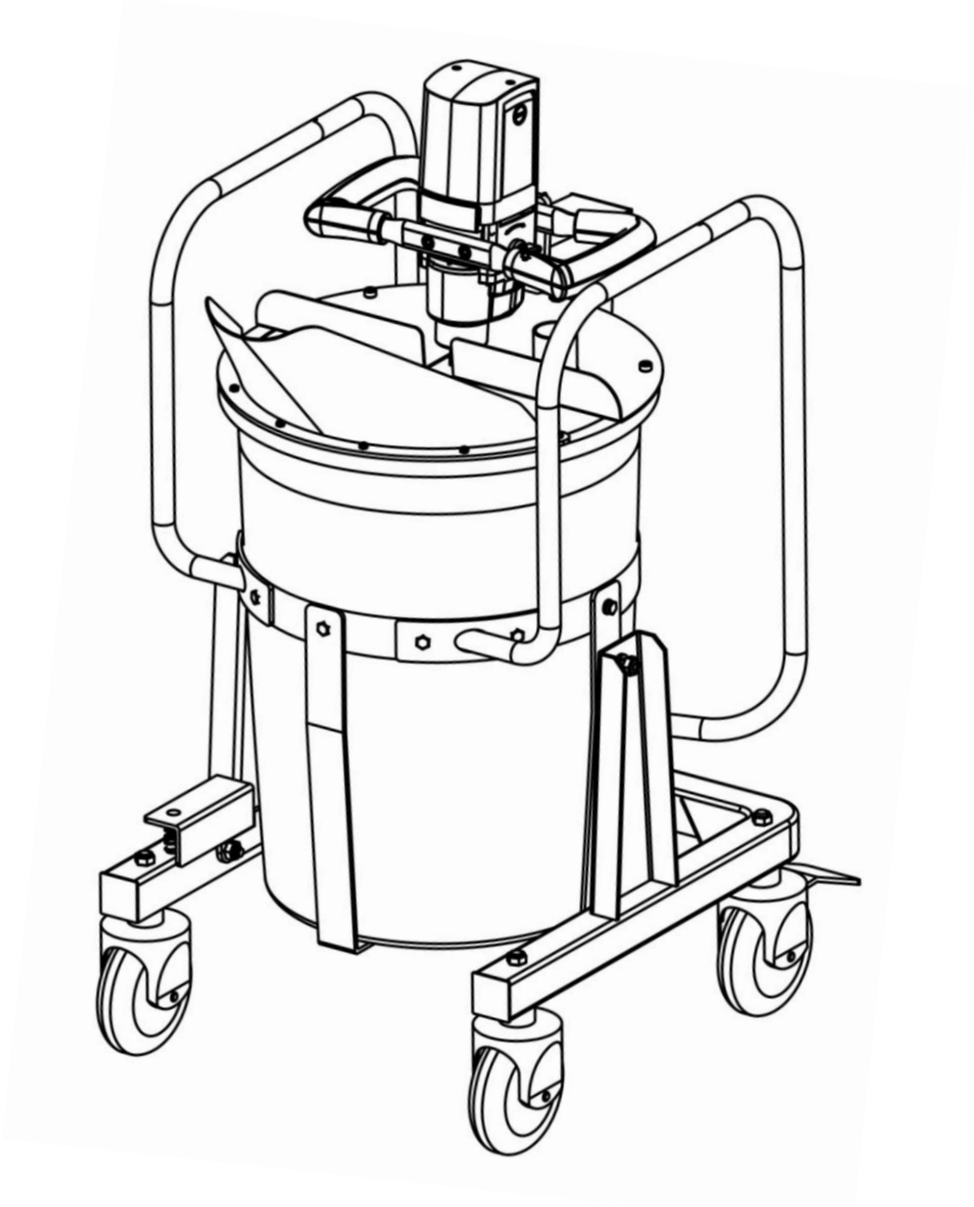
INSTRUCTION MANUAL

Mixing Station CLEVER II

with Stirring Device R1900 – 230 V
with Stirring Device R1800 – 120 V

Order-No.	**111 253 000**	**- 230V**
Order-No.	**111 253 500**	**- 120V**



This manual contains important information for safe use and handling of this vacuum cleaner. Disregard of this manual before start up, use and maintenance may cause damage or danger to persons or material. The USER must be trained in using the machine – before any use. This manual must be stored with the machine, accessible to all users.

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CONTENT

1. SAFETY INSTRUCTIONS

SYMBOLS

WARNING
The following show symbols used for the machine. Be sure that you understand their meaning before use.

To reduce the risk of injury read the instructions manual carefully before use

Danger: Risk of injury and equipment damage.

Wear strong work clothes.

WARNING Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Save all warnings and instructions for future reference.

1) WORK AREA SAFETY

a) Keep work area clean and well lit.
Cluttered or dark areas invite accidents.

b) Do not operate the mixer in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. The mixer create sparks which may ignite the dust or fumes.

c) Keep children and bystanders away while operating machine. Distraction can cause you to lose control.

PRECAUTION
Keep children and infirm persons away. When not in use, machine should be stored out of reach of children and infirm persons.

1. SAFETY INSTRUCTIONS

2) ELECTRICAL SAFETY

a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.

b) Avoid body contact with earthed or grounded surface, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

c) Do not expose the mixer to rain or wet conditions. Water entering mixer will increase the risk of electric shock.

d) Do not abuse the cord. Never use the cord for Carrying, pulling or unplugging the mixer. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.

e) Use only extension cables with sufficient cable cross-section (at least 2.5 mm^2). If the cable cross-section is too weak, this can lead to excessive loss of performance and overheating of the device and cable.

When operating a mixer outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.

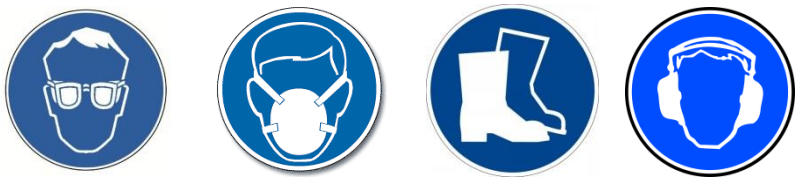
f) If operating a mixer in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

1. SAFETY INSTRUCTIONS

3) PERSONAL SAFETY

a) Stay alert, watch what you are doing and use common sense when operating a mixer. Do not use a mixer while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating mixers may result in serious personal injury.

b) Use personal protective equipment. Always wear eye protection. Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.



c) Keep handles and grasping surfaces dry, clean and free from oil and grease. Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

4) SERVICE

a) Have your machine serviced by qualified repair person using only identical replacement parts. This will ensure that the safety of the machine is maintained.

INTENDED USE

The device is suitable for mixing of low-viscosity, self-leveling floor coatings, cement- based leveling and leveling compounds up to a quantity of approx. 70 liters.

Observe the processing guidelines of the material manufacturer.

The use of chemical products or solvents can affect the properties of the mixing tub and the machine.

Check before use, whether the products to be mixed are compatible with the properties of the machine.

The device is NOT suitable for processing food or highly viscous materials (e.g. concrete screed).

2. PRODUCT INFORMATION

2.1 SPECIFICATIONS

Stirring device	R1900	R1800
Order-No.	111 252 100	111 252 550
Power Supply	230 V	120 V
Motor Power	1900 W	1800 W
Speed	1 gear: 150-300 rpm 2 gear: 300-650 rpm	
Tool holder	M 14	
Stirrer / Ø	H27 / 300 mm	
Weight	8,0 kg	
Protection class	II /	

Stirring Station	CLEVER
Dimensions	720 x 570 x 1120 mm
Capacity	85L
	4 bags levelling compound à 25 kg corresponds to approx. 60 L mixing qantity ≙ approx. 130 kg
Empty weight	41 kg

2.2 APPLICATION

Compact, robust mixing station with good balance when pouring the self levelling compound, even with larger mixing volumes.

Suitable mixing materials
Mainly for cement self-leveling, and materials with good liquidity

Mixer with 2-speed gearbox and infinitely variable speed setting.

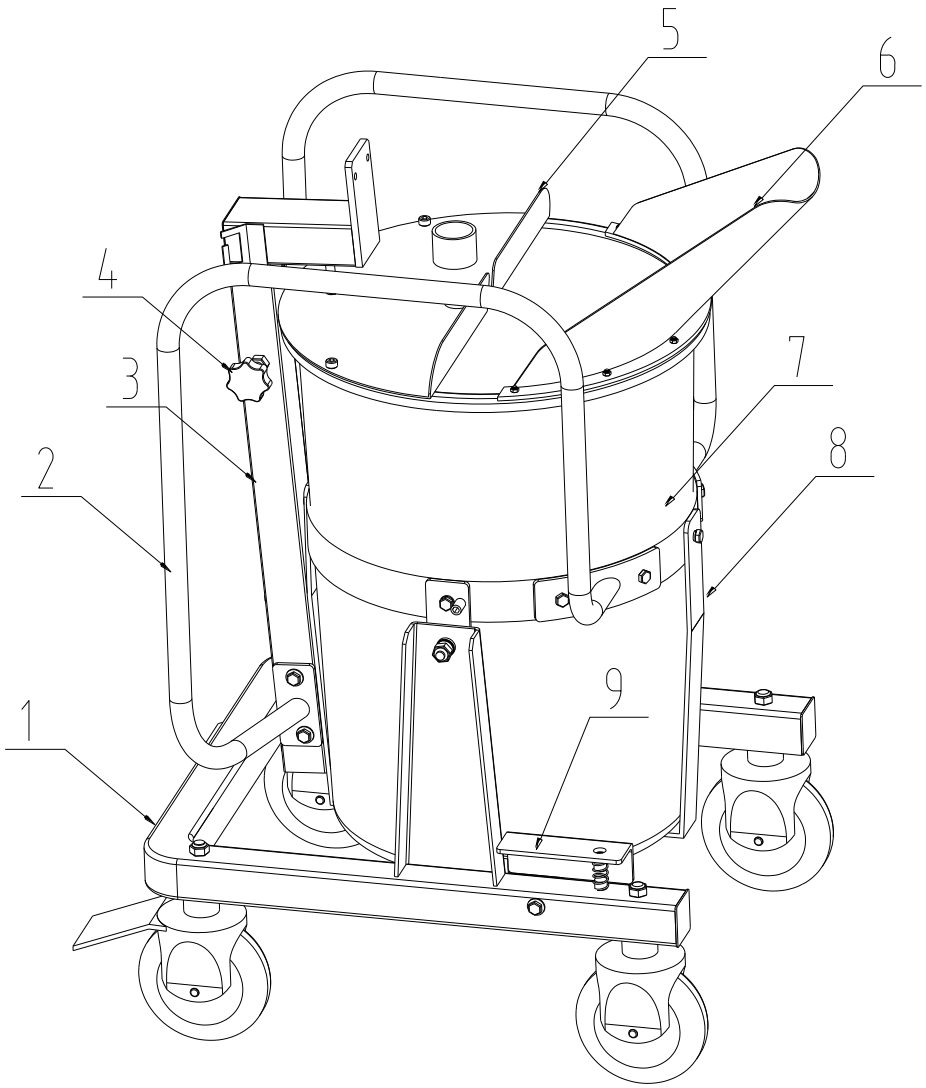
2.3 STANDARD ACCESSORIES

comes complete with special stirrer H27 and mixing bucket 85 L

1 x Special stirrer H27 Order-No. 111 252 050
1 x Mixing bucket 85 L Order-No. 111 253 150
2 x wrenches-for mounting the stirrer
4 x stop nuts for wheel mounting

2. PRODUCT INFORMATION

2.4 CONTROL ELEMENTS

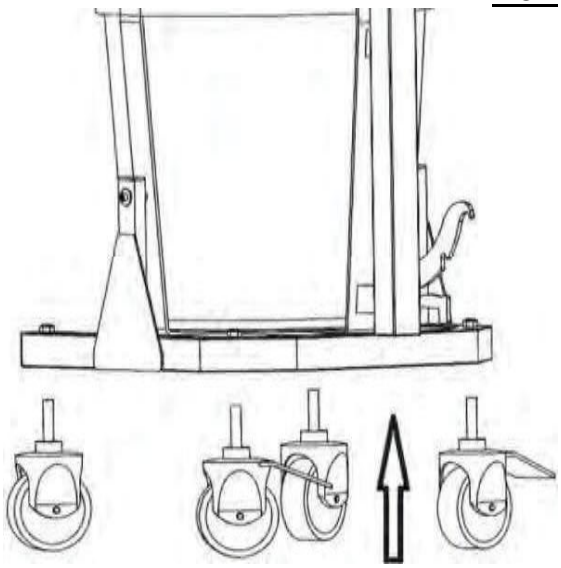


No.	Part list
1	Base bracket
2	Operating handle
3	Support tube
4	Plum blossom knob
5	Dust cover plate (optional)
6	Pour material mouth
7	Mixing barrel
8	Barrel hoop
9	Pedals

3. PREPARATION

STEP 1

FIG 1



WHEEL MOUNTING

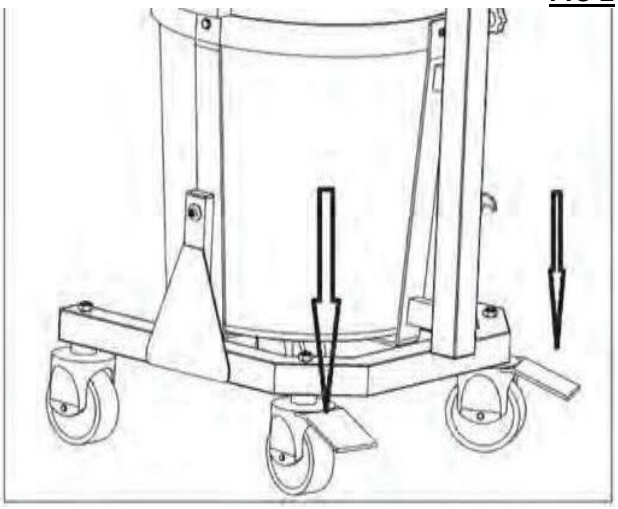
As shown in FIG 1,

2 x wheels with brake at th back
2 x wheels with no brake at the front

Use locking nuts to mount and fix the wheels

STEP 2

FIG 2

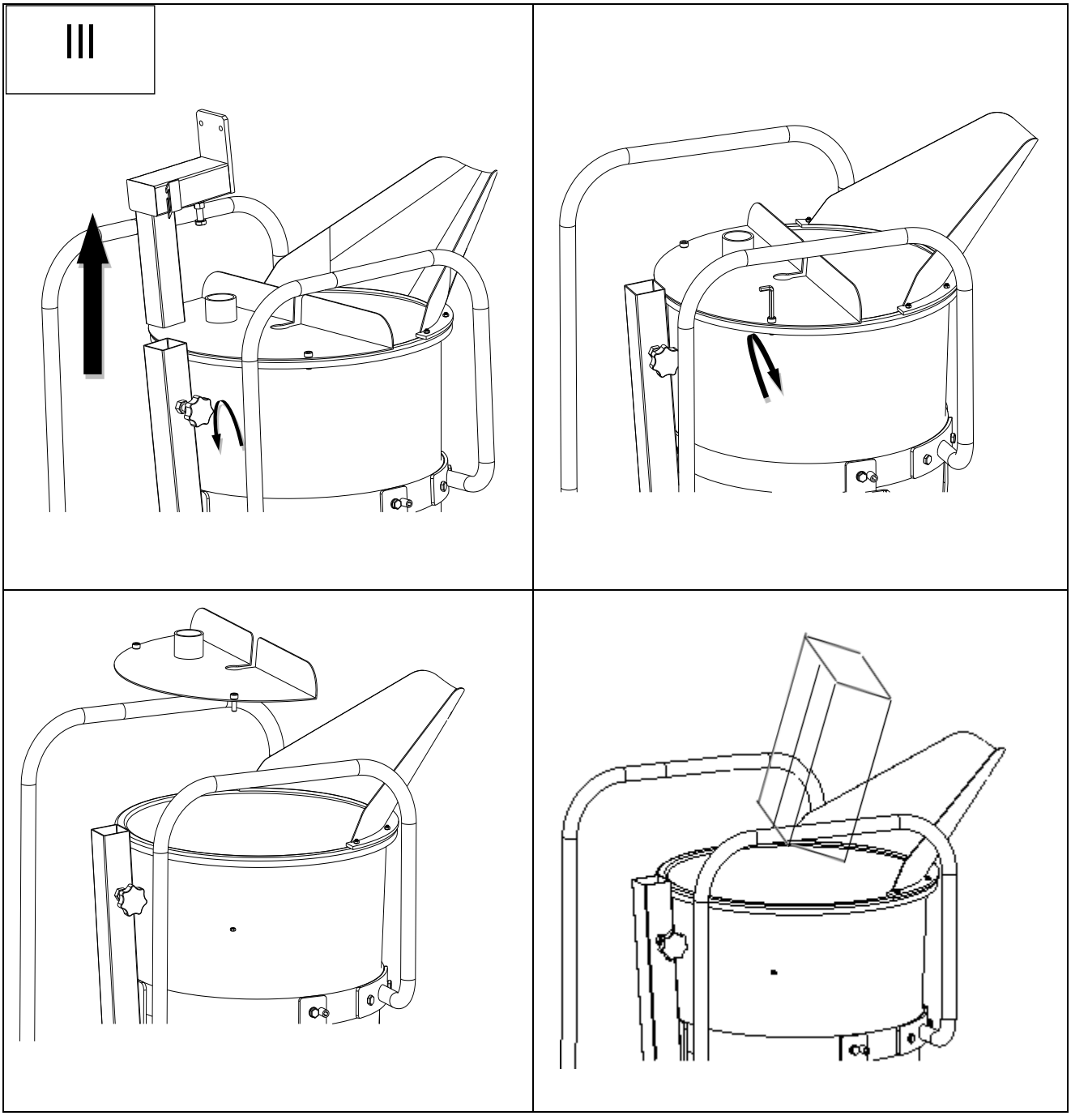


FIX THE MIXING STATION

as shown in FIG 2,

Press down the pedal of the universal wheel to lock the wheels.

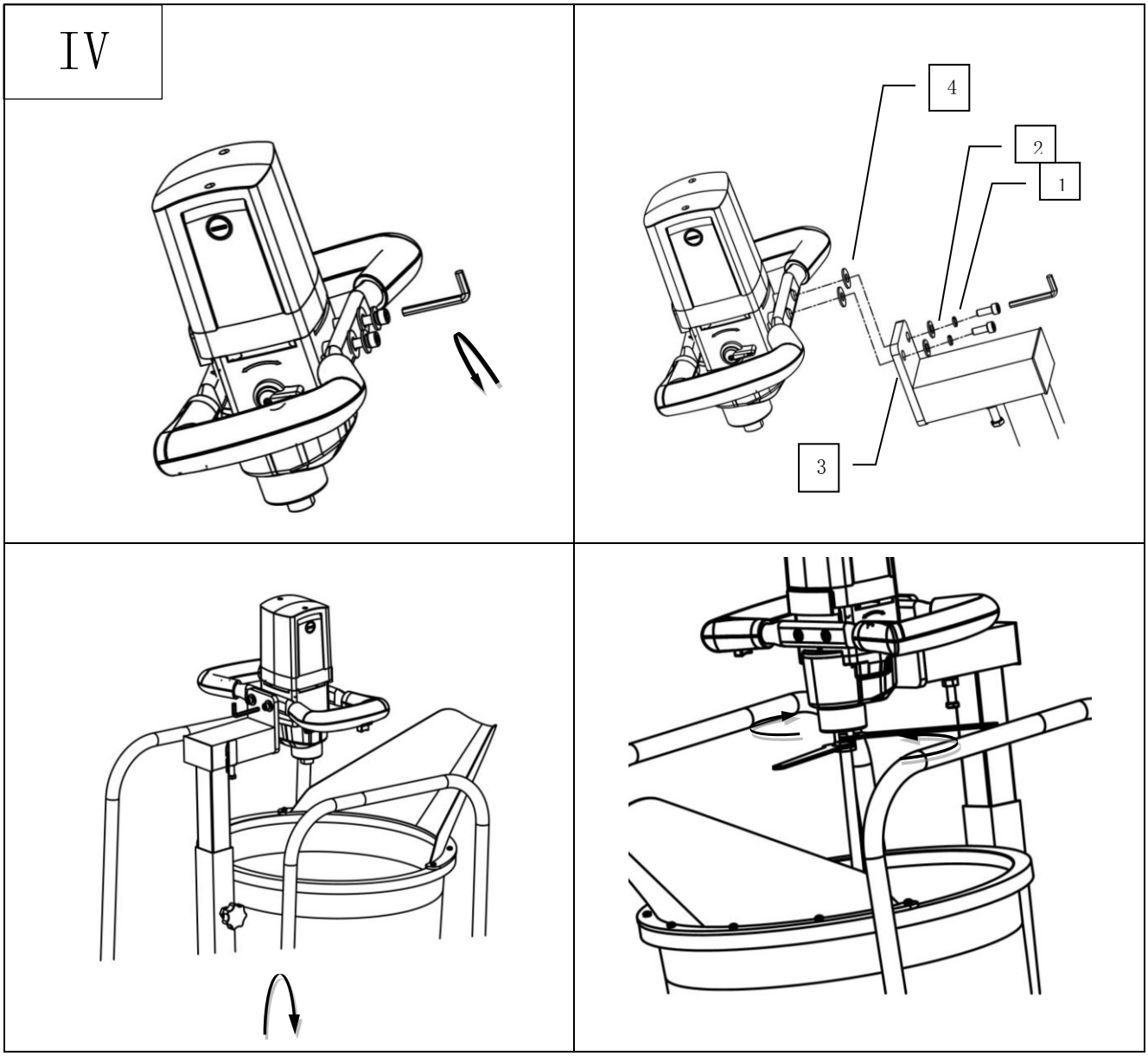
3. PREPARATION



Step 3: As shown in figure III,

1.) disassemble the junction plate firstly,
2.) disassemble the dust over by the socket head wrench,
3.) Take outer the mixer carton from the barrel.

3. PREPARATION



Step 4: As shown in figure IV,

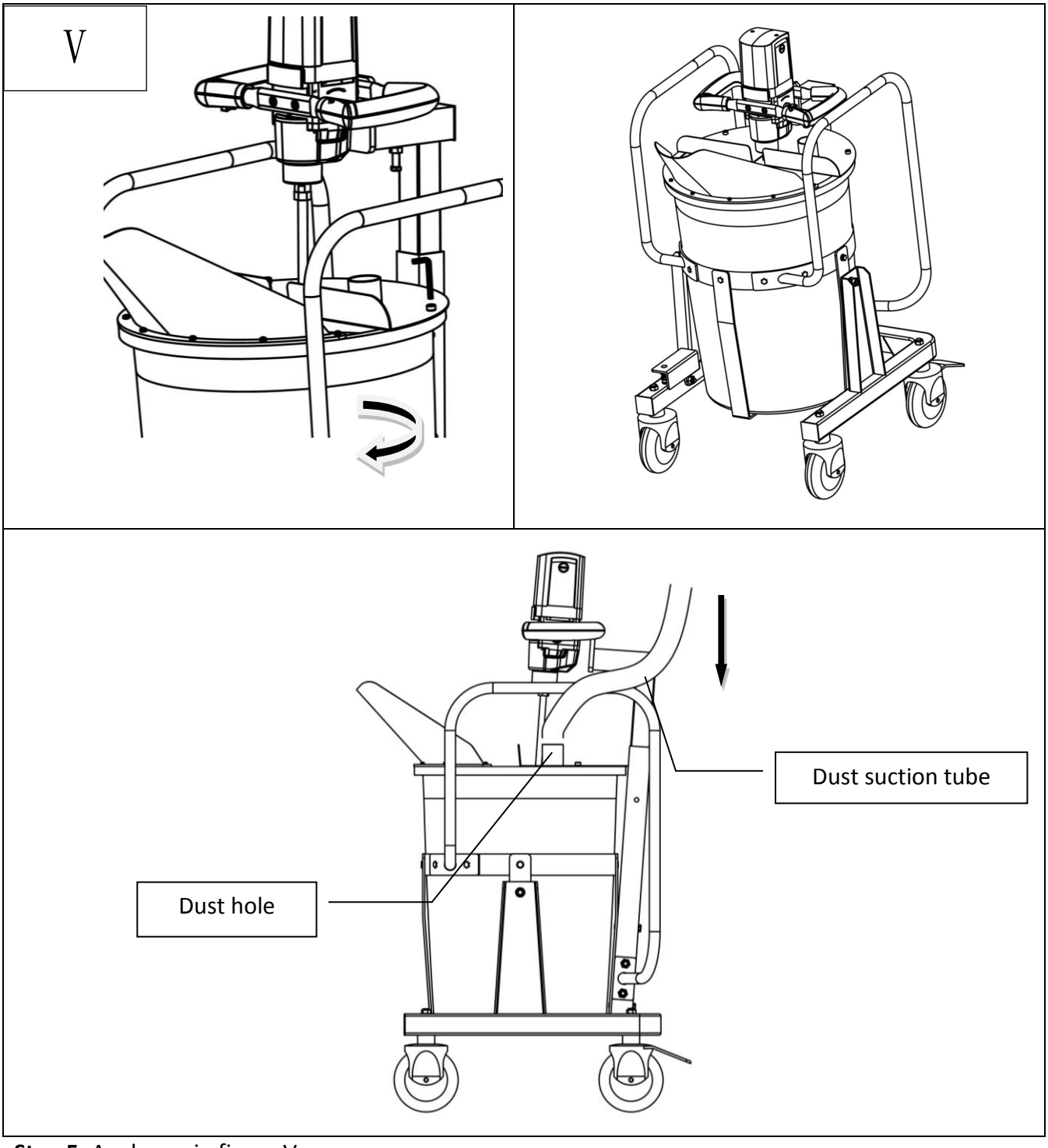
1.) take out the inner hexagon screw from the mixer,

2.) assemble the mixer to the junction plate in order of 1~4 as shown in the diagram and tighten by the socket hexagon wrench. (1-ϕspring washing, 2-ϕfalt washing, 3-junction plate, 4-2mm washer).

3.) Put back the junction plate with mixer to the station, tighten the knob.

4.) Install the paddle to the mixer, use the open-end wrench to lock the mixing paddle and the mixer in the direction shown

3. PREPARATION



Step 5: As shown in figure V,

1.) Put back the dust cover as the figure showes, tighten the screws by the socket head wrench.

2.) Connect the dust hole of the mixing station with the dust suction tube of the external vacuum cleaner in the direction of the arrow

4. OPERATION

4.1 INSTRUCTIONS FOR SAFE USE

Safe work with the instrument is only possible after you read thoroughly this manual for use and maintenance and observe precisely the here specified instructions.

Observe also other safety directions that are a part of each instrument delivery.

PERSONAL PROTECTION

- Wear work clothes and the recommended protective equipment.
- Take care of long hair and fashion accessories,
  work in properly buttoned garments without free-flowing parts.
- Take care that take a safe and firm stand at work.
- Use the supplementary handle
- Consider possible reaction torque.

WORKING ENVIRONMENT

- Check the Instrument should not be operated in clamp, wet premises, during a rain, fog and snow in the open, and in environment with a risk of explosion.

- Ensure that the mixing station is placed in a firm and secure position.
  A mixing station that is not properly secured may move unexpectedly.

- Take protective measures when dust can develop during working that is harmful to one´s health, combustible or explosive. Example: Some dusts are regarded as carcinogenic. Wear a dust mask and work with dust extraction.

ELECTRICAL SAFETY

- If the mixer falls into the material to be mixed, unplug the tool immediately and have the mixer checked by a qualified repair person. Reaching into the mixing container with the tool still plugged in can lead to electric shock.

SECURITY AGAINST UNINTENDED START

- Before putting the plug in the mains socket the switch should be in the “off” position.

- Turn off the machine if it stops for any reason. In this way you avoid the sudden start in the unattended condition.

4. OPERATION

4.1 INSTRUCTIONS FOR SAFE USE

MATERIAL

- Follow the instructions and warnings for the material to be mixed. Material to be mixed can be harmful.
- Avoid splashing mixed material.
- Do not work with materials containing asbestos. Asbestos is considered carcinogenic.

WORK PROCEDURE

- The mixer must be firmly fixed. Loss of control can cause personal injury.

- Ensure sufficient ventilation when mixing flammable materials to avoid a hazardous atmosphere. Evaporative gas may be inhaled or be ignited by the sparks the mixer produces.

- Keep the cord away from the working area. Always direct backwards the cord from the device The cord should not be exerted by tensile stress and should not lie on or pass over sharp edges.

- Never let the device mix unsupervised. Pull the mains plug and check that the switch is switched off if the mixer is left unattended, e.g. during assembly and dismantling work, in the event of a voltage drop, when inserting or installing an accessory.

- When parking and stirring the mix, the device must always be secured using the two castors with brake.

- Ensure that no liquid splashes against the housing of the mixer. Liquid that has penetrated the mixer can cause damage and lead to electric shock.

- Do not reach into the mixing container with your hands or insert any other objects into it while mixing. Contact with the stirrer may lead to serious personal injury.

- Make sure that the cable is not tangled by the stirrer.

- Do not reach into rotating parts.

- Do not reach into the container with long objects.

- Take material samples only when the device is at a standstill and the mains plug is pulled.

4. OPERATION

4.2 STARTING OPERATION AND USE

Improper use may damage the device.

Observe therefore these instructions:
-Use a stirrer up to the specified diameter max Ø 300 mm.
-Load the device in such a way that the speed would not drop considerably or that it would stop.

Check if the data on the rating plate correspond with the actual mains voltage.
The device´scheduled for 230V can be plugged to 220V/240V mains.

4.3.1 Fixing a stirrer:

Screw tools with thread M14X2 as far as possible in the tool mount and tighten properly with an open-end wrench (22mm) from among the accessories.

4.3.2 Switching on and off:

By pressing the switch button the device is brought into operation and it stop when is relieved.

4.3.3 Permanent run:

By pressing the switch button o the stop and simultaneous pressing the arresting pin permanent run is achieved. By subsequent pressing and relieving of the switch button the permanent run is interrupted.

4.3.4. Remove the stirrer:

Fit a flat open-end wrench (22mm) on the hexagon end of the tool (whisk) and unscrew the tool from the spindle by turning it to the left.

4. OPERATION

4.3 ELECTRONIC MOTOR CONTROL

4.4.1 Starting current limiting:
The electronically controlled smooth start takes care that the machine starts without jerk. In this manner, the splashing of thin liquid materials is prevent at the same time when switching on the machine. As a result of the machine´s reduced starting current, a 16A fuse is sufficient

4.4.2 No-load speed reduction:
The electronic control reduces the no-load speed of the machine which results in reduced noise and wear of motor and gear.

4.4 3 Speed pre-selection:
With the speed control, the speed can be continuously pre-selected. The necessary speed is dependent on the type of material to be mixed. It is recommended that it be confirmed. With a practical trial.

4.4.4 Speed selection
Two rpm ranges can be preselected with the speed selector switch (6).
Speed 1: 150 min – 300 rpm
Speed 2: 300 min – 650 rpm

The necessary speed depends on the type of the material mixed and it is recommended to verify it by practical test.

4.4.5 Constant Electronics
The constant electronic keeps the Speed between no-load and load nearly constant and ensure uniform mixing of the materials.

4.4.6 Electronic overload protection:
In case that the machine is extremely overloaded, an electronic overload protection protects the motor from damage. In this case, the motor stops and restarts only after the feeding pressure is reduced.

4.4.7 Temperature-dependent overload protection
To protect the motor from overheating at extreme permanent load, it is switched off by the protective electronic system when a critical temperature is reached. After a cooling-down period of approx. 3-5 min. the machine is again ready for use and can be fully loaded.

When the machine is warmed by use, the temperature-dependent overload protection reacts earlier as a result.

4. OPERATION

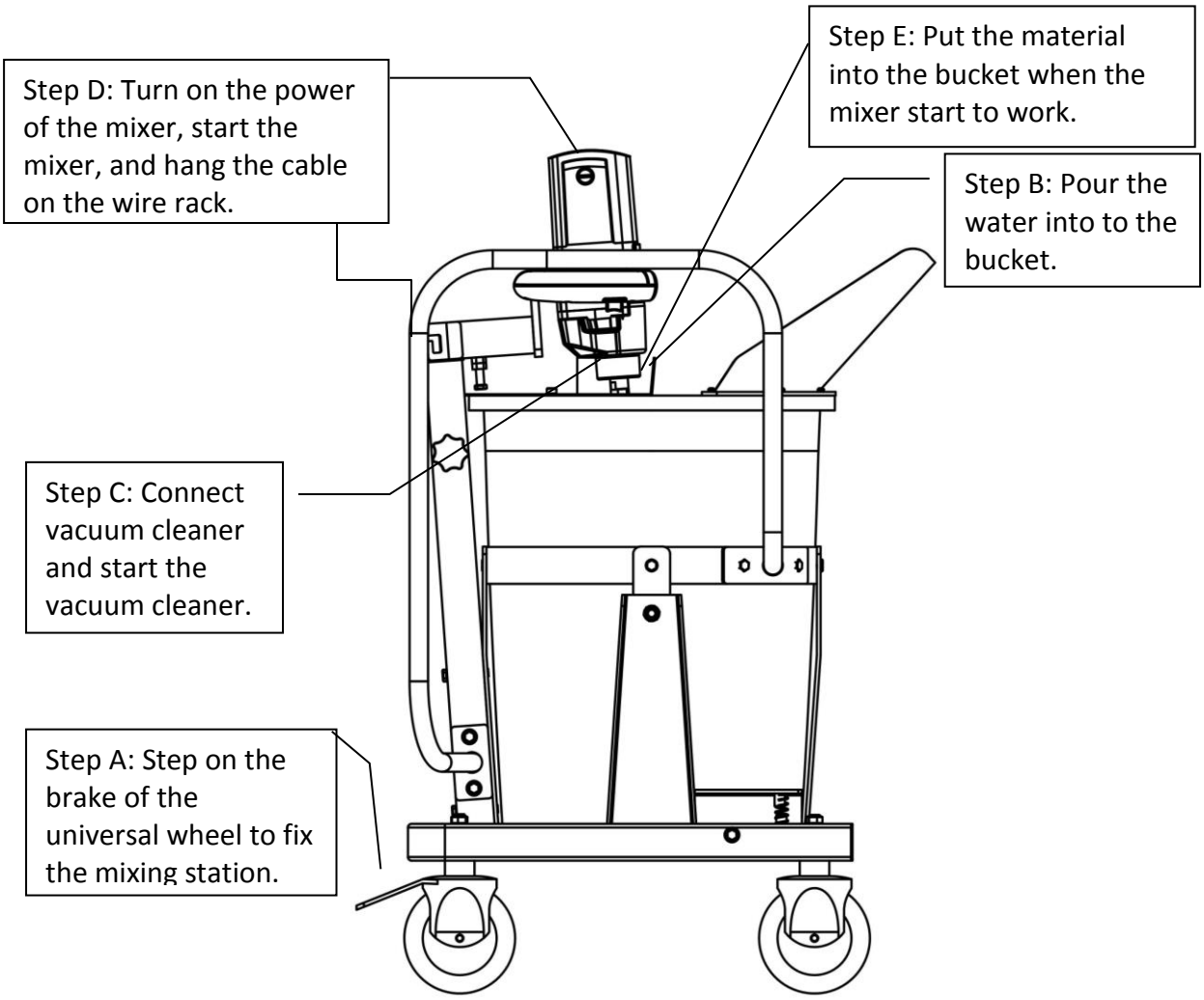
4.4 MIXING PROCESS

BEFORE MIXING PROCESS

- Lock the lifting arm firmly on the chassis.
- Secure the transport rollers using the parking brake.

MIXING PROCESS

- Always pour water into the mix first
- Always start the device when it is empty or only filled with water
- Fill the mix through the opening while the machine is running.
- Depending on the material, start at a low speed and increase the speed after all components have been filled
- Place the device on an even ground.



As shown in figure below follow the steps to complete the operations from A to D in sequence to complete the mixing operation of the mixing station.

4. OPERATION

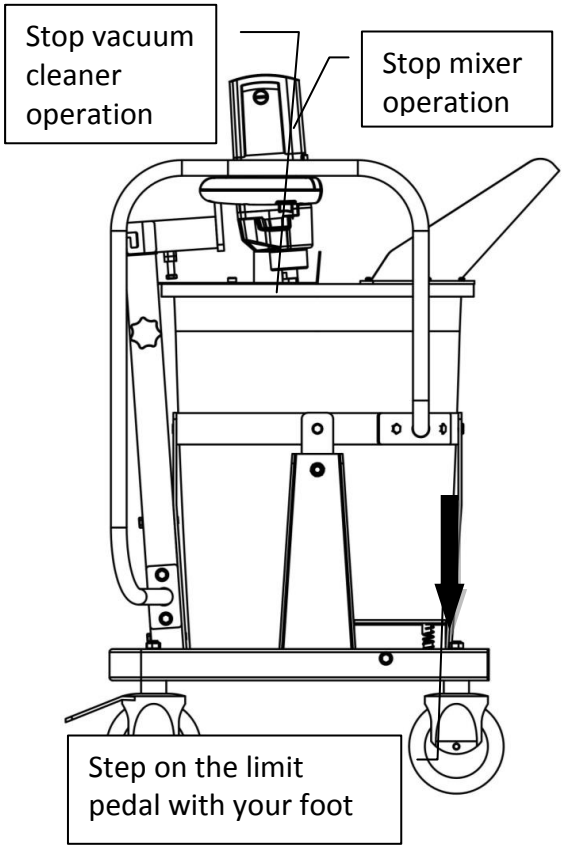
4.5 POUR OUT MIXTURE

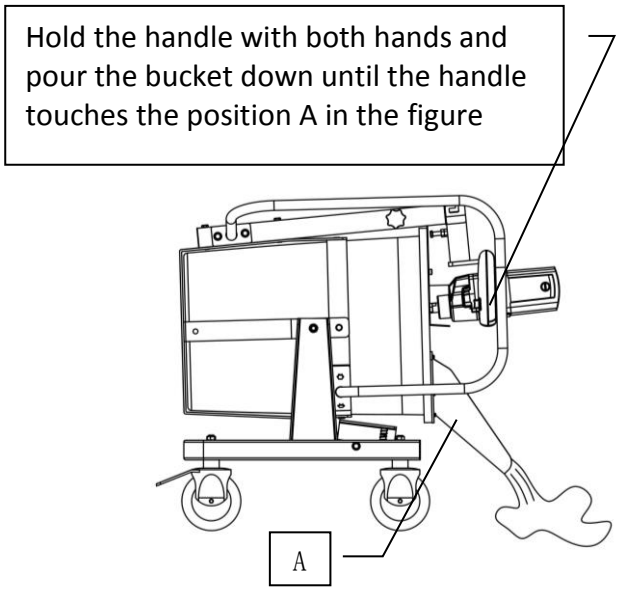
DISCONNECT THE PLUG BEFORE POURING OUT
Lock the cable on the cover in the cable holder.

- Release the brake on the transport wheels.
- Move the device to the pouring point using the handle and lifting arm.
- To tip over push the release pedal with your foot
- Tilt the mixing bucket forward on the handle until the mix flows over the pourer.
- To distribute the mixture, drive the device in the desired direction.
- To keep the wheels clean, always drive away from the poured mixture.
- After the pouring process, straighten the mixing bucket until the unlocker engages again.

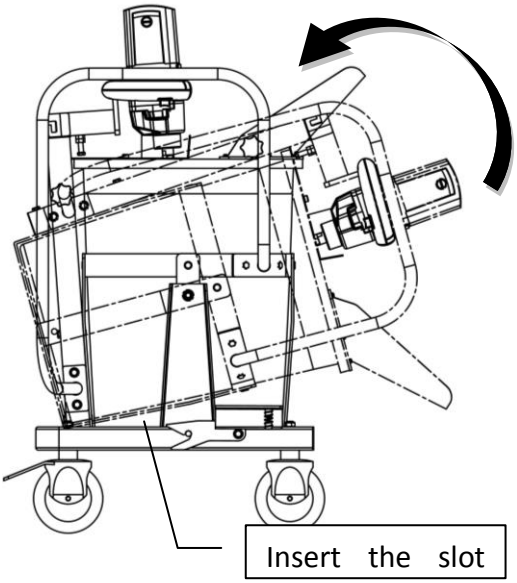
Always hold the handles firmly with both hands.

NEVER LIFT MIXING BUCKET IN FILLED CONDITION OUT OF THE CHASSIS!!





Pour the material after tilting to a suitable angle



After pouring, hold the handle to return the bucket to the right position, and restore the cylindrical pin to the slot as shown in the figure

5 TRANSPORT

The device can be moved effortlessly thanks to the four stable transport rollers.
To prevent unintentional rolling away, two castors can be secured with a brake.

6 STORAGE

The unit should be stored in a dry place where it is protected against freezing.

7 DISPOSAL

Do not open worn out machines and return to the collection facilities for recycling.

8 MAINTENANCE

- The ventilation slots on the motor casing should be cleaned out from tie to time.

- When the carbon brushes are worn out, the machine switches itself off.
  The machine must then be sent to customer services for maintenance
  (see enclosed sheet)

- After approx. 100 hours of operation, check the motor brushes and replace if necessary. Clean the motor housing.

- After approx. 200 hours of operation, renew the grease filling in the gearbox.

To verify thet the protective insultation remains intact machine must be subjected to a technical safety test afterwards. For this reason, this work must be performed exclusively by a professional electro electro-workshop.

DECLARATION OF CONFORMITY

We

Maschinen- und Gerätebau
Böblinger Straße 91
71139 Ehningen
GERMANY

declare under our responsibility that the product

Machine type	Stirring Station with Stirring device R1900/R1800
Model:	CLEVER II
Order no.	111 253 000 / 111 253 500

comply with the EU-Directrive

Machinery directive 2006/42/EC
EMC directive 2014/30/EU

in accordance with with following standards

EN ISO 12100:2010
EN 60745-1:2009/A11:2010
EN 55014-1: 2017
EN 55014-2:2015
EN IEC 61000-3-2:2019
EN 61000-3-3:2013/A1/2019

Ehningen, August 2021

Signatory:

O. Janser

Olaf Janser, managing director