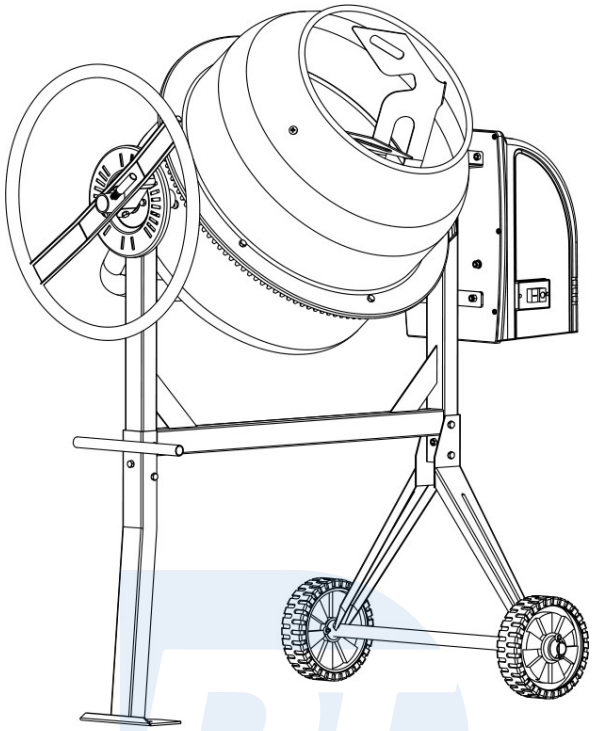


## Instructions for use

# Concrete mixer 120L 12493

Both the model number and serial number can be found on the main label.
You should record both in a safe place for future reference.

**Model : PCM420**

# For your safety

**Read and understand the entire instruction manual before use**

| Symbol placed on the machine | Safety warnings and instructions |
|---|---|



Read and understand the operating instructions and labels attached to the mixer. Familiarize yourself with its uses and limitations, as well as the specific potential hazards inherent in it. Familiarize yourself with the controls before operating this mixer. Do not operate the mixer under the influence of drugs, alcohol or other medications that could impair your ability to use it properly. Do not operate this mixer when you are tired or distracted from work. Pay attention to what you are doing. Use common sense.



Make sure you have enough work space around.
Keep the work area clean and well lit. There is a risk of personal injury in cluttered areas.
Keep the area around the mixer free of obstructions, oil, debris and other debris that could cause persons to fall on moving parts.
Use or operate the mixer only on a firm, level surface capable of supporting 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. This mixer is designed for concrete production. It is not suitable for mixing explosive mixtures or explosive substances. Do not use it in areas where fumes from paints, solvents or combustible liquids pose a potential hazard.





Check the mixer before switching it on. Keep the covers in place and in working order. Do not connect the mixer with the motor cover removed.
Check all screws for tightness before each use,
nuts and bolts, especially those securing the covers and drive mechanism. Vibration during mixing may cause them to loosen.
Before turning on the mixer, make a habit of checking that all setting tools, shovels, gloves and other tools/instruments are removed from its compartment. Replace damaged, missing or broken parts before use.
Warning labels contain important information. Replace any missing or damaged warning labels.





Do not wear loose clothing, gloves, ties or jewelry (rings, wristwatches). They can get caught on moving parts. Protective electrically non-conductive gloves and non-slip footwear are recommended when working. Wear protective hair covering to contain long hair and prevent it from getting caught in machinery. Wear a face mask or dust mask if the operation is dusty. Always wear safety glasses and/or face shields. Everyday goggles only have impact resistant lenses. They are not safety glasses.

Never pull the mixer by the cord or unplug it from the socket by pulling the cord. Protect the power cord from heat, oil and sharp edges.
The extension cable must not be longer than 50 metres. At 230V, the conductor cross-section must be 1.5 mm to allow current flow to the motor. Improper use of extension cables can cause inefficient operation of the mixer, which can result in overheating and damage to the motor.
Only extension cables to specification H07RN-F for outdoor use may be used. Avoid using loose and insufficiently insulated connections.
Connections must be made of protected material suitable for outdoor use. Ensure that all axial cord connections are dry and secure. Ensure that the extension cord is
Carefully laid, avoiding liquids, sharp edges and places where water currents can pass over it. Prevent the extension cable from being under the mixer. Unwind it fully or it will get hot and may catch fire.

Check that the electrical circuit is adequately protected and that it matches the power, voltage and frequency. Do not plug or unplug the motor when standing in or near a wet environment. Do not operate the mixer in wet or damp areas or expose it to rain.
Avoid body contact with grounded surfaces and appliances.



Prevent unauthorised persons from accessing the mixer.
Do not allow children to handle or climb on the mixer.

Always maintain proper support and balance when loading and unloading the mixer.
Never stand too close to the mixer. Serious injury could result if the mixer tips over or inadvertently comes into contact with moving parts. Do not store anything above or near the mixer.



Keep hands away from all moving parts. Do not insert any part of the body or any tool, such as a shovel, into the drum during operation. When working, do not pass your hands through the gap between the frame and the support arm or through the gap between the drum and the support arm.

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Always work only with the recommended capacity.

Do not start the engine when the drum is fully loaded. Do not switch off the mixer while it is full of concrete.

Do not use the mixer for purposes for which it is not intended.

The mixer shall not be towed by any vehicle.
Do not walk away from the mixer until it comes to a complete stop.



Never open the motor cover before disconnecting the mixer from the mains. Disconnect the mixer from the power supply before moving, adjusting, changing parts, cleaning or working on the mixer when it is not in use. Before servicing the
read the instructions for use.

Clean the mixer thoroughly immediately after use. Keep the mixer clean for the best and safest performance.When maintaining this mixer, use only original manufacturer parts.



Take leftover materials to an authorized collection point or follow the regulations of the country in which the mixer is used. Do not discharge into drains, soil or water.

When not in use, the mixer should be stored in a dry place to prevent rust. Keep the mixer out of the reach of children and other persons not authorised to use it.

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**Electrical connection**

This mixer has double insulation of protection class II and protection rating IP45D. The insulation will only remain effective if the original insulation parts are used during repairs and the gaps between the original insulation are maintained.

Double insulation eliminates the need for a three-wire grounded power cable and grounded power system. Tools with double insulation can use a two-wire or three-wire extension cord.

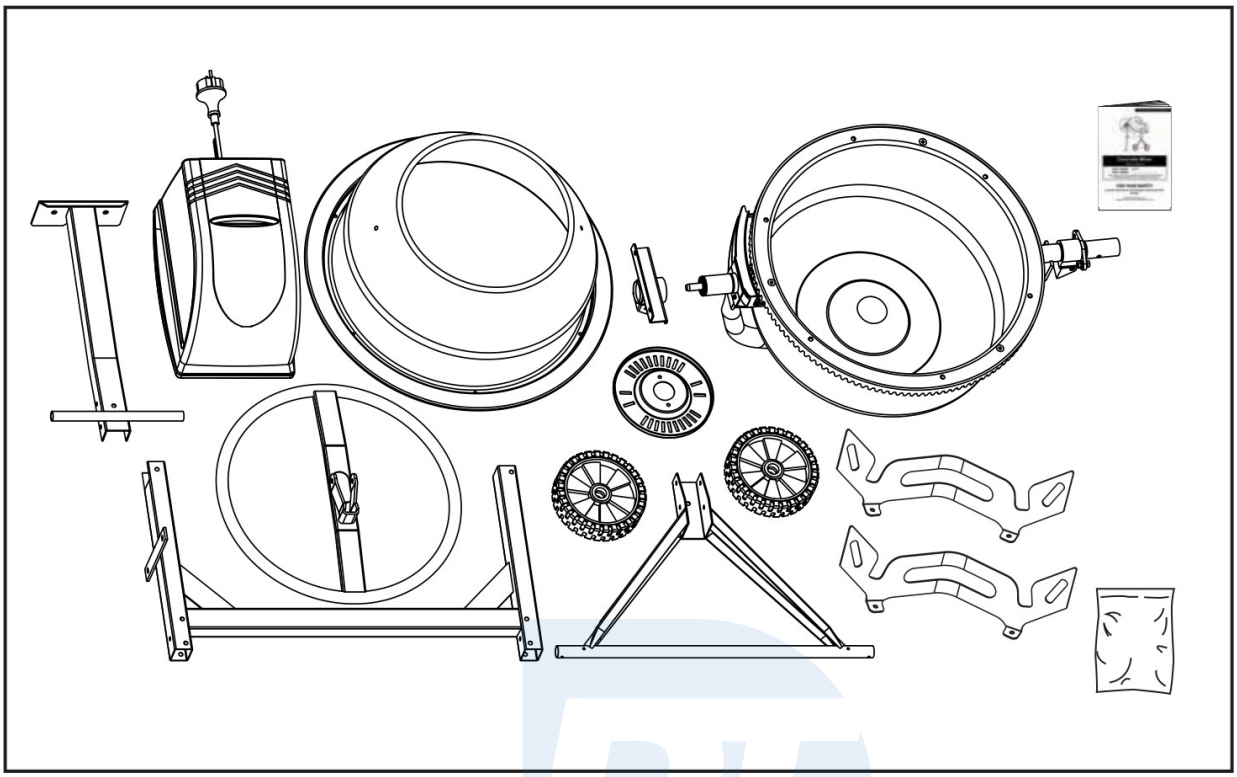
 Do not connect any of the wires to the ground pin.

For 230V electrical supply, it is recommended to use a residual current device (RCD) (earthing switch). If you use an extension cable, plug it directly into the RCD.

When operating in Switzerland, only plug the mixer into sockets protected by a surge protector.

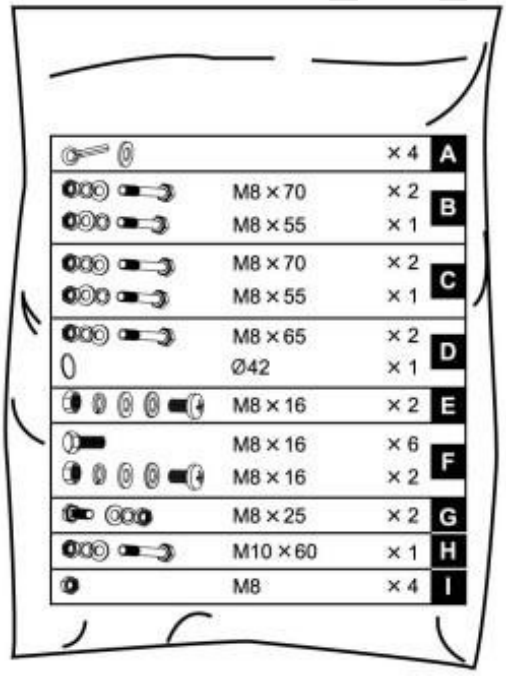
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**Contents of the package**

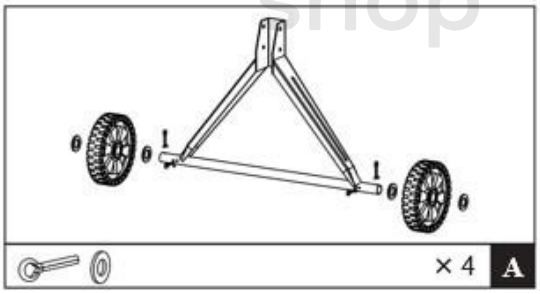


## Assembly instructions

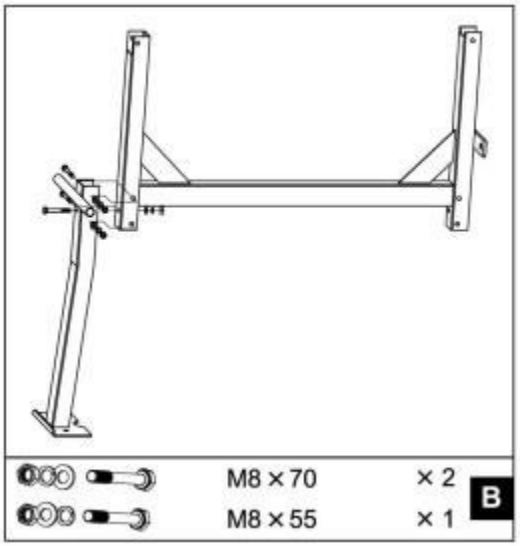
⚠ The assistance of two persons is recommended during installation.



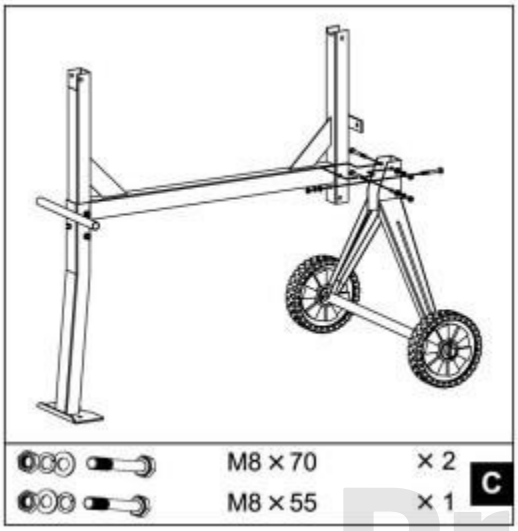

**Stand**




1. Insert a split washer into the inner holes in each axis, place a flat washer followed by another flat washer. Insert another split pin into the axle holes outside each flat washer. Bend each side of the pins outwards so that they do not fall out.



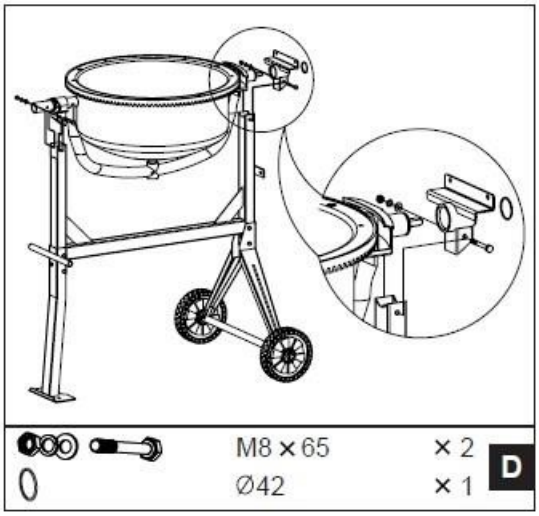

2. With the frame lying on its side, attach the support leg as shown. Insert two M8X70 hex bolts through the holes from one side, then the flat washers, lock washers and nuts from the other side. Also screw the M8X55 hex bolt with lock washers and flat washers to the nut on the frame. Tighten.




3. Turn the frame over and attach the axle bracket with the wheels in the same way.

4. Check that all bolts and nuts are tightened.

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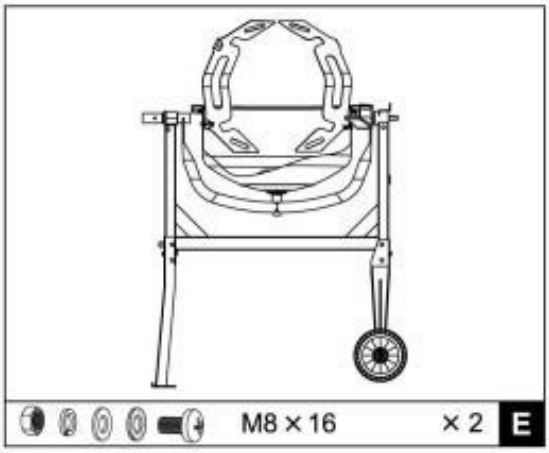

**Lower drum**

1. Fit the bearing block onto the shaft. Hold it in place with the 42mm spiral ring.

2. Carefully and with two people, set the drum with the support arm onto the side supports of the rack as shown in the picture so that the bearing blocks slide into the channels of the side supports. The larger diameter shaft should be at the end of the rack leg.

3. On each side, align the holes in the side support with the holes in the bearing block and insert the M8X65 hex bolt from one side, then the flat washer, lock washer and nut from the other side. Tighten with a wrench.

**Stirring paddles**




Mount the mixing blades loosely into the bottom drum as shown - there are two lugs on the bottom of the drum into which the M8X16 screw can be inserted from the outside. A leather washer, flat washer, lock washer and nut should be loosely threaded on from the inside. The leather washer should be placed under the knife down against the drum.

COMMENT:

On the upper drum and lower drum are marked two arrows that express the relationship between their positions. If you have any difficulty with the correct positioning of the mixing blades, it is helpful if you temporarily place the upper drum on top of the lower drum and rotate it so that the two arrows line up.

**Upper drum**




1. Place the upper drum on the lower drum over the rim, making sure the mounting holes are aligned as well as the marked arrows.

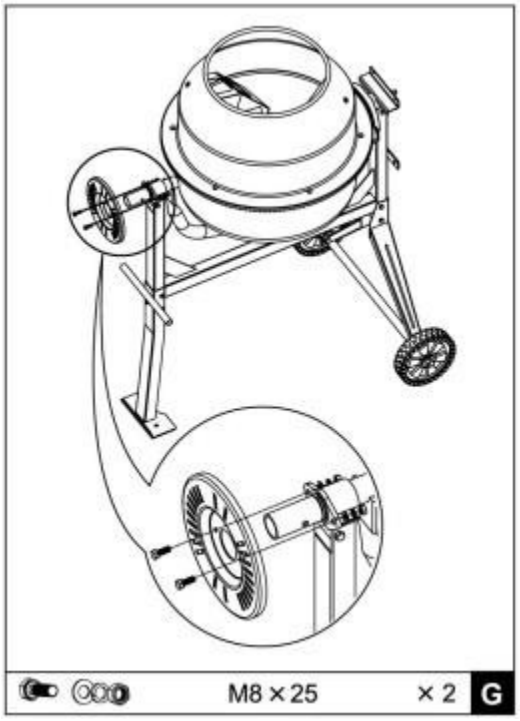
2. Screw an M8X16 hexagon bolt with lock and flat bolts into each threaded hole in the rim/ring
pads. Make sure to tighten gradually.

3. Attach the mixing blades to the upper drum by attaching two M8X16 Phillips head screws from the outside through the holes in the drum.

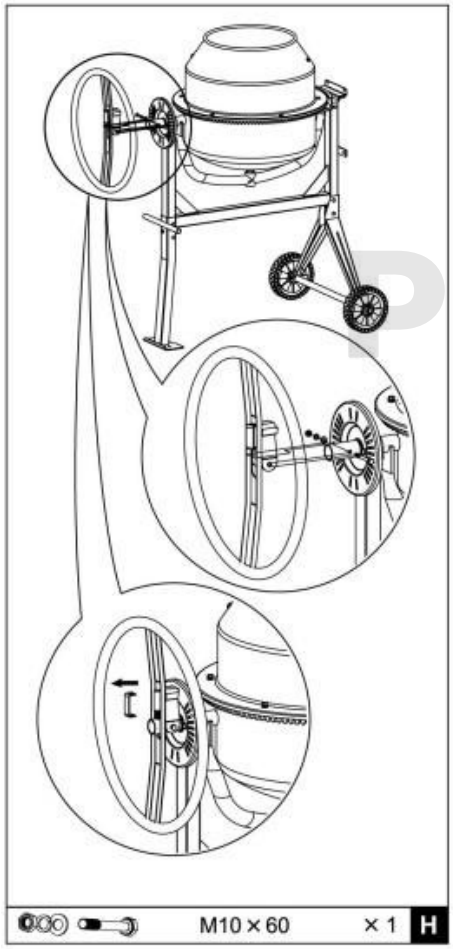
4. The leather pad should be placed inside between the drum and the knife. Secure the mixing knife from the inside with a flat washer, lock washer and nut.

5. Finally, check that the upper and lower mixing paddles are fixed firmly.

**Tilting wheel**




1. Place the locking plate on the large diameter shaft at the end of the frame leg with the edge facing inward as shown. Secure with two M8x25 bolts, each with nut, lock washer and flat washer.

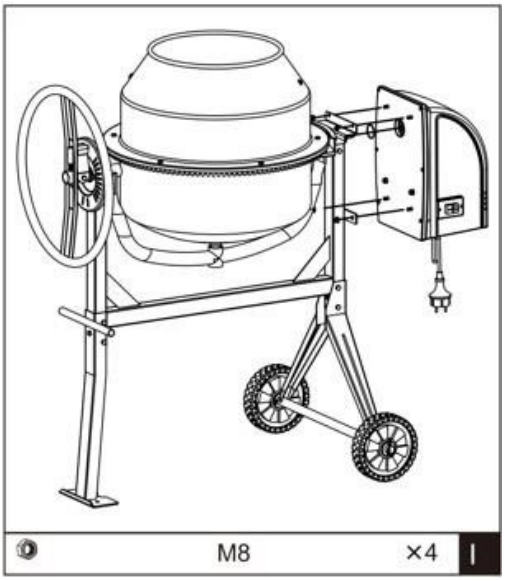



2. The spring is clamped in the bracket by a U-shaped plate, which makes assembly easier.

Slide the wheel over the larger diameter shaft until the holes in the holder line up with the drilled hole. From the other side, insert the M10X60 hexagon bolt and screw on the nut with the flat and lock washers. Screw the nut firmly onto the bracket, but not so tightly that the wheel cannot rotate around the bolt. Release the spring by removing the U-shaped plate

**Note**: The wheel must be rotated around the bolt so that the tabs on the bracket can slide in or out of the grooves in the locking plate.

**Transfer cabinet**




Slide the gear case onto the pinion shaft in line with the grooves. Secure the housing to the structure with four M8 nuts.

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## Operating Instructions

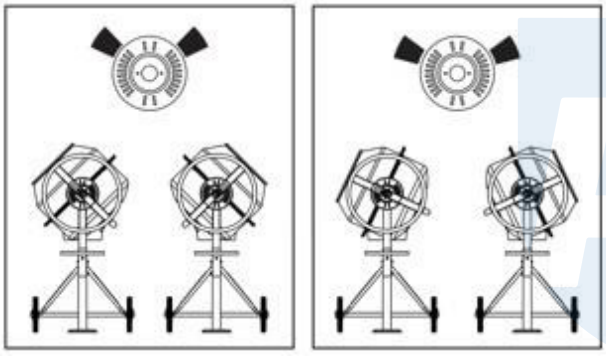
### Tilting the drum

The spring-loaded tilt wheel with locking lugs allows easy operation of the drum, which can be locked in the mixing, emptying and storage position.
The drum is secured in position by means of grips on the self-tipping wheel, which slides into the fixing plate on the mixing grate. To tilt the drum, pull the tilting wheel to release the locking lugs. This then allows the tilting wheel and drum to rotate in the same direction.

To hold the drum in position, align the lugs with the grooves, loosen the tilt wheel a little and hold the drum at the same time. Rotate the tilting wheel until the locking tabs engage the locking plate on the mixer frame.

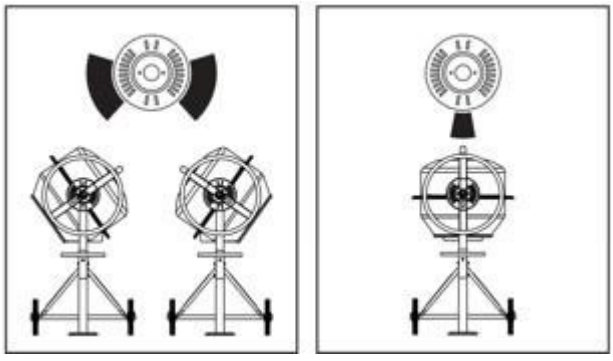
### Filling and mixing position

Malta Concrete



### Emptying and storage position

Emptying position Storage position



### Filling the mixer

⚠ Completely unwind the extension cable. Connect it to the mixer first before plugging it into the mains.

⚠ Always start the mixer before loading into the drum.

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Do not throw material into the mixer to prevent it from sticking to the back of the drum. Gradually pour it through the mixing paddles.

NOTE: There is a thermal protector built into the motor to prevent it from overheating. The thermal protection automatically resets when the engine cools down.

To get the best results, follow these steps:

1. Add the required amount of gravel to the drum.
2. Add the required amount of cement to the drum.
3. Add the required amount of sand to the drum.
4. Add the required amount of water to the drum.

**Emptying the mixer**

Do not turn off the mixer when it is full. Do not empty the mixer while it is spinning.

**Cleaning the mixer**

Clean the mixer thoroughly at the end of each working day. Keep the mixer clean. The slightest trace of material left in the drum will harden and pack up more with each use until the machine is unusable. Dried cement should be scraped out of the drum. Do not drop bricks into the mixer drum to clean it. Do not bang on the drum with a shovel, hammer or other tools to break up the accumulated dried cement mixture as this may damage the mixer. The drum can be cleaned for approximately 2 minutes using a mixture of grit and water. Then drain the mixture of gravel and water and use a hose to clean the drum inside and out.

The mixer's IP45D-rated design allows you to safely clean the drum with a hose. Do not pour or spray water directly on the motor housing, especially on the holes in it.

Wipe off all external material from the engine cover. Do not use gasoline, turpentine, lacquer or paint thinner, dry cleaning fluids or similar products. Such products or solvents may affect the properties of the cover, which was made of high-density polyethylene PET.

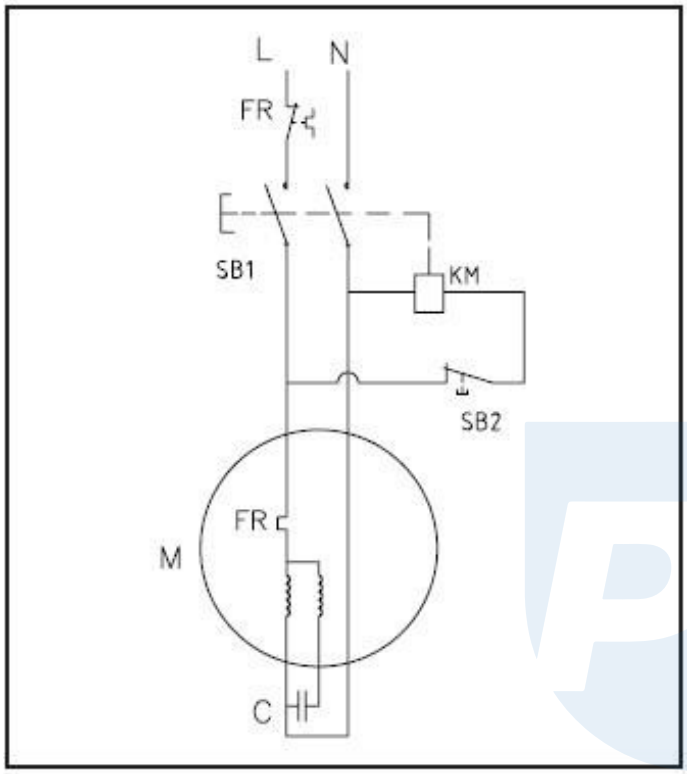
**Maintenance**

Always make sure that the extension cable is disconnected from the socket before removing the motor cover.

The drive belt is under constant uniform tension by means of a spring-loaded shaft. No adjustments are required apart from lubrication of the spindle.

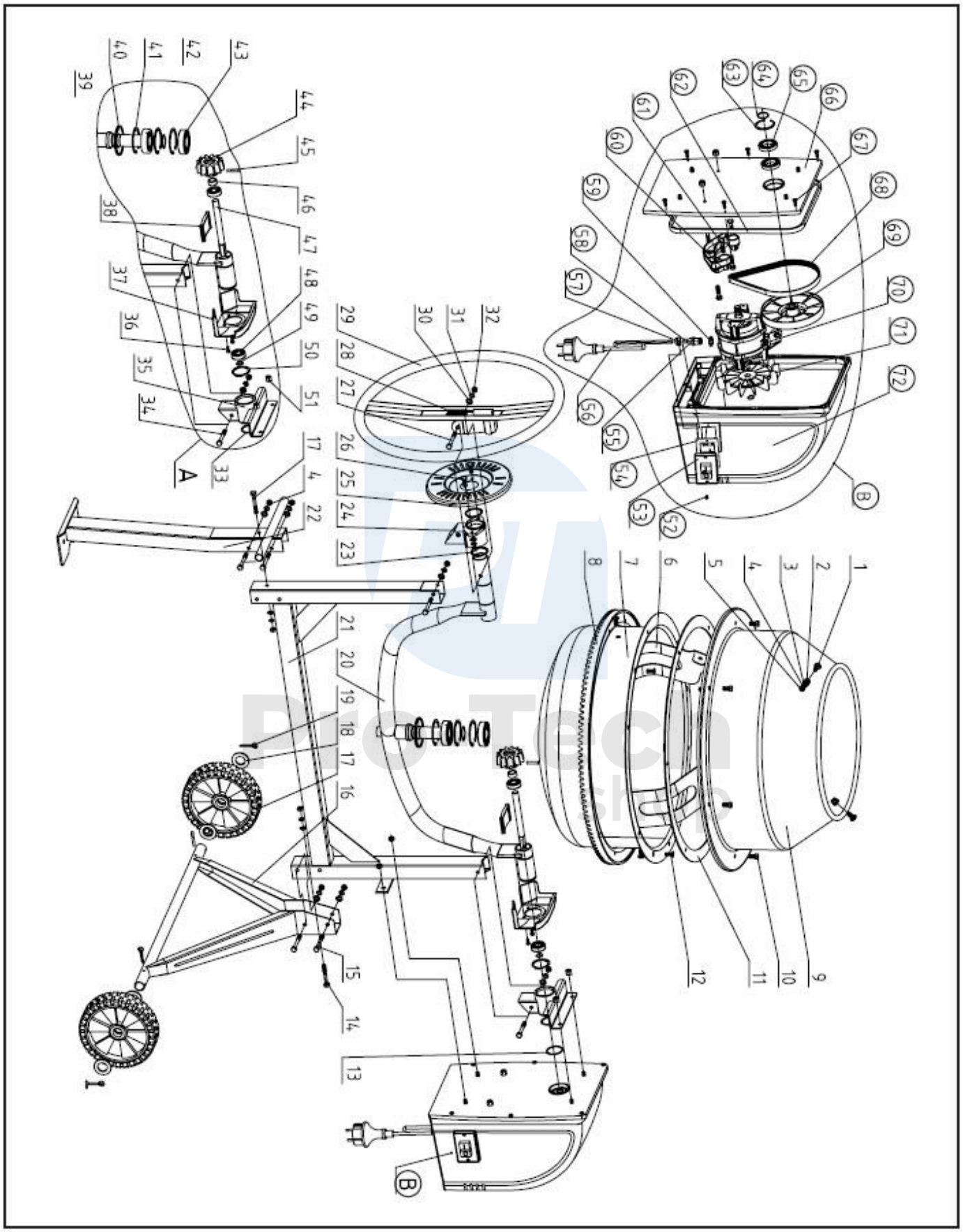
The wiring diagram and parts diagram in this manual are for reference only. Neither the manufacturer nor the distributor makes any representation or warranty to the purchaser that it is qualified to perform any repairs to the product or that it is qualified to replace any parts of the product. Only qualified technicians should repair the mixer. Any maintenance and repairs performed on any electrical components must be performed by a qualified electrician.

**Wiring diagram**




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**Parts diagram**



**Technical data**

| | | |
|---|---|---|
| **Product code** | | 12493 |
| **Model** | | PCM420 |
| **Engine** | | 850W |
| **Drum capacity (L)** | | 120 |
| **Drum diameter (mm)** | | 350 |
| **Drum speed (rpm)** | | 26,6 |
| **Overall dimensions** | **Length (mm)** | 1170 |
| | **Width (mm)** | 670 |
| | **Height (mm)** | 1110 |
| **Weight (kg)** | | 36 |

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