

TECHNICAL MANUAL CONCRETE MIXER 400L RENTAL - PROFESSIONAL



Imagen Ilustrativa.

Attention:

Before operate **equipament**, 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.



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 addiction presents their technical characteristics.

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

Technical Assistance

The product durability only depends the way you treat it in service (operation) and the satisfactory working is consequence of yours regular work carefully. The Technical Assistance Network TURNER MORRIS provides prevention services, maintenance and repair, providing trained personnel for on-site service or the Authorized Service Station. Must offer customers quick calls, professional and effective, which will be supported and monitored by the factory.

Besides being responsible for supplying the equipment during the warranty period, the Technical Assistance Network TURNER MORRIS has parts inventory, in accordance with the products marketed in their region in order to meet any customer needs.

All visits made by TURNER MORRIS Technical Assistance Network are made according to the company's warranty policy.

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

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Information

TURNER MORRIS it's a company serving the construction, agricultural and cleaning sectors. We serve the end user through our network of committed outlets and we believe in good quality equipment, sold at the most competitive price and the best after sales service.



Machine Identification

They are identified by their Serial Number, Date Manufacturing, code and name.

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

Manual Utilization

The manual must be fully read before beginning any operations. The manual contains useful information about the product, manufacturer, safety, spare parts, maintenance and conservation. For greater convenience, keep this manual handy for easy consultation.

Safety



- 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 TURNER MORRIS will not be held responsible.
- Use the equipment according to the instructions in this manual;
- In the case of damaged or missing pieces, contact TURNER MORRIS by phone at +27 (011) 221 3700 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 TURNER MORRIS 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.

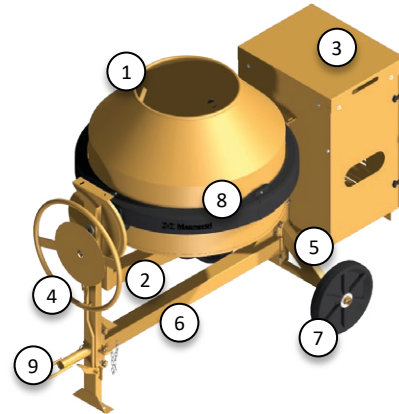
Technical Specifications

CONCRETE MIXER 400L	
DRUM VOLUME	400 Liters
WET MIX INPUT	270 Liters
DRY MIX INPUT	310 Liters
NUMBER OF CYCLES / HOUR	15 Cicles
HOURLY PRODUCTION	4,65m ³
DRUM ROTATION	30RPM (60Hz) / 28RPM (50Hz)
ENGINE BOX	ELECTRIC
	COMBUSTION
BELT	VARY ACCORDING TO THE ENGINE
WEIGHT WITHOUT ENGINE	167kg
DIMENSIONS (CXLXA) mm	1836 X 1012 X 1461
WHEELS	RUBBER

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

Components

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



Machine Description

The concrete mixer 400l was designed for heavy civil construction work . It is composed of a drum with a mixing capacity of up to 310 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.

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);

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 protect ion is recommended during prolonged operation.

Equipment Supplied With Electric Engine

- Before switch your concret 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 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 400L			
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 Machine

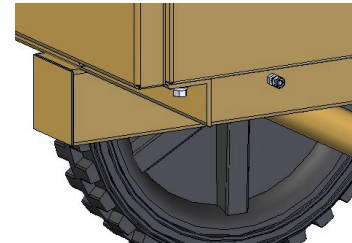
- Correct grounding of the concrete mixer is vitally important in reducing the risk of electrical shocks;
- Thus, before switching on your concrete mixer, make sure that the socket has a ground pin and that this is correctly installed. If your socket is not grounded, arrange for a ground to be installed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

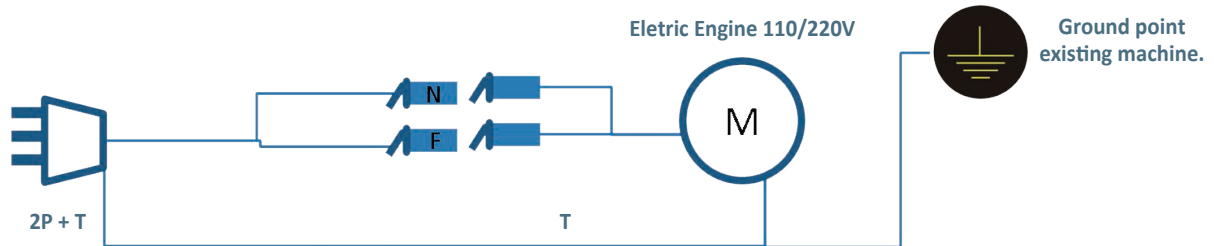
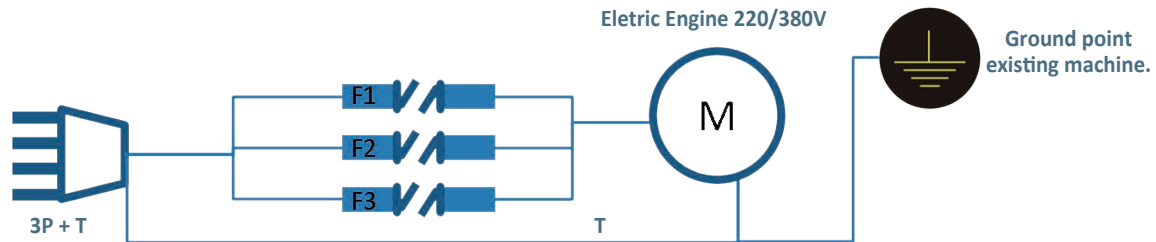


Ground point existing engine.



Ground point existing machine.

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

Esso: Beacon 2

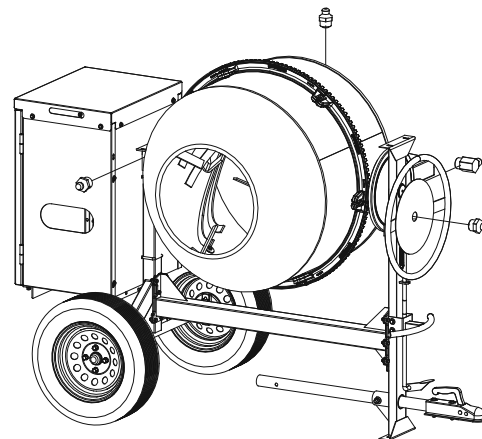
Mobil: Mobilux 3

Shell: Shell Avania R2

Texaco: MultiFlax EPO

Castrol: Graxa LM2

Atlantic: Litholine 2



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



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



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



4. Add the cement.



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



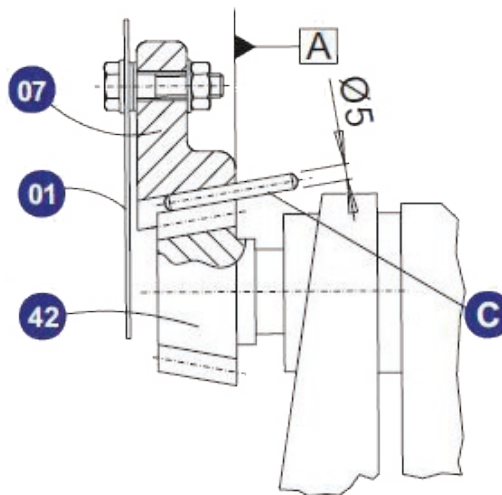
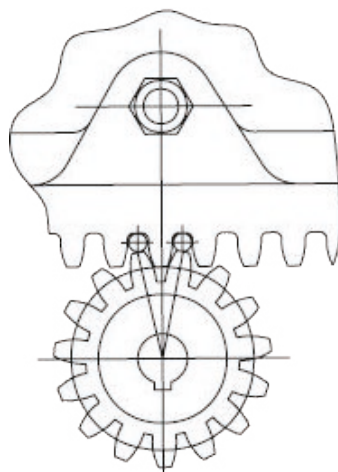
6. Let the concrete mixer rotate for 2,5 minutes before using the concrete.

Illustrative images and orientative information

Equipment Maintenance

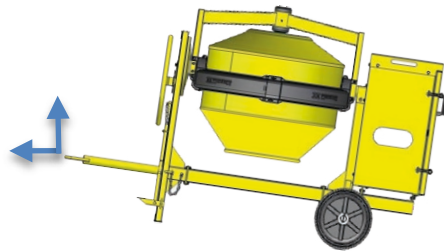
Rack Gear Replacement

- 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;

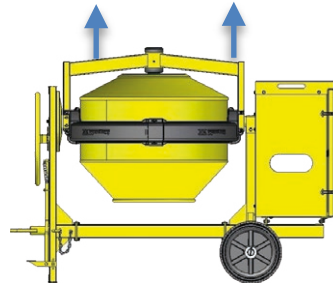


Transport, Lifting and Storage

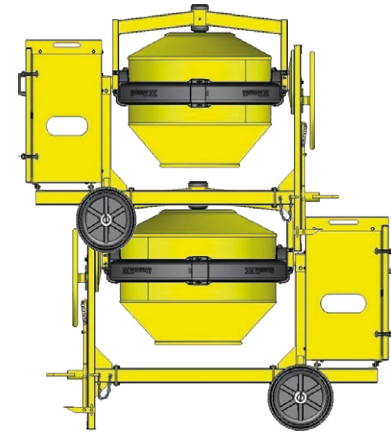
- It has yoke just to raise a few centimeters of soil and carry through the movement of the wheels;
- They should be used by tilting, with the barrel facing down, while maintaining the flatness of the mixer;
- Feature based on the columns for storing one on the other, fixation is by screws, use only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



Transport



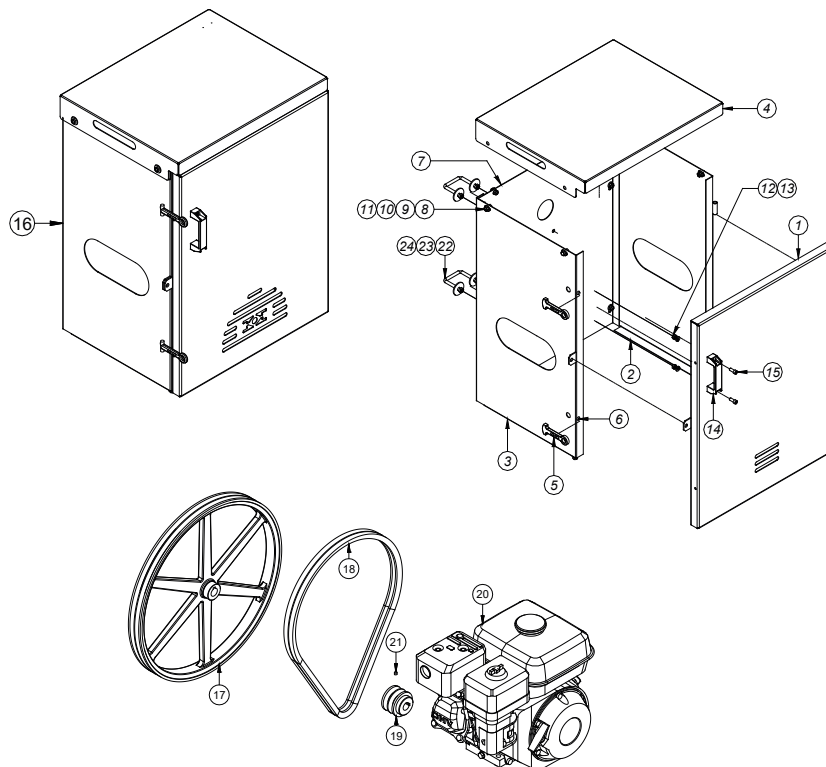
Lifting



Storage

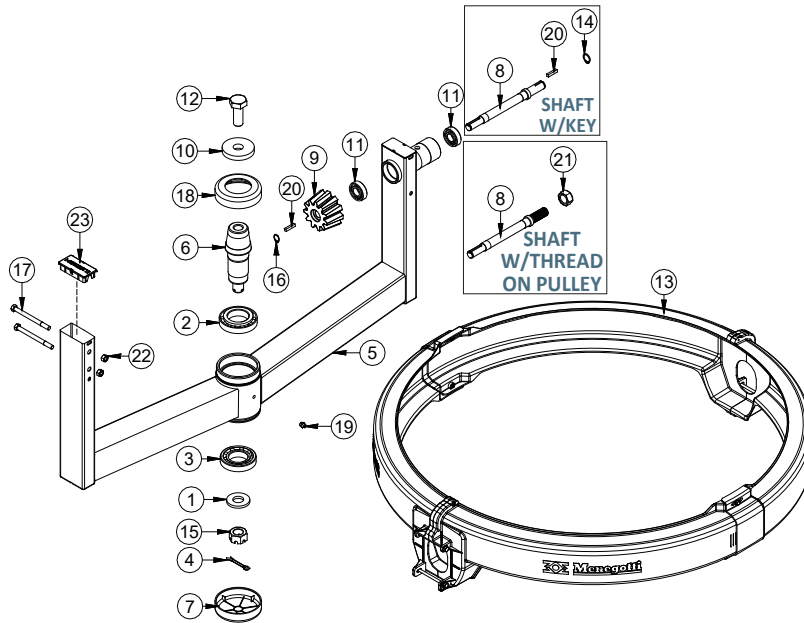
Parts List

Motor Box



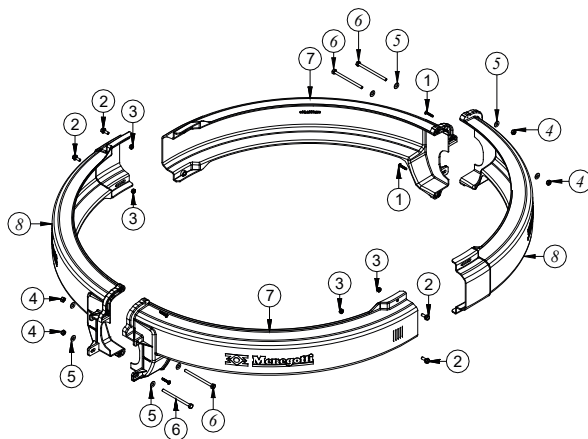
POS.	DESCRIPTION	QTY.	CODE	DRAW
1	DOOR	1	33108429	3108429
2	RIGHT SIDE	1	32030035	3108151
3	LEFT SIDE	1	32030036	3108150
4	TOP COVER	1	32420059	3108299
5	BEAM RUBBER	2	24030221	4122071
6	STOP RUBBER	2	24030222	4122072
7	TOP FUND	1	32420077	3108373
8	SCREW HEX 5/16"X3/4"	14	21010268	-
9	FLAT WASHER 5/16"	28	21030252	-
10	HEX NUT 5/16"	14	21021052	-
11	PRESSURE WASHER 5/16"	14	21030112	-
12	HEX NUT 5/16"	2	21030252	-
13	PRESSURE WASHER 5/16"	2	21030112	-
14	HANDLE	1	24070164	-
15	SCREW 5/16"X3/4"	2	21010523	-
16	KIT ENGINE BOX	1	32420092	3108372
17	DRIVER POLLEY Ø450MM	1	29112206	3108301
18	BELT "V" A-68	2	22010134	-
19	DRIVER POLLEY Ø60	1	-	-
20	ENGINE	1	-	-
21	SCREW 1/4" X 1/4"	2	21010919	-
22	U-CLAMP	2	21012480	-
23	SPECIAL FLAT WASHER 3/8"	4	30100070	-
24	SELF-LOCK HEX NUT 3/8" UNC	4	21021059	-

Steel Yoke



POS.	DESCRIPTION	QTY.	CODE	DRAW
1	FLAT WASHER DN26	1	30100079	4122006
2	BEARING 30210	1	22020608	-
3	BEARING 30209	1	22020607	-
4	COTTER PIN 3/16"X1.1/2"	1	21050106	-
5	STEEL YOKE 400L PROFESSIONAL	1	32460056	3106047
	STEEL YOKE 400L RENTAL	1	32460057	3106049
6	CENTRAL AXIS	1	31020463	3114039
7	COVER	1	24110102	4122007
8	PINION SHAFT W/KEY	1	31020026	3114002
	PINION SHAFT W/THREAD	1	31020412	3114003
9	PINION Z-11	1	31030007	4123001
10	DRUM WASHER	1	21030232	4122008
11	BEARING 6204	2	22020205	-
12	HEX BOLT 7/8"X 2.1/4"	1	21013442	-
13	RACK GEAR PROTECTION	1	32030067	3119147
14	ELASTIC RING E-20	1	21060118	-
15	CASTLE NUT 1"	1	21020959	-
16	ELASTIC RING E-17	1	21060115	-
17	HEX BOLT 3/8"X 4.1/2"	2	21015602	-
18	COVER WITH HOLE	1	24110168	4122183
19	GREASE FITTING 1/8" STRAIGHT	1	24040101	-
20	KEY 6X6X30MM	2	30160002	4122009
21	THIN HEX NUT 5/8"	1	21020120	-
22	HEX NUT 3/8"	2	21021006	-
23	PLASTIC ENCLOSURE FOR STEEL YOKE	4	4122592	4122592

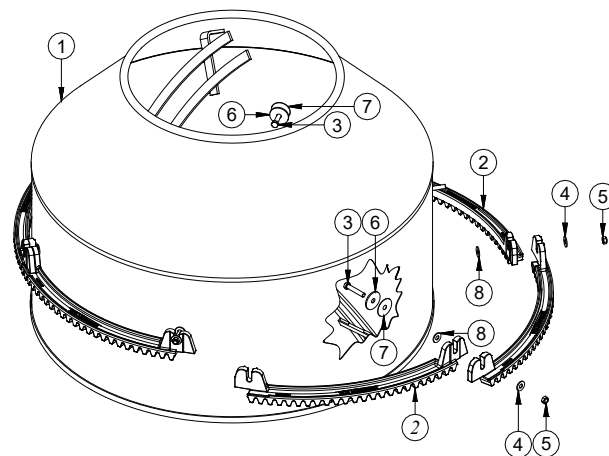
Protection Rack Gear



POS.	DESCRIPTION	QTY.	CODE	DRAW
1	SCREW PHILLIPS M5X25MM	4	21011022	-
2	SCREW HEX M6X16MM	4	21012986	-
3	HEX NUT M6	4	21021208	-
4	HEX NUT 1/4"	4	21021004	-
5	FLAT WASHER 1/4"	8	21030214	-
6	SCREW HEX 1/4"x4"	4	21010184	-
7	PROTECTION RACK GEAR RIGHT	2	N/A	3119146
8	PROTECTION RACK GEAR LEFT	2	N/A	3119145

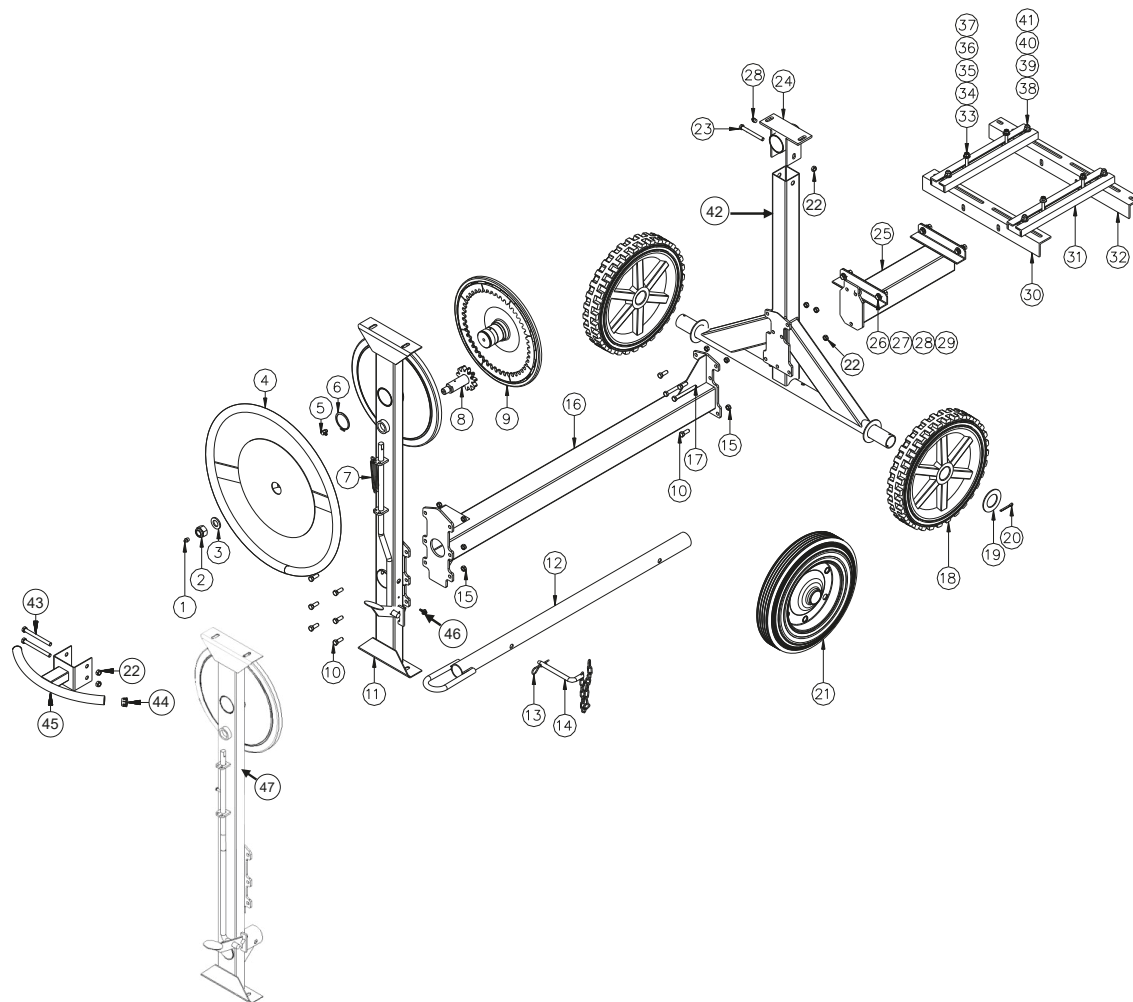
N/A= Item will not be sold separately.

Drum



POS.	DESCRIPTION	QTY.	CODE	DRAW
1	DRUM 400L PROFESSIONAL	1	34600034	2107002
	DRUM 400L RENTAL	1	34600038	2107004
2	SEGMENTED CROWN RACK GEAR	6	31180004	2124011
3	SCREW HEX 3/8"x2.1/4"	6	21013824	-
4	FLAT WASHER 3/8"	6	21030230	-
5	HEX NUT 3/8"	6	21021059	-
6	WASHER DRUM	6	30100070	4107003
7	WASHER SEALING	6	30100114	4107002
8	FLAT WASHER 3/8"	6	21030204	-

Chassi



Chassi

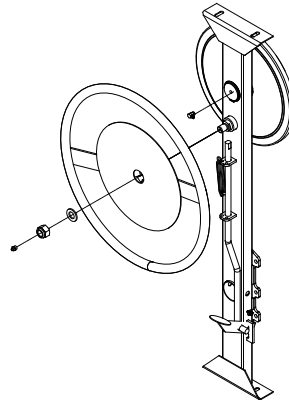
POS.	DESCRIPTION	QTY.	CODE	DRAW
1	GREASE FITTING 1/8" STRAIGHT	2	24040101	-
2	HEX NUT 3/4"	1	21021011	-
3	FLAT WASHER 3/4"	1	21030225	-
4	STEERING WHEEL 400L PROFESSIONAL	1	31200018	3.122.048
	STEERING WHEEL 400L RENTAL	1	31200021	3.122.089
5	GREASE FITTING 1/8"	1	24040105	-
6	RETAINING RING E-54	1	21060146	-
7	TRACTION SPRING	1	21090116	3.117.038
8	SHAFT WITH GEAR	1	31020414	4.114.005
9	REDUCING	1	31220021	3.121.004
10	HEX BOLT 3/8"x1" UNC	10	21010266	-
11	LARGER COLUMN 400L PROFESSIONAL	1	31020056	2.110.077
12	TOW BAR	1	32490012	3.110.008
13	CLIP R-3,5 X 70MM	1	21050153	-
14	PIN WITH CHAIN	1	32490004	4.117.021
15	SELF-LOCK HEX NUT 3/8" UNC	12	21021059	-
16	TUBE ESPACER	1	31020057	3.125.116
17	HEXBOLT 3/8"x 4" UNC	3	21010124	-
18	WHEEL RUBBERSOLID	2	24110196	3.115.106
	WHEEL RUBBERSOLID SMOOTH	2	33115115	3.115.115
19	FLAT WASHER	2	21030222	4.122.004
20	AGAINST PIN 3/16" X 2"	2	21050107	-
21	WHEEL RUBBER WITH PLATE ARO (RUNBELL)	2	24110188	-
22	HEX NUT 3/8"	6	21021006	-
23	HEX BOLT 3/8" X 3.1/2"	1	21015601	-

POS.	DESCRIPTION	QTY.	CODE	DRAW
24	SLEEVE	1	31140055	3.116.001
25	MOTOR SUPPORT	1	31020053	3.125.117
26	HEX BOLT 3/8"x1"	4	21010266	-
27	FLAT WASHER 3/8"	14	21030251	-
28	HEX NUT3/8"	8	21020117	-
29	PRESSURE WASHER 3/8"	8	21030163	-
30	LOWER GUIDE	1	32180017	3.112.012
31	SUPPORT ENGINE	2	32060144	3.112.013
32	LARGER GUIDE	1	32180016	3.112.011
33	SCREW HEX 5/16"x2"	4	21010228	-
34	HEX NUT5/16"	4	21021052	-
35	PRESSURE WASHER5/16"	4	21030112	-
36	FLAT WASHER 5/16"	4	21030252	-
37	THICK FLAT WASHER3/8"	16	21030230	-
38	FLAT WASHER 3/8"	14	21030251	-
39	HEX NUT3/8"	8	21020117	-
40	PRESSURE WASHER 3/8"	8	21030163	-
41	SCREW HEX 3/8"x2"	4	21010241	-
42	LOWER COLUMN FOR SOLID RUBBERWHEEL (RUNBELL)	1	3112163	3.112.163
	LOWER COLUMN FOR SOLID RUBBERWHEEL (SOLID)		31020050	3.112.158
43	SCREW HEX 3/8"x4"	2	21015603	-
44	PLASTIC CAP	2	24110100	4.122.034
45	TAGGER 400L RENTAL	1	31230007	3.122.097
46	SCREW #10-16X 3/4"	1	21010526	-
47	LARGER COLUMN 400L RENTAL RDMC	1	33110173	3.110.173

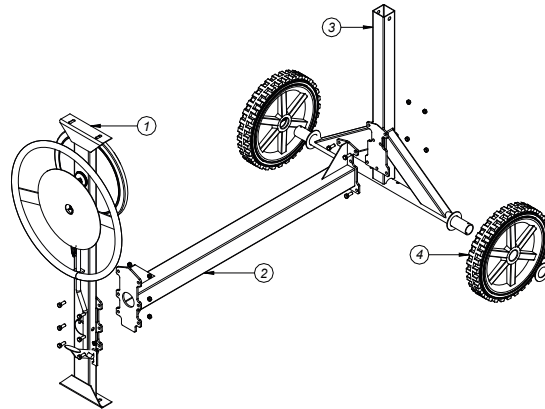
Assembly Procedure

Check list concrete mixer		Check list concrete mixer	
Tube spacer	1	Larger guide	1
Motor support	1	Motor support	2
Lown column	1	Pulley moved	1
Larger column	1	Top fund	1
Wheel rubber solid	2	Left side of the box	1
	1	Right side of the box	1
Pin with chain	1	Top side of the box	1
Steering wheel	1	Box door	1
Steel yoke	1	Left plastic protection	2
Sleeve	1	Right plastic protection	2
Drum	1	Motor pulley	1
Lown guide	1	Belt V – A - 68	2

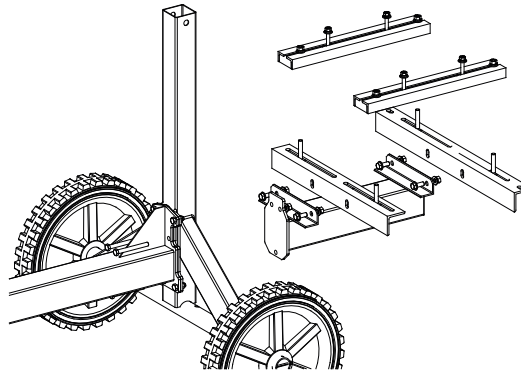
1. Assembly the column higher as image below. Assembly the wheel on the pinion shaft, and fasten with self-locking hexagonal nut 3/4.



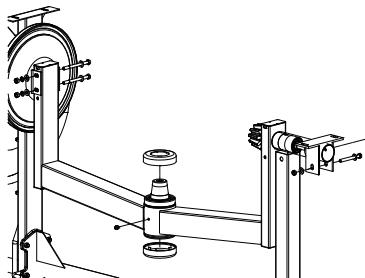
2. Assembly the chassis as image below. Mount the tube space(2) in the large column(1) fasten with hex screw $\frac{3}{8}$ "x1". Then fasten the lower column(3) in the spacer tube(2). Fit the wheels(4) on the axle, and lock with the counter pin.



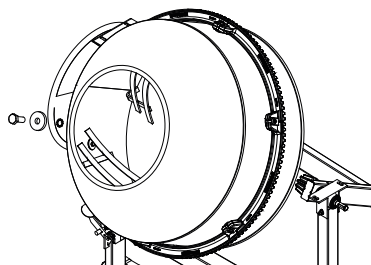
3. Assembly the motor support as image below. Mount the motor support tube in the lower column(3) fasten with hex bolt $\frac{3}{8}$ "x3.1/2". Then fasten the lower guide and larger guide in the motor support tube with hex bolt $\frac{3}{8}$ "x1". Fasten the motor support in the guide, use the hex bolt $\frac{3}{8}$ "x2".



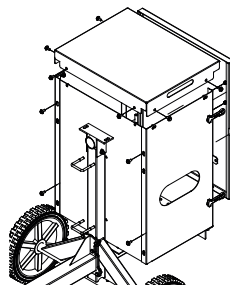
4. Assembly the steel yoke as image below. Fit the tipper in structure, securing with screw reducer $\frac{3}{8}$ " x $4\frac{1}{2}$ ". Position the bearing(5) in the tipper as image below and fasten to the lower column with screw $\frac{3}{8}$ " x $3\frac{1}{2}$ ".



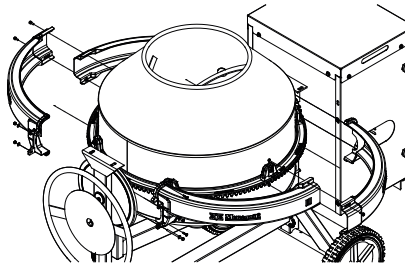
5. Assembly the drum as image below. Position the tipper in a 30° angle. Place the drum on the tipper shaft and tightening the hex bolt $\frac{7}{8}$ " x $2\frac{1}{4}$ " and toothed washer A-22 .



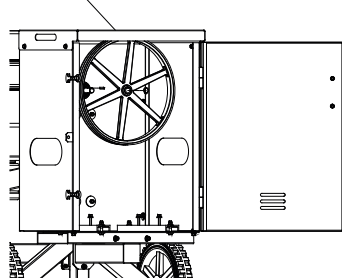
6. Assembly the drum as image below. Position the tipper in a 30° angle. Place the drum on the tipper shaft and tightening the hex bolt $\frac{7}{8}$ " x $2\frac{1}{4}$ " and toothed washer A-22 .



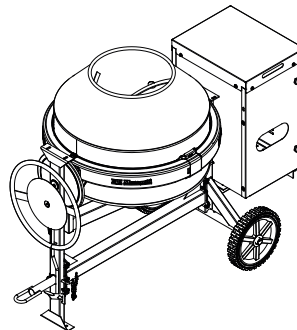
7. Assembly the rack protection as image bellow. Position the rack protection in the steel yoke, fasten with hex bolt $\frac{1}{4}$ "x4".



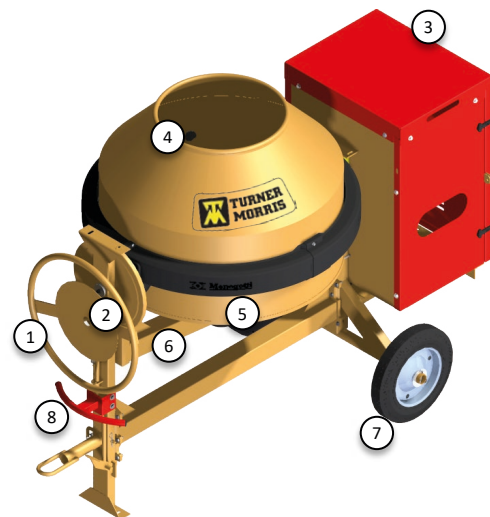
8. Assembly of the transmission system. Fit pulley moved in the pinion shaft, securing with retaining ring E-20 and keyway.



9. Assembly complete.



Main Differences



POS.		400L PROFESSIONAL	
1	FLYWHEEL PLATE	THICKNES 4,75MM	THICKNES 6,35MM
2	STEERING WHEEL LOCK	THICKNES 3,75MM	THICKNES 4,75MM
3	DIFFERENTIAL PAINTING	YELLOW	RED
4	DRUM	-	CONTOUR WITH WELD
5	DRUM CORPS	THICKNES 1,90MM	THICKNES 2,66MM
	STEEL YOKE		WITH REINFORCEMENTS
7	WHEELS	RUBBER	RUBBER WITH PLATE ARO
8	TAGGER	-	WITH TAGGER
9	WARRANTY	12 MONTHS	18 MONTHS

Product Warranty

The warranty is transferable under the conditions and within the prescribed period and will be valid from the date of purchase of the equipment verified by the presentation of the bill of sale to the first consumer. At the time of equipment delivery the client should receive information and technical guidance of this equipment according to the contents of this manual.

It is not therefore covered by this guarantee the defects caused mistreatment, carelessness, negligence, imprudence or inexperience, as well as any repair or alteration of any part and / or piece of equipment. In addition, any assembly of all the parts for technical intervention other than their own authorized factory or Technical Assistant, application outside the specified mechanical or electrical overloads and phase failure, user environment for which it was not designed, tensions and incorrect frequencies, incorrect lubrication, damage caused by accidents of any nature, such as floods, windstorms, fires, landslides and from transport.

The removal or alteration of serial numbers, originally placed on the product, make it impossible to guarantee, which will be required to submit the bill of sale and warranty certificate of the equipment in question.

The guarantee assumed with this is limited to the repair, replacement of parts or parts assembly mounting that the examination made by the Authorized Technical Assistant TURNER MORRIS and previously authorized by the factory, double check the existence of the manufacturing defect. This repair or replacement will be made at authorized Technical Assistant, running on the buyer the risks and costs of transportation to and back to the Technical Assistant, being free hand labor and replaced parts under this warranty.

This supersedes any other express or implied warranty as well as any and all liability or responsibility of our company concerning the above product.

Term of Warranty

The present CERTIFICATE provided from original purchaser, 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 the factory, 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 the factory, counted from the invoice issue date of the first final consumer. Not included in the warranty for this equipment the use of wear components such as bearings, wire rope, electrical plugs, gears, among others.

This warranty includes the exchange of pieces and repairs against manufacturing defects duly recognized by the manufacturer or Authorized Technical Assistance Service. This warranty does not cover damage caused by accidents, natural disasters, non-specified application, connection to unsuitable electricity supply or subjected to power variations, or, if opened by any person or workshop not authorized.

The consumer will be responsible for any freight expenses for taking the product to the technical assistant or factory.

In the case of the equipment being acquired with an electric drive, the warranty covers manufacturing defects inside the drive. The following defects are not covered by this warranty, overloading due to loss of or excessive phase, use of voltage other than that specified, broken or crushed casing due to negligence when transporting and/or storing, connecting or energizing drive not within specifications and general defects due to improper use and/or incorrect installation.

In agreement with these terms,

Client: _____	_____
Model: _____	Serial Number: _____
City: _____	Date: _____

Client

Authorized Service



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