-moviroll

pneumatic roll pushers

MR 100 | MR 100 S | MR 200 | MR 200 S MR 100 K | MR 100 SK | MR 200 K | MR 200 SK MR 100 H | MR 100 SH |MR 200 H | MR 200 SH MR 100 L | MR 100 SL | MR 200 L | MR 200 SL







MANMRENA4V0421

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This product complies with the Directive 2006/42/CE

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introduction

Dear customer, Thank you for purchasing Renova's **moviroll**.

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.

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 this 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.

The warranty does not apply in cases which occur as a result of the Customer's 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.

foreword

moviroll is a roll pusher that allows the operator to effortlessly handle cylindrical loads on a flat surface. The machine is driven by a pneumatic gear motor that is activated by pressurized and lubricated air at 6 bar.

The activation of this gear motor allows the transmission of the circular motion to a pyramidal system composed of three rubber rollers.

Thanks to the chain drive, the motion is transferred from the pinion fit to the gear motor to the pinion fit to the drive roller. When the drive roller is touching the roll, it has been compressed by the roll weight against the driving rollers. In this way the continuous and effortless handling of the roll is guaranteed but only when the load is applied.

In the case that the device is activated without the load, the drive roller will run free, since the springs that hold it detached from the drive rollers would not be compressed.

advices

- The manufacturer's instructions must be read and completely understood before the installation and use of the product and, in the case of breakdown, before any check intervention or recourse at the Renova's technical assistance.
- The operator must understand the manufacturer's instructions and be aware of the dangers.
- A hearing protection must always be used.
- A safety valve must always be installed in the case of broken pipe or air connector.
- moviroll is exclusively designed to move cylindrical loads as paper and corrugated rolls, wood and steel rolls, and vehicles.
- **moviroll** must not be used to brake heavy loads which run toward the machine.
- 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.
- moviroll is fitted with a chain and sprocket transmission. This transmission is covered by a carter that is affixed with two screws so that nothing can come into contact with the chain. It is obligatory to keep the carter mounted for safety reasons.

mounting and installation

INITIAL CONTENT OF THE BOX

standard kit	
✓ moviroll*	x1
✓ handle	x1
✓ air valve	x1
*MR100/MR100S –	MR200/MR200S

air supply kit * optional			
\checkmark	spiral pipe 15m 12x15	x1	
\checkmark	lubricator filter ½ "	x1	
\checkmark	pipe fitting	x1	
*c	ode MVRK001		

Air supply kit (optional) already set in conjunction with the motor

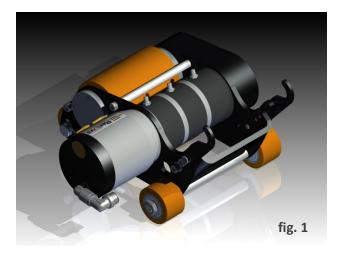


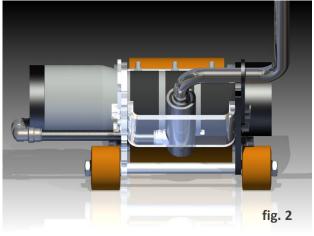
ASSEMBLY

The assembly is made through rapid and simple operations.

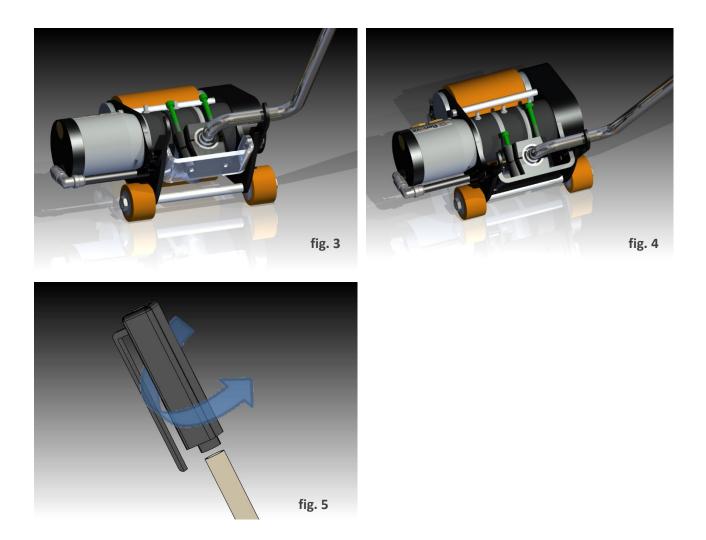
- 1. Initial situation after the removal from the box (fig.1)
- 2. Insert the supply pipe into the pipe fitting of the motor (fig.2)
- 3. Place the fastener in its fixing position paying attention to the correct alignment of the handle in relation to the mechanical lock for the rotation (fig.3)
- 4. Lock the two screws of the fastener using a medium threadlocker (Loctite Blue) in order to ensure a perfect tightening of the handle (fig.4)
- 5. Screw the air valve at the end of the handle (fig.5)
- 6. Screw the male connector of the pipe fitting of $\frac{1}{2}$ " at the air valve
- Install the filter-lubricator on your pneumatic line paying attention to adjust the output pressure at 6 bar and setting a lubrication as recommended at page 9
- 8. Connect the filter-lubricator and the moviroll with the spiral pipe 12X15

Connect your pneumatic line to the device trying to eliminate bottlenecks and air loss. The machine works at 6 bar air pressure. Please find the air consumption schedule at page 9. It is important to verify that along the length of the air supply there is no reduction of the air pipe or air loss. This could create a power loss of the machine with poor performance.



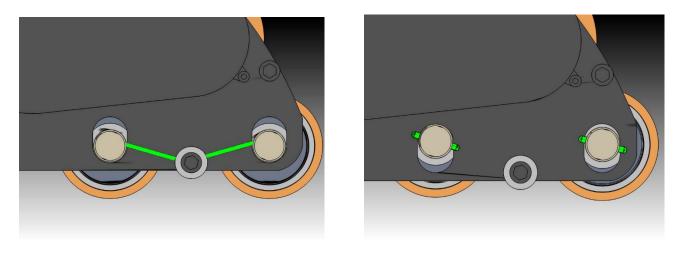






USE WITHOUT COUNTER SPRINGS

Counter springs are mounted on the device. They allow the rollers to get into contact between them. The springs are designed and calibrated to guarantee the contact between the 3 rollers only when compressed by the roll weight. In the case you prefer and use without counter springs, it is possible to remove them and insert some split pins into the holes drilled at the ends of the pins. In this way a continuous contact is guaranteed between the drive roller and the transport rollers.





INSTALLATION

Below please find some simple steps and devices to better use this quality product. The pneumatic motor air supply is essential for the correct functioning of the **moviroll**. You need to follow small but essential measures in order to achieve maximum performance without loss of power or machine malfunctions

The pneumatic motor on **moviroll** needs treated compressed, filtered and lubricated air at **6-7 bar**. In the case the air flow that supplies the **moviroll** is lower, or the air pressure is under 6 bar, or even, the air is not treated and lubricated, it is not possible to guarantee optimal performance of the device.

PNEUMATIC LINE DIMENSIONING

A pipe with an internal diameter not less than to 12mm must to be used to provide the right air flow that supplies the motor. A great attention must to be paid to pipes-fitting and pipes along the pneumatic line that supplies **moviroll**.

EXAMPLE OF A CORRECT MOVIROLL SUPPLY

This is a simple example of how dimensioning the pneumatic supply. A direct connection from the pneumatic line to the air valve of the **moviroll** it is also possible. This allows to avoid pipes-fitting, but it is important to have no reduction in any section (less than 12 mm) along the air path.

1.

The first step is connecting to the lubricator or directly to the pneumatic line (not recommended), with a super pipe-fitting or a pipe-fitting by safe lockring with an internal flow **above or equal** to 12 mm.



Pipe-fitting tube 12X15 with thread of $\frac{1}{2}$ " and air flow internal diameter **15 mm.**



Spiral pipe 15 mt. **12X15** mm pressure rating up to 10 bar.

2.

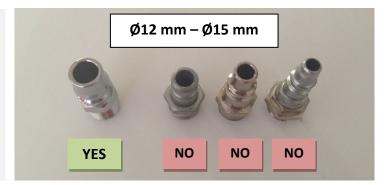
Connect a pipe with an internal diameter of at least 12 mm and a length depending on the distances you need to cover.

3.

Connect the end of the tube to a pipe-fitting as shown in the picture. The male pipe-fitting must have an **internal diameter greater than 12 mm**.



Correct pipe-fitting selection.





4.

Connect the output of the pipe-fitting to the air valve of the **moviroll**.



OPERATING PRESSURE



moviroll correctly works in a pressure range that goes from 6 to 7 bar.

It is important to verify that the input pressure does not drop under 6 bar when running motor.

In the case the pressure drops under this value, increase the pressure that supplies the **moviroll** to obtain a work pressure of about 6 bar continuously.

LUBRICATION AND AIR FILTERING - GREASING REDUCTION GEAR)



For a proper pneumatic motor functioning and for long life of the vanes, **moviroll** is provided with a lubricator with a filter for the lubrication and filtering of the air that supplies the **moviroll** following the parameters below:

Filtering \rightarrow 64 μ or better

Recommended air lubricants:

BP	STATOIL	Q8	MOBIL	ОК	SHELL	TEXACO
EnergolRD- E 46	AroxEP 68	Chopin46	Almo oil525	PneutoolOil K68	Torcula68	RD Lube32

Use grease as **GULBELLS RASK HS** multipurpose grease for high loads.

model	pressure [bar]	Consumption [NI/min]	Oil quantity [mm3/min]	greasing
MR100 / MR100S	> 6-7	1400	60-70	fill every 70 h
MR200 / MR200S	> 6-7	2800	120-140	fill every 70 h

The non-compliance with the above parameters may cause damage to the internal components of the motor. In this case Renova srl disassociates itself from any responsibility. Any foreign matter that gets into the motor such as dirt, metallic powder or other, may cause a permanent damage and the subsequent seizure of it. The greatest attention must be paid to the methods of air filtering.

AIR PRESSURE

The recommended air pressure is about 6 bar constants (85 psi). A lower air pressure leads to a performance reduction. A higher air pressure may damage the motor.

use and maintenance

After the mounting and the installation according to the correct parameters it is possible starting to use the **moviroll**.

Place **moviroll** in front of the roll and in contact with it. After checking there are not obstacles along the way, press the valve lever of the handle and drive the roll effortlessly to the desired destination.

To perform the lift up of the roll on sliders, place the roll in contact with the slider and afterward place **moviroll** at the center of the roll length. Then gradually press the air lever until the complete lift up of the roll.

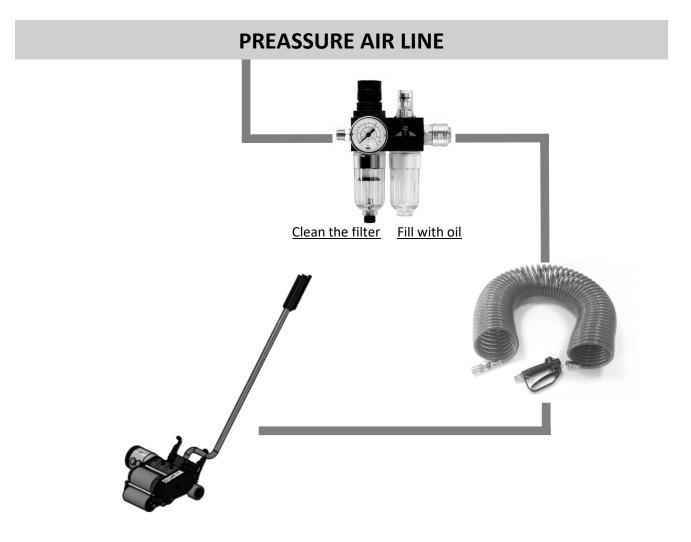
Never exceed the weight limit allowed and guaranteed by the **moviroll**. The excessive effort required for a not permitted load may cause irreversible damage to the motor and other components.

The drive roller and the transport rollers must be kept clean from dust, oil and grease.

If the device loses power please check:

- air pressure
- lubrication
- check and clean the air filter of motor entry.

The correct tightening of the threaded elements must be checked every 4 months. The weak or medium thread lockers (Loctite Blue) must be used in the case the screws are disassembled and then assembled again.



INSTRUCTIONS FOR A PROPER USE

① **moviroll** versions MR100S and MR200S with curved handle must be used with the handle in their appropriate locations (see the drawing). Any other position or use of the handle doesn't guarantee the integrity of the handle itself.

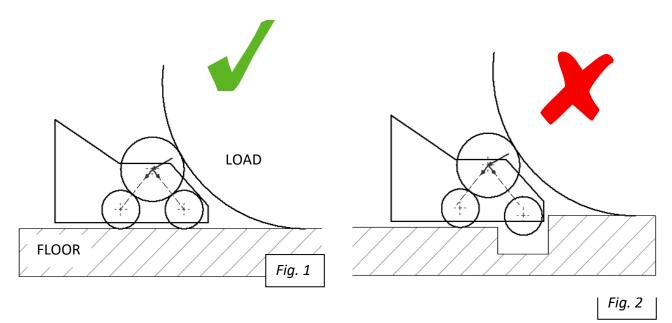


① Never use the **moviroll**'s handle as lever to lift loads especially during the phase of roll pushing.

① It's strongly advised to not touch the roll with the **moviroll** when the **moviroll** motor is at maximum power and when the roll is rolling towards the **moviroll** itself (improper use of the **moviroll** as brake).

① Renova's **moviroll** is provided with its original air supply kit (code MVRK001) in order to ensure the maximum performance and durability of **moviroll**. If supplying **moviroll** with untreated air, a power reduction of up to 70% is possible and the premature wear of its internal parts may occur. The warranty on **moviroll** will be void in the case Renova's air supply kit is not used.

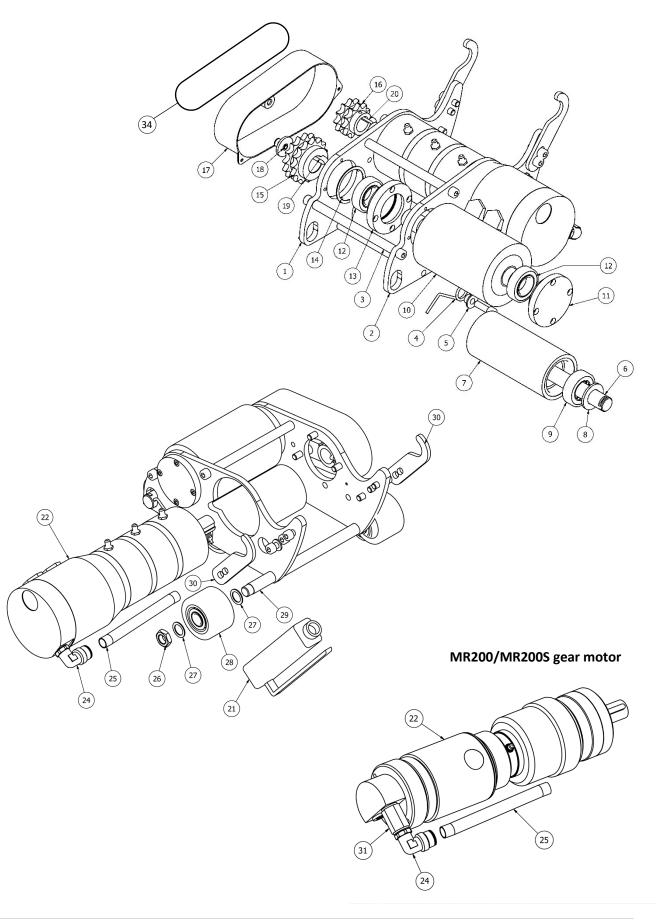
① Do not use **moviroll** on surfaces with obstacles and holes of big dimensions that may cause the detachment of one of the rollers from the roller drive. Figure 1 shows how the weight of the roll/load should be unloaded on the rollers. Figure 2 shows an example of how **moviroll** should not work in 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.



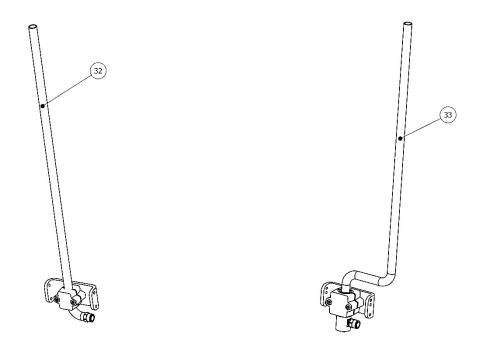
CHANGE OF THE VANES OF THE PNEUMATIC MOTOR

A correct lubrication and a proper air filtering as recommended, ensure excellent performance of the motor over time. However, vanes subject to wear are present into the motor. The useful life of the vanes varies from 5,000 to 15,000 hours. This depends mainly on the air filtering and lubrication, the pressure, the speed of the motor and on the proper preventive maintenance. For replacement, revision and maintenance of your **moviroll** we recommend you to consult Renova srl.



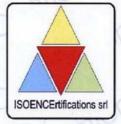


Position	Position Description		le	Quantity	
			MR200		
		MR100S	MR200S		
1	chassis right side cover	MVRP0002	MVRP0033	1	
2	chassis left side cover	MVRP0001	MVRP0032	1	
3	chassis pull-rod	MVRP0021	MVRP0021	3	
4	spring	MVRP0019	MVRP0019	2	
5	spring support	MVRP0020	MVRP0020	2	
6	rubber roller axis	MVRP0015	MVRP0015	2	
7	assembled rubber roller	MVRP0018	MVRP0018	2	
8	galvanized washer	R60-0005	R60-0005	4	
9	ball bearing for pos. 7	C30-0008	C30-0008	4	
	rubber shaft				
10	all models (except MR L) MR L	MVRP0031 MVRP0048	MVRP0031 MVRP0048	1	
11	closed flange for pos. 10	MVRP0024	MVRP0024	1	
12	ball bearing for pos. 10	C30-0004	C30-0004	2	
13	open flange for pos. 10	MVRP0025	MVRP0025	1	
14	seeger ring for internal hole	A70-0003	A70-0003	1	
15	gear box double roller drive for pos. 10	130-0001	130-0001	1	
16	gear box double gear chain pos. 22	130-0002	130-0002	1	
17	chain gear box – roller drive cover	MVRP0026	MVRP0026	1	
18	oversized plain washer	R60-0004	R60-0004	1	
19	rounded key for pos. 10	L51-0004	L51-0004	1	
20	rounded key for pos. 22	L51-0005	L51-0005	1	
21	air valve	P50-0001	P50-0001	1	
22	gear motor serial number P/AA serial number PH/AA	M70-0001 M70-0006	M70-0002 M70-0008	1	
22	serial number PK/AA	M70-0009	M70-0010 R10-0002	4	
23	pipe fitting 90°	R10-0002		1	
24	rapid fitting 90°	140-0005	140-0005	1	
25	air supply pipe-motor MR / MR L MR S / MR SL MR H MR SH	T80-0008 T80-0007 T80-0021 T80-0020	T80-0010 T80-0009 T80-0022 T80-0023	1	
	MR K MR SK	T80-0024 T80-0025	T80-0026 T80-0027		
26	hexagon nut	D14-0001	D14-0001	2	
27	wheels washer	R60-0001	R60-0001	4	
28	rear wheels	MVRP0013	MVRP0013	2	
29	rear wheels axis	MVRP0010	MVRP0010	1	
30	mechanical stop for curved handle 'S'	MVRP0009	MVPR0009	2	
31	extension fitting M/F 3/8"G	/	MVPR0035	1	
34	Chain	C10-0001	C10-0001	1	



Position	Description	Code	
		MR100	MR200
		MR100S	MR200S
	air supply kit	MVRK001	MVRK001
32	straight handle kit	MVRK002	MVRK002
33	curved handle kit	MVRK003	MVRK003

ISOEN*CErtifications* s.r.l.



DICHIARAZIONE DI CONFORMITA' DECLARATION OF CONFORMITY

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 with the following requirements to which the undersigned is subject transposing

RENOVA S.r.I. Viale Rimembranze 93 I - 20099 Sesto S. G. (MI)

DICHIARA CHE / DECLARE THAT

il prodotto/ the product

SPINGIBOBINA

Modello / Model

MOVIROLL

Anno di fabbricazione / Production year 2012

E' CONFORME /FULFILS alle seguenti Direttive Europee: /the requirements of the Directive:

Direttiva 2006/42/CE relativa alle Macchine

directive 2006/42/EC "Machinary directive"

Milano, Data di Emissione del Certificato: 25/09/2012





L'amministratore unico ing. Sergio Müller

Sede legale: Via Londonio, 28 - 20154 Milano - Italy Uffici operativi: Via Puccini, 1 - (Via Verdi, 1/F) - 24040 Madone (BG) Tel. : +39 035 4997726 Fax : +39 035 4943471

DICHIARAZIONE DI CONFORMITÀ

DECLARATION OF CONFORMITY

EN 17050:2005

MILANO / /

RENOVA s.r.l.

Viale Rimembranze 93 - 20099 - Sesto S.G. - MILANO

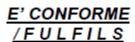
DICHIARA CHE DECLARE THAT

il prodotto/ the product

Descrizione / description Modello / Model N° serie / serial number Anno di fabbricazione/ Production year

Spingibobina

MOVIROLL



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

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

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

Ugo Re

Amministratore / General manager

Nome / name

Funzione / function

Firma / signature



NOTES





Renova srl – viale Rimembranze 93 – 20099 Sesto San Giovanni - Italy – tel: +39.02.2700.7394 – fax: +39.02.2570.8635 www.renova-srl.com – email: support@renova-srl.com