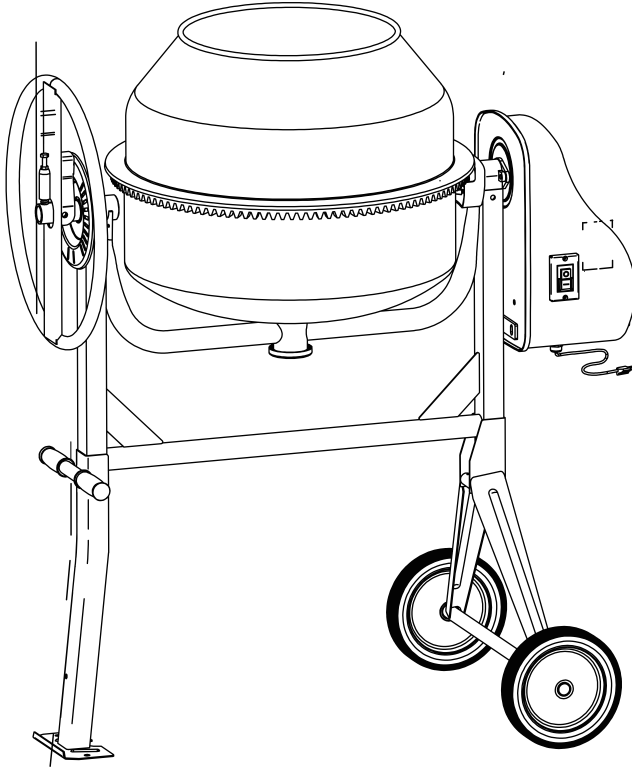


# **EXCEL**

**140L: 550W**

**EXL-CM140-T3**

## **OPERATING INSTRUCTIONS**



**PART NO. 11732**

# **PORTABLE CEMENT MIXER WITH WHEELS 140L**



**WARNING:** Read the instructions before using the product!

**Exceltools.co.uk**

# Let's get started...

These instructions are for your safety. Please read through them thoroughly before use and retain them for future reference.



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## Safety warnings

### General safety warnings



#### IMPORTANT

Read and understand all instructions before assembly and use.

**SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE**

- 1. Keep work area clean and dry.** Cluttered, damp, or wet work areas invite injuries.
- 2. Keep children away from work area.** Do not allow children to handle or climb on or in this product.
- 3. Keep a safe clearance around the product.** Keep all people (except the operator) at minimum of 2 metres from the product during operation.
- 4. Store idle equipment.** When not in use, product and accessories should be stored in a dry location to inhibit rust. Always lock up product and accessories, and keep out of reach of children.
- 5. Do not use this product while you are under the influence of alcohol, drugs, or any medication that could affect your ability to use it properly.** Read warning labels on prescriptions to determine if your judgment or reflexes are impaired while taking drugs or medication. If there is any doubt, do not attempt to use this product.
- 6. Dress properly.** Do not wear loose clothing or jewellery, as they can become caught in moving parts. Wear a protective hair covering to prevent long hair from becoming caught in moving parts. If wearing a long-sleeve shirt, roll sleeves up above elbows.
- 7. Do not overreach.** Keep proper footing and balance at all times to prevent tripping, falling or back injury.
- 8. Stay alert.** Watch what you are doing at all times. Use common sense. Do not use this product when you are tired or distracted from the job at hand.
- 9. Check for damaged parts.** Before using this product, carefully check that it will operate properly and perform its intended function. Check for damaged parts and any other conditions that may affect the operation of this product. Replace or repair damaged or worn parts immediately.

- 10. Keep all guards in place and in proper working condition.**
- 11. Replacement parts and accessories:** When service, use only identical replacement parts. Only use accessories intended for use with this product. Replacement parts or accessories are available at an authorised dealer or through our customer service.
- 12. Maintain this product with care.** Keep this product clean and dry for better and safer performance.
- 13. Maintenance:** For your safety, service and maintenance should be performed regularly by a qualified professional.
- 14. Do not force the product.** Always work in the rated capacity. Do not attempt to force a small product to do the work of a larger product. Do not modify this product, and do not use this product for a purpose for which it was not intended.
- 15. Never leave the product running unattended.** Do not leave the product until it has come to a complete stop.
- 16. When operating this product outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- 17. The product should be supplied via a residual current device (RCD) with a tripping current of not more than 30mA.**

## Concrete mixer safety warnings

- 1. The product shall not be operating when it is being moved.** Turn off the product and disconnect it from the power supply before transportation to avoid accidents.
- 2. Always place the product on a solid, flat, level, surface that is capable of supporting the weight of the product and its load.** A fully loaded cement mixer is very heavy and can cause severe injuries and damages when falling over.
- 3. Never stick your hands and/or tools into the product while the product is in operation.** Keep hands out of the way of all moving parts. Do not place any part of your body or any tool in the product during operation. Your hands or part of your clothes might get entangled with the mixers blades and cause severe injuries.
- 4. Remove adjusting tools, shovels, hand trowels, etc.** Make sure all adjusting tools, shovels, hand trowels, and other tools and equipment are removed from the product prior to turning it on.

5. **This product does not contain any parts that can be repaired by the consumer.** Contact an authorised service centre or a similarly qualified person to have it checked and repaired.
6. **Disconnect the product from the power supply before opening the enclosure.** Do not operate the product unless the enclosure is fully closed.
7. **Do not inhale fumes.** Inhaling fumes is harmful and can damage your health.
8. **Avoid contact, inhalation and ingestion of the used materials.** Skin contact, inhalation or ingestion of cement or additives is harmful and can damage your health.
9. **Always use personal protective equipment.** Personal protective equipment helps reducing hazards in many situations and reduces the damage in case of an accident.
10. **Maintain a safe working environment.** Keep the work s area well it. Make sure there is adequate surrounding workspace. Always keep t the work area free of obstructions, grease, oil, trash, and other debris. Do not use the product in areas near flammable chemicals, dusts, and vapours. ing omation on any hazardous activity necessary for operation, cleaning or n haintenance including a description of a safe working practice.
11. **Waning to use only the original standard of insulation material for repair and to maintain n insulation distances.**

### Vibration and noise reduction

**To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment.**

Take the following points into account to minimise the vibration and noise exposure risks:

1. Only use the product as intended by its design and these instructions.
2. Ensure that the product is in good condition and well maintained.
3. Use correct attachments for the product and ensure they are in good condition.
4. Keep tight grip on the handles.
5. Maintain this product in accordance with these instructions.
6. Plan your work schedule to spread any high vibration tool use across a longer period of time.

### Emergency

**Familiarise yourself with the use of this product by means of this instruction manual. Memorise the safety directions and follow them to the letter. This will help to prevent risks and hazards.**

**handle risks early.** Fast intervention can prevent serious injury and damage to property.

2. **Switch off and disconnect from the power supply if there are malfunctions.** Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.
3. **Do not connect to household socket!** Use only with RCD (residual current device) protected supply.
4. **Protect the environment.** Take left over materials to an authorized collection point or follow the stipulations in the country where the mixer is used. Do not discharge into drains, soil or water.
5. **If the machine smells burnt when working, please disconnect the power immediately and ask a professional to check.**

### Residual risks

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:








1. Danger of injury and property damage caused by tipping over product.
2. Contact with the moving mixing blades.
3. Contact, ingestion or inhalation of materials used.



**WARNING!** This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

## Symbols

On the product, the rating label and within these instructions you will find among others the following symbols and abbreviations. Familiarise yourself with them to reduce hazards like personal injuries and damage to property.

V~	Volt, (alternating voltage)
Hz	Hertz
W	Watt
/min or min <sup>-1</sup>	Per minute
mm	Millimetre
kg	Kilogram
dB(A)	Decibel (A-rated)
m/s <sup>2</sup>	Metres per second squared
yyWxx	Manufacturing date code; year of manufacturing (20yy) and week of manufacturing (Wxx)
IP44	Protection against solid foreign objects Ø > 1 mm and splashing water.
	Lock / to tighten or secure.
	Unlock / to loosen.
	Note / Remark.
	Caution / Warning.
	Read the instruction manual.
	Wear hearing protection.
	Wear eye protection.



Wear a dust mask.



Wear protective gloves.



Wear protective, slip-resistant footwear.



Wear tight-fitted protective clothes.



Switch the product off and disconnect it from the power supply before assembly, cleaning, adjustments, maintenance, storage and transportation.



Guaranteed sound power level value in dB.



This product is of protection class II. That means it is equipped with enhanced or double insulation.



The product complies with the applicable European directives and an evaluation method of conformity for these directives was done.



WEEE symbol. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.



Avoid dangerous conditions. Only use or operate the mixer on solid, flat, level ground that is capable to support the weight of the mixer and its load to prevent the mixer from tipping over. Do not attempt to move the mixer when it is loaded and/or in operation.



Inspect your mixer. Check your mixer before turning it on. Keep guards in place and in working order. Do not plug mixer with motor cover off.





KEEP VISITORS AND CHILDREN AWAY.



AVOID INJURY FROM UNEXPECTED ACCIDENT.

Keep hands out of the way of all moving parts. Do not place any part of your body or any tool, like shovel in the drum during operation. When operating, do not pass hands through the clearance between frame and support arm or the one between the drum and support arm.



DO NOT FORCE TOOL.



Do not remove or temper with any protection or safety device.



Danger of electric shock.



PROTECT THE ENVIRONMENT.



Warning! Observe direction of rotation! Keep hands and tools away from the rotating mixing drum! Keep enough safety distance to this product. Prevent any contact to rotating or moving parts of this product.

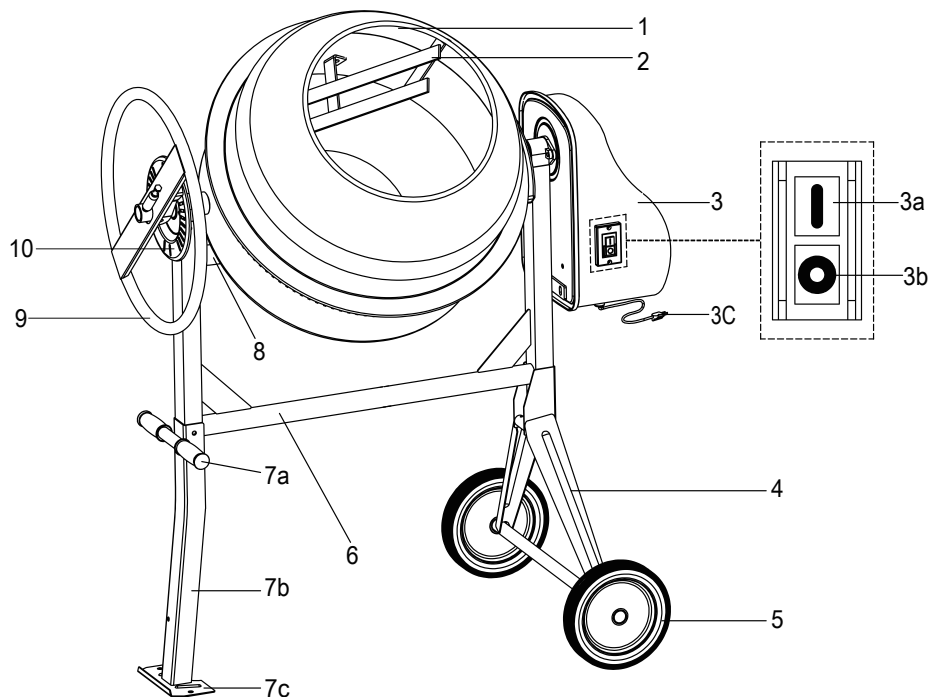
Warning! Class II equipment. To ensure adequate protection, use original insulation material for repair and maintain insulation distances.

Disconnect electrical power supply before opening the enclosure. Operation is permitted only if the enclosure is fully closed

Do not connect to household socket! Use only with an RCD (residual current device) protected supply.

## Your product

## Getting Started



1. Drum assembly
  - a. Upper drum
  - b. Lower drum
  - c. Rubber gasket
  - d. Mounting set\*
2. Mixer blade (x 2)
  - a. Mounting set\*
3. Motor unit
  - a. On switch "I"
  - b. Off switch "O"
  - c. Power cord with plug
  - d. Mounting set\*
4. Wheel bracket
  - a. Axle\*

- b. Mounting set\*
- 5. Wheel assembly
  - a. Wheel (x 2)
  - b. Washers\* (x 4)
  - c. Cotter pin\* (x 2)
- 6. Stand
- 7. Leg
  - a. Transport handle (x 2)
  - b. Mounting set\*
  - c. Mounting hole (x 2)
- 8. Drum arm
  - a. Bracket\* (x 2)
  - b. Mounting set\*
- 9. Control Handle
  - a. Stop bolt\*
  - b. Spring\*
  - c. Adjustment bolt\*
  - d. Wing\* (x 2)
- 10. Handle control plate
  - a. Mounting set\*
  - b. Grooves\*



**NOTE:** Parts marked with \* are not shown in this overview. Please refer to the respective section in the instruction manual.

## Technical specifications

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### General

> <b>Rated voltage, frequency</b>	230 V~ / 50 Hz
> <b>Rated power input</b>	550 W
> <b>Rated no load speed <math>n_0</math></b>	2950 min <sup>-1</sup>
> <b>Drum rotation speed</b>	34 min <sup>-1</sup>
> <b>Diameter of drum</b>	560mm
> <b>Protection class</b>	II □
> <b>Degree of Protection</b>	IP44
> <b>Volume</b>	approx. 140L
> <b>Weight</b>	approx. 48.5/44.5kg

### Sound values

> <b>Sound pressure level <math>L_{pA}</math></b>	82 dB(A)
> <b>Uncertainty <math>K_{pA}</math></b>	3 dB(A)
> <b>Measured sound power level <math>L_{WA}</math></b>	95 dB(A)
> <b>Uncertainty <math>K_{WA}</math></b>	3 dB(A)
> <b>Guaranteed sound power level <math>L_{WA}</math></b>	98 dB(A)

The sound values have been determined according to noise test code given in EN 12151, using the basic standards EN ISO 3744 and EN ISO 4871.

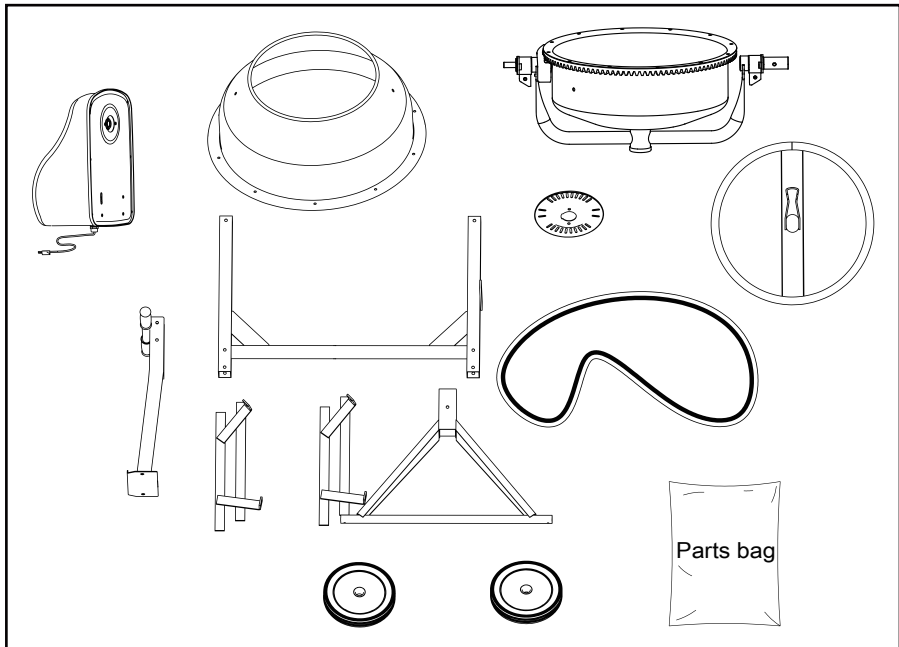
## Unpacking

1. Unpack all parts and lay them on a flat, stable surface.

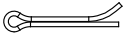




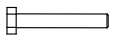






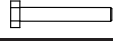




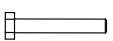










Remove all packing materials and shipping devices, if applicable.

Make sure the delivery contents are complete and free of any damage. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.

Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.



## The parts bag

 5×40 ×2 A  Washer φ27 ×4  Washer(thin) φ8 ×6  Flange Nut M8 ×6  M8×55 ×2  M8×65 ×4	 Spring Washer φ8 ×2 E  Washer φ8 ×2  Lock Nut M8 ×2  M8×30 ×2
 Washer(thin) φ8 ×2 B  Flange Nut M8 ×2  M8×60 ×2	 Washer φ10 ×2 F  Lock Nut M10 ×1  Spring ×1  M8×16 ×1  M10×70 ×1
 M8×20 ×6 C	 Spring Washer φ8 ×4 G  Washer φ8 ×4  M8×20 ×2  M8×25 ×2
 Rubber gasket φ8 ×4 D  Washer φ8 ×8  Washer(thin) φ8 ×4  Lock Nut M8 ×4  M8×20 ×4	

**WARNING!** The product and the packaging are not children's toys!  
 Children must not play with plastic bags, sheets and small parts!  
 There is a danger of choking and suffocation!

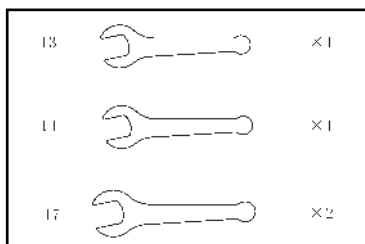
## You will need

Suitable personal tools equipment

1x Wrench 13 mm

1x Wrench 14 mm

2x Wrench 17 mm



## Assembly



**WARNING!** The product must be fully assembled before operation! Do not use a product that is only partly assembled or assembled with damaged parts!




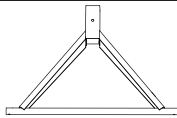
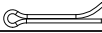

Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product!

Do not connect the product to power supply before it is completely assembled!



**NOTE:** Take care of small parts that are removed during assembly or when making adjustments. Keep them secure to avoid loss. For the assembly two people are necessary. The size of area shall be at least 2 x 2 m.

## Assembling the wheels

	Wheel <b>(5a)</b>	x 2
	Wheel bracket <b>(4)</b>	x 1
<b>Mounting set bag A</b>		
	Cotter pin <b>(5c)</b>	x 2
	Washer <b>(5b)</b>	x 4

1. Place the wheel (5a) and 2 washers (5b) onto the axle of the wheel bracket (4) with the correct order and secure the assembly with the cotter pin (5c) (Fig. 1).
2. Repeat the assembly for another wheel.
3. Bend cotter pins (5c) to secure the wheels (5a) in place.

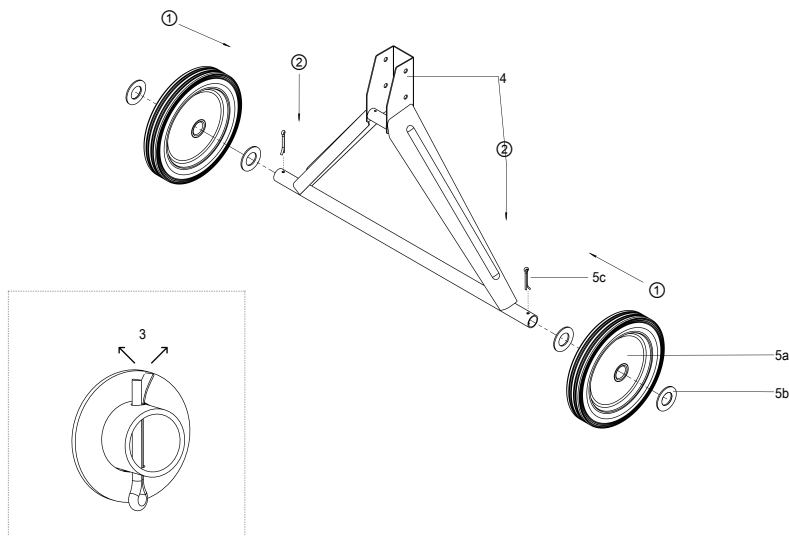
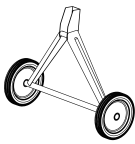





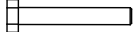


Fig. 1

### Assembling the leg and wheel bracket

	Wheel bracket (4) (assembled with wheels)	x 1
	Stand (6)	x 1
	Leg (7)	x 1
<b>Mounting set bag A</b>		
	Washer (A)	x 6
	Nut M8 (B)	x 6
	Bolt M8 x 55 mm (C)	x 2
	Bolt M8 x 65 mm (D)	x 4



1. Align and insert the poles of the stand (6) into the leg (7) and wheel bracket (4).
2. Secure the connection with bolts (C, D), washers (A) and nuts (B) (Fig. 2).

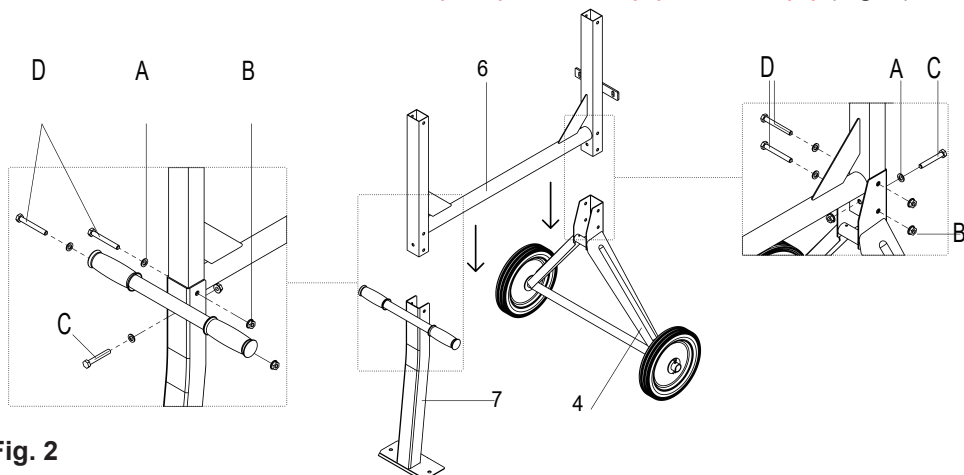

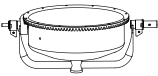




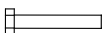



Fig. 2

### Assembling the drum assembly

	Stand (6) (assembled with wheel bracket and leg)	x 1
	Lower drum (1b)	x 1
	Upper drum (1a)	x 1
	Rubber gasket (1c)	x 1
<b>Mounting set bag B</b>		
	Washer (A)	x 2
	Nut M8 (B)	x 2
	Bolt M8 x 60 mm (C)	x 2
<b>Mounting set bag C</b>		
	Bolt M8 x 20 mm (D)	x 6

1. Insert the brackets (8a) into the poles and place the drum arm (8) onto the stand (6).
2. Secure the connection with bolts (C), washers (A) and nuts (B) (Fig. 3).

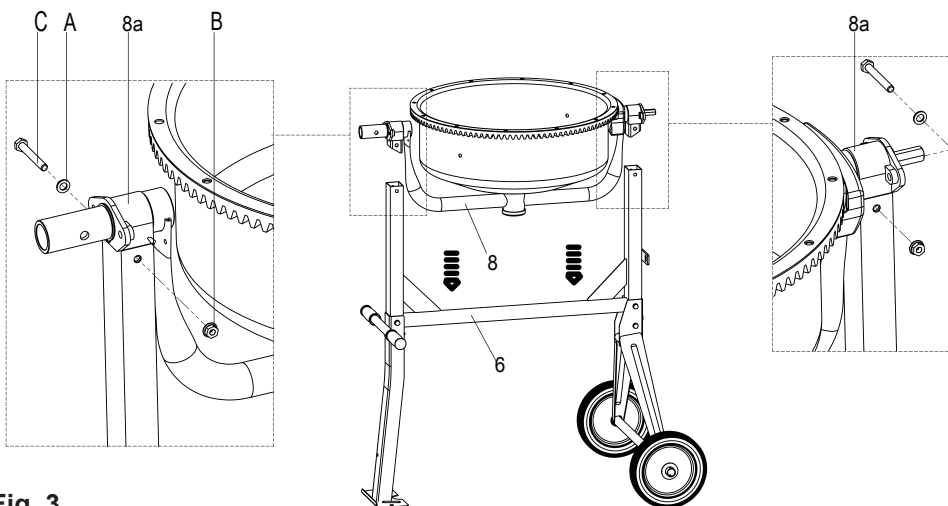


Fig. 3

3. Align the holes and bolts and place the rubber gasket (1c) onto the lower drum (1b) (Fig. 4).
4. Ensure the rubber gasket is not twisted and flat on the lower drum.

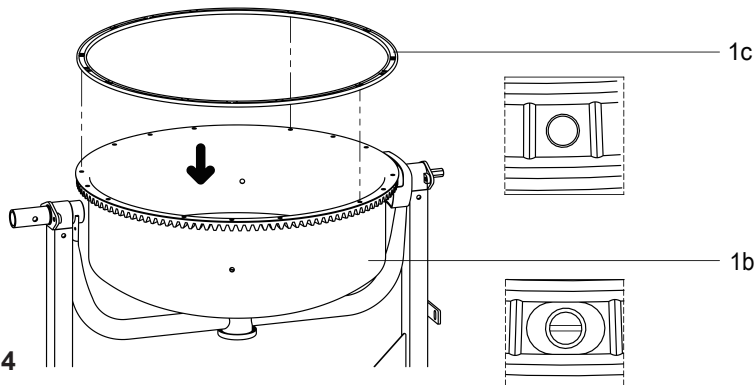
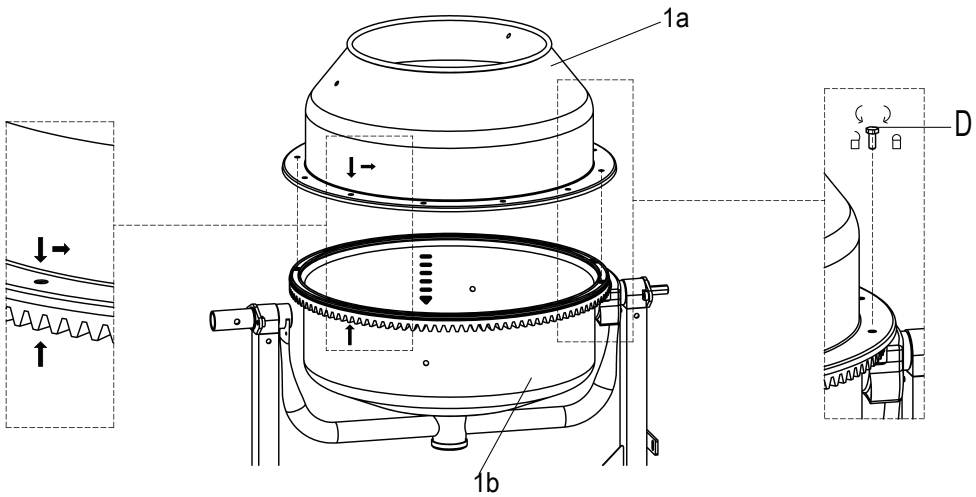


Fig. 4

5. Align the markings and place the upper drum (1a) onto the lower part (1b).
6. Secure the connection with bolts (D) (Fig.5).



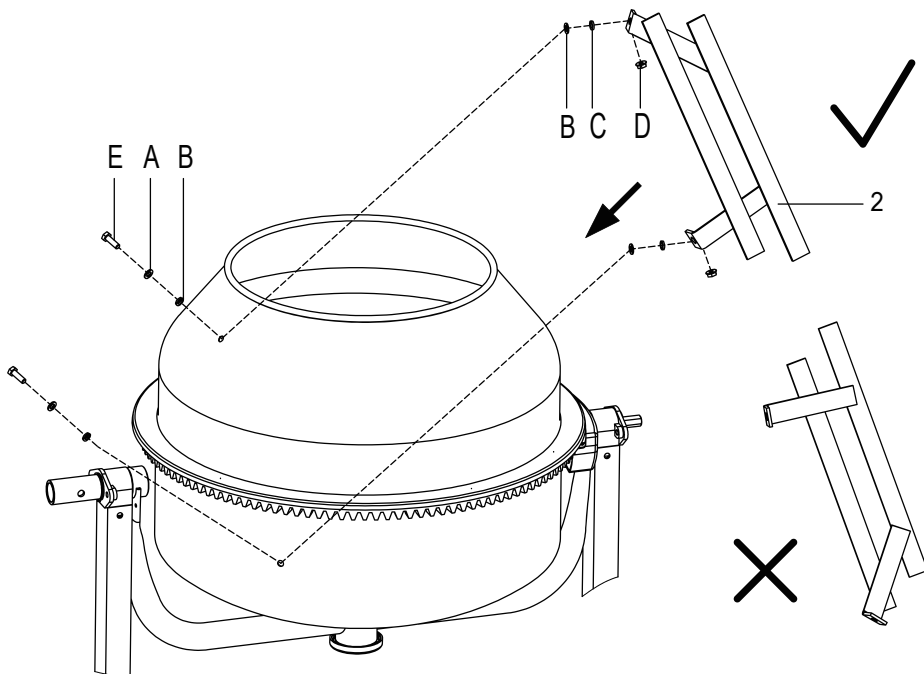
### Assembling the mixer blades

	Drum assembly <b>(1)</b> (assembled on stand)	x 1
	Mixer blade <b>(2)</b>	x 2
<b>Mounting set bag D</b>		
	Washer <b>(A)</b>	x 4
	Washer (thin) <b>(B)</b>	x 8
	Rubber gasket <b>(C)</b>	x 4
	Nut M8 <b>(D)</b>	x 4
	Bolt M8 x 20 mm <b>(E)</b>	x 4









**NOTE:** Position the mixer blades inside the drum assembly with the pointed end facing downward. The shape bend on the blades should point in the direction of the rotation direction of the drums.

1. Align the holes and assemble the mixer blade **(2)** onto the drum assembly **(1)**.
2. Secure the connection with bolts **(E)**, washers **(A)**, washers thin **(B)**, rubber gaskets **(C)** and nuts **(D)** (Fig. 6).
3. Repeat the assembly for another mixer blade.



### Assembling the handle control plate

	Drum arm (8) (assembled on stand)	x 1
	Handle control plate (10)	x 1
<b>Mounting set bag E</b>		
	Washer (A)	x 2
	Spring washer (B)	x 2
	Nut M8 (C)	x 2
	Bolt M8 x 30 mm (D)	x 2

1. Place the handle control plate (10) onto the drum arm (8). Make sure the plate is properly attached on the bracket (8a) (Fig. 7.)
2. Secure the connection with bolts (D), washers (A), spring washers (B) and nuts (C).

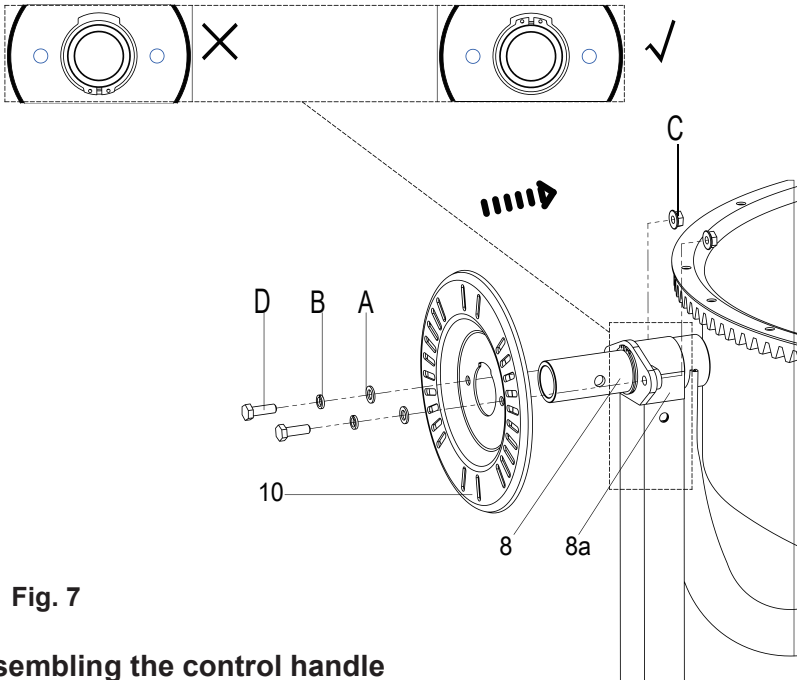
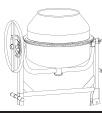





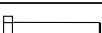


Fig. 7

### Assembling the control handle

	Handle control plate (10) / Drum arm (8) (assembled)	x 1
	Control handle (with bolt M8 x 40) (9)	x 1
<b>Mounting set bag F</b>		
	Washer (A)	x 2
	Nut (B)	x 1
	Spring (C)	x 1
	Bolt M8 x 16 mm (as stop) (D)	x 1
	M10 x 70 mm (E)	x 1

1. Align and place the control handle (9) onto the drum arm (8). Ensure the wing (9d) are engaged in the grooves (10b) on the handle control plate (10) (Fig. 8)

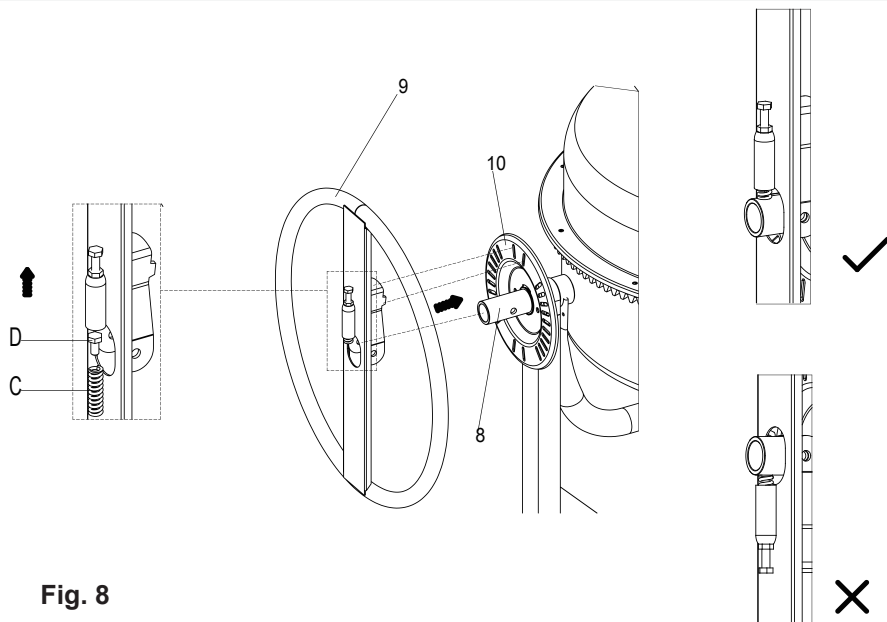


Fig. 8

2. Secure the connection with bolt (E), washers (A) and nut (B) (Fig. 9).

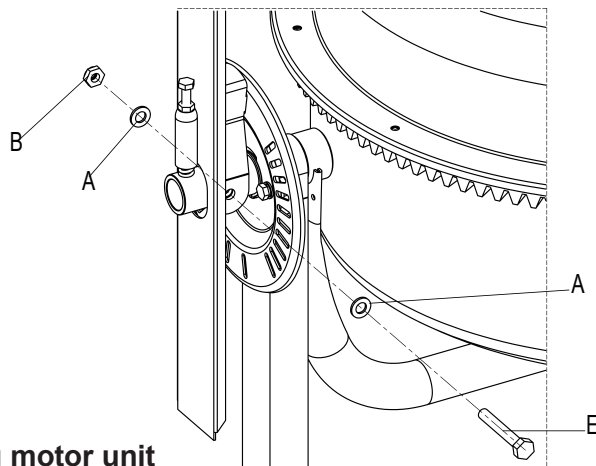
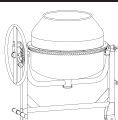







Fig. 9

### Assembling motor unit

	Drum arm (8) / Stand (6) (assembled)	x 1
	Motor unit (3)	x 1

Mounting set bag G		
	Washer (A)	x 4
	Spring washer (B)	x 4
	Bolt M8 x 20 mm (C)	x 2
	Bolt M8 x 25 mm (D)	x 2

1. Align and assemble the motor unit onto the drum arm (8) / stand (6) (Fig. 10).
2. Secure the connection with bolts (C, D), spring washers (B) and washers (A).

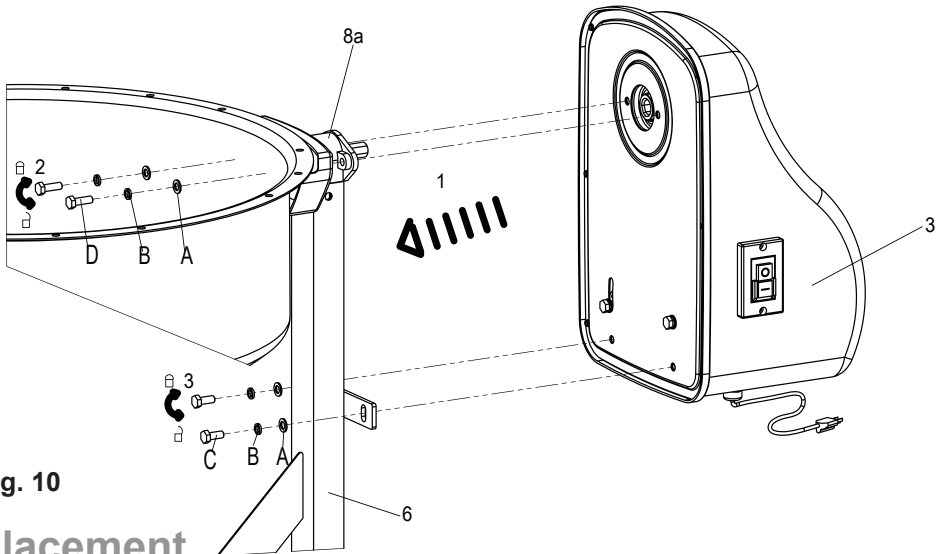


Fig. 10

## Placement

The product may only be placed on a flat surface. To ensure sufficient stability it is necessary to screw the product to a concrete floor with the proper fixation materials including dowels, screws and washers. Ask your specialist dealer for advice if you are not sure.



**WARNING!** Do not place any material under the product to adjust the height or to attempt to improve its stability! If the product is on an angle and/or wobbly, move it to a different location. Never operate the product on soft surfaces such as a lawn or gravel since it could sink or tip over during operation!

1. Select a location at which the product can be operated permanently. Make sure that you have a suitable socket outlet available in direct surrounding.
2. Place the product at the desired position and mark the position of the two holes via mounting holes (7b) (Fig. 11).

3. Move the product aside and drill holes at the marked positions with a suitable power tool.
4. Remove any bore dust from the holes and insert a dowel in each of the holes. Make sure the edges are flush with the surface.
5. Move the product in its final position and fix it using washers and screws (not provided, recommended size M10).

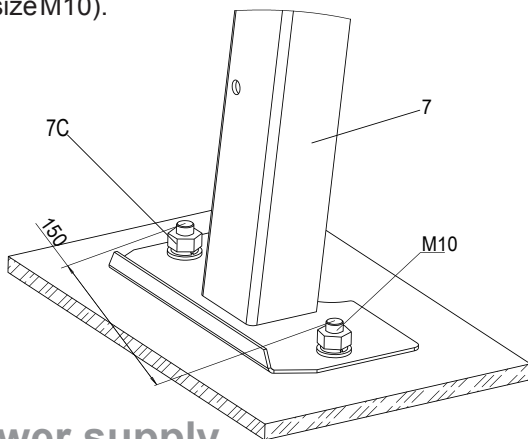


Fig. 11

## Connection to power supply

**WARNING! Check the voltage! The voltage must comply with the information on the rating label!**

If using an extension cord it must be suitable for outdoor use with sockets protected against water splashing.

Ensure the extension cord is of the proper size and type for your product:

- 1.5 mm<sup>2</sup> for up to 60 m
- 2.5 mm<sup>2</sup> for up to 100 m

**ADD RCD units if needed, protect against electrical overloading**

1. Designate a work area that is clean and wet-lit. The work area must not allow access by children or pets to prevent distraction and injury.
2. Route the power cord along a safe path to reach the work area without creating a tripping hazard or exposing the power cord to possible damage. The power cord must reach the work area with enough extra length to allow free movement while working.



3. To avoid the possibility of the plug or mains socket getting wet, position the product to one side of a wall-mounted socket. Arrange a “drip loop” in the power cord connecting the product to a socket (Fig. 12).

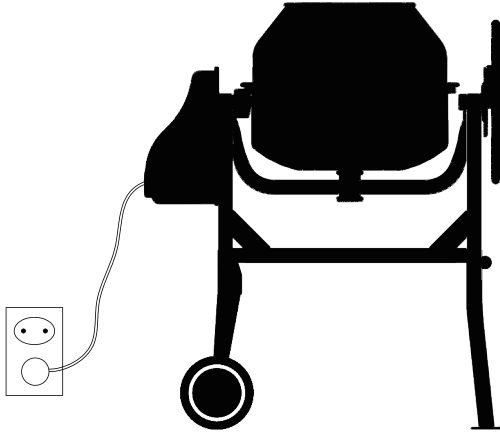


Fig. 12

4. The “drip loop” is a section of the cord that hangs below the level of the socket or below the connector, if an extension cord is used, to keep the possible water that travels along the cord from coming into contact with the socket.

In more  
**detail...**



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## Intended use

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This electric Concrete Mixer JFC125 is designated with a rated power input of 550 Watts.

This product is intended to mix certain construction materials, like concrete.

For safety reasons it is essential to read the entire instruction manual before first operation and to observe all the instructions therein.

This product is intended for private domestic use only, not for any commercial trade use. It must not be used for any purposes other than those described.

### Important notice:

In accordance with valid product liability laws, the manufacturer of this product shall not be responsible for damage to and from this product which results from:

- Improper care.
- Non-compliance with the operating instructions.
- Repairs made by unauthorised persons.
- The installation and use of any parts which are not original replacement parts.
- Improper use and application.
- Reasonably foreseeable misuse and prohibited usages.

## Adjustment

### WARNING!

Always switch the product off and disconnect it from power supply before making any adjustments!

- Adjust the drum angle by pulling out on the Control Handle (9). First, disengage the locking pins by pulling the control handle away from the drum and then pushing on the handle until the desired angle is reached. Re-engage the locking pins. (Fig. 13).

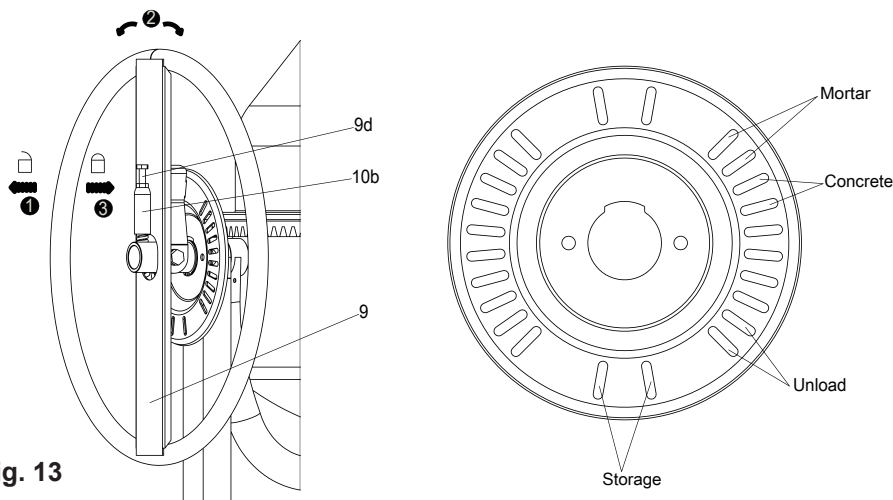


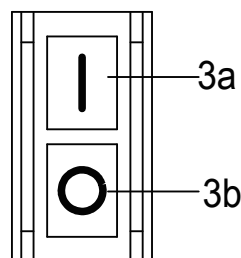
Fig. 13

### WARNING!

Hold the control handle tightly while turning it.

## Switching on/off

- Press the ON switch "I" (3a) to switch the product on.
- Press the OFF switch "O" (3b) to switch the product off.
- Please do the next operation after the machine has completely stopped.





**NOTE:** The product is equipped with a magnetic switch to prevent the product from starting again after loss of electricity. If the product stops for that reason, the ON switch (3a) must be pressed again. Test the magnetic switch from time to time, by pulling the plug out and connecting again. The product should not continue operating.

## General operation

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1. Check the product, its power cord and plug as well as accessories for damage before each use. Do not use the product if it is damaged or shows wear.
2. Double check that the accessories and attachments are properly fixed.
3. Switch the product off immediately if you are disturbed while working by other people entering the working area.
4. Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.
5. Hold the control handle tightly while turning it. Adjust the angle of the drum according to application.
6. Switch the product on.
7. Always switch the product on before loading the drum. Load the drum while it is rotating.
8. Do not throw material into the drum to avoid sticking firmly to the rear side of the drum. Drop it steadily over the ram.
9. The machine should be placed with enough space and run in a normal temperature environment.



**WARNING!** Do not attempt to move the Cement Mixer when it is full and/or in operation. It is unsafe to move the mixer while in this condition, and severe injury to personnel could occur.



**WARNING!** Never leave the Cement Mixer running while unattended. Do not turn the product off when loaded!

## mixing procedure

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1. Add the required amount of gravel into the drum.
2. Add the required amount of cement into the drum as required.
3. Add the required amount of sand into the drum as required.
4. Pour water into the drum as required.
5. Repeat previous steps until the proportions for mixing are achieved.
6. Allow material to mix thoroughly.
7. Do not overload the drum.



**NOTE:** Ask your dealer or specialist for advice of the composition and quality of the material all being mixed.

## After use

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1. Switch the product off, disconnect it from the power supply and let it cool down.
2. Check, clean and store the product as described below.

## The golden rules for care



**WARNING!** Always switch the product off, disconnect the product from the power supply and let the product cool down before performing inspection, maintenance and cleaning work!



1. Keep the product clean. Remove debris from it after each use and before storage. Regular and proper cleaning will help ensure safe use and prolong the life of the product. Inspect the product before each use for worn and damaged parts. Do not operate it if you find broken and worn parts.



**WARNING!** Only perform repairs and maintenance work according to these instructions! All further works must be performed by a qualified specialist!

## General cleaning

1. Clean the product with a dry cloth. Use a brush for areas that are hard to reach. In particular clean the air vents after every use with a cloth and brush. Remove stubborn dirt with high pressure air (max. 3 bar).
2. Thoroughly clean the mixer at the end of each day's operation. Keep your mixer clean. The slightest trace of material left in the drum will harden and attract more each time you use it until the machine is useless. Dried cement should be scraped out of the drum. Do not throw bricks into mixer drum to clean it out. Do not beat on the drum with a shovel, a hammer or other tools to break up accumulations of dried cement mix, as damage to the mixer may result.
3. The drum may be scoured for approximate 2 minutes, using 1" gravel and water mixture. Then discharge the gravel/water mixture and hose down the drum assembly inside and out.
4. The IP44 protection class construction of the concrete mixer enables you to hose down the drum assembly safely.



**NOTE:** Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

5. Check for worn or damaged parts. Replace worn parts as necessary or contact an authorised service centre for repair before using the product again. Don't spray water directly over the motor cover, especially the openings....

## Maintenance

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1. Before each use, inspect the general condition of the product. Check for loose hardware, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, damaged or cracked belts, and any other condition that may affect its safe operation.
2. After use, immediately wash out all debris from the inside and outside of the product. Make sure the Power Cord is disconnected.
3. Do not apply water in or around the motor housing.
4. Periodically recheck all nuts, bolts, and screws for tightness.
5. When not in use, locate the Mini Cement Mixer in a safe, secure area that has no child accessibility.
6. Since all bearings are shielded and permanently lubricated, simply leave them alone until they need to be replaced. Do not lubricate them.
7. Ensure that the maintenance space is large enough.

### Belt Inspection and Tensioning

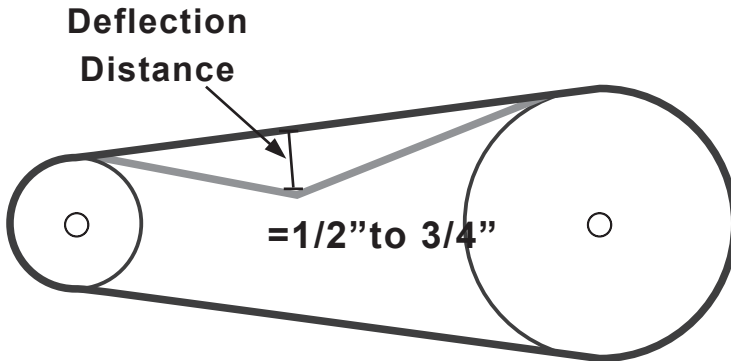
1. Retighten belt after the first 25 hours of use. To test the tension, follow the steps below.
2. Remove belt cover.
3. Examine belt for cracks, tears in the backing, or other damage. Replace belt if damaged according to steps below:
  - A. Loosen the motor bracket bolts and slide the bracket up as far as possible.
  - B. Slide the old belt off of the larger pulley first, then remove it from the motor pulley.
  - C. Put the new belt around the small pulley first, then around the large pulley.
  - D. Move the motor bracket down the belt until it is properly tensioned according to the directions below. Tighten the motor bracket bolts.
4. Check and adjust belt tension according to the steps below:
  - A. Press on the centre of the longest span on the belt with moderate finger pressure. Then measure the deflection distance, the distance that the belt moved. The belt should deflect anywhere from 1.3cm (1/2") to 1.9cm (3/4").
  - B. If the belt deflects too much, tighten belt by loosening the motor mounting bolts and moving the motor away from the other pulley slightly. Secure



motor mounting bolts and retest tension. If the belt is too long to be properly tensioned, it must be replaced.

- C. If the belt deflects too little, loosen the motor bracket bolts and lift it upward. Secure motor mounting bracket and retest tension.

Before use, replace belt motor cover.



## Power cord

If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a safety hazard.

## Spare parts/Replacement parts

The following parts of this product may be replaced by the consumer. Spare parts are available at an authorised dealer or through our customer service.

Description	Model no. or Specification
Wheel	9" wheel
Switch	ON/OFF switch
Pulley	Drum/Motor pulley
Belt	280J belt
The parts bag	Nuts/Bolts/Screws/Washers

## Repair

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This product does not contain any parts that can be repaired by the consumer. Contact an authorised service centre or a similarly qualified person to have it checked and repaired.

## Storage

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1. Switch the product off and disconnect it from the power supply.
2. Clean the product as described above.
3. Store the product and its accessories in a dark, dry, frost-free, well-ventilated place.
4. Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 10 °C and 30 °C.
5. We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.

---

## Transportation

1. Switch the product off and disconnect it from the power supply.
2. Attach transportation guards, if applicable.
3. Always carry the product by its main handle(7a).
4. Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
5. Secure the product to prevent it from slipping or falling over.

## Troubleshooting

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore check the product using this section. In most cases the problem can be solved quickly.



**WARNING!** Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorised service centre or a similarly qualified specialist if you cannot solve the problem yourself!

Problem	Possible cause	Solution
1. Product does not start	1.1. Not connected to power supply 1.2. Power cord or plug is defective 1.3. Other electrical defect to the product	1.1. Connect to power supply 1.2. Check by a specialist electrician 1.3. Check by a specialist electrician
2. Product does not reach full power	2.1. Extension cord not suitable for operation with this product 2.2. Power source (e.g. generator) has too low voltage	2.1. Use a proper extension cord 2.2. Connect to another power source
3. Unsatisfactory result	3.1. Mixer blades are dull/damaged 3.2. Mixer blades not suitable for work piece material	3.1. Replace with new ones 3.2. Use proper mixer blades
4. Excessive vibration or noise	4.1. Mixer blades are dull/damaged 4.2. Bolts/nuts are loose	4.1. Replace with new ones 4.2. Tighten bolts/nuts

## Recycling and disposal

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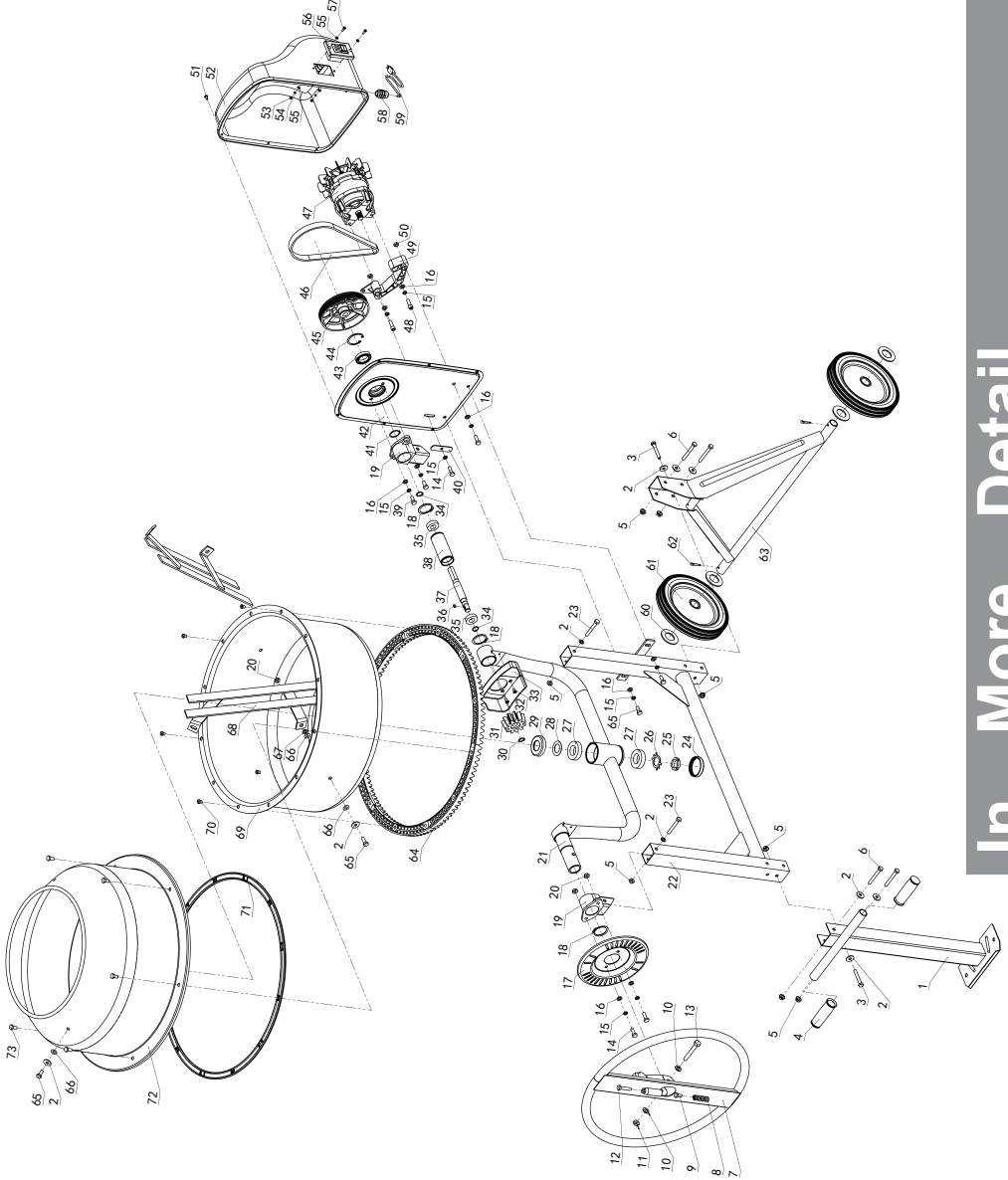


The product comes in a package that protects it against damage during shipping. Keep the package until you are sure that all parts have been delivered and the product is function properly. Recycle the package afterwards.



WEEE symbol. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.

# Exploded view



In More Detail...

## PART LIST

No.	English name	Quantity
1	Leg	1
2	Flat Washer 8	12
3	Bolt M8x55	2
4	Rubber Handle	2
5	Hex flange nut M8	8
6	Bolt M8x65	4
7	Control handle assembly	1
8	Coil Spring	1
9	Bolt M8x16	1
10	Flat Washer $\phi$ 10	2
11	Lock nut M10	1
12	Bolt M8x40	1
13	Bolt for handle	1
14	Bolt M8x30	4
15	Spring washer $\phi$ 8	10
16	Flat Washer $\phi$ 8	9
17	Handle control plate	1
18	Ring Shield $\phi$ 40	3
19	Support bracket seat	2
20	Lock nut M8	6
21	Arm	1
22	Stand	1
23	Bolt M8x60	2
24	Knob for arm(b)	1
25	Nut M27x1.5	1
26	Lock washer $\phi$ 27	1
27	Bearing 6005	2
28	Adjusting washer	
29	Knob for arm(a)	1
30	Ring shield $\phi$ 15	1
31	Gear	1
32	Screw M6x12	2
33	Gear cover	1
34	Ring Shield $\phi$ 17	1
35	Bearing 6003	2
36	KeyC5x10	1
37	Pinion Shaft	1

No.	English name	Quantity
38	Supporting tube (a)	1
39	Bolt M8x25	2
40	Motor hood pad	1
41	Ring Shield $\phi$ 30	1
42	Motor hood	1
43	Bearing 6906	1
44	Ring shield $\phi$ 47	1
45	Drum pulley	1
46	Belt (280J)	1
47	Motor	1
48	Hexagon socket head bolt M8x25	2
49	Motor bracket	1
50	Nut M8	2
51	Screw M5x10	7
52	Motor Cover	1
53	Nut M4	2
54	Spring washer $\phi$ 4	2
55	Flat Washer $\phi$ 4	2
56	Switch	1
57	Screw M4x12	2
58	Bushing M20	1
59	Plug cord	1
60	Flat Washer $\phi$ 27	4
61	Wheel	2
62	Pin 5x40	2
63	Wheel bracket	1
64	Gear ring	6
65	Bolt M8x20	6
66	Aluminum pad	8
67	Rubber mat	4
68	Mixer blade	2
69	Lower drum assembly	1
70	Hexagon Socket Mushroom Cap Screws M8x12	6
71	Rubber gasket	1
72	Upper drum	1
73	Screw M8x20	6





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