

MENEGOTTI TECHNICAL MANUAL CONCRETE MIXER 600L PROFESSIONAL

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, and units in Brazil and the United States.

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

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

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 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

It is equipment designed for heavy construction work with excellent performance and low maintenance. The person responsible for rotating the drum and bucket movement is a double drive system, this system is also composed of an electric motor accompanied by driven pulleys, pulley motor, “V” belts, gear system, chains, brake hub and operating handles. The bucket is moved by a supported mechanical system using steel cables, the operation is simple but requires operator attention. The unloading system is manual and features transmission mechanisms that facilitate its operation requiring minimum human effort. They have triple effect mixing paddles that increase their efficiency.

Safety Informations



- Before using this equipment, read this manual carefully and follow the manufacturer's instructions, as a way to reduce the risks of accidents in operation.
- It is expressly prohibited to alter or alter any safety device on the machine. We do not assume responsibility for any accident due to equipment alteration.
- Use the equipment according to the instructions in this manual.
- In case of damaged or missing parts, immediately contact Menego by phone/WhatsApp (47) 3275-8000 to replacing the same thing.
- With the machine turned off, carry out a daily inspection of the components. In case of problems, immediately contact the Menegotti authorized service.
- Maintain an exclusive area limit for working with the equipment, keeping the place always clean, without obstacles in the way and with good lighting.
- The operator must be trained or qualified to operate this equipment.



• Do not wear loose clothing, which could get caught in the machine.

• Always wear gloves, safety glasses and ear protectors in accordance with current regulations in the region of operation.

• Engines must be installed by qualified professionals.

• Carry out the maintenance requested by this manual with qualified people and within its frequency.



• Inspect all electrical extensions, especially for cuts, frayed cables and broken connections.

• Never use extension cords if they are not in good condition.

• Never operate extension cords when wet or in wet environments (e.g. puddles).

• When cleaning the equipment, never throw water on the engine or electrical parts.



• Whenever carrying out maintenance on this equipment, disconnect the power cable from the power supply.

• Avoid contact with hot surfaces.

• Before carrying out any activity or maintenance, let the engine cool down.

• Avoid contact with rotating parts.

Technical Specifications

CONCRETE MIXER 600L PROFESSIONAL	
TOTAL DRUM VOLUME	600L
BUCKET CAPACITY	490L
FINAL MIXTURE YELD	400L
MIXING CAPACITY	440L
QUANTITY OF CYCLES /HOUR	15 ciclos
HOURLY PRODUCTION	7m ³ /h
DRUM ROTATION	28RPM (60HZ) 26RPM (50HZ)
ELECTRIC MOTOR	TRIF 7,5CV 4P 220V/380V
BELT	3 BELTS "V" A-90
WEIGHT WITHOUT MOTOR	1040 KG
DIMENSIONS (L X W X H)	2398 X 1900 X 2800 mm
WHEELS	AIRE ARO 14

OPTIONAL	
WATER TANK	KIT WATER TANK 45L
WHEELS	STEEL PLATE
GASOLINE ENGINE	HONDA 13HP
DIESEL ENGINE	TOYAMA 10HP
	BRANCO 10HP
BOX ENGINE	ELECTRIC MOTOR
	COMBUSTION ENGINE

Main Components

CONCRETE MIXER	
1	DRUM KIT
2	STEEL YOKE KIT
3	ENGINE BOX KIT
4	CHASSI KIT
5	WHEEL KIT
6	RACK GEAR PROTECTION
7	BUCKET KIT



Operation

- The introduction of any object into the drum during operation may cause serious accidents.
- Improper use or use outside the scope for which this equipment was designed poses a danger to the physical safety of the operator and nearby persons.
- Carefully read this manual.
- The operator must be trained or qualified to operate this equipment.
- It may be used indoors or outdoors, except for combustion-engine models.
- Remain in a designated area that is always clean, free of obstructions, and well lit.
- Always disconnect the power cord from the electrical outlet when performing maintenance tasks.
- Always carry out routine preventive maintenance on the equipment to ensure a longer service life.

Noise Level

The noise level during the operation of the concrete mixer, with the addition of crushed stone and gravel and other materials in the drum, can reach approximately 95 dBA. We recommend the use of hearing protection during prolonged operation of the equipment and an assessment of the distance between people not involved in the operation.

Equipment Supplied with Electric Motor

- Before turning on, verify that the power supply voltage corresponds to that indicated on the motor nameplate or on the electrical cable label; three-phase concrete mixers may be supplied with voltages of 220V or 380V.
- For equipment without a voltage selector, contact authorized technical support before making any modifications.
- Operating the motor at a voltage different from that indicated on the motor nameplate will cause damage to the motor.
- The electrical voltage should not vary more than $\pm 10\%$, as this may cause the motor to burn out.
- For the use of extension cords, we recommend the following table:

USAGE RECOMMENDATIONS FOR 600L CONCRETE MIXER							
PHASE	MOTOR	VOLTAGE	CURRENT	DISTANCE FROM MOTOR TO DISTRIBUTION PANEL			
				10 METERS	20 METERS	30 METERS	MORE THAN 30 METERS
				GAUGE OF THE WIRE OR CODUCTOR CABLE			
THREE-PHASE	7,5CV	220V 380V	20,4A 10,8A	2,5mm ²	2,5mm ²	4mm ² 2,5mm ²	NOT RECOMMENDED

Equipment Supplied without Electric Motor

The installation of the motor, electrical devices, their setup, and grounding must be carried out in accordance with the regulations in force in the region and supervised by a qualified technical professional. In the absence of such regulations, it should be performed according to international standards, and it is recommended to consult the authorized Menegotti service when in doubt.

Cleaning

- It must be disconnected from the power supply, and cleaning operations should always be performed at the end of use.
- Clean the drum with water, removing any residue from the blades and from the entire inside and outside of the drum.
- Clean the pinion and rack, removing any abrasive material from the components.
- Do not pour water on the electrical components and the motor.



Grounding

- Proper grounding of the concrete mixer is vital to reduce the risk of electric shock.
- Ensure that your power outlet has a grounding pin and is correctly installed. The grounding wire must be properly connected to the motor and the machine chassis, as shown in the following figures.
- A copper rod with a recommended length and depth of 2 meters should be used.
- When the ground wire passes through the on/off switch, it must not be interrupted or connected to the contacts.
- Do not connect the concrete mixer's ground wire directly to the electrical network's neutral wire.
- Grounding must be carried out according to the regulations in force in the region and accompanied by a qualified technician. In the absence of these regulations, it should be done according to international standards. For equipment installation, contact authorized Menegotti technical service.
- Equipment with electric motors comes with an On/Off switch but does not include an industrial plug and socket.

We recommend using the industrial plug and socket: 3-phase + 1 ground, 32A, 220V / 380V.



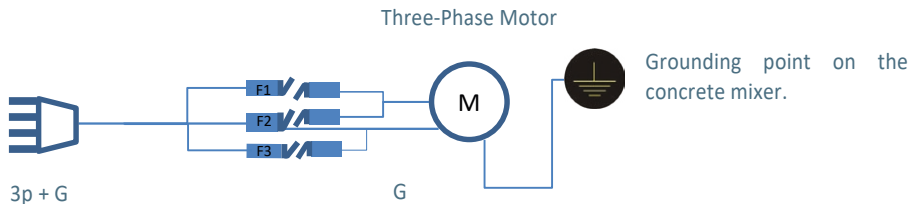
Motor grounding point



Concrete mixer grounding point.



Wiring Diagram



Lubrication

- Keep the rotating parts of the machine lubricated, such as bushings, bearings, and ball bearings.
- Lubricate at the start of operation according to the existing lubrication points.
- Lubricate the bearings every 15 days or after 50 hours of operation to maintain their lifespan and proper functioning.
- Lubricating the rack is not recommended because aggregates such as sand, cement, and others can stick to the lubrication, making it extremely abrasive and damaging the teeth of the rack.

Recommended grease type: MP2 Lithium Bearing Grease.

RECOMMENDED GREASES

Ipiranga Ipiflex Li EP2

Mobil Mobilux EP2

Shell Gadus S2 V220

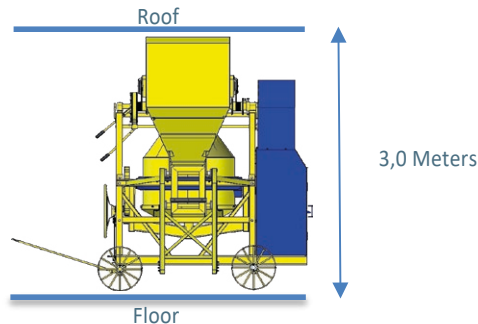
Texaco Marfac MP2

Lubrax Autolith 2

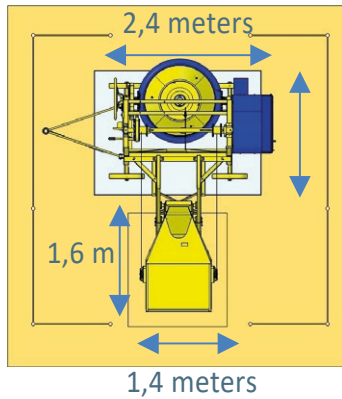


Installation

- For the machine to operate correctly, the minimum height between the floor and the ceiling must be 3 meters.



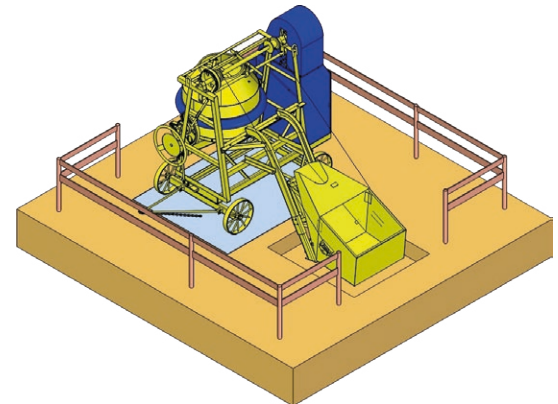
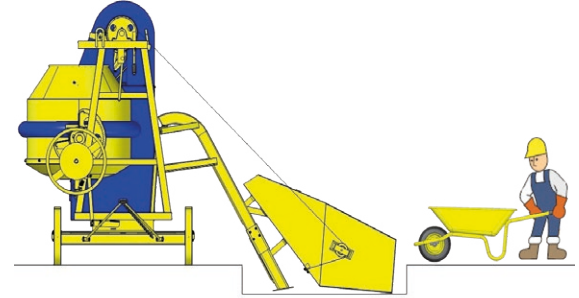
- Make a pit to support 780 kg and accommodate the bucket, with the following standard dimensions: a depth of 0.25 meters from the wheels, a width of 1.4 meters, and a length of 1.6 meters. For greater durability, include a rubber (or tire) pad at the bottom of the pit to cushion the impact.



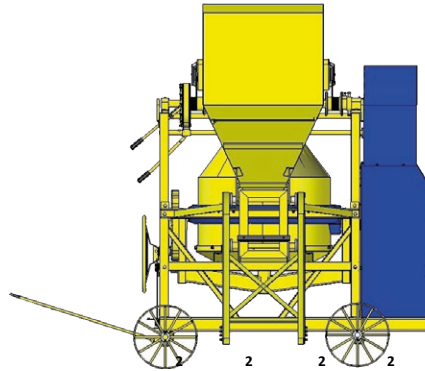
1,8 meters

- Place the concrete mixer on a flat, rigid concrete surface to support the weight of the machine, which ranges from 1040 kg (empty) to 1900 kg (full). The standard dimensions are 1.8 meters wide and 2.4 meters long.

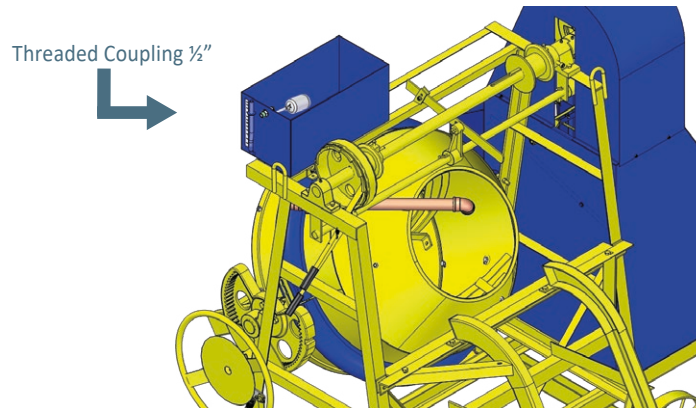
- For safety reasons, it is extremely important that the equipment area is enclosed with barriers around the machine. The recommended minimum measurements are 1.5 meters of space between the concrete mixer and the barrier, and a height of 1.0 meter.



- Lock the wheels to prevent them from moving during operation(2).
- Before turning on the concrete mixer, we recommend placing the bucket in its normal working position to avoid damaging the equipment.

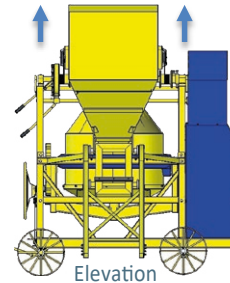
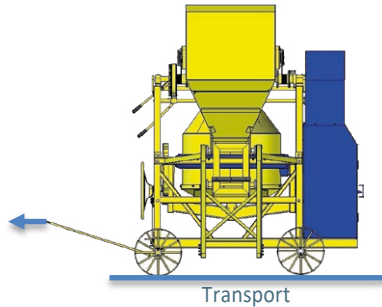


- Connect the local water supply (tap) to the water tank using a hose.



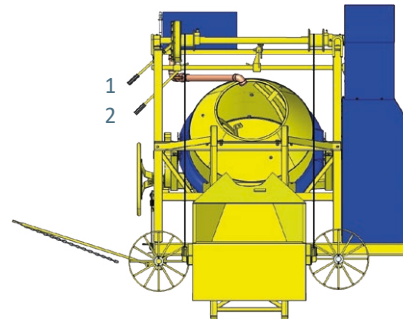
Transport y Elevation

- It is equipped with a trailer hitch for transporting it by moving the wheels.
- For long-distance transport, extend the hitch fully and retract the rails and bucket.
- Lifting should be done using the lugs located on the top of the chassis, always keeping the concrete mixer level.
- Concrete mixers with pneumatic wheels should be inflated to a pressure between 26 and 30 psi (pounds per square inch).
- Do not exceed the speed limit of 60 km/h (37.28 mph) for pneumatic wheels and 20 km/h (12.43 mph) for steel plate wheels.

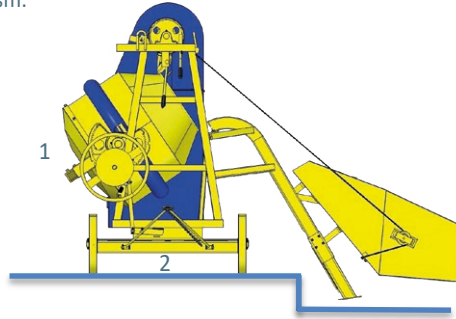


Operación

1- Lower the bucket to the starting position by pushing the brake lever (upper [1]) and the gear lever (lower [2]). The lower lever should be pushed to the right in short increments until it reaches the pit.



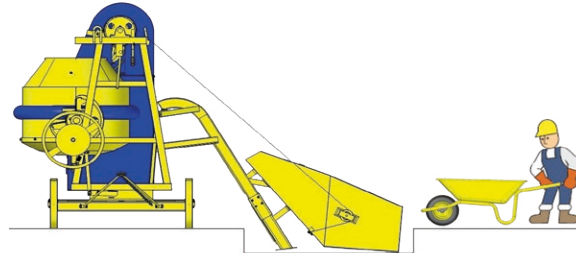
2- Tilt the drum to the desired angle. This movement should be performed by turning the tilting mechanism (1) while simultaneously pressing the pedal (2), which disengages the rotation of the tilting mechanism.



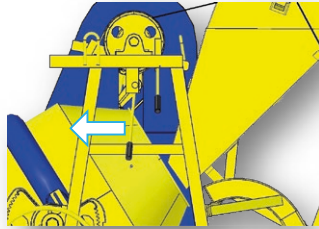
3- Start the machine by pressing the "ON" button for electric motors. For combustion engines, it is necessary to pull the starter rope.



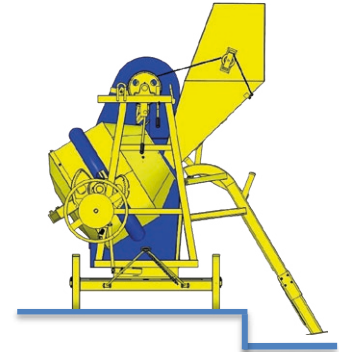
4- With the container stopped and on the ground, you can unload the material, but do not add more than the supported capacity.



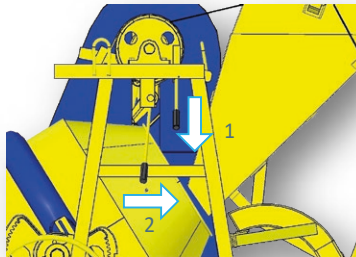
5- Push the lower lever to the left until the bucket reaches the ideal position to discharge the mix into the drum.



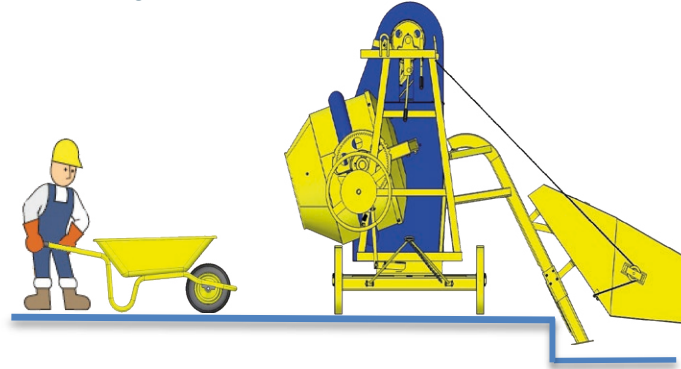
6 - Load the drum and let it mix. If there is a water tank, open the valve clockwise so that the water flows and pours into the drum.



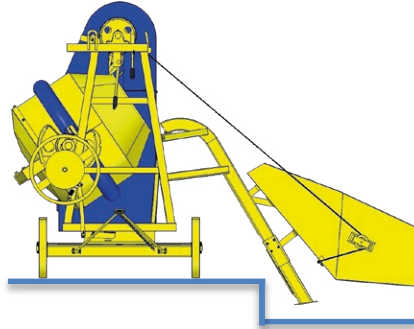
7 - Lower the bucket to the starting position by pushing the upper brake lever (1) and the lower gear lever (2). The lower lever should be pushed to the right in short increments until it reaches the pit.



8- Once the mixing is complete, tilt the drum to discharge all the mixture.



9- After discharging the mixture, turn the drum with the handwheel back to the starting position.

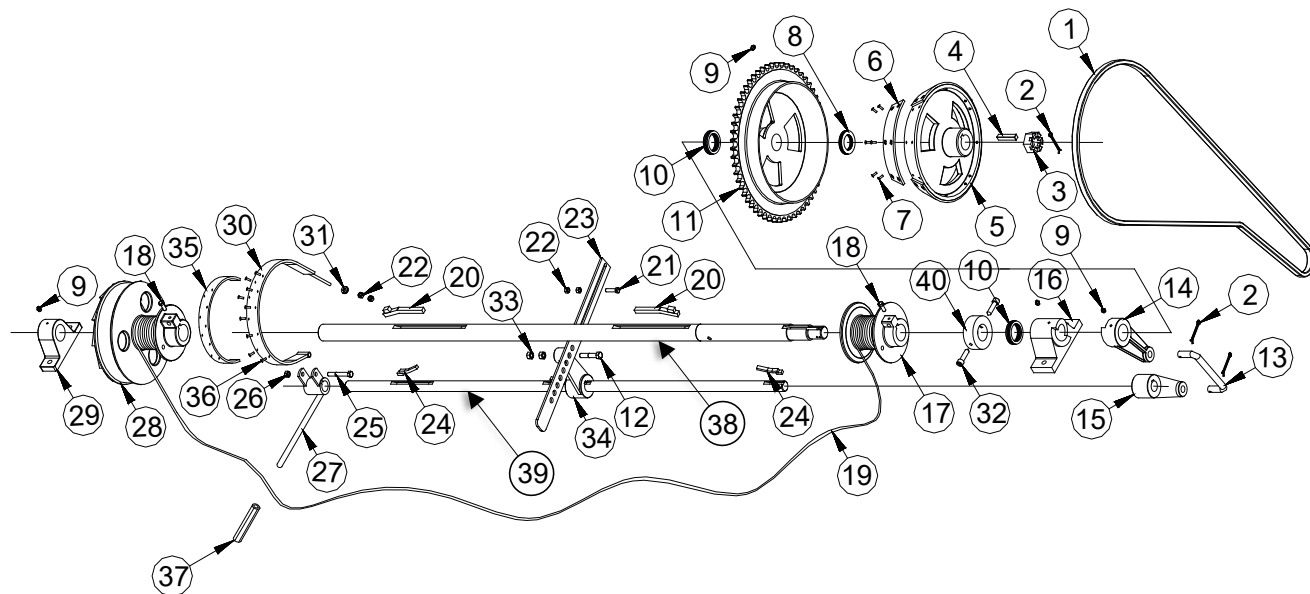


To help the operator get familiar with the machine, we recommend simulating the entire operation process without a load before using it for work.

During each cycle, the drum must be rotating, meaning the equipment should always remain turned on.

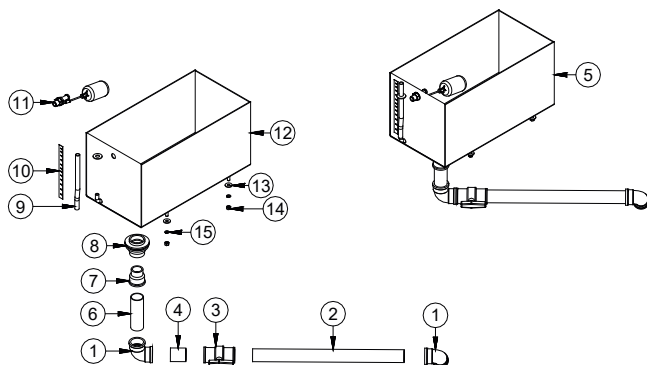
Exploded View / Spare Parts

REEL KIT



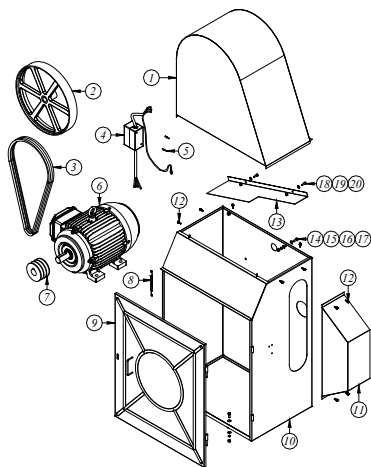
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	CHAIN RUEDO 80 X 113 LINKS + CONNECTOR	1	22060152	-
2	AGAINST PIVOT 1/4" X 2"	3	21050108	-
3	CASTLE NUT 1 1/2"	1	29121248	-
4	KEY 1/2" X 1/2" X 65MM	1	30169002	-
5	BRAKE HUB ASSEMBLED	1	31150008	3.122.035
6	BRAKE LINING	4	4122135	4.122.135
7	ALUMINUM RIVET 4.8 X 25MM	24	21070211	-
8	PLAIN BRAKE WASHER	8	30100005	40.399
9	STRAIGHT GREASE FITTING 1/8"	4	24040101	-
10	FRICTION BEARING Z-58	2	22020926	-
11	FRICTION GEAR Z-58	1	2124010	2.124.010
12	HEXAGON HEAD BOLT 1/2" X 2 1/2"	1	21010415	-
13	TRANSMISSION ARM	1	30070001	4.122.169
14	ECCENTRIC ARM DN20	1	4122132	4.122.132
15	MOBILE DN20 ARM	1	3122040	3.122.040
16	ECCENTRIC BEARING	1	3116012	3.116.012
17	SMALL DRUM	1	3122042	3.122.042
18	HEXAGON HEAD BOLT 3/8" X 1"	2	21010266	-
19	POLISHED STEEL CABLE 5/16"	10 METERS	32050409	-
20	KEY 1/2" X 1/2" X 153MM	2	30169003	4.122.153
21	HEXAGON HEAD BOLT 3/8" X 1 1/2"	1	21010216	-
22	HEX NUT 3/8"	4	21020117	-
23	ADJUSTMENT RULE	1	30140001	4.122.148
24	KEY 8 X 10 X 72MM	4	30162004	4.122.155
25	HEXAGON HEAD BOLT M10 X 70 RP 8.8 DIN931 ZB	1	21012935	-
26	HEX NUT BX M10 DIN985 ZB	1	21021206	-
27	OPERATING ARM	1	30070020	4.122.140
28	LARGE DRUM	1	2122001	2.122.001
29	FRONT BEARING	1	4116004	4.116.004
30	BRAKE STRIP	1	31160002	3.122.038
31	PLAIN WASHER 3/8"	4	21030251	-
32	SPECIAL TIP HEXAGON HEAD BOLT 1/2" X 1 1/2"	2	21010803	-
33	HEX NUT 1/2"	2	21020207	-
34	DN14 ARM	1	3122041	3.122.041
35	BRAKE LINING	1	3122036	3.122.036
36	SEMI-TUBULAR RIVET	9	21070107	-
37	PLASTIC CABLE HANDLE	1	27020110	-
38	UPPER SHAFT	1	31020011	2.114.002
39	LOWER SHAFT	1	31020036	3.114.035
40	BACKING RING	1	30110004	4.122.152

WATER TANK KIT



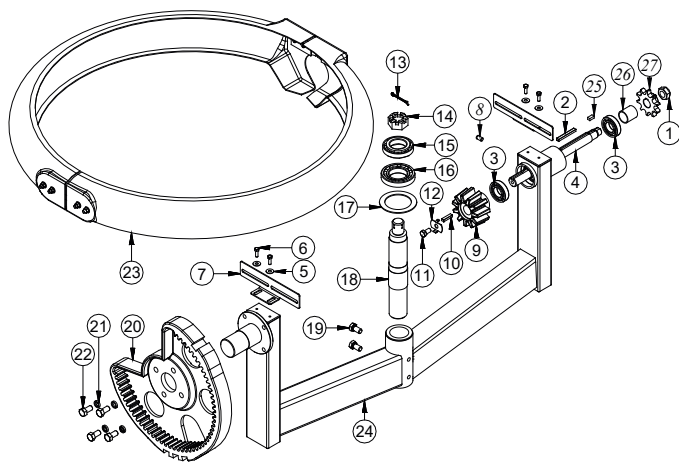
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	90° ELBOW	2	25091889	-
2	TUBE 590MM	1	25091890	-
3	ACCESS PORT / INSPECTION PORT	1	25091893	-
4	TUBE 60MM	1	25091892	-
5	WATER BOX ASSEMBLY KIT	1	34501072	2.133.008
6	TUBE 145MM	1	25091891	-
7	BAG ADAPTER	1	25091888	-
8	WELDING ADAPTER	1	25091887	-
9	HOSE	1	25100202	-
10	ADHESIVE RULER / MEASURING STRIP	1	24050466	-
11	FLOAT TAP / FLOAT VALVE	1	25091886	4.133.034
12	BOX	1	2133007	2.133.007
13	FLAT WASHER 3/8"	4	21030251	-
14	HEX NUT 3/8"	4	21020117	-
15	FLAT WASHER 3/8"	4	21030163	-

MOTOR BOX KIT



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	UPPER BOX	1	34501067	3.108.291
2	DRIVEN PULLEY (PLAIN)	1	31090201	3.108.064
3	V-BELT A-90	3	22010142	-
4	THREE-PHASE ON/OFF SWITCH (WITHOUT PLUG)	1	26100476	4.127.006
5	ALUMINUM BLIND RIVET	2	21070430	-
6	ELECTRIC MOTOR 7.5 HP 220/380V 60HZ	1	23010225	-
7	DRIVE PULLEY 28MM	1	31090200	403.524
8	TENSION SPRING	1	21090103	-
9	DOOR	1	32360006	3.108.063
10	LOWER MOTOR BOX	1	34501012	2.108.022
11	DRIVEN PULLEY GUARD	1	30130008	3.119.088
12	HEX HEAD SELF-DRILLING SCREW	12	21010526	-
13	TENSIONER GUARD	1	4108024	4.108.024
14	HEX HEAD BOLT 3/8" X 1"	4	21010266	-
15	FLAT WASHER 3/8"	8	21030251	-
16	SPRING WASHER 3/8"	4	21030163	-
17	HEX NUT 3/8"	4	21020117	-
18	BOLT 5/16" X 1"	2	21010235	-
19	FLAT WASHER 5/16"	2	21030252	-
20	HEX NUT 5/16"	2	21021052	-

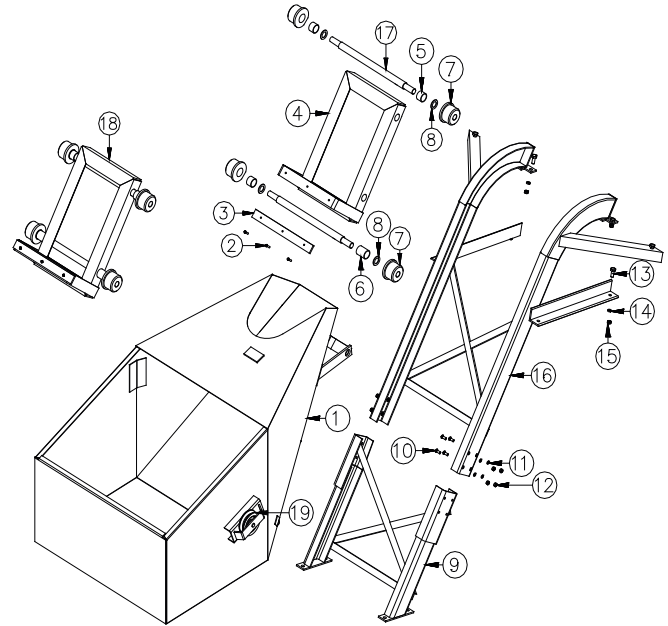
STEEL YOKE KIT



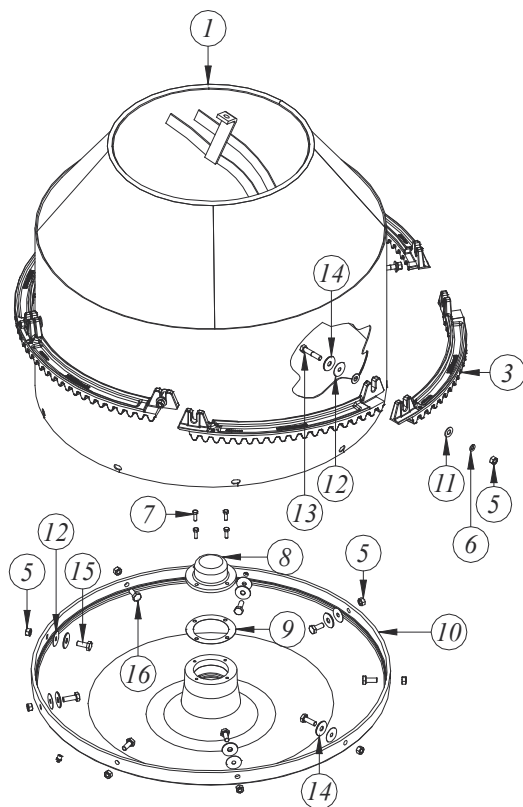
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Self-Locking Hex Nut 1"	1	21021014	-
2	Key 10 x 8 x 80 mm	1	30167005	45.020
3	Deep Groove Ball Bearing 6207	2	22020223	-
4	Pinion Shaft	1	31020007	3.114.032
5	Flat Washer 5/16" x 1"	4	21030252	-
6	Hex Bolt 5/16" x 1"	4	21010235	-
7	Protection Bracket	2	32060195	3.119.035
8	Straight Grease Nipple 1/8"	1	24040101	-
9	Pinion Gear Z-11	1	31030002	3.123.005
10	Key 10 x 8 x 40 mm	1	30167006	45.021
11	Hex Bolt 1/2" x 1" BSW	1	21010409	-
12	Pinion Lock	1	30030016	40.336
13	Cotter Pin 1/4" x 2"	1	21050108	-
14	Castle Nut 1.1/2"	1	29121248	-
15	Tapered Roller Bearing 30211	1	22020609	-
16	Tapered Roller Bearing 30212	1	22026010	4.122.110
17	Drum Support Flat Washer	1	30100008	3.124.024
18	Central Shaft	1	31020014	-
19	Hex Bolt 5/8" x 1.1/2"	2	21010262	3.124.001
20	Internal Ring Gear Z-51	1	31050005	-
21	Spring Washer 5/8"	4	21030108	-
22	Hex Bolt 5/8" x 1.1/4"	1	21010621	-
23	Fiber Rack Protection Kit (23+7)	1	32030049	3.119.001
24	Swing Arm	1	32460002	2.106.046
25	Key 10 x 8 x 20 mm	1	4122265	4.122.265
26	Thrust Bushing	1	32020001	4.118.034
27	Gear Z-10	1	31060001	4.123.008

BUCKET KIT

POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Bucket	1	34601004	2.132.001
2	Slotted Screw 1/4" x 1"	3	21011014	-
3	Rubber Stop	1	29121374	4.122.131
4	Car Base	1	32050027	3.122.031
5	Small Bushing	2	30230170	4.118.027
6	Large Bushing	2	30230186	4.118.028
7	Car Wheel	4	31260044	4.115.024
8	Thrust Flat Washer	4	21030336	4.122.023
9	Rail Base	1	32050001	3.122.039
10	Slotted Screw 3/8" x 1"	8	21011144	-
11	Spring Washer 3/8"	8	21030163	-
12	Hex Nut 3/8"	8	21020117	-
13	Hex Bolt 1/2" x 1.1/4"	6	21010410	-
14	Spring Washer 1/2"	8	21030164	-
15	Hex Nut 1/2"	8	21020207	-
16	Rail	1	32140002	2.132.002
17	Car Axle	2	31020282	4.114.043
18	Assembled Car Kit	1	32160005	2.105.008
19	Pulley	2	4132011	4.132.011



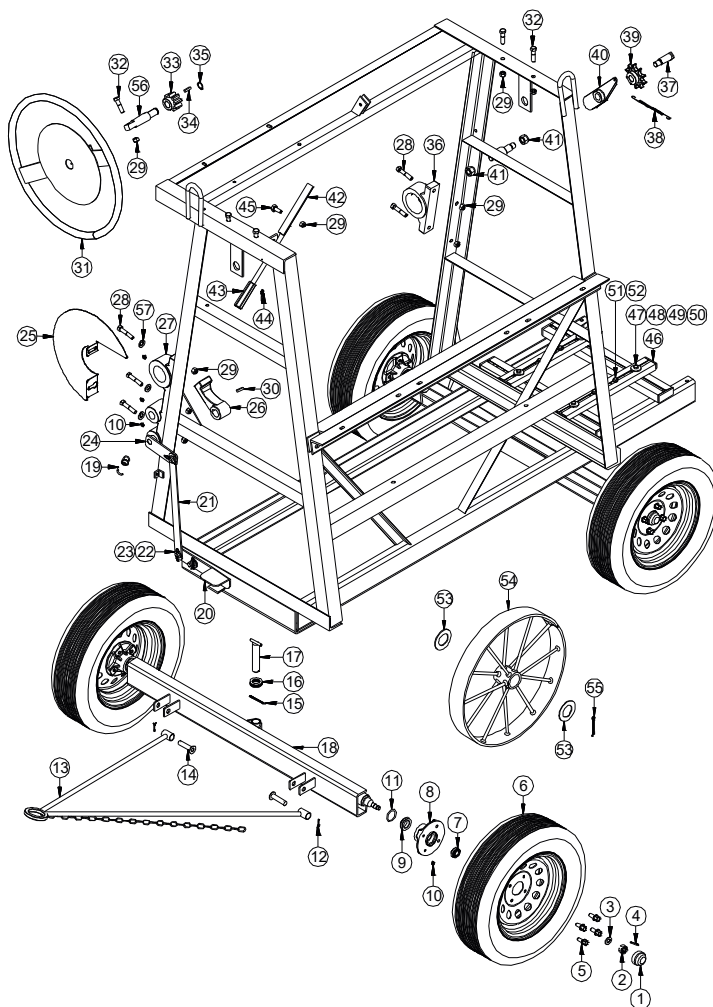
DRUM KIT



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	Drum Without Bottom with Paddles	1	34600007	20.318
3	Ring Gear Rack Segment 1	2	31180007	2.124.016
	Ring Gear Rack Segment 2	2	31180008	2.124.017
	Ring Gear Rack Segment 3	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 Bottom Cover	1	4122111	4.122.111
9	Gasket	1	24100102	-
10	Motor Base	1	32250001	3.107.017
11	Flat Washer 1/2"	12	21030250	-
12	Guarnital Sealing Washer	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	Segmented Rack Kit (Segments, Washers, Nuts, Bolts)	1	31180015	2.124.023
5				
6				
11				
12				
13				
14				
1	Drum with Bottom with Paddles	1	34600004	2.107.020
5				
10				
12				
15				
14				
16				

CHASSI KIT



POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	External Hub Protection	2	30130024	4.122.078
2	Castle Nut 5/8"	2	21020956	-
3	Flat Washer 5/8"	2	21030208	-
4	Cotter Pin 1/8" x 1.1/2"	2	21050103	-
5	Hex Bolt M12 x 22 mm	8	21015320	-
6	Wheel with Tire 14" Rim	2	31260080	4.115.052
7	Tapered Roller Bearing LM11749 - LM11710	2	22020617	-
8	Wheel Hub	2	31150023	3.137.014
9	Tapered Roller Bearing L45449 - L45410	2	22020615	-
10	Straight Grease Nipple 1/8"	2	24040101	-
11	O-Ring A30	2	24020659	-
12	Cotter Pin 1/8" x 1.1/2"	2	21050103	-
13	Shackle	1	32490001	3.105.003
14	Pin	2	31020080	4.122.257
15	Cotter Pin 1/4" x 2"	1	21050108	-
16	Pin Flat Washer	4	21030336	4.122.023
17	Pin	1	31130105	4.122.091
18	Movable Axle Kit for Sheet Metal Wheel	1	31020272	3.114.034
	Movable Axle Kit for 14" Rim Wheel	1	-	-
19	Traction Spring 2	1	21090101	-
20	Pedal	1	31190001	4.122.092
21	Transmission Rod	1	4122149	4.122.149
22	Flat Washer M16	7	21030221	-
23	Cotter Pin	3	21050105	-
24	Pedal Lock	1	32040001	3.117.026
25	Sprocket Guard	1	32420066	4.119.023
26	Lock	1	4117001	4.117.001
27	Triple Bearing	1	3116010	3.116.010
28	Hex Bolt 1/2" x 2.1/2" BSW	5	21010415	-
29	Hex Nut 1/2" BSW	11	21021070	-

POS.	DESCRIPTION	QTY.	CODE	DRAWING
30	Key 8 x 7 x 45 mm	1	30169006	45024
31	Steering Wheel	1	31200022	3.110.036
32	Hex Bolt 1/2" x 2" BSW	5	21010313	-
33	Pinion Z-9	1	31030023	3.123.003
34	Key 8 x 7 x 30 mm	1	30169012	45019
35	E-Ring E-23	1	21060160	-
36	Rear Bearing	1	3116011	3.116.011
37	Gear Shaft	1	31020010	4.114.039
38	Traction Spring 4	1	21090103	-
39	Tensioner Gear	1	4123007	4.123.007
40	Tensioner Arm	1	3112050	3.112.050
41	Hex Nut 3/4"	2	2102011	-
42	Reel Lock	1	33300021	4.117.023
43	Plastic Handle Cable	1	27020110	-
44	Traction Spring	1	21090228	4.122.361
45	Hex Bolt 1/2" x 1.1/4" BSW	1	21010410	-
46	Motor Mount	2	32140001	3.109.016
47	Hex Bolt 3/8" x 2"	4	21010241	-
48	Thick Flat Washer 3/8"	12	21030235	-
49	Spring Washer 3/8"	8	21030163	-
50	Hex Nut 3/8"	8	21020117	-
51	Flat Washer 3/8"	4	21030251	-
52	Hex Bolt 3/8" x 1.1/2"	4	21010216	-
53	Wheel Flat Washer	8	21030222	-
54	Steel Wheel	4	31260045	3.115.036
55	Cotter Pin 1/4" x 2"	4	21050108	-
56	Steering Wheel Shaft	1	31020267	3.114.020
57	Flat Washer 1/2" ZB	2	21030250	-
58	Tensioner Arm Shaft Chain 600L	1	31020082	4.114.042

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.

Departamento de Post venta y Asistencia Técnica MENEGOTTI.

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,

Cliente: _____	
Modelo: _____	Nº de Série: _____
Ciudad: _____	Data: _____

Cliente

Servicio Autorizado Menegotti

Menegotti GROUP

Solid values, **sustainable future.**

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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

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



Unit • Unidad MNA

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