

ROLLYCARRI

Built for Work. Ready to Roll.

OPERATING INSTRUCTION & PARTS MANUAL

RC-600 Portable Concrete Mixer

UK Version



Website
Rollycarri.com

Email
Service@rollycarri.com



**Please read the operating
instructions carefully before use.**



Honoring all the builders who create our world.

Thank you for choosing the **RC-600** RollyCarri Concrete Mixer. We deeply appreciate your trust in our brand and are delighted to accompany you on your journey to success.

At RollyCarri, we believe in creating innovative tools that make a difference. Our concrete mixers are designed with your needs in mind—built to be durable, quiet, and easy to maintain. Every detail reflects our commitment to reducing the burden of hard work and improving the working environment for professionals like you.

Your support drives us to continue delivering products that not only enhance efficiency but also bring peace of mind to every task. We are here to help you achieve your goals with confidence and ease.

To learn more about RollyCarri and our products, please visit our website at **[Rollycarri.com.uk](https://rollycarri.com.uk)** . For any service-related inquiries, feel free to reach out to us at **Service@rollycarri.com**.

Once again, thank you for choosing RollyCarri. We're honored to be a part of your work and are always here to support you.

Warm regards,
The RollyCarri Team

RollyCarri Team

1. Safety Information

1. Mixer Load Capacity

- RC-600 mixer recommended weight: 154 kg (340 lbs); max loading weight: 220 kg (485 lbs)
- Don't exceed the mixer's weight limit to extend lifespan and prevent overload.

2. Safety Instructions and Operating Assistance

- Please don't start or attempt to operate this machine until the operator is well acquainted with the warnings and safety operation rules after all the instructions have been read and fully understood. Serious personal injury could occur if these warnings and the safety instructions are not carefully followed.
- Please be aware that the mixing drum must be clear of obstructions and stand clear of the machine. Ensure that the mixer guards are installed and firmly secured to the mixer before operating this machine.
- When cleaning, lubricating, or adjusting the mixer, please be aware to disconnect the power plug.
- Keep everyone (except the operator) within a minimum of 1.5 meters (5 feet) away from the machine during operation.
- Always be sure the mixer is connected to a properly grounded electric circuit to protect the operator from possible electric shock.
- Do not plug or unplug the motor while standing in or around damp/wet ground.
- Always start the motor when starting to add water and concrete. Do not start the motor when the drum is fully loaded, and please do not overload the mixer.
- Do not insert sharp objects into the plastic mixing drum.

3. Safety Instructions between You and Your Mixer

- Do not operate this machine under the influence of alcohol or while taking medication that impairs the senses or reactions.
- Keep all unauthorized personnel away from the mixer. Do not allow the mixer to run unattended.
- Always wear safety glasses and close-ended shoes when operating and moving the equipment.
- Keep your hands and clothing away from moving parts, and be aware of your environment to keep debris clear and obstructions.
- Only use or operate the mixer on level ground or securely on a ramp to prevent the mixer from tipping over.
- Do not overreach while working with the mixer. Always have proper footing and balance when loading or unloading the mixer.
- Do not allow inexperienced operators to operate or repair the mixer.
- Please use factory-authorized parts for replacement.
- Please take care of parts such as the power cord, for example, never yank on the power cord to disconnect it. Keep the power cord away from heat, oil, and sharp edges.
- Safety decals – replace missing or damaged safety decals.

4. Parts Safety

- Confirm that the solid wheels are securely installed into the front support legs and that washers and R-clips are properly placed on the outer side of each wheel. This ensures the wheels are firmly secured, preventing detachment while moving the unit.
- Don't exceed the mixer's weight limit to extend lifespan and prevent overload.

5. Electrical Motor & Gearbox

- **Gearbox Motor:** Motors do not require gear lube during operation. The gearbox is permanently lubricated with grease and does not need any additional lubrication.
- **Cleaning:** Do not spray water directly on the motor or leave it exposed to rain.
- **Extension Cord Gauge Chart:** Power cords must be grounded and free of damage. Do not exceed 30 meters (100 feet) in total extension cord length.
- **Generator:** If generators are needed to operate mixers, please use a 3,000 Watt generator.
- **Built-in Protection Features:** The motor is equipped with a built-in thermal switch and overcurrent protection. Do not tamper with or remove these safety devices, as improper handling may result in electric shock, fire, or equipment failure.

2. Technical Data & Mixing Hints

RC-600 Specifications

Products Dimension	Product Weight	Drum Capacity	Drum Material
137*71*112cm (54*28*44in)	52kg (114lbs)	170L (6 cu ft)	Polyethylene
Rotation Speed	Wheel Type	Materials For Use	Max Loading Weight
23RPM	Solid foam Wheels 14"x3"-1/4"	Concrete;Mortar; Fodder; Paint	180kg (397lbs)

Gear Motor Specifications

Type	Power	Voltage	Frequency
Single-phase motor	580W	110V-120V/ 220V-240V	50/60 Hz
Motor Speed	Gear Box Ratio	Ingress Protection	AMB
1400 ± 10RPM	66.3	IP54	40°C

Power Plug Configuration

- 110V version: Equipped with a 40mm **IP44 Waterproof Plug**, suitable for site use.
- 230V version: Supplied with a 1.5-meter **13A British Plug**, ready for standard household sockets.

Note: Voltage should follow the label on the packaging or motor nameplate. Check carefully before use.

RC-600 Mixing Hints

1.How to Mix Concrete

Preparation

- You will need 19 liters (5 gallons) of water.
- 8 bags of pre-mix concrete, each 20 kg (40 lbs).

Start the mixer in motion.

- Add 15 liters (4 gallons) of water.
- Add 4 bags of 20 kg (40 lbs) pre-mix concrete. NOTE: Mixture will be very sloppy.
- Slowly add the fifth and sixth bags of concrete.
- Add 3.8 liters (1 gallon) of water slowly to obtain the desired thickness.
- Slowly add the last two bag of concrete.
- Add 1.9 to 3.8 liters (1/2 to 1 gallon) of water slowly.

2.How to Mix Sand & Gravel

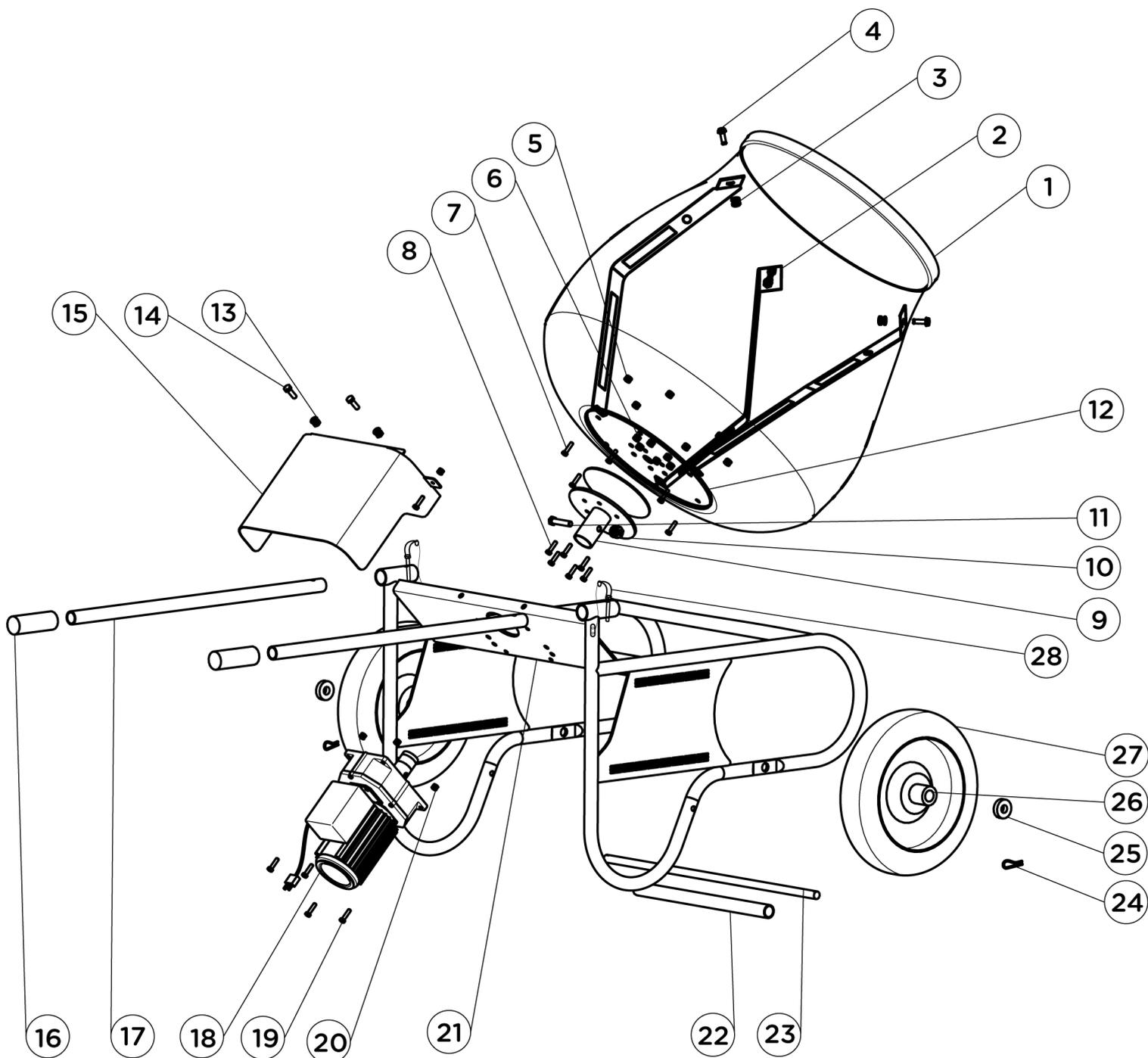
Preparation

- Use a 22 x 30 cm (8 1/2 x 12-inch) square shovel.
- Portland cement, gravel or round stone and masonry sand.

Start the mixer in motion.

- Add 15 liters (4 gallons) of water.
- Add 12 shovels full of gravel or round stone.
- Add 4 shovels full of Portland cement.
- Slowly add 8 shovels full masonry sand.

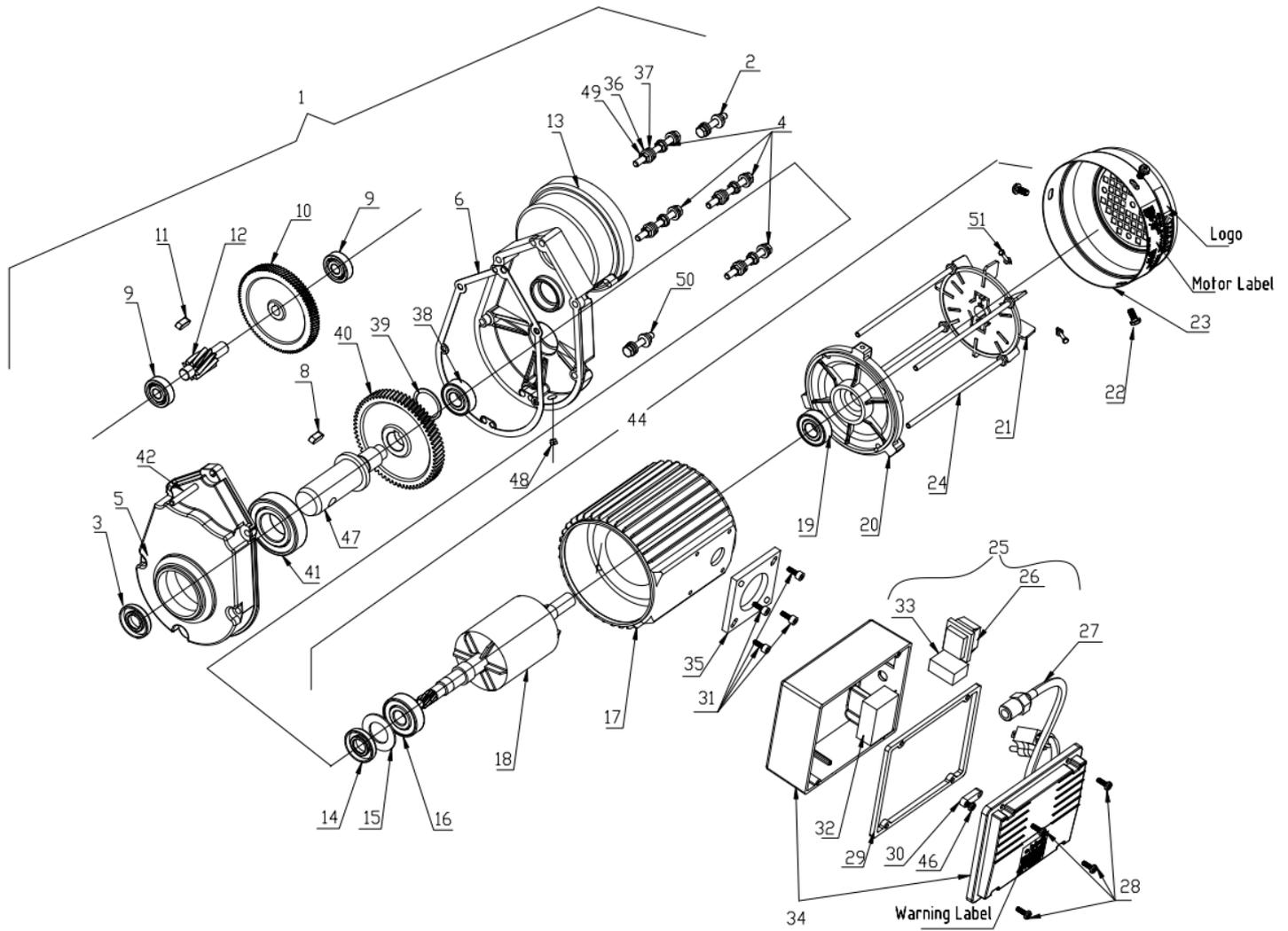
3.1 RC-600 Assembly Diagram



3.2 RC-350 Part List

No.#	Part No.	Description	Quantity
1	RC600-1	170L (6 cu ft) Polyethylene Drum	1
2	RC600-2	Mixing blades (refer to #4, #7)	3
3	RC600-3	M10-1.5mm Wizzlock Nut (refer to #4)	3
4	RC600-4	M10-1.5×32mm Carriage bolt (refer to #2, #3)	3
5	RC600-5	M10-1.5mm Wizzlock Nut (refer to #7)	6
6	RC600-6	M10-1.5mm Wizzlock Nut (refer to #8)	6
7	RC600-7	M10-1.5×32mm Carriage bolt (refer to #2, #5, #12)	6
8	RC600-8	M10-1.5×38mm Carriage bolt (refer to #6, #9, #12)	6
9	RC600-9	Bushing Flange&Rubber Washer (refer to #11, #8)	1
10	RC600-10	M12 x 1.75mm Lock nut (refer to #11)	1
11	RC600-11	M12-1.75 × 75 mm Machine Bolt (refer to #9, #11)	1
12	RC600-12	Inside Drum Plate	1
13	RC600-13	M8-1.25 Wizzlock Nut (refer to #14)	4
14	RC600-14	M8-1.25 × 20 mm Flange Bolt (refer to #15, #13)	4
15	RC600-15	Motor Protection Cover (refer to #14)	1
16	RC600-16	Handle grips.(refer to #17)	2
17	RC600-17	Handles (refer to #16, #28)	2
18	RC600-18	580W Gear Motor with Straight Shaft	1
19	RC600-19	M6-1x60mm Dual-Drive Bolt (refer to #20, #21)	4
20	RC600-20	Flat washer & lock washer & hex nut (refer to #19)	4
21	RC600-21	Main Frame	1
22	RC600-22	Axle Tube Spacer (refer to #23)	1
23	RC600-23	Axle (refer to #22)	1
24	RC600-24	R clip for Washer (refer to #25)	2
25	RC600-25	Ø16mm (5/8")Washer (refer to #24)	2
26	RC600-26	Ø16mm (5/8") Wheel Bearing (refer to #27)	2
27	RC600-27	Puncture-resistant Solid Foam Wheels (refer to #26)	2
28	RC600-28	Clevis Pin with Lanyard (refer to #17, #21)	2

3.3 580W Gearmotor Assembly Diagram



3.4 580W Gearmotor (110V) Part List



Please ensure to verify the voltage of your gear motor by checking **the label attached to the motor** or **the label on the packaging**

No.#	Part No.	Description	Quantity
1	GM1/110-1	Gearbox and Motor Assembly	1
2	GM1/110-2	Screw(M6*30mm)	2
3	GM1/110-3	Oil Seal(30*50*8)	1
4	GM1/110-4	Screw(M6*60mm)	4
5	GM1/110-5	Gearbox Case Front Half	1
6	GM1/110-6	Gearbox Gasket	1
8	GM1/110-8	Locking Key For Gear Axle(6*6*10)	1
9	GM1/110-9	Gearbox Ball Bearing(6200 10*30*9)	2
10	GM1/110-10	Gear	1
11	GM1/110-11	Locking Key For Gear Axle(4*4*8)	1
12	GM1/110-12	Pinion	1
13	GM1/110-13	Gearbox Case Back Half	1
14	GM1/110-14	Motor seal(15*35*7)	1
15	GM1/110-15	Space Washer A(D42*0.5)	1
16	GM1/110-16	Motor Bearing(6302 15*42*13)	1
17	GM1/110-17	Motor Casing	1
18	GM1/110-18	Motor Rotor	1
19	GM1/110-19	Motor Bearing(6202 15*35*11)	1
20	GM1/110-20	Bell Housing	1
21	GM1/110-21	Fan	1
22	GM1/110-22	Screw(M5*8)	3
23	GM1/110-23	Fan Cover	1
24	GM1/110-24	Bolt(M5*145)	4
26	GM1/110-26	On/Off Switch	1
27	GM1/110-27	Power Cord with Plug(18AWG 0.5W)	1
28	GM1/110-28	Screw(M4*12)	4
29	GM1/110-29	Electric Panel Gasket	1
30	GM1/110-30	Support	1
31	GM1/110-31	Screw(M4*12)	4
32	GM1/110-32	Condenser	1
33	GM1/110-33	Protector	1
34	GM1/110-34	Electric Box Assembly	1
35	GM1/110-35	Motor Gasket	1
36	GM1/110-36	Gearbox Nut	16
37	GM1/110-37	Gearbox Washer	10
38	GM1/110-38	Gearbox Bearing(6202 15*35*11)	1
39	GM1/110-39	Space Washer B	1
40	GM1/110-40	Gear	1
41	GM1/110-41	Gearbox Bearing(6206 30*62*16)	1
42	GM1/110-42	Locking pin(φ5*10)	1
46	GM1/110-46	Screw(M3*16mm)	1
47	GM1/110-47	Gearbox Shaft Drive	1
48	GM1/110-48	Hesagong seal plug(M10*1)	1
49	GM1/110-49	Nut (M6)	10
50	GM1/110-50	Screw(M6*45)	1
51	GM1/110-51	Assembling bolt(M4*20)	2

3.5 580W Gearmotor (230V) Part List



Please ensure to verify the voltage of your gear motor by checking **the label attached to the motor** or **the label on the packaging**

No.#	Part No.	Description	Quantity
1	GM1/230-1	Gearbox and Motor Assembly	1
2	GM1/230-2	Screw(M6*30mm)	2
3	GM1/230-3	Oil Seal(30*50*8)	1
4	GM1/230-4	Screw(M6*60mm)	4
5	GM1/230-5	Gearbox Case Front Half	1
6	GM1/230-6	Gearbox Gasket	1
8	GM1/230-8	Locking Key For Gear Axle(6*6*10)	1
9	GM1/230-9	Gearbox Ball Bearing(6200 10*30*9)	2
10	GM1/230-10	Gear	1
11	GM1/230-11	Locking Key For Gear Axle(4*4*8)	1
12	GM1/230-12	Pinion	1
13	GM1/230-13	Gearbox Case Back Half	1
14	GM1/230-14	Motor seal(15*35*7)	1
15	GM1/230-15	Space Washer A(D42*0.5)	1
16	GM1/230-16	Motor Bearing(6302 15*42*13)	1
17	GM1/230-17	Motor Casing	1
18	GM1/230-18	Motor Rotor	1
19	GM1/230-19	Motor Bearing(6202 15*35*11)	1
20	GM1/230-20	Bell Housing	1
21	GM1/230-21	Fan	1
22	GM1/230-22	Screw(M5*8)	3
23	GM1/230-23	Fan Cover	1
24	GM1/230-24	Bolt(M5*145)	4
26	GM1/230-26	On/Off Switch	1
27	GM1/230-27	Power Cord with Plug(18AWG 0.5W)	1
28	GM1/230-28	Screw(M4*12)	4
29	GM1/230-29	Electric Panel Gasket	1
30	GM1/230-30	Support	1
31	GM1/230-31	Screw(M4*12)	4
32	GM1/230-32	Condenser	1
33	GM1/230-33	Protector	1
34	GM1/230-34	Electric Box Assembly	1
35	GM1/230-35	Motor Gasket	1
36	GM1/230-36	Gearbox Nut	16
37	GM1/230-37	Gearbox Washer	10
38	GM1/230-38	Gearbox Bearing(6202 15*35*11)	1
39	GM1/230-39	Space Washer B	1
40	GM1/230-40	Gear	1
41	GM1/230-41	Gearbox Bearing(6206 30*62*16)	1
42	GM1/230-42	Locking pin(φ5*10)	1
46	GM1/230-46	Screw(M3*16mm)	1
47	GM1/230-47	Gearbox Shaft Drive	1
48	GM1/230-48	Hesagong seal plug(M10*1)	1
49	GM1/230-49	Nut (M6)	10
50	GM1/230-50	Screw(M6*45)	1
51	GM1/230-51	Assembling bolt(M4*20)	2

4. Assembly Instruction



Search "RollyCarri Mixer" on YouTube to watch the installation video demonstration.

Step 1

Remove all the shrink wrap from parts. Layout all part to identify each one.

Place the wheels (#27) inside the main frame (#21) with the long end facing outward. Insert the Wheel Axle (#23) through the frame, into the first tire, through the Axle Tube Spacer (#22), and then into the second tire. Once the axle is fully inserted, secure it by placing a 16mm steel washer (#25) and an "R" clip (#24) on each end of the axle.



Step 2

Take the gear motor (#18) and remove the flat washer&lock washer&hex nut (#20) from the four longer mounting bolts (#19) located at the center of the gear motor.



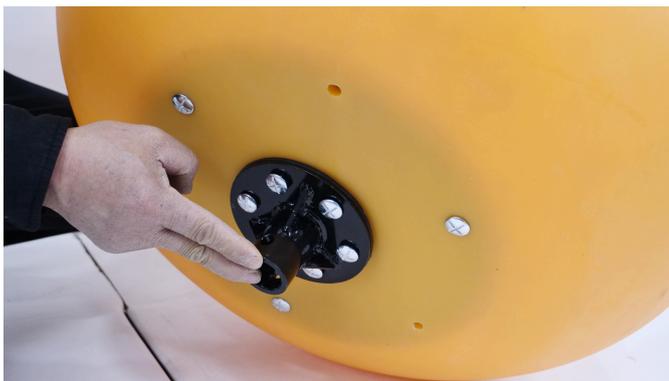
Step 3

Install the gear motor (#18) as shown. Begin by placing the flat washers onto all four studs, followed by the lock washers, and then the nuts. Tighten the nuts evenly to 10 inch-pounds (1.13 Nm) of torque to ensure a secure fit.



Step 4

Attach the Bushing and Flange to the back of the drum using the M10×38mm Carriage bolt (#8). Tighten the six nuts (#6) at the exact center of the inside drum plate to securely fasten the bushing flange (#9).



Step 5

Attach the mixer blade bottoms to the plate using M10×38mm Carriage bolt (#7). Secure the blade tops to the drum with M10×32mm Carriage bolt (#4), ensuring alignment with the two holes. Verify that all nuts on the Plate are tightened securely. Ensure all screws are flush with the drum wall, with the square necks of the carriage bolts fully seated.

Tips: If the carriage bolt spins, tap it with a rubber mallet to seat the square neck.



Step 6

Attach the bushing flange (#9) (with the drum attached) to the gear motor, aligning the pre-drilled holes on the bushing flange with the shaft. Once the holes are aligned, insert the M10×75mm Machine Bolt (#11) and tighten it securely to Nut (#10).



Step 7

Install the motor cover using four M8× 20 mm Flange Bolt (#14) and Nuts (#13).



Step 8

Install the handles (#17) and secure them with the clevis pins (#28) attached to the frame. Then, install the grips (#16), and the assembly is complete.



4. Warranty Policy

3-YEAR LONG-TERM WARRANTY

Thank you for choosing RollyCarri products. To ensure your peace of mind, we provide a comprehensive 3-year limited warranty on all our products to protect your rights.

◆ Warranty Coverage

We guarantee that within three years from the date of purchase, any parts found defective due to material or workmanship will be replaced free of charge.

Wear and tear of parts due to normal use (such as blades, wheels, drum, etc.) are not covered under this warranty.

◆ Warranty Conditions

The warranty does not cover damage caused by:

- Misuse, abuse, negligence, or accidents;
- Unauthorized repairs or modifications.

◆ Warranty Claim Process

If you need to make a warranty claim, please follow these steps:

1. **Contact Us:** Reach out via our after-sales email Service@rollycarri.com or contact your sales representative.
2. **Provide Details:** Include photos of the product issue, the product batch number, and a detailed description of the problem.
3. **Assessment and Resolution:** Our technical team will assess the issue remotely and promptly provide a solution, whether repair, replacement, or other appropriate action.

RollyCarri Warranty Claim Template

To request warranty service, please use the following template to email us at Service@rollycarri.com:

Email Subject: Warranty Claim – [Model] – Serial Number: [Serial Number]

Email Body:

Customer Information:

- Full Name: _____
- Address: _____
- City: _____
- Postcode: _____
- Phone Number: _____
- Email Address: _____

Product Information:

- Date of Purchase: ____ / ____ / ____ (DD/MM/YYYY)
- Model: _____
- Serial Number: _____

Primary Use (please select one):

- Construction
- Rental
- Home/DIY

Description of Issue:

Please provide a detailed description of the problem or defect.

Attachments:

- Clear photos of the product and the defective part
- Proof of purchase (invoice or receipt)

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