

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.

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Menegotti

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DISTRIBUTOR:



INSTRUCTION MANUAL

CONCRETE MIXER 250 L RENTAL



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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, from the date of purchase proven by means of the presentation of the bill of sale to the first final consumer, being: the first 3 (three) months of legal guarantee, and the last 9 (nine) months a special warranty guaranteed by Menegotti. 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.

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4.1 Replacing Conical Bearings No. 30207 and 30207:

1. Perform procedures described in item 4.2 to substitute drum (ring gear does not need to be removed);
2. Remove lower cover (30);
3. Loosen the cotter pin (27), the castle nut (28) and finally the flat washer (29);
4. Remove the No. 30207 conical bearing (27) and replace with the new piece;
5. Remove the central shaft (22) and remove the No. 30208 Bearing (25) replacing with the new piece;
6. It is recommended that all replacement bearings be oiled.

4.2 Replacement of Pinion (15):

1. Proceed as described in item 4.2 to remove drum, without removing ring gear;
2. Remove screw and locking washer;
3. Remove pinion (15) replacing the damaged piece while observing the adjustment described in item 4.1. If necessary, perform readjustment.

4.3 Replacement of Internal Gear Support (1):

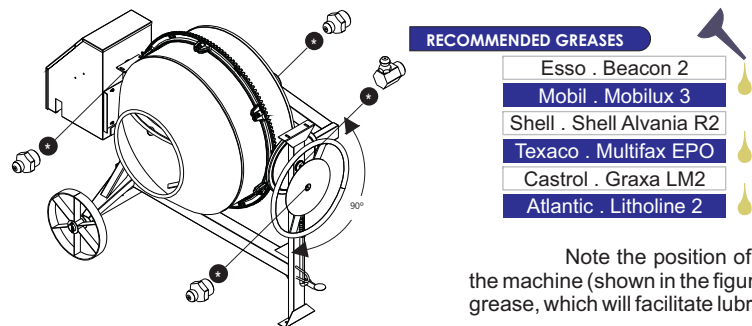
1. Unscrew the bolt and remove the wheel;
2. Remove the spring ring;
3. Remove the transmission belts (7);
4. Loosen the nut and remove the sheave (8);
5. Remove the motor protection box (9);
6. Turn the drum so it's facing downwards (13) and suspend using a rope tied to the center of the steel yoke, to facilitate disassembly;
7. Release the steel yoke bearing and the internal gear support (1);
8. Suspend the steel yoke/drum set and remove the internal gear support (1), also enabling the replacement of the wheel shaft (13);
9. Replace the damaged pieces and reassemble the machine.

4.4 Lubrication

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

* Lubricate the equipment at the beginning of operation, applying grease to all 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.

! 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.



Note the position of the lubricating points in the machine (shown in the figure on the left) for applying grease, which will facilitate lubrication work.

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

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	Bet 250 L Rental
Drum Capacity	250 liters
Mix Capacity	200 liters
Drum Rotation	30 rpm (60Hz)
Number of Cycles/Hour	15
Estimated Hourly Production	3 m³/h
Final Yield of the mixture	175 liters
Motor Capacity (Electric)	1 CV
Energy Supply (Electric)*	110/220/380 V
Net Weight (without motor)	148 Kg
Dimensions	
Height	1255 mm
Length	1775 mm
Width	604 mm

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

1.5 Machine Description (Main Parts)



- | | |
|---|---------------------------------|
| 1 | DRUM |
| 2 | STEEL YOKE |
| 3 | BOX |
| 4 | FRAME |
| 5 | GEAR RACK PROTECTION (Optional) |
| 6 | WHEEL |

1.6 Working and Operating Conditions

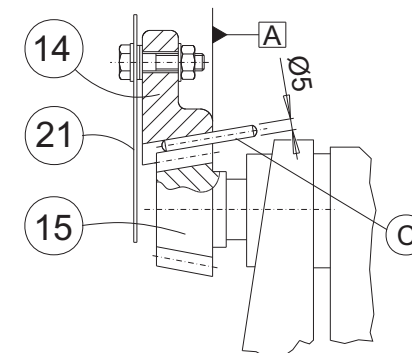
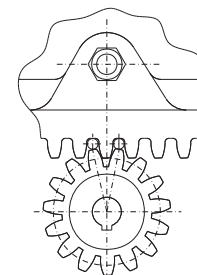
- Menegotti concrete mixers can be used in both indoor and outdoor environments. -When filling a concrete mixer with a spade, do not place the spade inside the drum.
- The introduction of any object inside a moving drum can result in a serious accident. -Improper use of this equipment, i.e. other than 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;
- Perform all maintenance as instructed in this manual with qualified people and within the stipulated periodicity;
- 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
	85-86 dBA	91-92 dBA

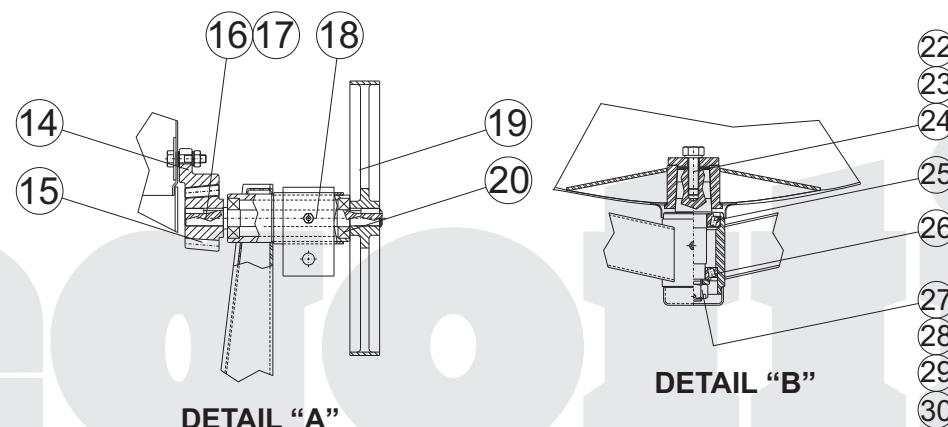
4.1 Replacement of Ring Gear (14):



1. Remove bolts from damaged ring gear (14) and replace it in accordance with the following assembly recommendations:
2. 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;
3. Adjust the alignment between ring gear and pinion using "A" as a reference, compensating the differences with flat washers

4.2 Replacement of Drum (21): (See fig. 1).

1. Remove the ring gear by removing its fixing bolts;
2. Remove drum fixing bolt (23) and the washer, located inside it;
3. Turn the drum till the opening faces downwards to facilitate removal;
4. Replace the damaged piece and reassemble the machine, following the gear ring assembly recommendation in item 4.1.



3.1 Work location for operating equipment

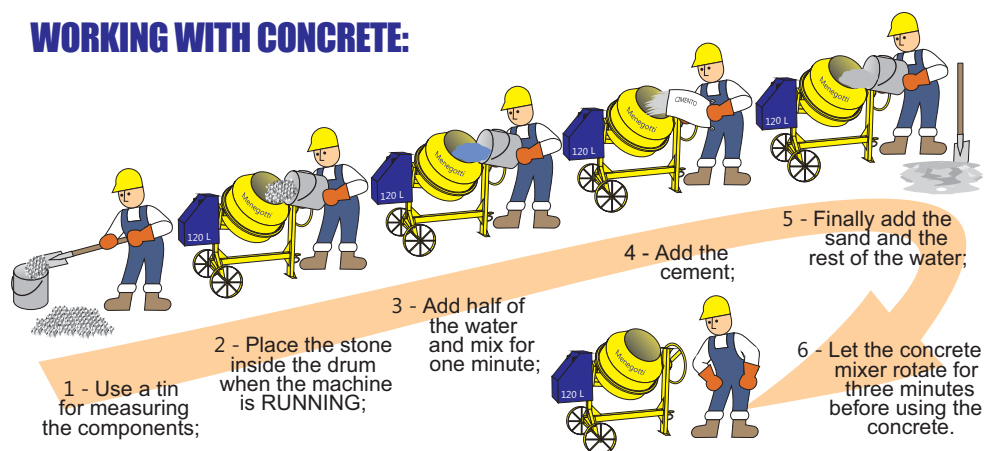
Place the concrete mixer on a flat and firm surface to facilitate loading and discharge process.

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.



1.8 Electrical Characteristics

Switching on motor

Single phase motors leave the factory with voltage set at 220V and three phase motors at 380V. Always make sure that the supply voltage corresponds with that indicated on the identification plate. For machines without a voltage selector, consult an authorized service shop to perform any voltage outlet alterations. For machines with an automatic voltage selector, alter to correspond with supply voltage.

Electrical extensions

The following table gives the appropriate wire gauges for conducting current in electrical extensions.

Gauge (mm ²)	Concrete mixer model
2,5	250L Rental

* Electrical extension must not exceed 30 m.

* If a longer extension is required, consult a technician to select the correct gauge. An inadequate extension can increase fire risk.

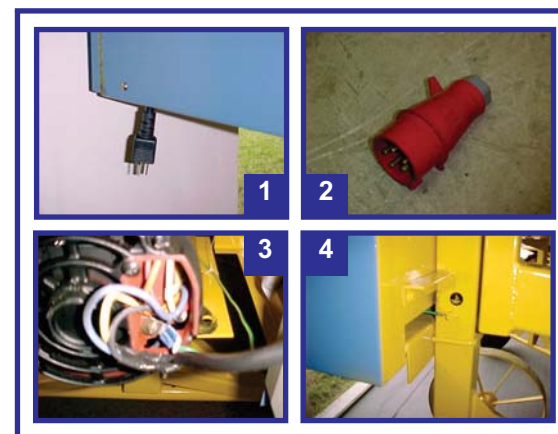


Do not forget to earth the product.

1.9 Equipment with Motor

Focusing on the satisfaction and safety of the consumer, Menegotti Indústria Metalúrgicas Ltda. has, through its project department, designed its concrete mixers in accordance with NBR14009, NBR14153, NM272-2001 and NM-ISO13854-2003 standards for the purpose of minimizing operating risks of an electrical or mechanical nature.

- Single phase plug with earth (single phase motor). (Figure 1)
- Three phase plug with earth (three phase motor). (Figure 2)
- Motor earth. (Figure 3)
- Body earth. (Figure 4)



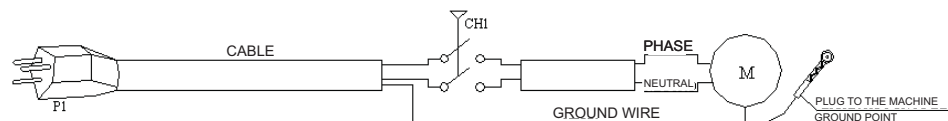
1.10 Equipment without Motor

Concrete mixers purchased without motors must have the original factory motor electrical installation. Failure to perform correct installation can result in electrical shocks for those operating the equipment.

Material required for motor installation:

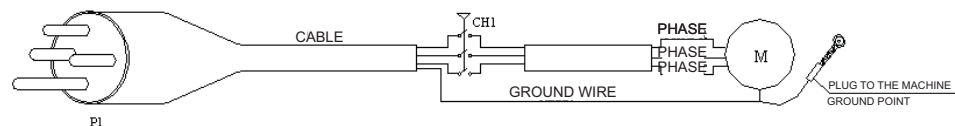
SINGLE PHASE

- 30 Amp on/off switch
- 2P + T model Plug
- 3 x 2.5 mm² PP Cable
- 1 mm² Earth Wire
- 6.5 mm hole diameter round connector type Terminal
- 6 mm hole diameter fork connector type Terminal



THREE PHASE

- 30 Amp on/off switch
- 3P + T model Plug
- 4 x 2.5 mm² PP Cable
- 1 mm² Earth Wire
- 6.5 mm hole diameter round connector type Terminal
- 6 mm hole diameter fork connector type Terminal



Attention:

- In accordance with electrical schemes, the earth wire must not be interrupted or connected to the contacts when passing through the electrical switch.
- Correct motor and machine earth is vitally important for preventing electrical shocks.
- Only use plugs and sockets with a connection for earth wire.
- Never connect the earth wire to a neutral conductor.
- The pinion protection shields must not be removed.

Position	Denomination	Quantity	Code	Descript. No.
41	Washer	12	30100074	4.74.108
42	Sealing Ring	06	30100114	4.107.002
43	Flat Washer 3/8" X 27 X 2,7 POL	12	21030230	-
44	Hex. Nut UNC 3/8"	06	21020104	-
45	Hex. Cab. Nut UNC 3/8" x 1 1/2"	06	21010216	-
46	LUB Grease Fitting 90° BSP 1/8"	01	24040101	-
47	Spring Ring E-54	01	21060146	-
48	Tension spring	01	29090116	3.117.038
49A	Gear Rack Fiber Protection	01	30130062	3.119.029
49C	Fiber Pinion Protection	01	30130065	3.122.067

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.
- The operator must use gloves, safety goggles and ear protectors.
- O operador deverá usar luvas, óculos de segurança, e protetores auriculares.

1.12 Tires

- Tires calibrated with 10 pounds for shipment.

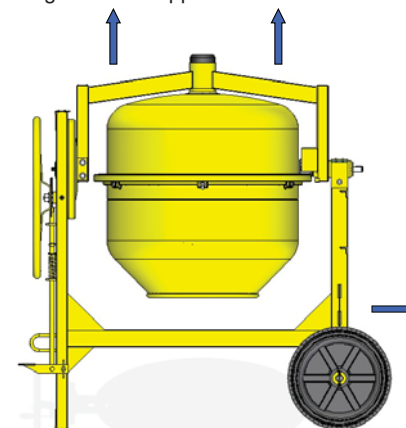
2. LIFTING, TRANSPORTING AND STORING

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 Transporting

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



Position	Denomination	Quantity	Code	Descript. No.
1	Internal Gear Support	01	31220021	3.121.004
2	Wheel	01	03741730	3.122.015
3	Wheel Shaft	01	04743690	4.114.005
4	Wheel Bushing	01	04743560	4.118.005
5	Steel Yoke	01	02710800	2.130.006
6	Protection Box	01	34501006	2.108.019
7	Single/three phase motor driven pulley	01	31090145	4.109.004
8	V A48 Belt	01	22010124	.
9	1 HP Capacity Single Phase Motor 4 Poles	-	-	-
10	60 HZ Carc. D56 110/220V	01	23011982	.
11	1 HP Capacity Three Phase Motor 4 Poles	-	-	-
12	60 HZ Carc. D56 110/220V	01	23014415	.
13	Single Phase Assembled Electrical Switch	01	26100472	4.127.002
14	Three Phase Assembled Electrical Switch	01	26100473	4.127.003
15	Wheel	02	24110126	4.115.017
16	Z134 Gear Ring	01	27030674	-
17	Pinion	01	31030027	3.123.004
18	Pinion Shaft	01	31020350	3.124.021
19	Taper Key	02	30160002	4.50.12
20	Steel Yoke Bearing	01	31140055	3.116.001
21	Sheave	01	31090017	3.108.044
22	6240Z Rigid Spherical Bearing	02	22020214	.
23	Drum	01	34600021	3.107.023
24	Central Shaft	01	31020348	3.114.019
25	UNC 5/8" x 2" Hex. Cab. Bolt	01	21010236	.
26	623.165 Seeger Toothed Washer	01	21030327	.
27	30208 Conical Bearings	01	22020606	.
28	30207 Conical Bearings	01	22020605	.
29	3/16" x 1 1/2" ø Cotter Pin	01	21050106	.
30	UNF 1" ø Castle Nut	01	21020959	.
31	Washer	01	21030803	4.122.106
32	Plastic cover.	01	24110101	4.40.02
33	T80M ISULOK Bracket	02	21110138	-
34	3/4" Flat Washer	01	21030225	-
35	3/4" ATT UNC 3/4" CL 8.8 Hex. Nut	01	21021011	-
36	E-18 Retaining Ring	02	21060116	-
37	Flat Washer	04	21030219	4.122.023
38	UNC 5/16" Hex. Nut	04	21020103	-
39	UNC 5/16" Hex. Cab. Bolt	04	21010224	-
40	Motor Base	01	32050025	3.108.511
41	M12x1,75 Hex. Nut	02	21021207	-
42	Clamp with Thread	01	21012482	4.108.090

