

MENEGOTTI TECHNICAL MANUAL CONCRETE MIXER 250L RENTAL - DISASSEMBLED

QR-Code:



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

Attention:

Before operate **Menegotti equipment**, read this **technical manual**, it self will inform and instruct the operator about the operation. By the way, you avoid possible working accidents and early maintenance on at the equipment.



Illustrative image.

MENEGOTTI[®] CONSTRUCTION

Congratulations, you have just purchased a Menegotti product!

With the highest quality, projected and built especially to serve your needs.

This manual was elaborated to provides the informations and key instructions to use and maintain our product, in addition presents their technical characteristics.

Before use the product for the first time, read and pay attention at the informations in this manual.

The product durability only depends the way you treat it in service (operation) and the satisfactory working is consequence of yours regular work carefully.

Menegotti is preparaded to offer you all technical assistance, and attend all your needs about replacement parts.

Welcome, you are part of the huge Menegotti “customers family”.

After sales Departament
and Technical Assistance MENEGOTTI.

Attention: For better comodity, store and keep this manual in a properly spot so it can be easily checked.

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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

The concrete mixer 250l was designed for heavy civil construction work . It is composed of a drum with a mixing capacity of up to 200 liters. The drum is moved by a drive (electric/diesel/Petrol), which is activated by a driven /drive system with a “V” belt . The unloading system is manual.

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

Safety Informations

Note: Anyone who performs any type of operation with this equipment must read this manual and the safety instructions.



- Before using this equipment, carefully read this manual and follow the Manufacturer’s instructions, such as how to reduce the risk of accidents in operation.
- It is expressly prohibited to remove or alter any safety device or characteristic, should this occur MENEGOTTI will not be held responsible.
- Use the equipment according to the instructions in this manual.
- In the case of damaged or missing pieces, contact MENEGOTTI by phone or WhatsApp at +55 (47) 3275 8000 for replacement of same.
- With the machine turned off, conduct a daily inspection of the machine parts . In the case of problems, immediately contact the MENEGOTTI authorized service.
- Maintain a limited area exclusive for working with the equipment, always keeping the place clean, without obstructions and with good lighting;
- 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 use gloves, safety goggles and ear protection.
- The engines must be installed by qualified professionals.



- Perform the maintenance recommended in this manual with qualified people and within the stipulated periods.
- Inspect all electrical extensions, mainly for cuts, cable friction and broken connections;
- Never use extensions that are not in good condition.
- Never use wet extensions or operate in wet environments (e.g. Pools of water).
- When cleaning the equipment, never throw water on the engine.
- Whenever performing maintenance on this equipment, disconnect the power cable from the source..
- Avoid contact with hot surfaces.
- Before performing any activity or maintenance, first let the engine cool down.
- Avoid contact with rotating parts.

Technical Specifications

SPECIFICATIONS	250L RENTAL
DRUM VOLUME	250 Liters
WET MIX INPUT	175 Liters
DRY MIX INPUT	200 Liters
NUMBER OF CYCLES / HOUR	15 Cicles
HOURLY PRODUCTION	3,00m ³
DRUM ROTATION	30RPM (60Hz) / 28RPM (50Hz)
ENGINE BOX	ELECTRIC
	COMBUSTION
BELT	VARY ACCORDING TO THE ENGINE
WEIGHT WITHOUT ENGINE	165kg
DIMENSIONS (CXLXA) mm	1690 X 900 X 1490
WHEELS	RUBBER WHEEL

ENGINES	
PETROL	HONDA 5,5HP
	TOYAMA 5,5HP
	BRANCO 5,5HP
DIESEL	TOYAMA 4,7HP
	BRANCO 5,0HP
ELECTRIC	2CV 4P 110/220V 50/60HZ
	2CV 4P 220/380V 50/60HZ

Main Parts

CONCRETE MIXER 400L	
1	DRUM
2	STEEL YOKE
3	ENGINE BOX
4	LARGER COLUMN
5	SMALLER COLUMN
6	CHASSIS
7	WHEEL
8	GEAR PROTECTION



Working and Operating Conditions

- Concrete mixers can be used in both indoor and outdoor environments;
- 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;
- Set aside an exclusive area for working with the equipment. Keep this area clear of obstacles and well lit at all times;
- Whenever performing maintenance on this equipment, disconnect the cable from the power supply.
- Pneumatic wheel rim 13" calibration: between 26 and 30 p.s.i (pound force per square inch);

Equipment supplied with Electric Engine

- Before switch in your concrete mixer, check if the supply voltage corresponds to the voltage indicated on the identity plate of the electric engine. Switching on the engine when connected to different voltage from the voltage indicated on the identity plate of the electric engine will result in damage to the engine;
- For without voltage selector equipment, contact the authorized service prior to any change.
- The engine drive in a different voltage on the electric engine plate resulting in engine damage;
- Make sure circuit breakers, electric cables, sockets, grounding are compatible with the specified engine;
- Accepted voltage variation must not exceed variations above or below 10%, otherwise running failures may occur or even burning of the engine;
- For use of an extension electric, we recommend the table:

CONCRETE MIXER 250L			
Extension electric	0 a 20m	20 a 30m	above de 30m
Diameter of the electric wire	4,0 mm ²	6,0 mm ²	not recommended

Equipment supplied without Electric Engine

The engine 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.

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.

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 engine;



Grounding the Equipment

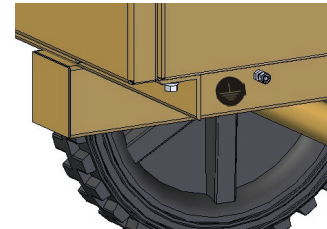
- Correct grounding of the concrete mixer is vitally important in reducing the risk of electrical shocks;
- Thus, before switching on your concrete mixer, make sure that the socket has an ground pin and that this is correctly installed. If your socket is not grounded, arrange for an ground to be installed 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;



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

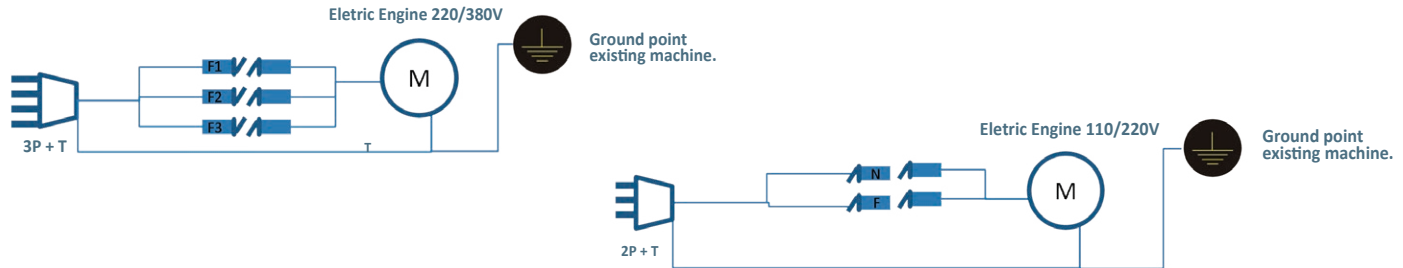


Ground point existing engine.



Existing machine grounding point.

Wiring Diagram



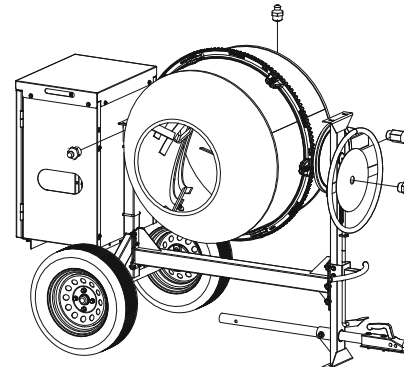
Equipment Lubrication

- 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;
- 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;



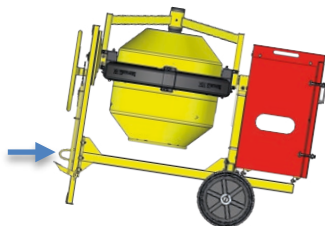
RECOMMENDED GREASES

Ipiranga Ipirflex Li EP2
Mobil Mobilux EP2
Shell Gadus S2 V220
Texaco Marfac MP2
Lubrax Autolith 2

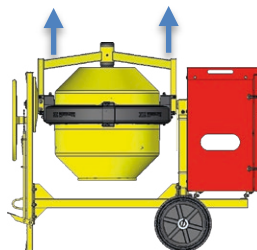


Transport, Lifting and Storage

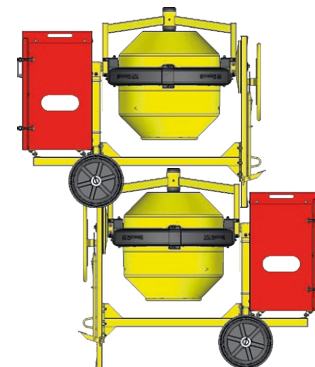
- It has yoke just to raise a few centimeters of soil and carry through the movement of the wheels;
- They should be used by tilting, with the barrel facing down, while maintaining the flatness of the mixer;
- Feature based on the columns for storing one on the other, fixation is by screws, use only one level of stacking;
- Do not exceed the maximum 60 km/h (Pneumatic wheel);



Transport



Lifting

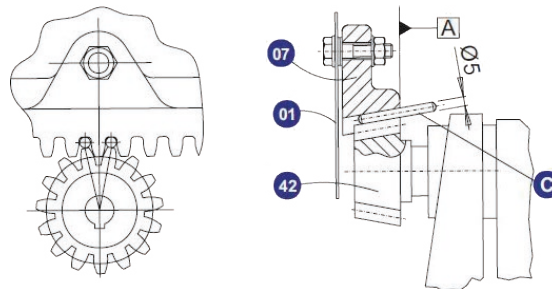


Storage

Equipment Maintenance

Rack Gear Replacement

- Remove the damaged rack gear screws (07), and replace them according to assembly recommendations;
- Use two $\varnothing 5$ 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;



Equipment Operation

- Position the mixer on a flat, stable surface to ensure safe and efficient loading and unloading operations.
- Turn on the equipment using the switch on the engine enclosure.
- Tilt the drum to the desired angle by turning the steering wheel while pressing the pedal to release the swivel locking mechanism.
- Set the drum to the desired angle and lock it again, this movement occurs when the pedal is released.
- Load the drum with the required materials and allow it to mix.
- Once mixing is complete, tilt the drum to discharge all the mixture.
- During operation, keep the drum rotating; the equipment must remain on at all times.
- Never start the engine with the mixer loaded.



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



2. Add the aggregate (gravel) in the cement mixer on.



3. Make use of a measure (bucket) to quantitate the components.



4. Add the cement.



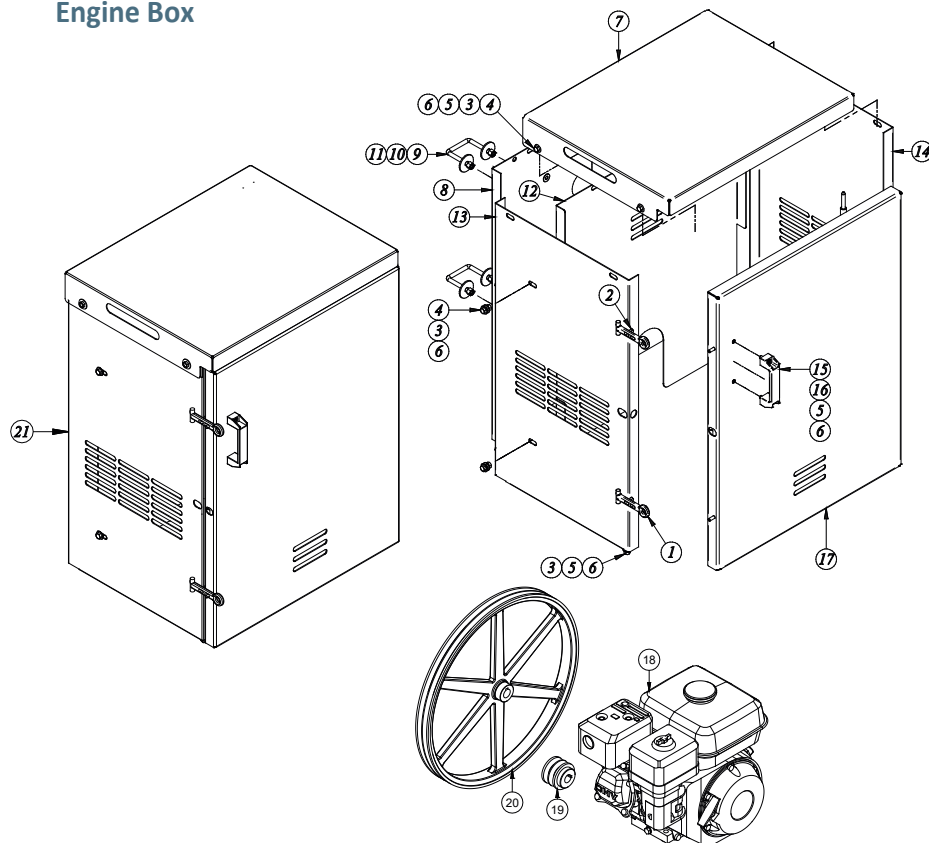
5. Finally add the sand and the rest of the water.



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

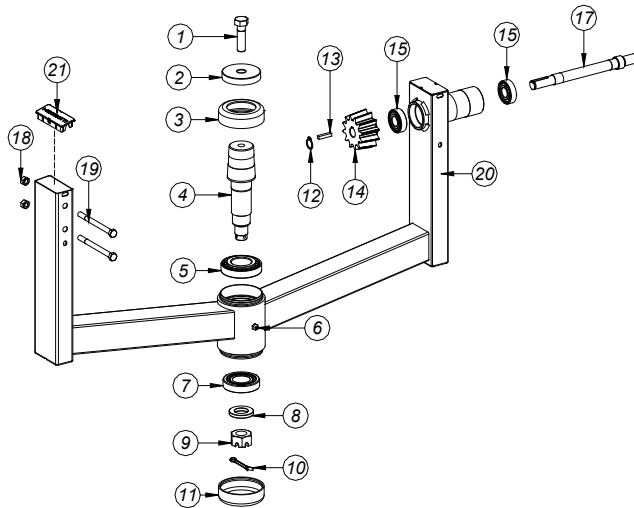
Parts List

Engine Box



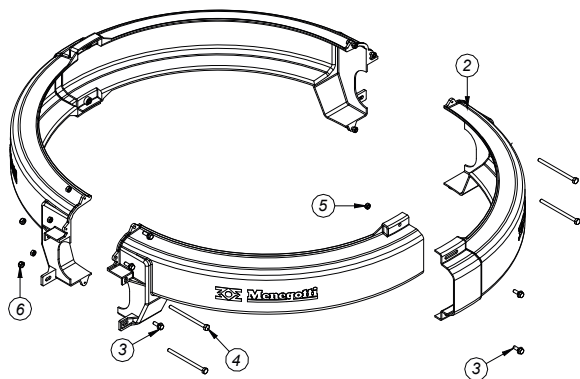
POS.	DESCRIPTION	QTY.	CODE	DRAWING
1	RUBBER DOOR LATCH	2	24030221	4122071
2	STOP RUBBER	2	24030222	4122072
3	FLAT WASHER 5/16"	40	21030252	-
4	HEX SCREW 5/16"x3/4"	16	21010268	-
5	SPRING WASHER 5/16"	18	21030112	-
6	HEX NUT 5/16"	18	21021052	-
7	TOP COVER	1	32420059	3108299
8	UPPER END	1	32420077	3108373
9	U-BOLT 3/8"	2	21012480	4108003
10	SELF-LOCKING NUT 3/8"	4	21021059	-
11	SPECIAL FLAT WASHER 3/8"	4	30100070	4107003
12	INTERNAL PROTECTION	1	32420086	3119066
13	LEFT SIDE	1	32420084	3108414
14	RIGHT SIDE	1	32420085	3108431
15	NYLON HANDLE	1	24070164	4122435
16	SCREW 5/16"x3/4"	2	21010523	-
17	DOOR	1	33108429	3108429
18	ENGINE	1	N/C	-
19	DRIVER POLLEY Ø60X25MM	1	31090273	4109072
20	PULLEY Ø450MM	1	31090271	3109070
21	KIT ENGINE BOX	1	-	3108256

Steel Yoke



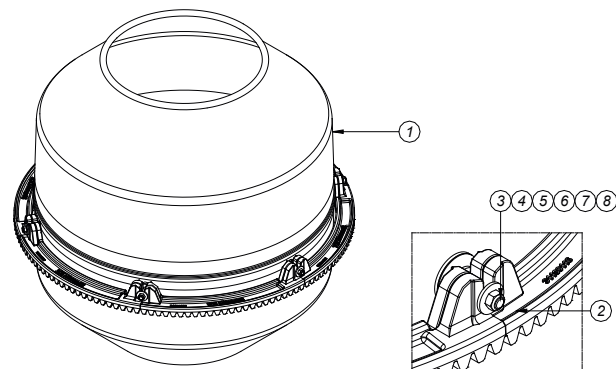
POS.	DESCRIPTION	QTY.	CODE	DRAW
1	SCREW HEX 5/8"x 2 1/4"	1	21013340	-
2	FLAT WASHER DRUM	1	30100103	4122100
3	COVER WITH HOLE	1	24110172	4122213
4	CENTRAL AXIS	1	31020348	3114019
5	BEARING 30208	1	22020606	-
6	GREASE FITTING 1/8"	1	24040101	-
7	BEARING 30207	1	22020605	-
8	FLAT WASHER DN48	1	21030803	4122106
9	NUT CASTLE 1"	1	21020959	-
10	AGAINST PIN 3/16"x1.1/2"	1	21050106	-
11	COVER	1	24110101	4122090
12	ELASTIC RING E-18	2	21060116	-
13	KEY 6X6X30MM	2	30160002	4122009
14	PINION Z-12	1	31030039	3123010
15	BEARING 6204	2	22020205	-
16	STEEL YOKE	1	32460018	2106067
17	PINION SHAFT	1	31020350	3114021
18	HEX NUT 3/8"	2	21021006	-
19	SCREW HEX 3/8"x4.1/2" UNC	2	21015602	-
20	STEEL YOKE	1	32460018	2106067
21	PLASTIC LATCH FOR STEEL YOKE	4	4122592	4122592

Protection Rack Gear



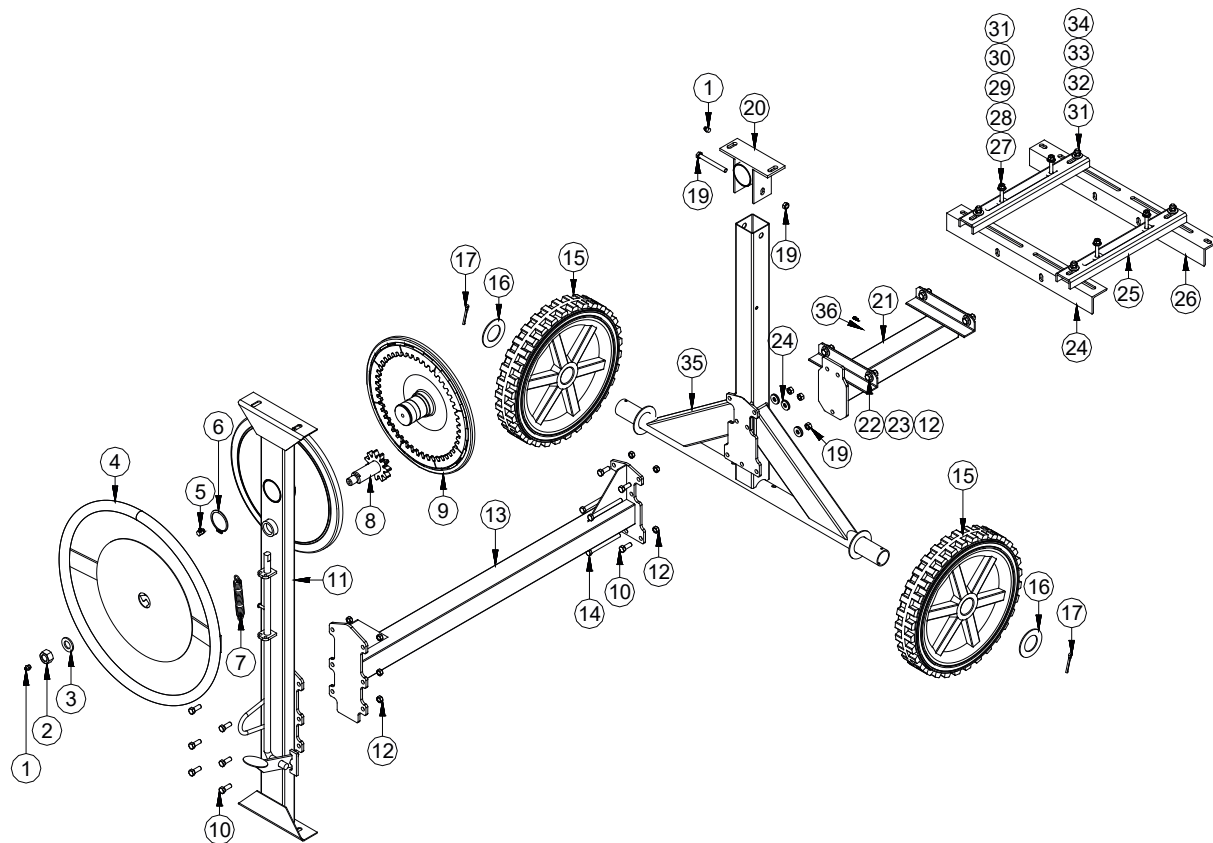
POS.	DESCRIPTION	QTY.	CODE	DRAW
1	PROTECTION RACK GEAR.	2	24110159	3119153
2	PROTECTION RACK GEAR.	2	24110149	3119154
3	SCREW HEX M6 x 16	10	21012986	-
4	FLANGED HEX SCREW 1/4"x4"	4	21015605	-
5	HEX NUT M6	10	21021104	-
6	FLANGED NUT 1/4"	4	21021005	-

Drum



POS.	DESCRIPTION	QTY.	CODE	DRAW
1	DRUM	1	34600021	3107125
2	SEGMENTED CROWN RACK GEAR	6	31180116	2124024
3	SCREW HEX 3/8" x 2"	6	21013820	-
4	FLAT WASHER 3/8" PD	6	21030230	-
5	HEX NUT 3/8"	6	21021059	-
6	FLAT WASHER	6	30100070	4107003
7	WASHER SEALING	6	30100114	4107002
8	FLAT WASHER 3/8" ZB	6	21030204	-

Chassi



Chassi

POS.	DESCRIPTION	QTY.	CODE	DRAW
1	GREASE FITTING 1/8" STRAIGHT	2	24040101	-
2	HEX NUT 3/4"	1	21021011	-
3	FLAT WASHER 3/4"	1	21030225	-
4	STEERING WHEEL	1	31200021	3122089
5	GREASE FITTING 1/8"	1	24040105	-
6	RETAINING RING E-54	1	21060146	-
7	TRACTION SPRING	1	21090116	3117038
8	SHAFT WITH GEAR	1	31020414	4114005
9	REDUCING	1	31220021	3.121.004
10	HEX BOLT 3/8" x 1"	14	21010265	-
11	LARGER COLUMN ARO 09	1	-	3110180
12	SELF LOCKING HEX NUT 3/8"	14	21021059	-
13	TUBE SPACER	1	33125132	3125132
14	HEX BOLT 3/8" x 4"	3	21010124	-
15	RUBBER WHEEL W/CLAWS	2	24110196	3115106
16	FLAT WASHER	2	21030222	4122004
17	AGAINST PIN 3/16" x 2"	2	21050107	-
18	HEX BOLT 3/8" x 3.1/2"	1	21015601	-

POS.	DESCRIPTION	QTY.	CODE	DRAW
19	SELF LOCKING HEX NUT 3/8"	4	21021006	-
20	SLEEVE	1	31140055	3116001
21	ENGINE SUPPORT	1	-	4125065
22	HEX BOLT 3/8" x 1"	4	21010265	-
23	FLAT WASHER 3/8"	9	21030251	-
24	LOWER GUIDE	1	32180017	3112012
25	SUPPORT ENGINE	2	32060144	3112013
26	LARGER GUIDE	1	32180016	3112011
27	SCREW HEX 5/16" x 2"	4	21010228	-
28	HEX NUT 5/16"	4	21021052	-
29	PRESSURE WASHER 5/16"	4	21030112	-
30	FLAT WASHER 5/16"	4	21030252	-
31	THICK FLAT WASHER 3/8"	8	21030230	-
32	HEX NUT 3/8"	4	21020117	-
33	PRESSURE WASHER 3/8"	4	21030163	-
34	SCREW HEX 3/8" x 2"	4	21010241	-
35	LOWER COLUMN ARO 09	1	31020050	3112158
36	HEX SOCKET SCREW	1	21010526	-

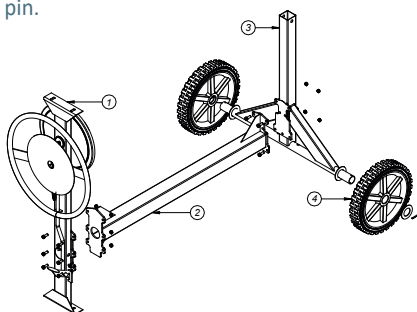
Assembly Procedures

Check List

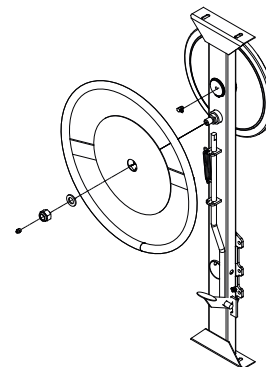
CHECK LIST CONCRETE MIXER	
Tube spacer	1
Motor support	1
Lown column	1
Larger column	1
Wheel rubber solid	2
Tow bar	1
Pin with chain	1
Steering wheel	1
Steel yoke	1
Sleeve	1
Drum	1
Lown guide	1

CHECK LIST CONCRETE MIXER	
Larger guide	1
Motor support	2
Pulley moved	1
Top fund	1
Left side of the box	1
Right side of the box	1
Top side of the box	1
Box door	1
Left plastic protection	2
Right plastic protection	2
Motor pulley	1
Belt V – A	2

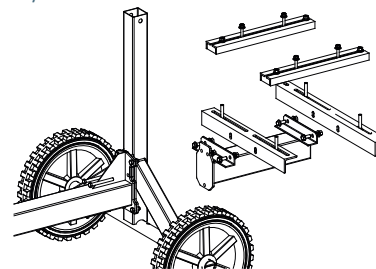
2. Assembly the chassis as image below. Mount the tube space(2) in the large column(1) fasten with hex screw $3/8" \times 1"$. Then fasten the lower column(3) in the spacer tube(2). Fit the wheels(4) on the axle, and lock with the counter pin.



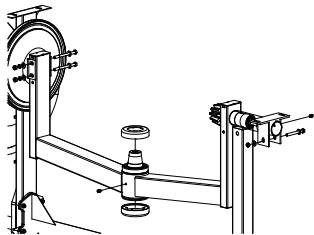
1. Assembly the column higher as image below. Assembly the wheel on the pinion shaft, and fasten with self-locking hexagonal nut $3/4"$.



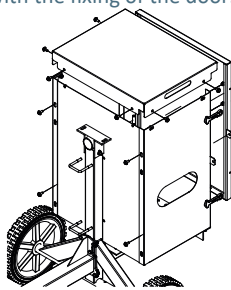
3. Assembly the motor support as image below. Mount the motor support tube in the lower column(3) fasten with hex bolt $3/8" \times 3.1/2"$. Then fasten the lower guide and larger guide in the motor support tube with hex bolt $3/8" \times 1"$. Fasten the motor support in the guide, use the hex bolt $3/8" \times 2"$.



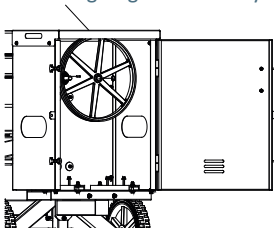
4. Assembly the steel yoke as image below. Fit the tipper in structure, securing with screw reducer $\frac{3}{8}$ " x 4.1/2". Position the bearing(5) in the tipper as image below and fasten to the lower column with screw $\frac{3}{8}$ " x 3.1/2".



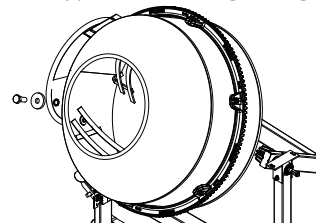
6. Assembly the motor box. Fix the upper end in the lower column with U-clamp. Then assemble the sides and the top cover, fasten with hex bolt $\frac{5}{16}$ "x3/4". Finish with the fixing of the door.



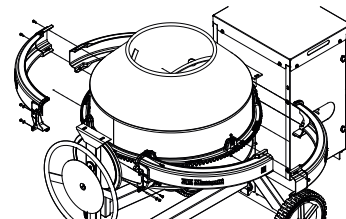
8. Assembly of the transmission system. Fit pulley moved in the pinion shaft, securing with retaining ring E-20 and keyway.



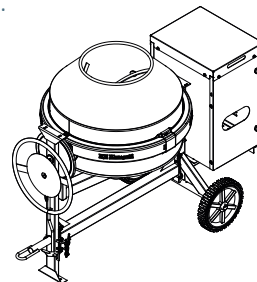
5. Assembly the drum as image below. Position the tipper in a 30° angle. Place the drum on the tipper shaft and tightening the hex bolt $\frac{7}{8}$ " x 2.1/4".



7. Assembly the rack protection as image below. Position the rack protection in the steel yoke, fasten with hex bolt $\frac{1}{4}$ "x4".



9. Assembly complete.



Main Differences



POS.	CONCRETE MIXER	250L RENTAL
1	FLYWHEEL PLATE	THICKNES 4,75MM
2	STEERING WHEEL LOCK	THICKNES 3,75MM
3	DIFFERENTIAL PAINTING	RED
4	DRUM	3 BLADES MIXERS
5	DRUM CORPS	THICKNES 2,66MM

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 for Professional model, being: the first 3 (three) months of legal guarantee, and the last 9 (nine) months a special warranty guaranteed by Menegotti, and 18 (eighteen) months for Rental model, being: the first 3 (three) months of legal guarantee, and the last 15 (fifteen) 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.

Menegotti has an ample network of Technical Assistants throughout the country.

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



MENEGOTTI
HANDLING

MENEGOTTI
CONSTRUCTION

MENEGOTTI
HOUSE & GARDEN



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



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



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



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