



electric tug

MTE 6000 | MTE 6000S



operating instructions



This product complies with the Directive 2006/42/CE

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MANMTEENA4V0126

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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

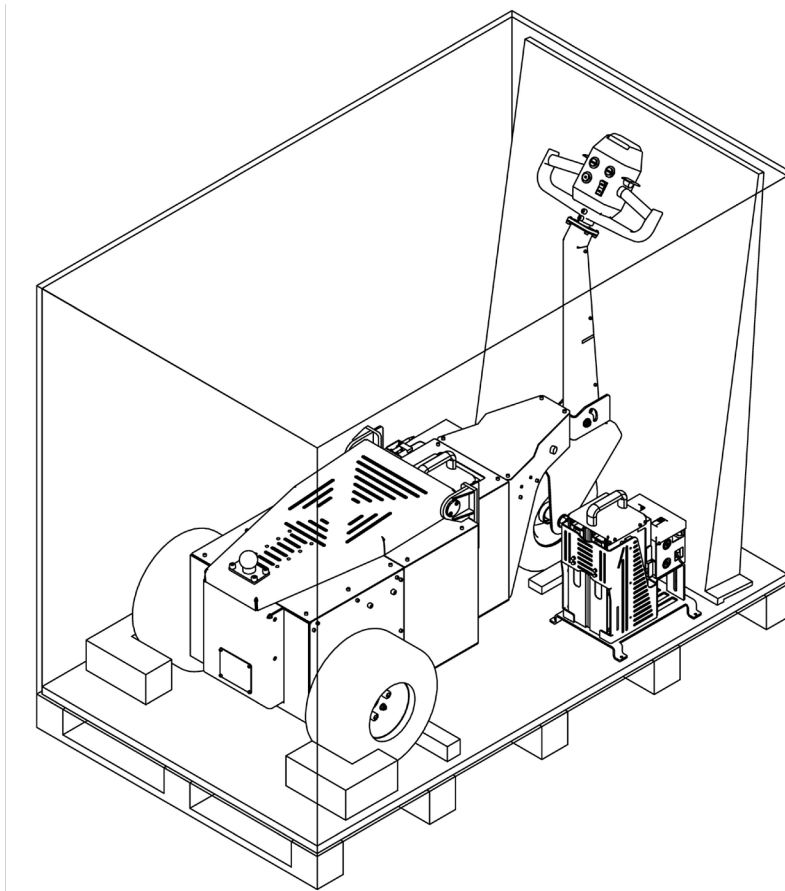
Renova is worldwide present with Agents and Distributors.

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.

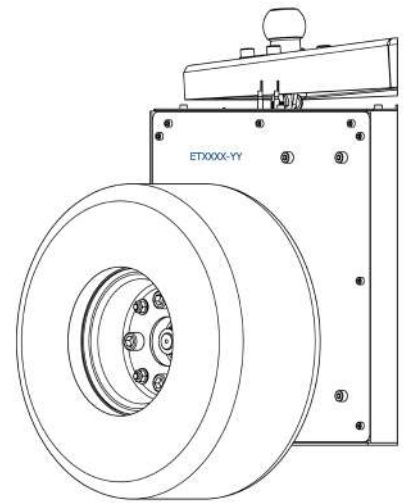
Please find the serial number of your **movicart MTE** stamped on the side of the **movicart MTE**.

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

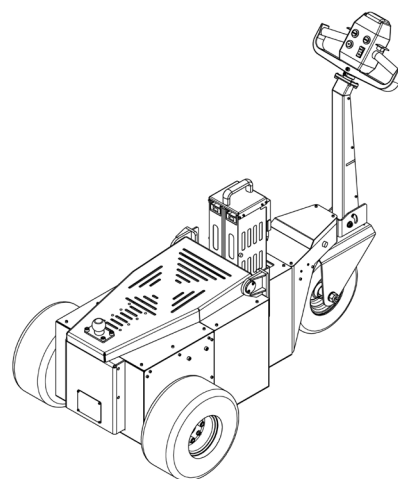


ATTENTION!

Use the **movicart MTE** only when GREEN and YELLOW LEDs. Do not use the **movicart MTE** with RED battery status LED to avoid any irreparably 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** electric tug. 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

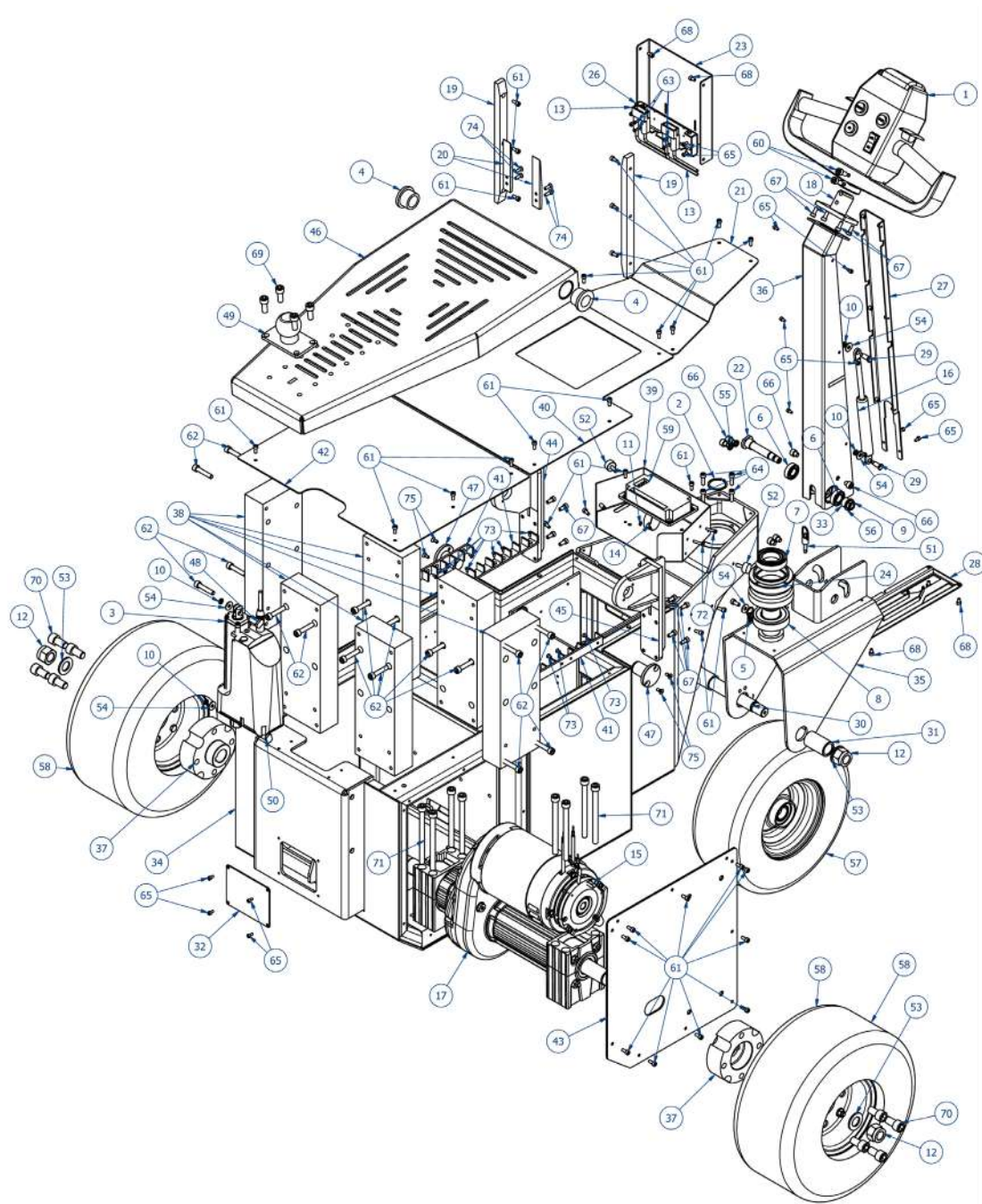
In case of anomalies or malfunctions in the **movicart** system, carefully observe the diagnostic LED and note the number of long and short flashes to identify the issue. Then, contact Renova support at support@renova-srl.com to receive assistance and resolve the anomaly



PLEASE NOTE:

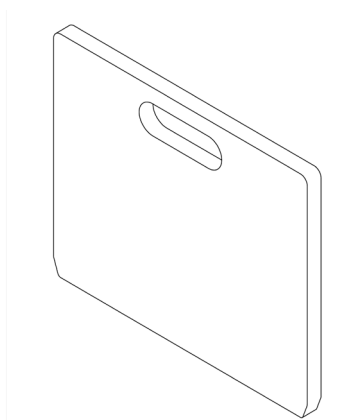
Please see warranty conditions on the warranty sheet.

components descriptions and codes

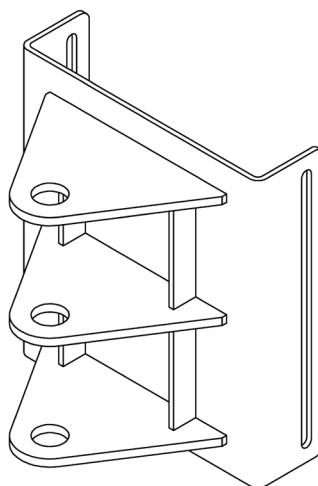
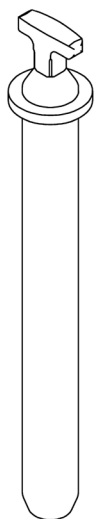


POSITION	CODE PER MODEL		DESCRIPTION	
	MTE6000	MTE6000S		
1	A20-0012	A20-0007	CONTROL HEADER	1
2	A70-0020	A70-0020	SEEGER RING FOR SHAFT D=35	1
3		A95-0014	LINEAR ACTUATOR	1
4		B70-0021	FLANGED BUSHING	2
5	C10-0028	C10-0028	CHAIN FOR STATIONARY POSITIONING	1
6	C30-0033	C30-0033	RADIAL BALL BEARING	2
7	C30-0061	C30-0061	RADIAL BALL BEARING	1
8	C36-0001	C36-0001	SINGLE-ROW ANGULAR CONTACT BALL BEARING	1
9	D14-0002	D14-0002	LOW HEXAGONAL NUT	1
10	D14-0003	D14-0003	LOW HEXAGONAL NUT	4
11	D14-0004	D14-0004	LOW HEXAGONAL NUT	2
12	D16-0005	D16-0005	SELFLOCKING NUT	3
13	E50-0001	E50-0001	LOWER ANDERSON CONNECTOR	2
14	E50-0080	E50-0080	BUZZER 24V	1
15	L51-0039	L51-0039	ARROWED LINGUETTE	2
16	M42-0001	M42-0001	GAS COMPRESSION SPRING	1
17	M68-0006	M68-0006	GEARED MOTOR WITH DIFFERENTIAL	1
18	MCEP0050	MCEP0050	HANDLE HEADER ADAPTER	1
19	MREP0349	MREP0349	LONG BATTERY GUIDE	2
20	MREP0350	MREP0350	SHORT BATTERY GUIDE	2
21	MTEP0056	MTEP0056	REAR CASING	1
22	MTEP0058	MTEP0058	AXLE FOR HANDLE	1
23	MTEP0060	MTEP0060	BENT PLATE FOR BATTERY CENTERING	1
24	MTEP0064	MTEP0064	FORK BEARING FLANGE	1
26	MTEP0072	MTEP0072	FIXED BATTERY CENTERING	1
27	MTEP0074	MTEP0074	HANDLE CARTER	1
28	MTEP0075	MTEP0075	HANDLE CABLE CASING	1
29	MTEP0076	MTEP0076	GAS SPRING FIXING AXLE	2
30	MTEP0077	MTEP0077	REAR WHEEL AXLE	1
31	MTEP0078	MTEP0078	REAR WHEEL SPACER BUSHING	1
32	MTEP0080	MTEP0080	FRONT CRANKCASE ACTUATOR	1
33	MTEP0081	MTEP0081	BUSHING SPACER HANDLE	1
34	MTEP0124	MTEP0124	FRAME	1
35	MTEP0126	MTEP0126	WELDED REAR WHEEL FORK	1
36	MTEP0128	MTEP0128	WELDED HANDLE	1
37	MTEP0130	MTEP0130	FRONT WHEEL FLANGE	2
38	MTEP0131	MTEP0131	ENGINE BALLAST	6
39	MTEP0133	MTEP0133	ELECTRONIC BOARD SUPPORT	1
40	MTEP0134	MTEP0134	CENTER CASING	1
41	MTEP0135	MTEP0135	PLASTIC BALLAST GUIDE	3
42	MTEP0136	MTEP0136	FRONT CASING	1
43	MTEP0138	MTEP0138	GEARMOTOR SIDE CASING	1

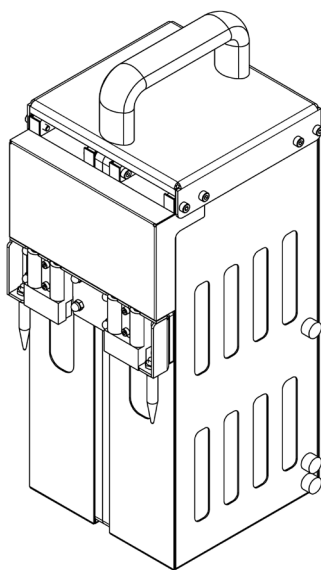
44		MTEP0139	LIFTER PLATE SUPPORT RIGHT	1
45		MTEP0140	LIFTER PLATE SUPPORT LEFT	1
46		MTEP0141	LIFTER PLATE	1
47		MTEP0142	LIFTER PLATE AXIS	2
48		MTEP0143	UPPER ACTUATOR AXIS	1
49		MTEP0147	BALL HOOK Ø50	1
50		MTEP0154	LOWER ACTUATOR AXIS	1
51	P52-0004	P52-0004	POSITIONING PLUNGER	1
52	P90-0002	P90-0002	RUBBER PUFFER Ø20 M6	2
53	R60-0005	R60-0005	WASHER	3
54	R60-0006	R60-0006	GALVANIZED WASHER	5
55	R60-0016	R60-0016	KNURLED SAFETY ESCUTCHEON	6
56	R60-0021	R60-0021	FLAT WASHER	1
57	R95-0009	R95-0009	BLACK PNEUMATIC WHEEL RIFLED	1
58	R95-0013	R95-0013	BLACK PNEUMATIC WHEEL	2
59	S15-0079	S15-0078	ELECTRONIC BOARD	1
60	V50-0005	V50-0005	TCCE SCREW - GALVANIZED	2
61	V50-0007	V50-0007	TCCE SCREW - GALVANIZED	38
62	V50-0009	V50-0009	TCCE SCREW - GALVANIZED	16
63	V50-0011	V50-0011	TCCE SCREW - BURNISHED	4
64	V50-0014	V50-0014	TCCE SCREW	4
65	V50-0017	V50-0017	TCCE SCREW - GALVANIZED	16
66	V50-0022	V50-0022	TCCE SCREW - BURNISHED	6
67	V50-0023	V50-0023	TCCE SCREW - BURNISHED	13
68	V50-0027	V50-0027	TCCE SCREW - GALVANIZED	8
69		V50-0038	TCCE SCREW	4
70	V50-0123	V50-0123	TCCE SCREW	8
71	V50-0124	V50-0124	TCCE SCREW	8
72	V51-0002	V51-0002	LOWERED TCCE SCREW - BURNISHED	2
73	V53-0003	V53-0003	TSCE SCREW - GALVANIZED	12
74	V53-0005	V53-0005	TSCE SCREW	4
75		V53-0008	TSCE SCREW - BURNISHED	4



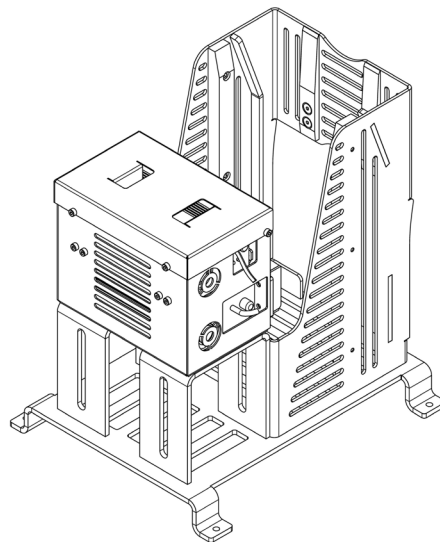
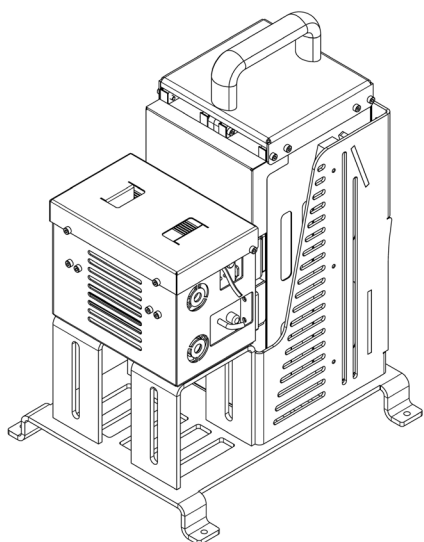
	MTEP0127	BALLAST
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	MTEP0229	AXIAL PLUG
	MTEP0132	PLUG HOOK



	KITBATTMTE6000	24V 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

	KITCHRDB110	CHARGER 110V 50-60 Hz
	KITCHRDB220	220V 50-60 Hz CHARGER

SPARE PARTS REQUEST

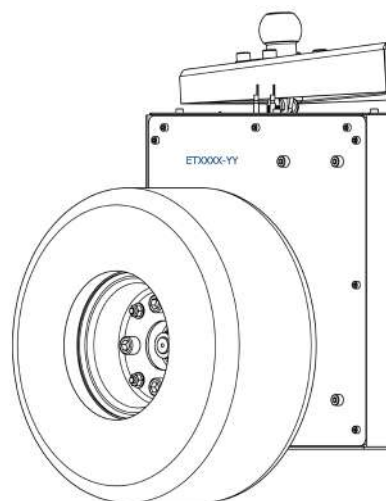
Please always communicate the serial number of your **movicart MTE** when requiring spare parts together with the code of the spare parts needed.

Each **movicart MTE** is provided with its serial number.

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

To move the load, it is necessary to connect the **Movicart MTE** to the cart or the load using the provided attachment. Once the connection is made, the machine is ready for use.

- Do not use **movicart MTE** on surfaces with obstacles and holes of big dimensions.



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 description	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
Nome Name	Movicart
Modello Model	MTE 1000 - M1500

è/sono conforme/i ai seguenti requisiti: / fulfills 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.

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EUROCERTIFICATIONS S.r.l. (P.IVA: 04336060167)
Sede Legale: e Uffici Operativi: via Puccini, 1-24040 - Madone (BG)
tel. 035 4997726 fax 035 4943471 e-mail: info@eurocertifications.it website: www.eurocertifications.it



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	Trainatore
Nome / Name	MOVICART
Modello / Model	MTE 6000/ MTE 6000S
Anno di fabbricazione e costituzione fascicolo tecnico/ Production year	2024
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 compilare 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 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.

