

MENEGOTTI TECHNICAL MANUAL

CONCRETE MIXER 600L

QR-Code:



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www.sites.google.com/view/menegotti-engenharia-docs

Attention:

Before operate **Menegotti** equipment, read this **technical manual**, itself will inform and instruct the operator about the operation.

By the way, you avoid possible working accidents and early maintenance on at the equipment.



MENEGOTTI[®]
CONSTRUCTION

Congratulations on purchasing a Menegotti product!

With the highest quality, designed and built especially to serve you with technology to suit your needs.

This manual was written to provide you with the information and instructions necessary for the use and maintenance of our equipment, as well as to present you with data relating to its technical characteristics.

Before you put your equipment into operation for the first time, carefully read the information contained herein.

The durability of your equipment depends only on the way it is treated during service (operation) and its satisfactory performance is the result of your careful work, carried out regularly.

Menegotti is prepared to offer you all the necessary technical assistance, as well as to meet your needs for spare parts.

Welcome, you are now a part of the great Menegotti "client family".

MENEGOTTI After Sales and
Technical Assistance departments.

Caution: For best convenience, keep this manual in a appropriate place where it can be consulted when necessary.

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Menegotti Group

Menegotti is reference in the development of solutions in machines and tools for the Construction machinery, Handling and Lawn | Garden Segments.

A Brazilian company, present in more than 40 countries, has its headquarters in Jaraguá do Sul, Santa Catarina, units in Brazil and in the United States.

With more than 80th years of history, it is in the fourth generation of consistent and successful family management.

National leader in sales of concrete and cement mixers, it stands out in the resale and rental market.

Through its Innovation Program, it fosters creativity and competitiveness, with disruptive actions and partnerships, aimed at continuous professional and business growth.

With an organizational culture that values and encourages its constant professional and personal development, Menegotti is active in sustainable projects, which make its purpose of contribute "to build a better and more sustainable world", a reality.



The Product

This equipment is designed for civil construction work with excellent performance and low maintenance. The one responsible for the drum's rotation is an electric or combustion motor, which is driven by a system and motor pulleys with V-belts. The system of discharge is manual and presents mechanisms of transmission that facilitate its operation demanding the minimum of human effort. This equipment have triple-effect mixing blades that increase its efficiency.

Note: With the aim of constantly improving their equipment, Menegotti reserves the right to change the features of the product without notice.

Safety Informations

This manual must be completely read before any operation. On it there is useful information about the product, manufacturer, safety, replacement parts, maintenance and conservation. Keep this manual, on a proper place, so it may be consulted when necessary.



- Before using this equipment, carefully, read this manual and follow the Manufacturer's information, such as, how to reduce the risk of accidents in operation.



- It is expressly prohibited to remove or alter any safety device or feature, if it occurs Menegotti will not be held responsible.

- Use the equipment according to the instructions on this manual.

- In case of damage or missing parts, contact Menegotti on our telephone number +55 (47) 3275-8000 for replacement.

- With the machine turned off, conduct a daily inspection of the machine's parts. In case of problems, immediately contact Menegotti's authorized service.



- Maintain a limited area exclusive for working with the equipment, always keeping this place clean, without obstructions and with proper illumination.

- The operator must be trained or qualified to operate this equipment.

- Do not use clothing that is too loose and which might get caught in the machine.



- Always wear gloves, safety gloves and ear protection.
- The motors must be installed by qualified professionals.
- Perform the maintenance recommended on this manual with qualified people and within the correct periods.
- Inspect all electrical, mainly regarding cuts, cable friction and broken connections.



- Never use extensions that are not in good conditions.
- Never use wet extensions or operate in wet environments (i.e. Puddles).
- When cleaning the equipment, never throw water on the motor.



- Whenever performing maintenance on this equipment, disconnect the power cable from its source.
- Avoid contact with hot surfaces.
- Before performing any activity or maintenance, first let the motor cool down.
- Avoid contact with rotating parts.

Technical Specifications

DRUM VOLUME	600L
WET MIX INPUT	400 L
DRY MIX INPUT	440 L
NUMBER OF CYCLES / HOUR	15 Cycles
HOUR PRODUCTION	7m ³ /h
DRUM ROTATION	28RPM (60HZ)
ELECTRIC MOTOR	THREE PHASE 7,5CV 60HZ 4P 220V/380V
BELT	3 V-BELTS A-85
WEIGHT WITHOUT MOTOR/ENGINE	580KG
DIMENSIONS (LxWxH)	2263 x 1380 x 1715mm
WHEEL	STEEL SHEET

OPTIONAL	
WHEELS	PNEUMATIC RIM14
GASOLINE ENGINE	HONDA 13HP
DIESEL ENGINE	TOYAMA 10HP BRANCO 10HP

Main Components

CONCRETE MIXER 600L	
1	DRUM
2	STEEL YOKE
3	MOTOR BOX
4	CHASSI
5	WHEEL
6	GEAR RACK PROTECTION



Equipment supplied with Combustion Engine

- Never inhale exhaust fumes as this can be harmful to your health;
- The Carbon monoxide from the exhaust of internal combustion engines can cause death if used in confined spaces;
- Do not operate or refuel the gasoline or diesel engine in a confined space without sufficient ventilation;
- Do not fuel the equipment when the engine is hot, this could become very dangerous and ensure that there is sufficient ventilation during this procedure;
- Do not touch the engine when it is running as it can burn your skin;
- Use fuel according to engine model;
- Do not use fuel of doubtful origin;
- To prevent electric shock, never touch the spark plug while the engine is running;
- The correct use, cleaning and maintenance of combustion engines must always be in accordance with the instructions contained in the manual of the engine manufacturer.

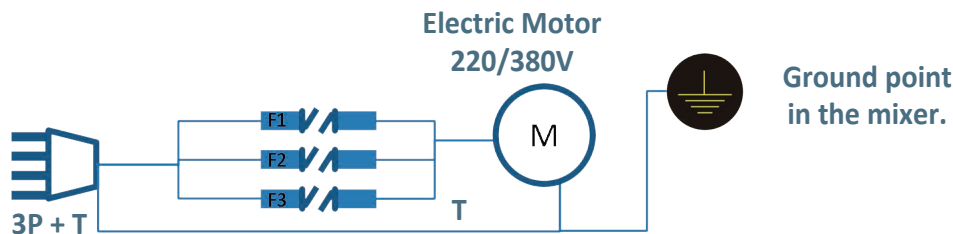
Equipment supplied with Electric Motor

- Before switch your concrete mixer, check if the supply voltage corresponds to the voltage indicated on the identify plate of the motor. Switching on the motor to a different voltage will result in damage to the motor;
- For without voltage selector equipment, contact the authorized service prior to any change.
- Make sure circuit breakers, electric cables, sockets, grounding are compatible with the motor;
- Accepted voltage variation must not exceed variations above or below 10%, otherwise running failures may occur or even burning of the motor;

Equipment supplied without Electric Motor

The motor installation, electrical appliances and their installations and grounding must be made in accordance with current standards in the region and accompanied by a responsible qualified function. In the absence of such standards, should be carried out according to international standards, doubts when installing contact the authorized service.

Wiring Diagram



- For the use of an extension cord, we recommend:

RECOMMENDATIONS FOR USE CONCRETE MIXER 600L							
Network	Motor	Voltage	Current	Distance from Motor to Distribution Panel			
				10 m	20 m	30 m	More than 30 m
				Wire Gauge or Conductive Cable			
Three-phase	7,5 CV	220V	20,4A	2,5mm ²	2,5mm ²	4mm ²	Not recommended
		380V	10,8A	2,5mm ²	2,5mm ²	2,5mm ²	

Working and Operating Conditions

- Concrete mixers can be used in closed or open environments, except combustion engines;
- When filling a concrete mixer with a spade, do not place the spade inside the drum;
- Improper use of this equipment, other than that for which it was projected, can pose a physical threat to the operator;
- Read this instruction manual carefully;
- The operator must be trained or qualified to use this equipment;
- Keep an exclusive area limit and leave the place always clean, without obstruction and with good lighting;
- Whenever performing maintenance on this equipment, disconnect the cable from the power supply.
- Always do preventative maintenance routines on the equipment to ensure greater durability.

Noise Level

Since the noise level during mixer operation, with the addition of stone and gravel into the drum to simulate a maximum noise level, can reach up to 95 decibels, the use of ear protection is recommended during prolonged operation.

Cleaning and Conservation

- It must be disconnected from the mains and the cleaning operation is always performed at the end of utilization;
- Cleaning the drum with water, removing any residue of the blades and all internal and external part of the drum;
- Clean the rack and pinion, removing all abrasive material to components;
- Do not put water on electrical components and motor;

Grounding the Machine

- Correct grounding of the concrete mixer is vitally important in reducing the risk of electrical shocks;
- Thus, before switching on your concrete mixer, make sure that the socket has an ground pin and that this is correctly installed. If your socket is not grounded, arrange for an ground to be installed before using the concrete mixer;
- Should use copper rod length and recommended depth of 2 meters;
- The ground wire to pass through the on / off switch should not be interrupted or connected to contacts.
- Do not connect the ground wire directly into the mixer neutral wire mains.
- Grounding must be made according to the standards in the region and accompanied by a responsible qualified function. In the absence of such standards, should be carried out according to international standards, doubts when the installation please contact your authorized service;
- The concrete mixer with electrical motor comes with on/off switch but does not make plugs and sockets.

Standardization of
plugs and sockets
32A 220V/380V.



Ground point
existing on the motor.



Ground point in the
mixer.



Equipment Lubrication

- Keep machine rotating parts lubricated, such as: pinion, rack gear, bushings, and bearings;
- Lubricate the equipment at the beginning of operation, applying grease to all lubrication points;
- Lubricate the bearings every 15 days or 50 hours of operation of the equipment to maintain their useful life and smooth operation;
- Lubrication of the pinion/rack gear assembly is not recommended due to the fact that aggregates such as sand, cement and gravel dust, among others, can adhere to the lubricating agent, causing the mixture to become extremely abrasive, thus resulting in premature wear.
- When lubricating the pinion shaft bearing, the concrete mixer drum must be in a position where the steel yoke arm is perpendicular (90°) in relation to the machine column and the drum mouth must be turned to the same side where the grease fitting is. If not, the bearings will not be lubricated;

Recommended Greases

Esso: Beacon 2

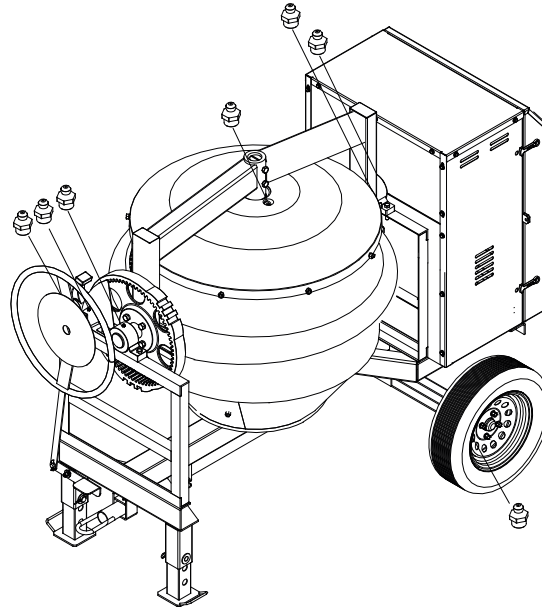
Mobil: Mobilux 3

Shell: Shell Avania R2

Texaco: MultiFlax EPO

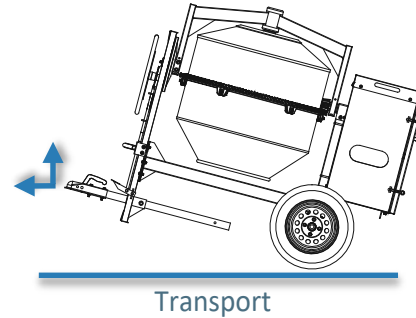
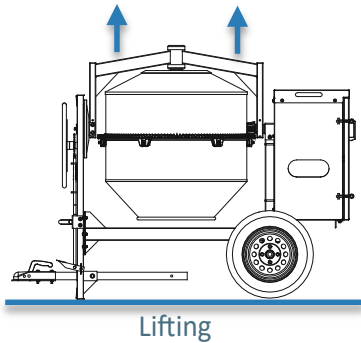
Castrol: Graxa LM2

Atlantic: Litholine 2



Lifting and Transport

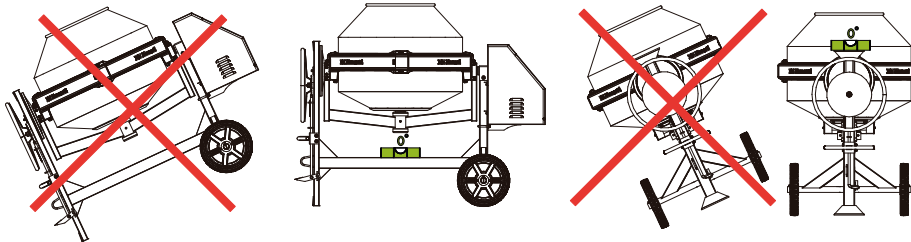
- It has a Tow Bar just to lift a few centimeters from the ground and transport it by moving the wheels;
- Transport over long distances, extend the Tow Bar to the maximum position and collect the Bedplates;
- They must be lifted by the Steel Yoke, with the drum facing downwards, always maintaining the level of the concrete mixer;
- Concrete mixers with air wheels must be calibrated to a pressure between 26 and 30 psi; Do not exceed the maximum limit of 60 km/h (37 mph).



Concrete Mixer Leveling

- Make sure that the concrete mixer is on flat and level ground that will not tip over or fall.
- We assume no responsibility for any damage to the equipment and/or the operator resulting from these carelessness.

If necessary, use a level tool for assistance, as shown in the image below:



Working Operation

- Place the mixer on a flat and firm surface, so that the loading and unloading process is easier;
- Turn on the switch that is attached to the engine enclosure;
- Tilt the drum to the desired angle. This movement should be done by turning the steering wheel and at the same time stepping on the pedal, unlocking the swivel rocker;
- Set the desired angle and lock again, this movement occurs when the pedal is released;
- Load the drum and let mixing;
- Once the mixture is complete, tilt the drum until the whole mass is poured;
- During the entire cycle, the drum must be rotating, that is, the equipment is always on;



1. Make use of a measure (bucket) to dose the components.



2. Add the aggregate (gravel) while machine is turning.



3. Add half of the water and mix for one minute.



4. Add the cement.



5. Finally add the sand and the rest of the water.



6. Let the concrete mixer turn for 2,5 minutes before using the concrete.

Equipment Maintenance

ATTENTION!

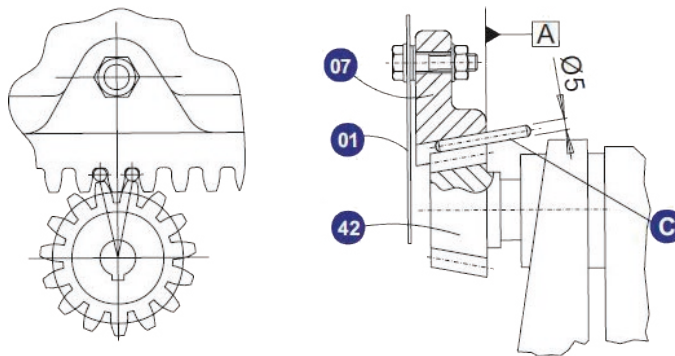
- Whenever performing maintenance work the equipment must be disconnected from the electrical supply;
- All maintenance performed on the equipment, whether it is electrical or mechanical, must be done by qualified professionals;
- Combustion motor maintenance must be performed in accordance with the manual.



- Periodically check the belt for wear or lack of tension. Loose or worn belts reduce the power and efficiency of the transmission, causing vibration and reducing belt life;
- Check the tightness of the fastening elements (nuts and screws);

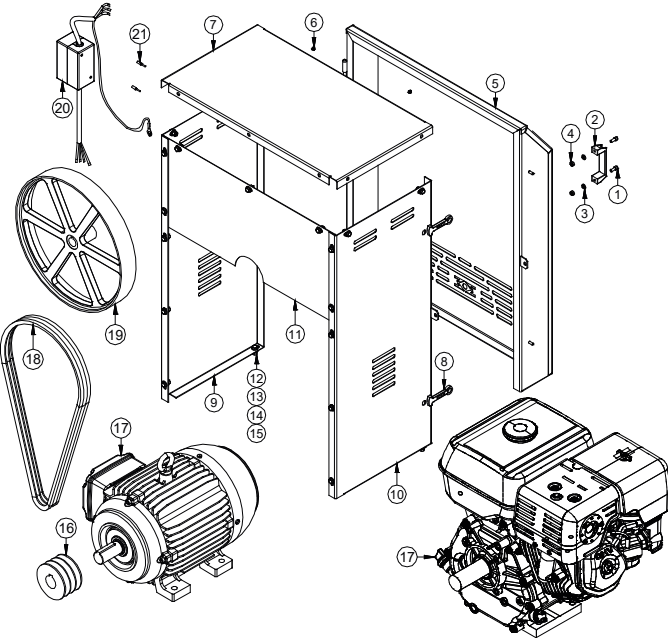
Rack Gear Replacement

- Remove the damaged rack gear screws (07), and replace them according to assembly recommendations;
- Use two Ø 5 mm pins (C) to adjust the gap between teeth, necessary for the perfect running of the pinion and rack gear;
- Adjust the alignment between the rack gear and pinion by reference face "A", (07) (42) compensating the difference with flat washers;

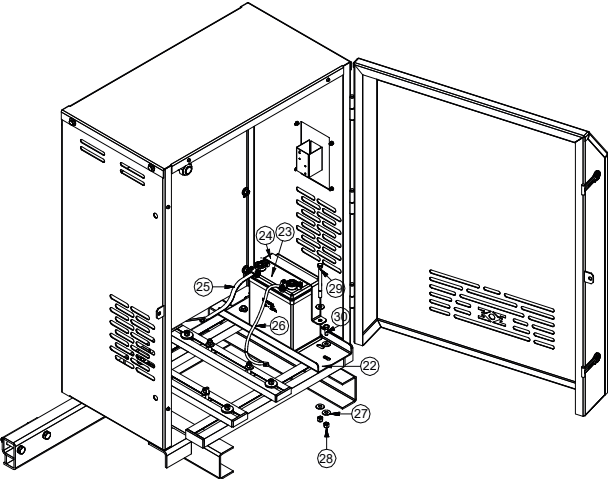


Exploded View / Spare Parts

Motor/Engine Box



Model 40011447 (Electric Starter)



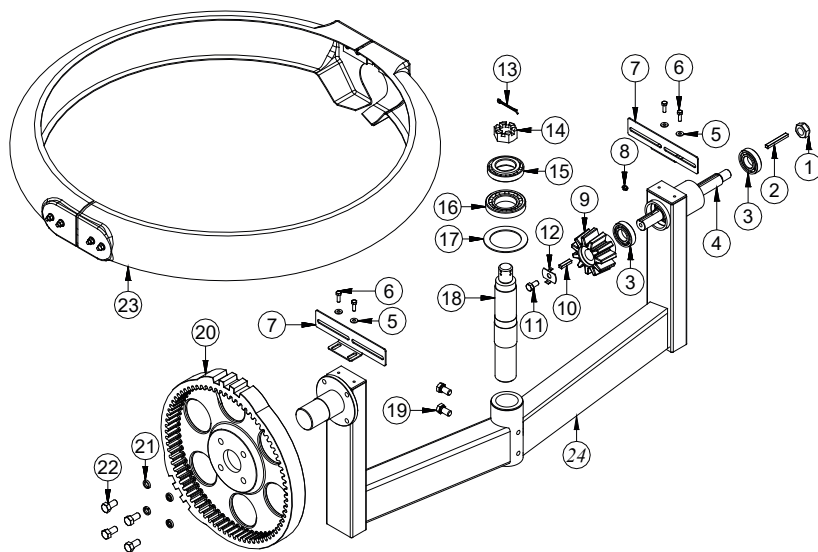
Motor/Engine Box

POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	CYLINDRICAL SCREW 5/16"X3/4"	2	21010523	-
2	NYLON HANDLE CABLE	1	24070164	-
3	SPRING WASHER 5/16"	2	21030112	-
4	HEX NUT 5/16"	2	21030252	-
5	DOOR	1	-	3.108.172
6	RUBBER STOP	4	24030222	4.122.072
7	TOP COVER	1	-	3.108.048
8	RUBBER CLOSURE	2	24030221	4.122.071
9	RIGHT SIDE	1	-	3.108.171
10	LEFT SIDE	1	-	3.108.169
11	TOP BACKGROUND	1	-	3.1080.47
12	HEX BOLT 3/8" X 1"	19	21010266	-
13	HEX NUT 3/8"	19	21020117	-
14	SPRING WASHER 3/8"	19	21030163	-
15	FLAT WASHER 3/8"	38	21030251	-
16	MOTOR PULLEY 28MM (ELECTRIC MOTOR)	1	31090200	403524
	MOTOR PULLEY 25,4MM (DIESEL ENGINE)	1	31090204	403532
	THREE-PHASE ELECTRIC MOTOR 7,5CV 4P 220/380V 60HZ		23010225	-
17	10 HP BRANCO DIESEL ENGINE	1	23040160	-
	10 HP BRANCO DIESEL ENGINE ELECTRIC STARTER (90311901)		23040213	-
18	V-BELT A-82 (ELECTRIC MOTOR)	3	22010166	-
	V-BELT A-79 (DIESEL ENGINE)	3	22010172	-
19	DRIVEN PULLEY	1	31090201	3.108.064
20	THREE-PHASE ON/OFF SWITCH WITHOUT PLUG	1	26100476	4.127.006
21	ALUMINUM BLIND RIVET	2	21070430	-

Model 40011447 (Electric Starter)

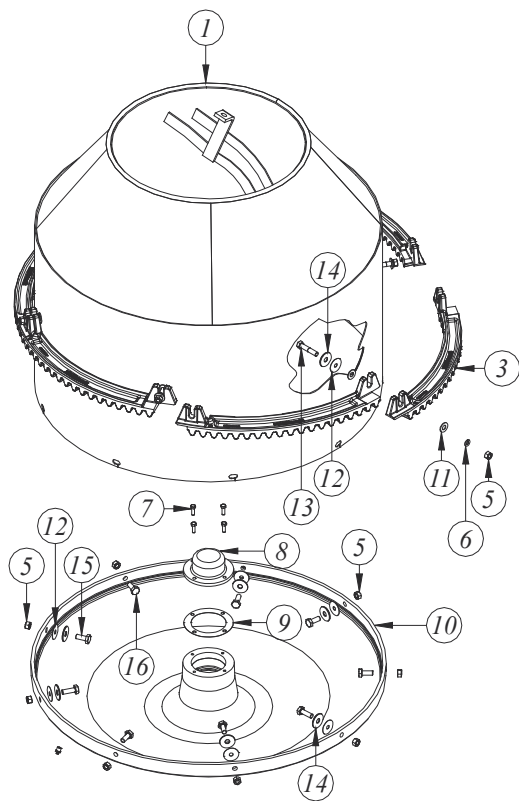
POS.	DESCRIPTION	QTY.	CODE	DRAWING
22	BATTERY BASE FOR 600L DES 3122547	1	85001966	-
23	BATTERY 12V-38AH DES 4157146	1	29110090	4157146
24	STEEL BATTERY STRAP DES 3122540 85001967	1	3122540	3122540
25	NEGATIVE BATTERY CABLE DES 0.99.08.046 R1	1	29753233	0.99.08.046
26	POSITIVE BATTERY CABLE DES 0.99.08.044	1	29753231	0.99.08.044
27	FLAT WASHER 3/8" (9,9x25x1,5) ZB	8	21030251	-
28	SELF LOCKING HEX NUT 3/8" UNC ZB	4	21021059	-
29	HEX BOLT 3/8"x4.1/2" UNC RP ZB	2	21010250	-
30	HEX BOLT 3/8"x1" UNC RI ZB	2	21010266	-

Steel Yoke



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	SELF LOCKING HEX NUT 1"	1	21021014	-
2	KEY 10 X 8 X 80MM	1	30167005	45020
3	BEARING 6207	2	22020223	-
4	PINION AXIS	1	31020007	3.114.032
5	FLAT WASHER 5/16"	4	21030252	-
6	HEX BOLT 5/16" X 1"	4	21010235	-
7	PROTECTION SUPPORT	2	32060195	3.119.035
8	GREASER 1/8"	1	24040101	-
9	PINION Z-11	1	31030002	3.123.005
10	KEY 10 X 8 X 40MM	1	30167006	45021
11	HEX BOLT 1/2" X 1" BSW	1	21010409	-
12	PINION LOCK	1	30030016	40336
13	COTTER PIN 1/4" X 2"	1	21050108	-
14	CASTELLATED NUT 1.1/2"	1	29121248	-
15	BEARING 30211	1	22020609	-
16	BEARING 30212	1	22020610	-
17	FLAT WASHER DRUM SUPPORT	1	30100008	4.122.110
18	CENTRAL AXIS	1	31020014	3.114.024
19	HEX BOLT 5/8" X 1.1/2"	2	21010262	-
20	INTERNAL TOOTH CROWN Z-75	1	2124004	2.124.004
21	SPRING WASHER 5/8"	4	21030108	-
22	HEX BOLT 5/8" X 1.1/4"	4	21010261	-
23	FIBER RACK PROTECTION KIT	1	30130072	3.119.036
24	STEEL YOKE	1	-	2.106.046

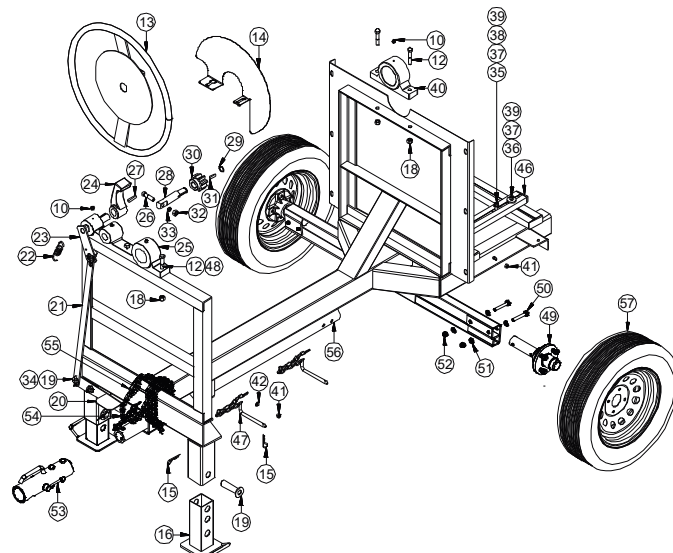
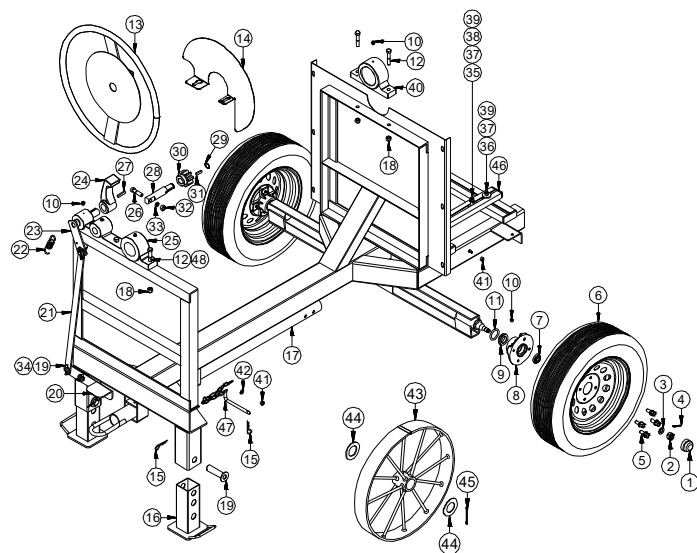
Drum



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	DRUM WITHOUT BOTTON WITH MIXING PADDLE	1	34600007	20318
	SEGMENT NR. 01 OF THE RING GEAR	2	31180007	2.124.016
3	SEGMENT NR. 02 OF THE RING GEAR	2	31180008	2.124.017
	SEGMENT NR. 03 OF THE RING GEAR	2	31180009	2.124.018
5	HEX NUT 1/2" BSW	15	21020207	-
6	SPRING WASHER 1/2"	6	21030164	-
7	HEX BOLT 5/16" X 1"	4	21010235	-
8	DRUM BOTTON COVER	1	4122111	4.122.111
9	JOINT	1	24100102	-
10	DRUM BOTTON	1	32250001	3.107.017
11	FLAT WASHER 1/2"	12	21030250	-
12	FLAT WASHER GUARNITAL SEAL	12	30100114	4.107.002
13	HEX BOLT 1/2" X 2.1/2" BSW	6	21010415	-
14	THICK FLAT WASHER 1/2"	12	21030257	-
15	HEX BOLT 1/2" X 1.1/2" BSW	3	21013430	-
16	HEX BOLT 1/2" X 1.1/4" BSW	6	21010410	-

POS.	DESCRIPTION	QTY.	CODE	DRAWING
3 + 5 + 6	RACK GEAR SEGMENTED (SEGMENTED, WASHER, NUT, BOLT)	1	31180015	2.124.023
11 + 12				
13 + 14				

Chassi



Chassi

POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	EXTERNAL PROTECTION	2	30130024	4.122.078
2	CASTELLATED NUT 5/8"	2	21020956	-
3	FLAT WASHER 5/8"	2	21030208	-
4	COTTER PIN 1/8"x1.1/2"	2	21050103	-
5	HEX BOLT M12X22MM	8	21015320	-
6	PNEUMATIC WHEEL 14"	2	31260080	4.115.052
7	BEARING LM11749-LM11710	2	22020617	-
8	WHEEL HUB	2	31150023	3.137.014
9	BEARING L45449-L45410	2	22020615	-
10	GREASER 1/8"STRAIGHT	2	24040101	-
11	O-RING A30	2	24020659	-
12	HEX BOLT 1/2"x2.1/2" BSW	5	21010415	-
13	STEERING WHEEL	1	31200022	3.110.036
14	CROWN GEAR PROTECTION	1	32420066	4.119.023
15	CLAMP TYPE R-3,5 X 70MM	3	21050153	-
16	BEDPLATE	2	-	3.122.024
17	TOW BAR	1	-	3.105.002
18	SELF-LOCKING HEX NUT 1/2"BSW	5	21021070	-
19	COTTER PIN 3/16" X 1"	3	21050105	-
20	PEDAL	1	31190001	4.122.092
21	TRANSMISSION BAR	1	4117002	4.117.002
22	TRACTION SPRING	1	21090101	-
23	PEDAL LOCK	1	3117025	3.117.026
24	LOCK	1	4117001	4.117.001
25	TRIPLE BEARING	1	3.116.010	3.116.010
26	HEX BOLT 1/2" X 2" BSW	1	21010313	-
27	KEY 8 X 7 X 45MM	1	30169006	45024
28	STEERING WHEEL AXLE	1	3114020	3.114.020
29	ELASTIC RING E-23	1	21060160	-

POS.	DESCRIPTION	QTY.	CODE	DRAWING
30	PINION Z-9	1	31030023	3.123.003
31	KEY 8 X 7 X 30MM	1	30169012	45019
32	HEX NUT 1/2"BSW	1	21020207	-
33	SPRING WASHER 1/2"	1	21030164	-
34	FLAT WASHER M16	7	21030221	-
35	HEX BOLT 3/8" X 1.1/2" UNC	4	21010216	-
36	HEX BOLT 3/8" X 2" UNC	4	21010241	-
37	SPRING WASHER 3/8"	8	21030163	-
38	FLAT WASHER 3/8"	4	21030251	-
39	THICK FLAT WASHER 3/8"	12	21030235	-
40	REAR BEARING	1	3116011	3.116.011
41	SELF-LOCKING HEX NUT 1/4"	2	21021004	-
42	FLAT WASHER 1/4"	1	21030214	-
43	METAL WHEEL	2	31260045	3.115.036
44	WHEEL FLAT WASHER	4	21030222	-
45	COTTER PIN 1/4" X 2"	2	21050108	-
46	MOTOR SUPPORT	2	32140001	3.109.016
47	PIN ASSEMBLED WITH CHAIN	2	32490004	4.117.021
48	FLAT WASHER 1/2" ZB	2	21030250	-
49	MOUNTED WHEEL HUB	2	3137159	3137159
50	HEX BOLT M12x80	4	21012983	-
51	FLAT WASHER M12 (13x24x2,5)	8	29110907	-
52	SELF-LOCKING HEX NUT BX M12x1,75	4	21021207	-
53	TOW HITCH	1	4122551	4122551
54	CHAIN	1	22060303	-
55	QUICK LINK OVAL THREAD CARABINER CHAIN CONNECTOR LINK	1	22060354	4122418
56	TOW BAR	1	4110106	4110106
57	PNEUMATIC WHEEL 14"	2	4115054	4115048

Product Warranty

The conditions and terms of this warranty are non transferable and go into effect on the date of purchase of this equipment, proven by presentation of the sales invoice issued to the first end user. At the time of delivery of the equipment, the customer must be provided with the information and technical orientations according to the contents of this manual.

Not, however, included in this warranty are defects arising from improper use, negligence, imprudence or malpractice, nor are repairs or alterations to any part and/or component of the equipment. Also not included are: the assembly of any sets of parts by technicians not from the Factory itself or from an Authorized Technical Assistant, application other than which it was specified, mechanical or electrical overloading as well as lack of phase, use in environments for which it was not designed, incorrect voltages and frequencies, incorrect lubrication, damage caused by accidents of any nature, such as floods, gales, fire, landslides or due to transportation.

Removal or any alteration to the series numbers originally placed on the product will render the warranty null, where the Sales invoice and Warranty Certificate must be presented in relation to the equipment in question.

This warranty is limited to the repair, replacement of parts or assembly of parts in which, through examination by a Menegotti Authorized Technical Assistant with prior authorization from the Factory, any manufacturing defect will be verified. This repair or replacement will be performed by the authorized Technical Assistant, where the purchaser will be responsible for risks and expenses arising from transport to and from the authorized Technical Assistant, and where labor and parts will not be charged according to the terms of this warranty.

This warranty replaces any other warranty, implicit or explicit, as well as all any obligation or responsibility on the part of our company in relation to the above mentioned product.

MENEGOTTI Post Sales Department and Technical Assistance.

Term of Warranty

By the present CERTIFICATE provided from original purchaser, Menegotti guarantees this product against manufacturing defects, for a period of 12 (twelve) months, being: the first 3 (three) months of legal guarantee, and the last 9 (nine) months a special warranty guaranteed by Menegotti, counted from the invoice issue date of the first final consumer. Not included in this equipment warranty are components subject to wear through use such as: bearings, steel cable, electrical plugs, gears and engine breaking.

This warranty includes the replacement of parts and repairs due to manufacturing defects duly noted by the factory or Authorized Technical Assistant. This warranty will be rendered null and void in the case of damages arising from accidents, acts of nature, application other than which it was designed, connection to improper electrical supply or subjected to extensive power fluctuations, or, if opened by persons or workshops not authorized by Menegotti.

The consumer will be responsible for freight expenses for transporting the product to the technical assistant or factory. The equipment includes and electric motor and this warranty covers internal defects in the motor originating from its manufacture. Defects not covered in this warranty include: overloading due to lack of or excessive phase, use of voltage outside that specified, broken or crushed casing due to negligence during transporting /or storage, coupling or energizing outside specifications and general defects from improper use and/or incorrect installation.

In agreement with these terms,

Customer: _____
Model: _____ Serial Number: _____
City: _____ Date: _____

Customer Menegotti Authorized Service



Solid values, **sustainable future.**

MENEGOTTI
HANDLING

MENEGOTTI
CONSTRUCTION

MENEGOTTI
HOUSE & GARDEN



Unit • Unidad Menmaq

Erwino Menegotti, 381 - Água Verde
Jaraguá do Sul - SC - 89254-000



Unit • Unidad Mentec

José Theodoro Ribeiro, 2399 - Ilha da Figueira
Jaraguá do Sul - SC - 89258-468



Unit • Unidad Menfer

Saudade, 186 - Seminário
Corupá - SC - 89278-000



Unit • Unidad MNA

248 E Crogan St STE 301 - Lawrenceville - GA
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