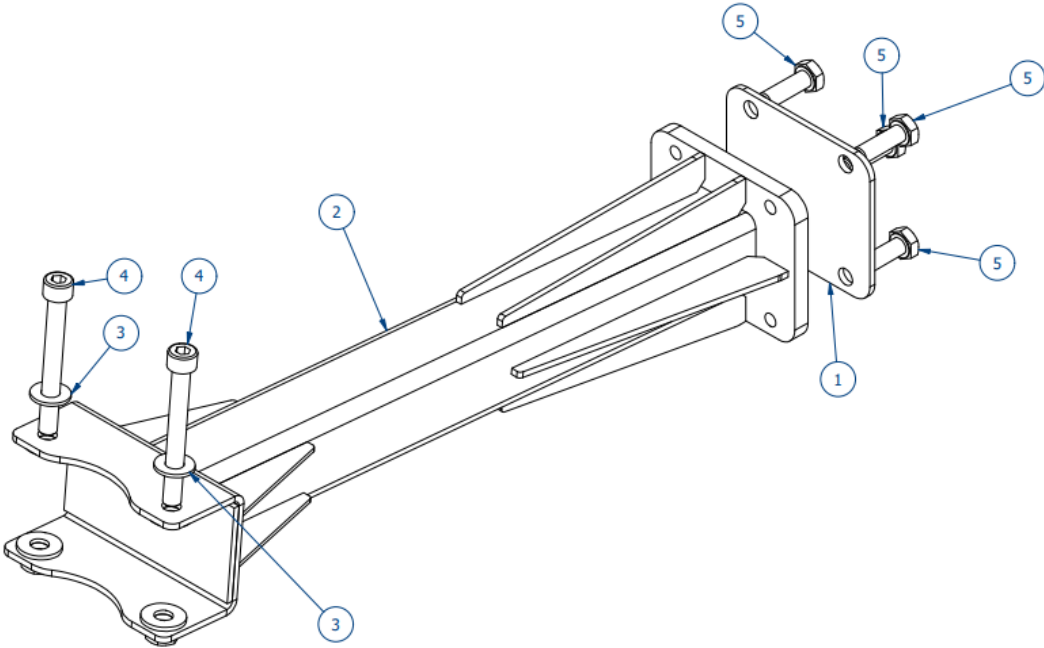
POSIZIONE	CODICE PER MODELLO		DESCRIZIONE	
	MTE1000	MTE1500		
1	A20-0012	A20-0012	Control header	1
2	D10-0001	D10-0001	Nut	2
3	D14-0004	D14-0004	Nut	2
4	D16-0002	D16-0002	Nut	2
5	E50-0001	E50-0001	Connector	1
6	E50-0080	E50-0080	Buzzer	1
7	L51-0028	L51-0028	Key	2
8	M68-0001	M68-0003	Motor gear	1
9	MCEP0050	MCEP0050	Handle head adapter	1
10	MREP0015	MREP0015	Upper battery tray	1
11	MREP0035	MREP0035	Battery fixed centering	1
12	KITBATT	KITBATT	Battery	1
13	MREP0349	MREP0349	Long battery guide	2
14	MREP0350	MREP0350	Short battery guide	1
15	MTEP0004	MTEP0004	Gearmotor support plate	1
16	MTEP0022	MTEP0022	Rear cover	1
17	MTEP0024	MTEP0024	Control head support	1
18	MTEP0025	MTEP0025	Axis	1
19	MTEP0026	MTEP0026	Nylon washer	2
20	MTEP0021	MTEP0029	Frame	1
21	MTEP0023	MTEP0031	Front cover	1
22		MTEP0034	Ballast	1
23	MTEP0037	MTEP0037	Control head support cover	1
24	P52-0002	P52-0002	Spring piston	1
25	R60-0002	R60-0002	Washer	2
26	R60-0004	R60-0004	Washer	2
27	R60-0010	R60-0010	Washer	2
28	R95-0006	R95-0006	Pivoting wheel	2
29	R95-0008	R95-0008	Rubber wheel	2
30	S15-0066	S15-0066	Electronic board	1
31	V50-0001	V50-0001	Screw	2
32	V50-0005	V50-0005	Screw	2
33	V50-0008	V50-0008	Screw	10
34	V50-0009	V50-0009	Screw	2
35	V50-0011	V50-0011	Screw	2
36	V50-0023	V50-0023	Screw	4
37	V50-0032	V50-0032	Screw	2
38	V50-0053	V50-0053	Screw	10
39	V50-0062	V50-0062	Screw	26
40	V50-0066	V50-0066	Screw	4
41	V53-0025	V53-0025	Screw	2

MTEP0112



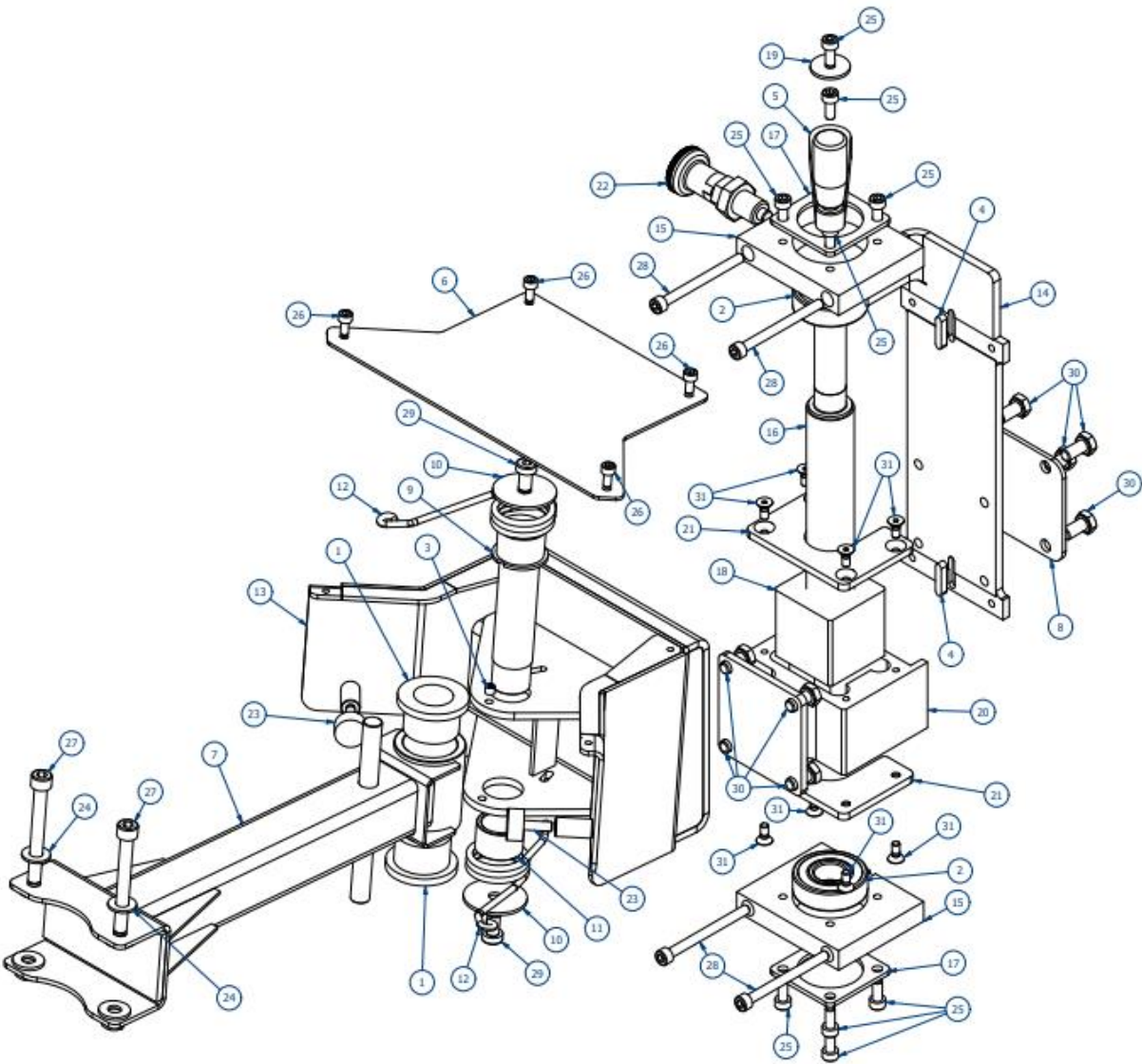
POSIZIONE	CODICE PER MODELLO		DESCRIZIONE	
	MTE1000	MTE1500		
1	B70-0021	B70-0021	Bronze bushing	2
2	G38-0008	G38-0008	Set screw	1
3	MTEP0028	MTEP0028	Cover plate attachments	1
4	MTEP0038	MTEP0038	Extension for attachments	1
5	MTEP0039	MTEP0039	Back plate for attachments	1
6	MTEP0040	MTEP0040	Shaft for front attachments	1
7	L51-0028	L51-0028	Key	2
8	MTEP0044	MTEP0044	Spacer	1
9	MTEP0047	MTEP0047	Spring	2
10	MTEP0049	MTEP0049	Plate	1
11	P90-0002	P90-0002	Puffer	2
12	R60-0002	R60-0002	Washer	2
13	V50-0062	V50-0062	Screw	4
14	V50-0115	V50-0115	Screw	2
15	V51-0022	V51-0022	Screw	2
16	V52-0019	V52-0019	Screw	4

MTEP0113

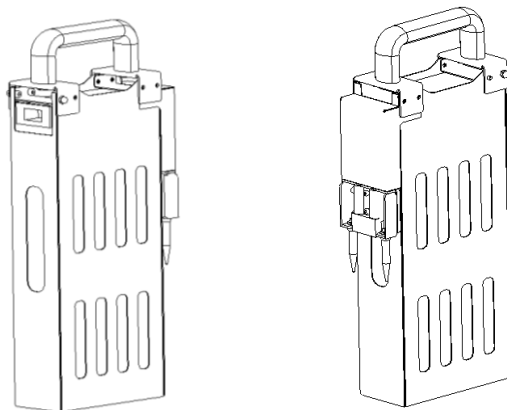


POSIZIONE	CODICE PER MODELLO		DESCRIZIONE	
	MTE1000	MTE1500		
1	MTEP0039	MTEP0039	Back plate for attachments	1
2	MTEP0109	MTEP0109	Fixed extension	1
3	R60-0002	R60-0002	Washer	2
4	V50-0115	V50-0115	Screw	2
5	V52-0019	V52-0019	Screw	4

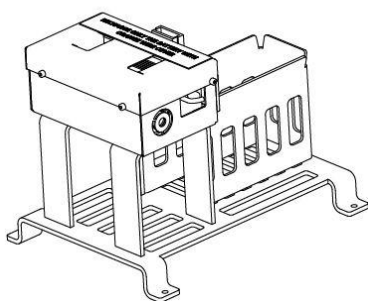
MTEP0114



POSIZIONE	CODICE PER MODELLO		DESCRIZIONE	
	MTE1000	MTE1500		
1	B70-0021	B70-0021	Bronze bushing	2
2	C30-0008	C30-0008	Ball bearing	2
3	G38-0008	G38-0008	Set screw	1
4	L51-0025	L51-0025	Key	2
5	M16-0001	M16-0001	Alluminium crank	1
6	MTEP0028	MTEP0028	Cover for plate for attachments	1
7	MTEP0038	MTEP0038	Extension for attachments	1
8	MTEP0039	MTEP0039	Back plate front attachment	1
9	MTEP0040	MTEP0040	Shaft	1
10	MTEP0042	MTEP0042	Washer	2
11	MTEP0044	MTEP0044	Spacer	1
12	MTEP0047	MTEP0047	Spring	2
13	MTEP0049	MTEP0049	Plate	1
14	MTEP0094	MTEP0094	Fixing plate	1
15	MTEP0095	MTEP0095	Plate for bearing	2
16	MTEP0098	MTEP0098	Threaded shaft for crank	1
17	MTEP0099	MTEP0099	Plate	2
18	MTEP0100	MTEP0100	Nut	1
19	MTEP0101	MTEP0101	Washer	1
20	MTEP0102	MTEP0102	Nut	1
21	MTEP0103	MTEP0103	Plate	2
22	P52-0002	P52-0002	Spring piston	1
23	P90-0002	P90-0002	Puffer	2
24	R60-0002	R60-0002	Washer	2
25	V50-0023	V50-0023	Screw	9
26	V50-0062	V50-0062	Screw	4
27	V50-0115	V50-0115	Screw	2
28	V50-0133	V50-0133	Screw	4
29	V51-0022	V51-0022	Screw	2
30	V52-0001	V52-0001	Screw	8
31	V53-0008	V53-0008	Screw	8



	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

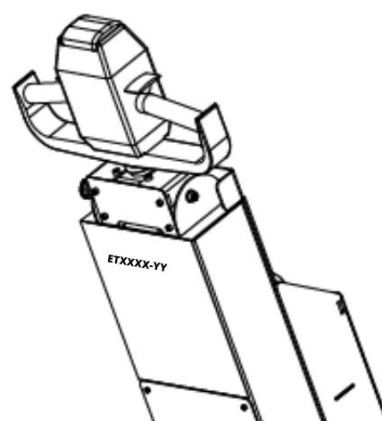
	KITCHRS220	Charger 220V 50-60 Hz
	KITCHRS110	Charger USA 110V 50-60 Hz

SPARE PARTS REQUEST

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

Each **movicart MTE** is provided with its serial number.
Please find the serial number of your **movicart MTE** stamped on the back of the **movicart MTE**.
Example in the picture on the right.

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



instructions for a proper use

movicart MTE 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 **movicart MTE** 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 **movicart MTE** on surfaces with obstacles and holes of big dimensions that may cause the detachment of one of the rollers from the roller drive.



ATTESTAZIONE DI VERIFICA DELLA CONFORMITÀ CONFORMITY VERIFICATION STATEMENT

in accordo all'ultima revisione del Fascicolo Tecnico costituito dall'azienda di seguito riportata.
according to the last revision of the Technical File issued, by the following company.

Verifica effettuata secondo i requisiti sotto riportati.
Verification done according to the below requirements.

Renova S.r.l. a socio unico

Sede legale/ Registered site: Via Palmanova 24 20132 Milano

Sede operativa e amministrativa/ Operative and Admin. site:

Viale Rimembranze 93, 20099 Sesto San Giovanni - Italia

dichiara che il/i seguente/i prodotto/i: / declares that the following product(s)

Descrizione <i>description</i>	Attrezzatura per la movimentazione di carrelli con 2 ruote fisse e due ruote pivotanti, su pavimenti piani e senza scalini o dossi <i>Equipment for handling trolleys with 2 fixed wheels and two pivoting wheels, on flat floors and without steps or bumps</i>
Nome <i>Name</i>	Movicart
Modello <i>Model</i>	MTE 1000 - M1500

è/sono conforme/i ai seguenti requisiti: / *fulfil(s) the following requirements*

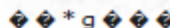
**alla Direttiva 2006/42/CE relativa alle macchine
(procedura di valutazione in accordo all'allegato VIII)**

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

Norma/e Applicata/e: / *applied standard(s)*
EN ISO 12100:2010

Revisione / Revision: A
Prima Emissione/ First issue: 28/10/2020
Data di Revisione/ Revision date: 16/01/2023

Procuratore Speciale
EUROCERTIFICATIONS S.r.l.



EUROCERTIFICATIONS S.r.l. (P.IVA: 04336060167)
Sede Legale: e Uffici Operativi: via Puccini, 1-20140 - Madone (BG)
tel. 035 4997726 fax 035 493471 e-mail: info@eurocertifications.it website: www.eurocertifications.it



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

RENOVA SRL A SOCIO UNICO

Sede legale-Legal site: Via Palmanova 24 20132 Milano

Sede operativa/amministrativa-Operative site: Viale Rimembranze 93, 20099 Sesto San Giovanni

DICHIARA CHE
/ DECLARE THAT

il prodotto/
the product

Attrezzatura per la movimentazione di carrelli

con 2 ruote fisse e due ruote pivotanti,
su pavimenti piani e senza scalini o dossi
Equipment for handling trolleys
with 2 fixed wheels and two pivoting wheels,
on flat floors and without steps or bumps

Descrizione /
description

Nome / Name

Movicart

Modello / Model

MTE 1000/ MTE 1500

Anno di

RENOVA_CONDIVISA

2023

fascicolo tecnico/

Production year

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

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

Amministratore /
General manager

UGO JACOPO RE

Nome / name

Funzione / function

Firma / signature

Luogo / Place MILANO Data / date 16/01/2023

La presente dichiarazione di conformità è rilasciata sotto la totale responsabilità esclusiva del fabbricante

This declaration of conformity is issued under the total 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 a socio unico Sede legale/legal site: Via Palmanova 24 20132 Milano Sede operativa/operative site: Viale Rimembranze 93 20099 Sesto San <u>Giovanni</u>(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	<u>Movicart</u> <u>Moviroll</u>
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.