

Term of guarantee

a. 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 6 (six) months for Rental model, being: the first 3 (three) months of legal guarantee, and the last 3 (three) months a special warranty guaranteed by Menegotti, counted from the invoice issue date of the first final consumer.

b. This guarantee understands the exchange of parts and repairs against defects of manufacture duly evidenced by Menegotti or Authorized Technical Assistance. This product will lose the guarantee if suffers damages provoked by accidents, agents of nature, application out of specified, improper connection to the electric or submitted to great oscillations of energy and in case opened for non authorized person or non workshop authorized by Menegotti.

c. Expenditures of product freight to the technical assistant or Menegotti plant will run by costumer account.

d. In case of the equipment is acquired with electric engine the guarantee encloses deriving from internal defects of the engine manufacture. The defects not covered by this guarantee are: overload for lack or excess of phase, tension use is out of specified, broken or kneaded carcass in function of incautiousness transportation or storage, engine coupling out of the specifications and general defects from bad use and/or wrong installation.

Important hints

- Make sure the concrete mixer is clean before using it;
- Place the machine on a firm, flat surface;
- Install the switch and motor according to electrical current
- Check the state of the motor belt periodically;
- Material must be placed in the mixer while drum is rotating and in the shortest length of time possible;
- When discharging contents, ensure that drum is rotating.

Attention

Ensure that the electric motor of this equipment is earthed.
Do not operate electrical equipment without first being aware of the risks and responsibilities involved, should precautions not be observed.

We reserve the right to perform any alterations to the product without prior notice.



DISTRIBUTOR:

Menegotti Indústrias Metalúrgicas Ltda.
Rua Erwino Menegotti, 381 - Caixa Postal 408
Cep 89254 000 - Jaraguá do Sul - SC - Brasil
Fone (47) 275-8000 / Fax (47) 371-3942

www.menegotti.ind.br
menegotti@menegotti.ind.br

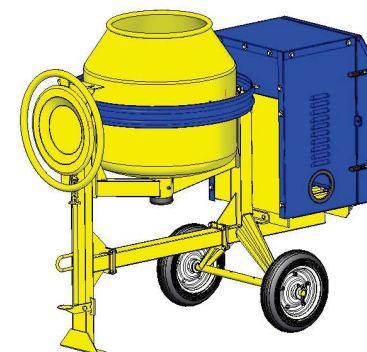
24050356 R7

CONCRETE MIXER 150 L

PREMIUM



PROFESSIONAL



Menegotti

1.1 Manufacturer identification

Menegotti Máquinas Indústria Metalúrgica Ltda. is part of the Menegotti Group, with headquarters in Jaraguá do Sul SC. Menmaq is leader in the production of concrete mixers, tools and equipment for the building industry.

1.2 Machine identification

The Menegotti concrete mixers are designed for the most demanding jobs. The transmission mechanism facilitates easy operation, requiring little effort on the part of the operator.

Note: With the objective of constantly improving its products, Menegotti reserves the right to perform any alterations without prior notice.

1.3 Using the Manual

Study the manual carefully before performing any operations. The manual contains useful information about the product, manufacturer, safety, replacement parts, maintenance and conservation. Always keep this manual nearby for quick consultation, when necessary.

1.4 Technical specifications

Specifications	150L Concrete Mixer Premium	150L Concrete Mixer Professional
Drum capacity/Ideal Work Load	150 liters	150 liters
Drum Rotation	87,5 liters	87,5 liters
Number of Cycles/Hour	30 rpm	30 rpm
Estimated Hourly Production	20	20
Motor Capacity	1,75 m³	1,75 m³
(Electric)		
Energy Supply	1 CV	1 CV
(Electric)*		
Net Weight (without motor)	110/220/380 V	110/220/380 V
Dimensions		
Height	89 Kg	90 Kg
Length	1311 mm	1311 mm
Width	1162 mm	1139 mm
	745 mm	604 mm

** Check the availability and the instructions of the switch for the power supply.

4.3 Replacing Conical Bearings No. 30206 (13) and Spherical Bearing No. 30207 (14):

1. Perform procedures described in item 4.2 to substitute drum (ring gear does not need to be removed);
2. Remove lower cover;
3. Loosen the cotter pin, the castle nut (16) and finally the flat washer;
4. Remove the No. 6305/No. 30207 bearing (14) and replace with the new piece;
5. Remove the central shaft (12) and remove the No. 30206 Bearing (13) replacing with the new piece;
6. It is recommended that all replacement bearings be oiled.

4.4 Replacement of Pinion (24):

1. Proceed as described in item 4.2 to remove drum, without removing ring gear;
2. Remove bolt and locking washer;
3. Remove pinion (24) replacing the damaged piece while observing the adjustment described in item 4.1. If necessary, perform readjustment.

Attention: The number before the slash between brackets represents the premium model components and after the slash the professional model components.

4.5 Lubrication

(Premium/Professional)

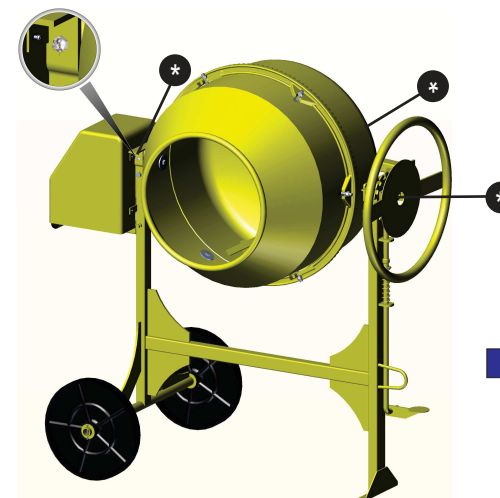
1. Keep machine rotating parts lubricated, such as: bushings, and bearings (with the help of the grease fittings installed in the machine).



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.

* lubricate the equipment in the beginning of operation periods, in all the lubrication points.

*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 Alvania R2

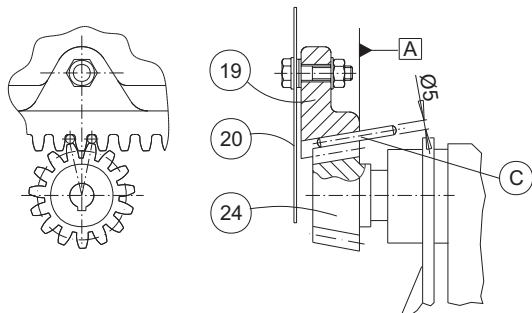
Texaco . Multifax EPO

Castrol . Lm2

Atlantic . Litholine 2

Check the lubrication points (appointed in the illustration) to use the grease nipples, that facilitate the lubrication work.

4.1 Replacement of Ring Gear (43/46):



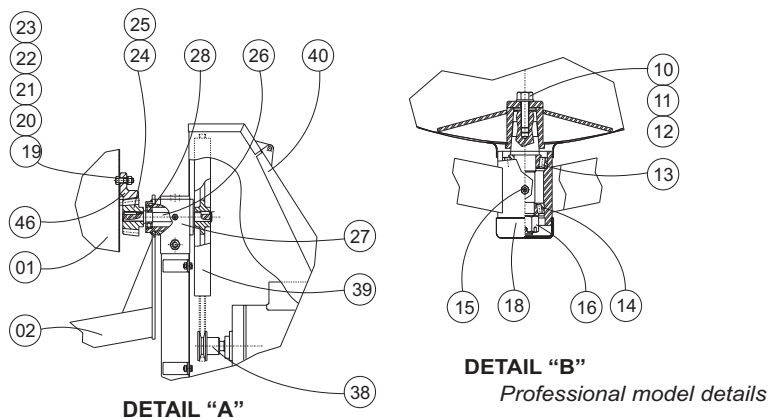
1.1 Remove damaged ring gear (19/36) and replace it in accordance with the following assembly recommendations:

1.1.1 Use two 5 mm $\varnothing$ pins (C) to adjust the gap between teeth. This is necessary for the perfect running of the pinion and gear ring;

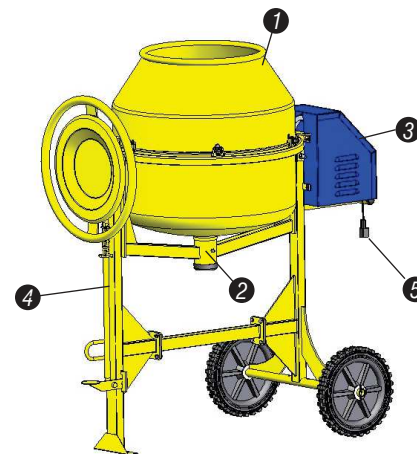
1.1.2 Adjust the alignment between ring gear and pinion using "A" as a reference, compensating the differences with flat washers (See fig. 1).

4.2 Substitution of Drum

1. Remove the ring gear (43/46);
2. Remove drum (01) cover ((18), cotter pin and castle nut (16);
3. Position drum (01) with opening facing downwards to facilitate removal;
4. Carefully replace drum. Fix the drum to the central shaft using the fixing bolt (10), following the gear ring assembly recommendation in item 4.1.



1.5 Machine Description (Main Parts)



N°	Descrição
1	DRUM
2	STEEL YOKE
3	BOX
4	FRAME
5	MOTOR

Model 150L Premium

1.6 Working and Operating Conditions

- Menegotti 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.
- The introduction of any object inside a moving drum can result in a serious accident.
- Improper use of this equipment, i.e. other than that for which it was projected, can pose a physical threat to the operator and those around him.
- In order to reduce operating risks when using this equipment, carefully follow the manufacturer's instructions.
- Read this instruction manual carefully;
- Use the equipment in accordance with this instruction manual;
- The operator must be trained or qualified to use this equipment;
- Set aside an exclusive area for working with the equipment. Keep this area well lit and clear at all times, without any obstacles;
- The removal of or alteration to any safety device or its characteristics is strictly forbidden. Should alterations be performed, Menegotti cannot be held responsible for any physical or material damage, with the user forfeiting all guarantee rights in relation to the equipment;
- Motors must be installed by qualified professionals;

-Whenever performing maintenance on this equipment, disconnect the cable from the power supply. - All equipment maintenance, whether electrical or mechanical, must be performed by authorized or licensed people;

1.7 Noise level during operation

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.

Empty	Full
75-76 dBA	94-95 dBA

1.8 Equipment supplied with Electric Motor

Turning on the Motor

Before switch on your concret mixer, check if the supply voltage corresponds to the voltage indicated on the identity plate of the electric motor. Switching on the motor when connected to different voltage from the voltage indicated on the identity plate of the electric motor will result in damage to the motor.

ATTENTION



Accepted voltage variation must not exceed variations above or below 10%, otherwise running failures may occur or even burning of the motor.

When cleaning the equipment, never throw water on the motor.

Earthing the machine

- Correct earthing 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 earth pin and that this is correctly installed. If your socket is not earthed, arrange for an earth to be installed before using the concrete mixer.

- Just like the sockets, always use electrical extensions with an earth pin and earth wire.

- **Check if the earth wire (Fig. A.1 or B.1) is connected to the electric motor earth point (Fig. C or E) and if there is an earth wire (Fig. A.2 or B.2) connected to the machine earth point (Fig. D or F), as shown in the following example:**

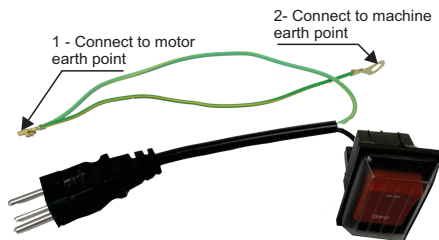


Fig. A - 150L Premium concrete mixer single phase starter switch assembly

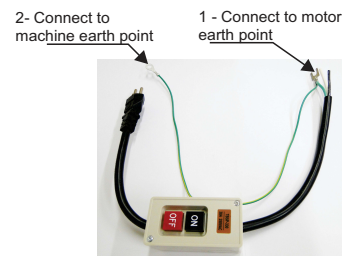


Fig. B - 150L Professional concrete mixer single phase starter switch assembly

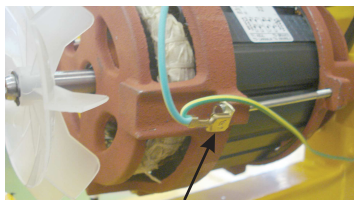


Figure C - 150L Premium concrete mixer motor earth point (photo for illustrative purposes only)

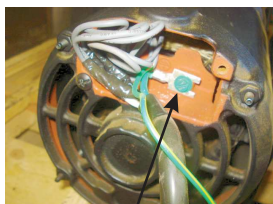


Figure E - 150L Professional concrete mixer motor earth point (photo for illustration purposes only)

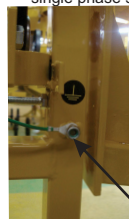


Figure D - 150L Premium concrete mixer earth point

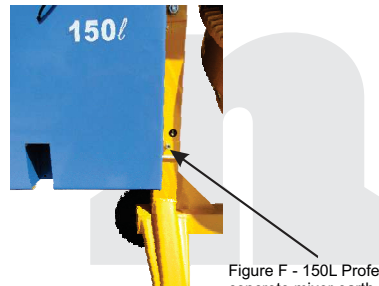


Figure F - 150L Professional concrete mixer earth point

PROFESSIONAL

Position	Denomination	Quantity	Code	Descript. No.
40	Galv. 3/8" x 1. 1/2" Hex. Bolt	04	21010216	-
41	UNC 3/8" Hex. Nut	04	21021053	-
42	Seeger Toothed Washer	04	21030163	-
43	Guide	01	-	3.112.066
44	CL8.8 3/8" x 1" Hex. Bolt	15	21013333	-
45	Galv. 0,37 Washer	30	21030251	-
46	Galv. UNC 3/8" Hex. Nut	15	21020117	-
47	Seeger Toothed Washer	15	21030163	-
48	Cotter Pin 3/8" x 15 mm	02	21070430	-
49	Motor protection box	01	-	2.108.027
50	Sheave	01	-	3.108.054
51	Pulley	01	-	4.109.019
52	Frame	01	-	3.125.040
53	Hack Protection	01	-	3.119.018
54	0,37 x 1,5 UNC Hex. Bolt	06	21010246	-
55	Whaser	06	12502620	4.107.003
56	Whaser	06	24100105	4.107.002
57	Whaser	12	21030218	-
58	Seeger Toothed Washer	06	21030163	-
59	3/8" Galv. Hex. Nut	06	21020107	-
60	Hack	01	-	2.124.005
61	Tension spring	01	21090116	3.117.038
62	Plastic Cover Drilled	01	24110172	4.122.213
63	Drum	01	34600054	2.107.044

PROFESSIONAL

Position	Denomination	Quantity	Code	Descript. No.
1	Cotter pin	02	21050106	-
2	Flat Washer Diam.45X Diam.28X2,66mm	04	21030336	4.122.023
3	Wheel	02	22090162	-
4	Shaft	01	-	4.114.046
5	Short Column	01	-	3.112.072
6	BSP 1/8" Grease Fitting	02	24040101	-
7	Conical Bearing	01	22020604	-
8	UNF 1" Castle Nut	01	21020959	-
9	3/16" x 1. 1/2" Cotter Pin	01	21050106	-
10	Plastic Lid	01	24110101	4.122.090
11	Galv. 3/8" X 1" Hex. Bolt	08	21010266	-
12	A 10,5 Bite Washer	08	21030324	-
13	UNC 3/8" Hex. Nut	08	21021053	-
14	Pedal	01	-	4.122.063
15	Key bolt	01	-	3.117.022
16	Hand Wheel	01	-	3.122.023
17	Hex. Nut Selflocker 3/4" UNC Galv.	01	21021011	-
18	3/4" Galv. Flat Washer	01	21030225	-
19	Steel Yoke	01	-	2.106.022
20	Bite Washer SEEGER N10	04	21030115	-
21	Countersunk Flat Head Screw	04	21011154	-
22	Conical Bearing	01	22020605	-
23	Central Shaft	01	12212429	3.114.015
24	Central Shaft Washer	01	12212629	4.122.135
25	Seeger Toothed Washer	01	21030325	-
26	CL8.8 1. 1/2" x 1. 1/2" Hex. Bolt	01	21013430	-
27	Pinion	01	15964502	3.123.001
28	Pinion Shaft	01	12212613	3.114.016
29	Taper Key 6x6x22 mm	01	30160002	-
30	Spherical Bearing	01	22020214	-
31	1/2"x 3. 1/2" BSW galv. Hex. Bolt	01	21010319	-
32	Bearing	01	-	3.116.001
33	Washer	01	21030106	-
34	1/2"BSW nut	01	21020206	-
35	Gear Ring	01	-	4.112.070
36	Motor Base	01	-	3.112.067
37	Galv. 3/8" x 1. 1/2" Hex. Bolt	04	21010241	-
38	UNC 3/8" Hex. Nut	04	21021053	-
39	UNC 3/8" Whaser	08	21030229	-

- The earth wire passes through the on/off switch; it must not be interrupted nor connected to the contacts.

- Never connect the earth wire to the neutral wire.



- The earth of the product must be in accordance with current standards in your country, and in the absence of these, they must be in accordance with international standards.

Electric Extensions

- For gauge and extension length dimensioning, these must be dimensioned according to current standards in your country, and in the absence of these, they must be in accordance with international standards.



ATTENTION

- Never connect more than one piece of equipment to the same socket or electrical extension.

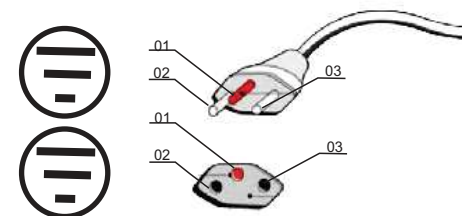
- Ensure that the socket, plug, cable and connections are in a perfect state and that they are compatible with the equipment;

- An inadequate extension can increase fire risk.

- 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).

Original Menegotti concrete mixers supplied with single phase motors are come with NBR 14136 standard plugs, have three pins (including earth wire) and prevent accidental contact with the plug Terminals.



Terminal Sequence (pins).

Earth Terminal (01), Neutral Terminal (02) and Phase Terminal (03).

1.9 Equipment 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 motor 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.

1.10 Equipment supplied without Electric Motor



- The electrical devices, their installations and the earth of the product must be in accordance with current standards in your country, and in the absence of these, they must be in accordance with international standards.

1.11 Safety

- When using this equipment, follow the manufacturer's instructions so as to reduce the risk of operating accidents.
- Read this instruction manual carefully;
- Use the equipment in accordance with the instructions in this manual;
- The operator must be trained or qualified to operate this equipment;
- The operator must not use overly loose clothing and must be familiar with the way the machine functions;
- Set aside an exclusive area for working with the equipment. Keep this area well lit and clear at all times, without any obstacles;
- The removal of or alteration to any safety device or its characteristics is strictly forbidden. Should alterations be performed, Menegotti cannot be held responsible for any physical or material damage, with the user forfeiting all guarantee rights in relation to the equipment;
- Motors must be installed by qualified professionals;
- Maintenance must be performed in accordance with this manual by qualified people and at the recommended times;
- Whenever performing maintenance on this equipment, disconnect the cable from the power supply.

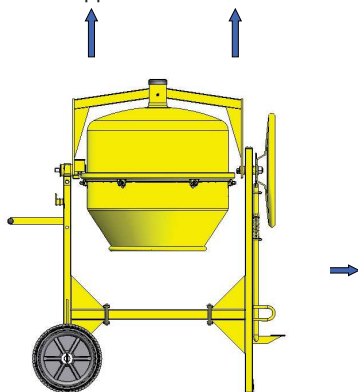
2. LIFTING, TRANSPORTING AND STORING

2.1 Lifting

The concrete mixers must be lifted by the lower side of the steel yoke with the drum facing downwards, as shown by the vertical arrows in the figure, with the two support points of the hoist. Sharp movements and hitting against other objects must be avoided.

2.2 Transport

The concrete mixers have a coupling in the large column expressly for the purpose of transporting the machine, as shown by the horizontal arrow in the figure. When moving the concrete mixers use the rear wheels, raising the front support.



PREMIUM

Position	Denomination	Quantity	Code	Descript. No.
39	Galv. M-8 Hex. Nut	04	21021124	-
40	3/16" x 1 1/2" Cotter Pin	02	21050106	-
41	Flat Washer Diam.45X Diam.28X2,66mm	02	21030336	4.122.023
42	Plastic Wheel	02	24110107	-
43	Gear Ring	01	27030460	2.36.07
44	Galv. M-8 x 20 Hex. Bolt	02	21012931	-
45	8 mm DIN Retaining Ring	02	21030405	-
46	Cable Kit, Connector and Plug	01	26010421	4.127.011
47	Insoluk Bracket	05	21110121	-
48	On/Off Switch	01	26100412	-
49	E-46 Spring Ring	01	21060141	-
50	Galv. 5/16" x 3/4" Hex. Bolt	04	21010268	-
51	Galv. 5/16" Retaining Ring	04	21030103	-
52	"V" F-1 Belt	01	22010360	-
53	Taper Key	01	21120120	-
54	Pedal	01	31190002	4.122.003
55	Lock	01	30030018	3.117.010
56	1/4" x 3/4" Hex. Bolt	08	21010270	-
57	UNC 1/4" Retaining Ring	08	21030546	-
58	UNC 1/4" Hex. Nut	08	21020121	-
59	Tension spring	01	21090116	3.117.038
60	Plastic Cover Drilled	01	24110174	4.122.205

PREMIUM

Position	Denomination	Quantity	Code	Descript. No.
1	Drum	01	34600066	2.107.011
2	Steel Yoke	01	02106003	2.106.007
3	Chassis	01	03125009	3.125.009
4	Wheel	01	31200012	3.122.012
5	Drum Washer	06	30100070	4.107.003
6	Galv. UNC 3/4 " Self-locking Nut	01	21021011	-
7	Galv. 3/4 " Flat Washer	01	21030225	-
8	90" BSP 1/8" Grease Fitting	01	24040105	-
9	Central Shaft Washer	01	30100104	4.36.01
10	1/2" x 1 1/2" Galv. CL8.8 BSW Hex Bolt	01	31013430	-
11	Galv. A-14.5 Seeger Toothed Washer	01	21030344	-
12	Central Shaft	01	31020296	3.36.21
13	Conical Bearing 30206	01	22020604	-
14	Spherical Bearing 6305	01	22020118	-
15	BSP 1/8" Grease Fitting	02	24040101	-
16	UNC CL 8.8 7/8" Castle Nut	01	21020958	-
17	1/8" x 1 1/2" Cotter Pin	01	21050102	-
18	Plastic Lid	01	24110103	4.40.03
19	Galv. UNC 3/8" x 1 1/2" Hex. Bolt	06	21010216	-
20	Galv. UNC 3/8" Hex. Nut	06	21020117	-
21	Galv. 3/8" Retaining Ring	06	21030163	-
22	Galv. 3/8" Flat Washer	06	21030251	-
23	Washer	06	30100114	4.107.002
24	Pinion	01	31030034	4.123.004
25	Taper Key	01	30168402	-
26	Pinion Shaft	01	31020344	3.114.010
27	Bearing	01	31140076	3.116.006
28	Spherical Bearing 6003Z	02	22020210	-
29	Spring Ring E-17	01	21060115	-
30	Spring Ring E-15	01	21060113	-
31	Driven Pulley	01	29110217	4.109.045
32	Driver Pulley	01	31090120	4.36.55
33	1/3 HP – 60Hz Single Phase Motor	01	23014603	-
34	PLASTIC Motor Protection Box	01	24110108	3.40.02
35	Galv. UNC 3/8" x 2 1/2" Hex. Bolt	01	21013822	-
36	Galv. UNC 3/8" Hex. Nut	01	21020117	-
37	Galv. 3/8" Retaining Ring	01	21030163	-
38	Galv. M-8 x 40 Hex. Bolt	01	21012934	-

3.1 Work location for operating equipment

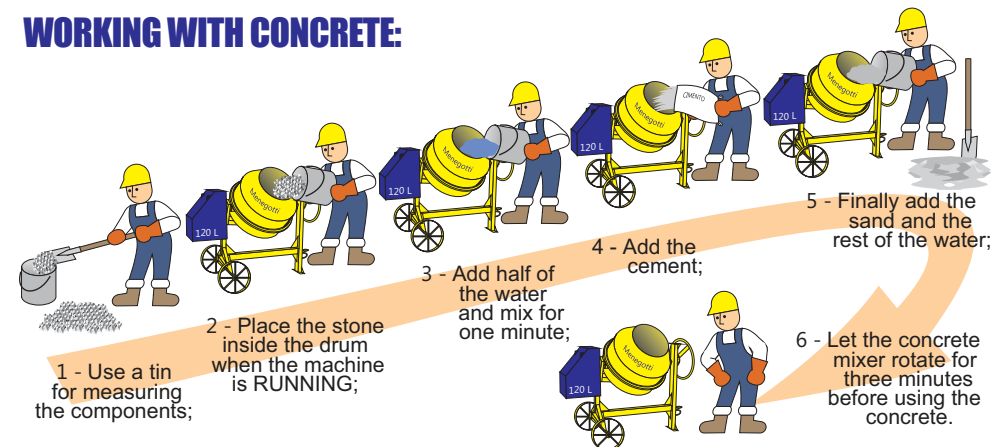
Place the concrete mixer on a flat and firm surface to facilitate loading and discharge process.

3.2 Electric operation

1. Connect the cut-off switch which is in the motor protection box remembering to follow recommendations for the extension. The black button switches on the machine and red one switches it off;
2. Tilt the drum to the desired angle. This movement must be performed by turning the wheel and, at the same time, standing on the pedal that locks the steel yoke rotation;
3. Fill the drum and let it mix for about 2.5 minutes;
4. Once mixing is concluded, tilt the drum until the mixture is discharged;
5. To fill the drum again, keep the equipment turned on, taking care while it is running.

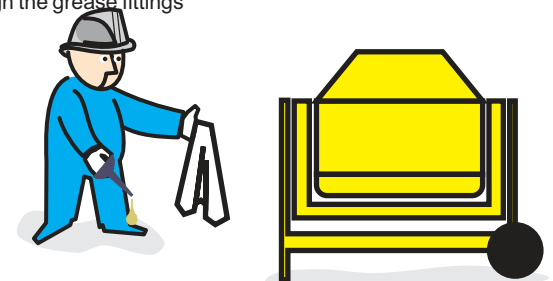
3.3 Use of equipment

WORKING WITH CONCRETE:



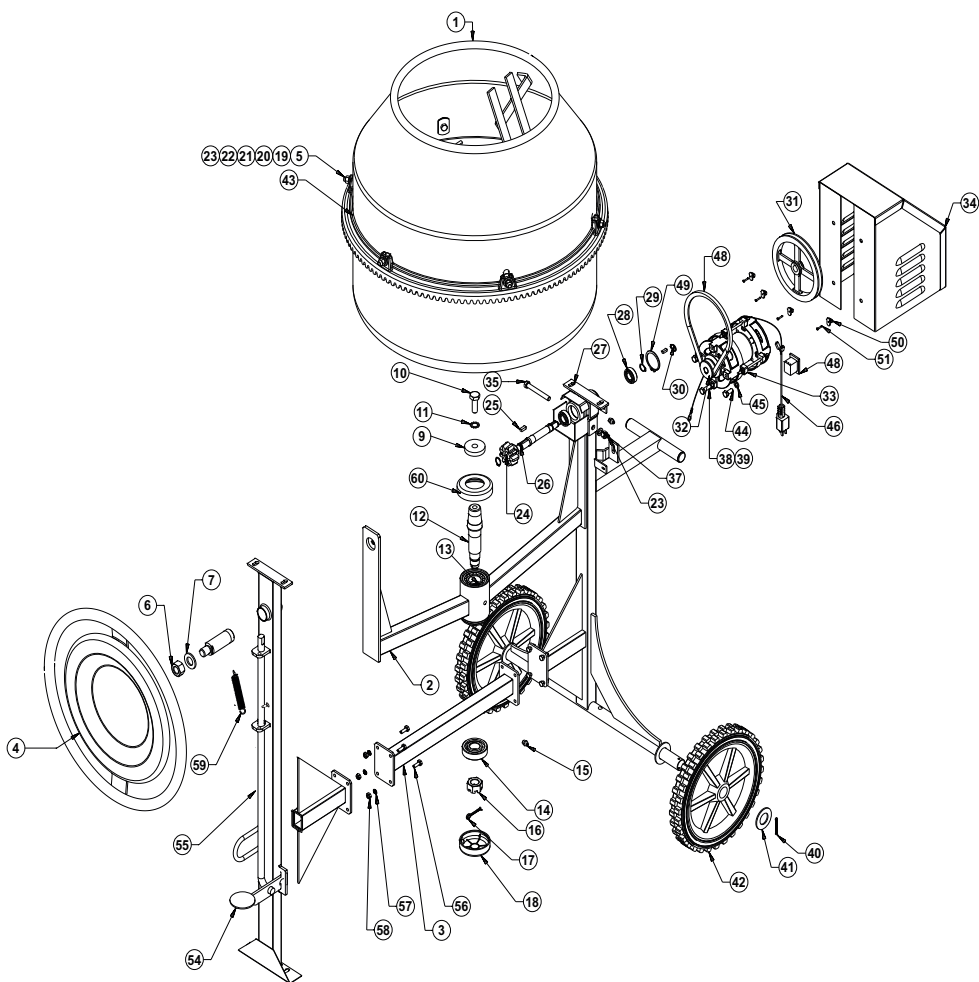
3.4 Cleaning and general care of the equipment

- Always clean the equipment after use, specially the drum in order to remove all the concrete lodged inside it;
- Take care not to wet the motor.
- Make sure the equipment is lubricated through the grease fittings when required.

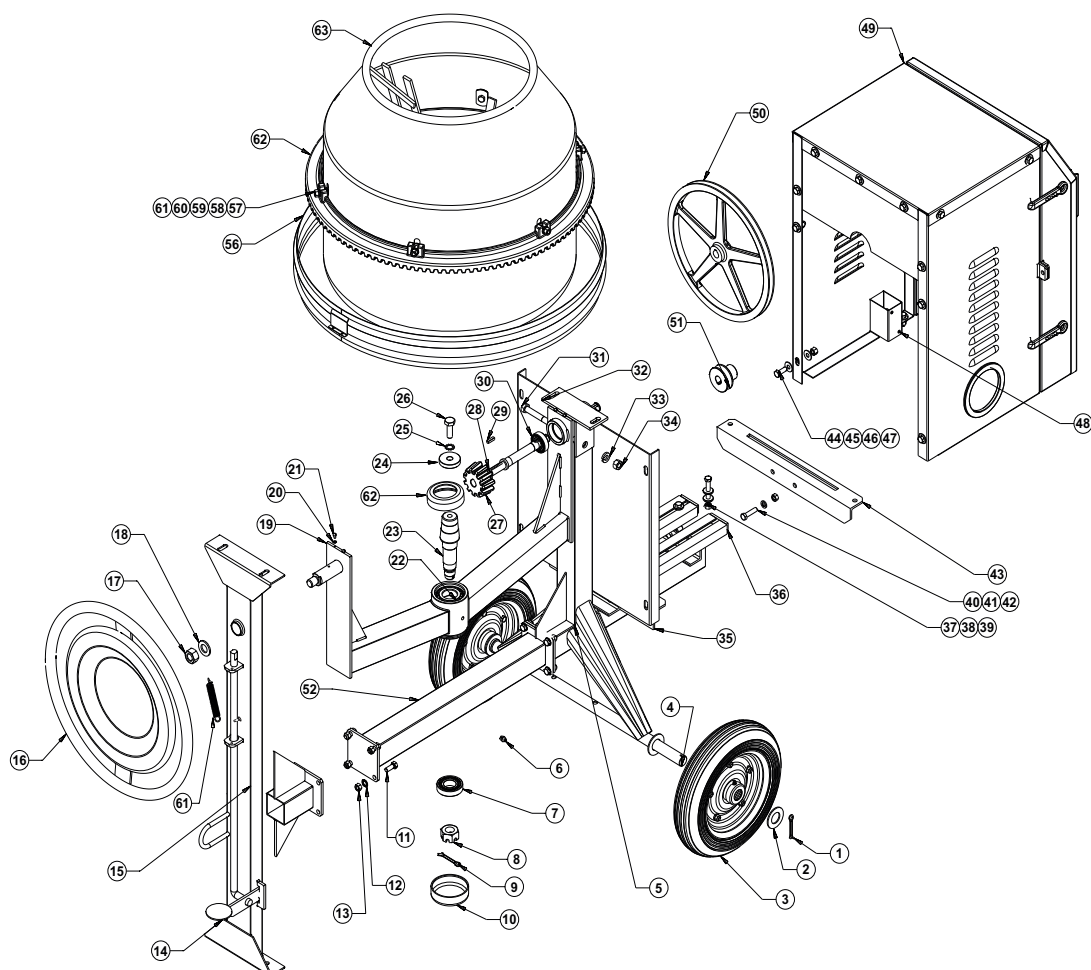


PREMIUM

PROFESSIONAL



8



9