

# Operating instructions

## Rotation mixer

### **AOX-S** (110 V US-Version)

Store the operating instructions readily available at the machine.

Translation of original operating instructions en - English, Rev. 3 - 2016



 **Collomix**

## Control elements



- |   |                             |    |                            |
|---|-----------------------------|----|----------------------------|
| 1 | Bucket holding fixture      | 7  | Mixing tool motor          |
| 2 | Mixing bucket               | 8  | Suction nozzles for vacuum |
| 3 | Belt eyelet                 | 9  | Scraper                    |
| 4 | KR mixing tool              | 10 | On/Off switch              |
| 5 | Mixing tool holding fixture | 11 | Transport handle           |
| 6 | Swivel arm                  | 12 | Mains plug                 |



AOX in closed state



### Mixing tool KR (70151):

Mortar, screed, concrete (-8 mm), chalk/gypsum plasters, lightweight masonry mortar, epoxy resin mortar, plastic adhesive mortar, tile adhesive

### Mixing tool DLX (70149):

Thin-bed mortars, slurries, membrane and levelling compounds, liquid plastics, aqueous dispersions

## Technical data:

Large mixing bucket:	17 gal.
Usable quantity:	10.5 gal.
Rotary plate motor:	0.55 kW/0.75 hp / 110 VAC 60 Hz
Mixing bucket speed:	18 rpm
Mixing tool motor:	1.1 kW/1.36 hp / 110 VAC 60 Hz
Mixing tool on-load speed:	610 rpm
Weight:	128 lbs
Dimensions:	23.6" x 32.2" x 34.3"
Noise level in accordance with EN 60745	87 dB
Sound power level in accordance with EN 60745	98 dB
Uncertainty K = 3 dB	

## Scope of delivery

Machine with two mixing tools,  
1x special 65 l mortar bucket,  
2 x open-end wrenches SW 22 and SW 24  
1x operating instructions

## Consumables

The following consumables are available:

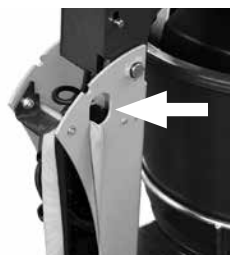
Part	Art. no.
Mixing bucket, 17 gal.	60403
AOX-DLX mixing tool	70149
AOX-KR mixing tool	70151

## Transport information

The device can be moved by one person on an even surface using the foldable handle.

The machine weighs 112.5 lb.

The machine must always be sufficiently secured using a transport strap or similar for vehicle transport. Only attach the strap as shown in the images.



## About this document

These instructions use symbols and labels that help you find information quickly. Read the respective explanations in the following section. Read the safety and warning information in these instructions particularly thoroughly. You can find the safety information starting from page 5. Refer to the chapter introductions and passages leading up to instructions for warnings.




The copyright for images and texts remains with Collomix GmbH.

You must read the operating instructions prior to initial commissioning. Observe the safety information. Keep for future use. This documentation is not monitored by a change service.

## Signs and symbols

### Warnings

The following symbols and signal words are used in this documentation.

Symbol	Meaning
<b>DANGER</b> 	If this signal word is used, death or serious injuries will occur if the respective precautionary measures are not observed.
<b>WARNING</b> 	If this signal word is used, death or serious injuries may occur if the respective precautionary measures are not observed.
<b>CAUTION</b> 	If this signal word is used, minor injuries may occur if the respective precautionary measures are not observed.
<b>ATTENTION</b>	If this signal word is used, malfunctions or material damage may occur if the respective precautionary measures are not observed.
<b>IMPORTANT</b>	If this signal word is used, operating tips or cross-references will follow.

### Structure of warnings

#### DANGER

The first line describes the type and source of the danger

The second line describes the consequences if no danger prevention measures are taken.

→ The last line describes danger prevention measures.

#### WARNING





Risk of injuries due to non-observance of the safety symbols

Non-observance of the warnings on the device and in the operating instructions can lead to injuries and further dangers.

→ Observe the warnings on the device and in the operating instructions.

The following special safety symbols are used in respective passages in these operating instructions:

### Mandatory signs

Symbol	Explanation	Symbol	Explanation
	Observe information		Pull the mains plug after every use. Pull the mains plug prior to opening the housing.
Symbol	Explanation	Symbol	Explanation
	Warning against a danger point		Warning against dangerous electrical voltage

## Safety information

**Read and observe this information prior to using the device! Non-observance can result in direct consequences for your health and physical integrity, as well as for the health and physical integrity of third parties.**

- ▶ The machine may only be used and maintained by persons familiar with the operating instructions and the applicable regulations regarding occupational safety and accident prevention.
- ▶ The machine may only be used in proper technical conditions as well as for the intended purpose and in a safety- and danger-conscious manner. In particular, damage that can impact the safety must be corrected immediately.
- ▶ Wear tight-fitting clothes, safety shoes and no jewellery during work. Wear a hairnet for long hair.
- ▶ Wear a dust mask to protect against dust that develops in the vicinity of the mixer.
- ▶ Wear hearing protectors while working with the machine.
- ▶ Ensure the device is secured safely.
- ▶ Observe the electrical regulation at the usage location when setting up the device.
- ▶ Make sure that the voltage indicated on the rating plate matches the mains voltage.
- ▶ Always pull the mains plug during non-operation, maintenance or when replacing the mixing tool.
- ▶ Only use approved cables that are labelled accordingly when working outside.
- ▶ Do not disconnect the plug from the socket by pulling on the cord. Protect the cable against heat, oil and sharp edges.
- ▶ Do not connect the device to standard electrical sockets. Always connect the devices via a residual current device (RCD) with a response current of 30 mA or less.
- ▶ If a cable reel is used, the cable must be fully unwound. There is a risk of a cable fire due to heating. A loss of power may occur as well, leading to the undervoltage protection being triggered.
- ▶ Keep the device away from rain and moisture. Water penetration into an electric device increases the risk of an electric shock.
- ▶ Do not operate the device in rooms with flammable atmosphere. Risk of explosion! Do not mix any solvent-containing substances with a flash point below 70°F /21 °C.
- ▶ Do not reach with your hand or objects into the mixing vessel during ongoing mixing operation. Risk of crushing!
- ▶ Wait, until the device and/or tool comes to a complete standstill. Rotating tools can get stuck and cause injuries or damage.
- ▶ Acute risk of accidents and injuries if the safety functions are disabled on purpose.
- ▶ Do not clean the machine with water or any other liquids – risk of electric shock!
- ▶ Electrical operating equipment must be subjected to a regular inspection by an electrician.
- ▶ Only remove material samples with the device at a standstill.



## For your safety

The AOX-S mixer was developed, produced and tested complying with the fundamental safety requirements. Despite that, there are residual risks.

- For this reason, read the operating instructions prior to operating the machine
- Store the operating instructions readily available at the machine.
- Pass on the operating instructions to any subsequent owners
- Despite all precautions taken, non-obvious residual risks may exist. Residual risks can be reduced by observing the safety information, the intended use and the operating instructions as a whole.



## Intended use

The AOX-S model is a mixing device for mixing:

- Mineral mortar, plasters and adhesives
- Low-viscose, self-levelling floor coatings,
- Cement-based levelling compounds and floating screed
- Epoxy resin mortar
- Small amounts of concrete or substances that are similar to concrete with low aggregate levels
- Liquid plastics

as they are used in the construction industry.

Different mixing tools can be used for specific materials:

**KR mixing tool:** various mortars, screed, concrete (-8 mm), chalk/gypsum plasters, lightweight masonry mortar, epoxy resin mortar, adhesive mortar

**DLX mixing tool:** Thin-bed mortars (for bricks), filler and levelling compounds, bonding agents, coatings

The recommended mixing capacity amounts to a maximum of 50 litres per mixture/max. 2 sacks (material-dependent). It is recommended to test the suitability and necessary material mixing time when you start the work.

Observe the processing information of the material manufacturer regarding the used material.

Any other use of the machine or any use beyond this scope is considered unintended and thus improper. Safety and its protection can be impacted in this case. Collomix GmbH shall not be liable for any resulting damage. Intended use also includes:

- Compliance with all information in the operating instructions
- Compliance with all safety information
- Compliance with inspection and maintenance work.

**The user shall be liable for damage resulting from non-intended use.**



## Foreseeable misuse

Reasonably foreseeable misuse that could result in danger for the user, third parties or the machine includes:

- Use of the machine and its accessories contrary to the intended use.
- Operation of the machine using a mixing tool different from the specified one.
- Use of damaged containers or containers not suitable for the mixer.
- Mixing plastic or highly viscose materials.
- Mixing of explosive substances.
- Mixing of electrically conducting substances.
- Mixing of chemically aggressive substances and corrosive liquids.
- Mixing of food items.
- Operation of the machine outside of the physical usage limits described in chapter "Intended use".
- Operation of the machine without the intended mixing bucket or with an unsuitable container
- Operation of the machine in the maintenance position (drive unit folded up)
- Bucket overfilling
- Use of water jets or high-pressure cleaners for cleaning
- Changes to the mixer as well as add-ons or retrofits without previous agreement with Collomix GmbH.
- Operation of the machine contrary to the provisions of the operating instructions with respect to safety information, installation, operation, maintenance, setup and malfunctions.
- Bypassing or disabling of safety and protection devices of the machine.
- Operation of the machine in the case/with obvious malfunctions
- Repair, cleaning and maintenance work without disconnecting the mixer from the power supply

## Commissioning

The device is delivered ready for operation in carton packaging. The net weight is 112.5 lb.

The machine and power cable must always be checked for damage prior to commissioning.

Check that the mixing tool is mounted correctly.

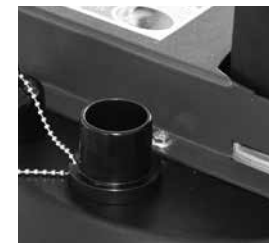
Check that the voltage indicated on the type plate matches the mains voltage.

Connect the machine connector to the power supply socket using a suitable extension cord (typeSJNW 3x13 AWG. It must be fitted with a residual current interruption system (RCD e.g. earth leakage circuit breaker).



Mains plug

A deduster can be connected to the mixer via the  $\varnothing$  35 mm / 1.38" adapter to reduce the dust load that personnel are exposed to on the construction site. This deduster should be equipped with a fine filter system to stop the dust accordingly.



Deduster connection

## Operation

### WARNING

#### Risk of injuries due to rotating mixing tool.

Do not reach into the mixing drum or handle tools in the mixing drum during mixing.

The machine must only be used with the mixing bucket provided.



- ▶ When the device is in an open state, fill the mixing bucket with water and the mixing material.
- ▶ Press the **green START button "I"**– the mixing bucket will start to turn.
- ▶ Fold down the swivel arm with the mixing tool and submerge it in the mix; the mixing tool starts. Through the rotation of the bucket, the mix is guided to the mixing tool.
- ▶ Press the **red OFF button "O"** to terminate the mixing process. The machine stops.
- ▶ Alternatively: The mixing tool drive is switched off as soon as the swivel arm is lifted. The bucket continues to turn. Switch it off via the red STOP button "O".
- ▶ **IMPORTANT!**  
Please remove the full bucket using the trolley (accessory). Do not lift the full bucket out of the machine by yourself.
- ▶ Change the mixing tool with an open-end wrench on the hexagonal holding fixture of the tool and position on the agitator shaft and remove.
- ▶ The recommended fill level of the mixer is dependent on the density and viscosity of the material. A test mixture is recommended in individual cases.
- ▶ The bucket including the ready-mixed material can be lifted out of the machine using a trolley and can then be moved to the intended location.



ON/OFF switch



Replace the mixing tool

## Troubleshooting

The machine is fitted with an undervoltage trigger. If it triggers, the machine is stopped. This may occur due to the following reasons:

- Voltage drop in the mains supply
- Supply cable too long
- Power supply disconnected

Restart after the malfunction is corrected.

The thermal circuit breaker on the motor switches off if the bucket drive is overloaded due to an excess of mixing material or if the mix is too viscous. Reduce the amount of mixing material and allow the motor to cool down. The start again.

If the mixing tool motor switches itself off, check the length of the carbon brushes. They switch themselves off automatically. Check the carbon brushes for ease of movement and clean, if required.

## Care and maintenance

**The mixer must always be disconnected from the power supply by pulling the mains plug prior to any maintenance and cleaning work.**

Clean the machine immediately after use. Never clean with running water. Placing some wet sand in a bucket can help clean the mixing tool. Allow to run briefly and the mixing tool will be clean.

Ensure the machine and control elements are kept clean and fully functional. Regularly grease moveable parts with ESSO EP 2 or Mobilux EP 2.

Replace damaged or bent machine parts.

The ventilation openings on the mixing tool drive must be kept clean and clear to ensure sufficient cooling. Blocked ventilation openings will lead to the destruction of the device.

The mixing tool drive has carbon brushes that switch off automatically. The machine switches off when the minimum length is reached. Ensure carbon brushes are replaced by a qualified electrician.

Repairs or functional faults to the electric system must only be carried out by authorised workshops.

Worn mixing buckets should only be replaced with the Collomix original mixing bucket, Art. no. 60403. Correct functioning is only guaranteed with this bucket.



## Repair

Have repairs on the electrical system only performed by expert personnel or Collomix Factory Service. Only use original Collomix accessories and spare parts.

### DANGER

#### **Danger to life due to dangerous electrical voltage**

Never open the covers or safety devices of the machine. Repairs may only be performed by trained expert personnel. After repair completion, verify and document the proper condition of all safety devices and the electrical equipment.



Do not reconstruct, change or remove safety-relevant parts!

**Additional add-ons may not impact safety and must be approved by the manufacturer.**



## Disposal

The device, accessories and packaging should be disposed of in an environmentally friendly way. Do not dispose of in household waste.

Electric devices do not belong in the household waste. Non-functional equipment can be recycled at public collection centres for electrical waste.



## Warranty

The manufacturer grants a 24 months warranty covering manufacturing and material defects for this device. Please enclose proof of purchase with a warranty claim.

Any warranty and liability claims are excluded in the case of personal injuries and/or material damage, if they are caused by one or several of the following causes:

- Unintended use of the machine
- Improper commissioning, operation and maintenance of the machine
- Damage due to excessive contamination and/or insufficient cleaning.
- Unauthorised structural changes of the machine
- Improperly performed repairs and/or use of third-party spare parts.

## Declaration of EC Conformity

We hereby declare on our sole authority that this product complies with the following standards or normative documents: EN 12100, EN 60204-1; EN 60745-1:2009; EN 60745-2-1:2010; EN 55014, EN 61000-3-2; EN 61000-3-3  
as per the provisions of Directives 2014/30/EU, 2006/42/EC, 2011/65/EC



Gaimersheim, 20/04/2016  
Alexander Essing, Executive Management

Technical documentation to be requested from”  
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