

Made in Germany



SABA, a strong bond

# SABA Universal Mixer

Item number 12057

## Operating Manual

according to the EC Machinery Directive 2006/42/EC dated 24 April 2006



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# Operating Manual

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## 1. Use in conformity with intended purpose

### Overview

This chapter contains the following sub-chapters

**1.1** Information about the described machine

**1.2** Information about the manufacturer and contact person

SABA universal mixer is suitable for mixing polysulphides.

The machine must not be used with other materials. Depending on the material to be used, please coordinate the most suitable machine accessories with the manufacturer.

### 1.1 Information about the described machine

This operating manual applies to the following machine:

Machine: **SABA universal mixer**

Year of manufacture: **December 10**

Date of issue: **December 10**

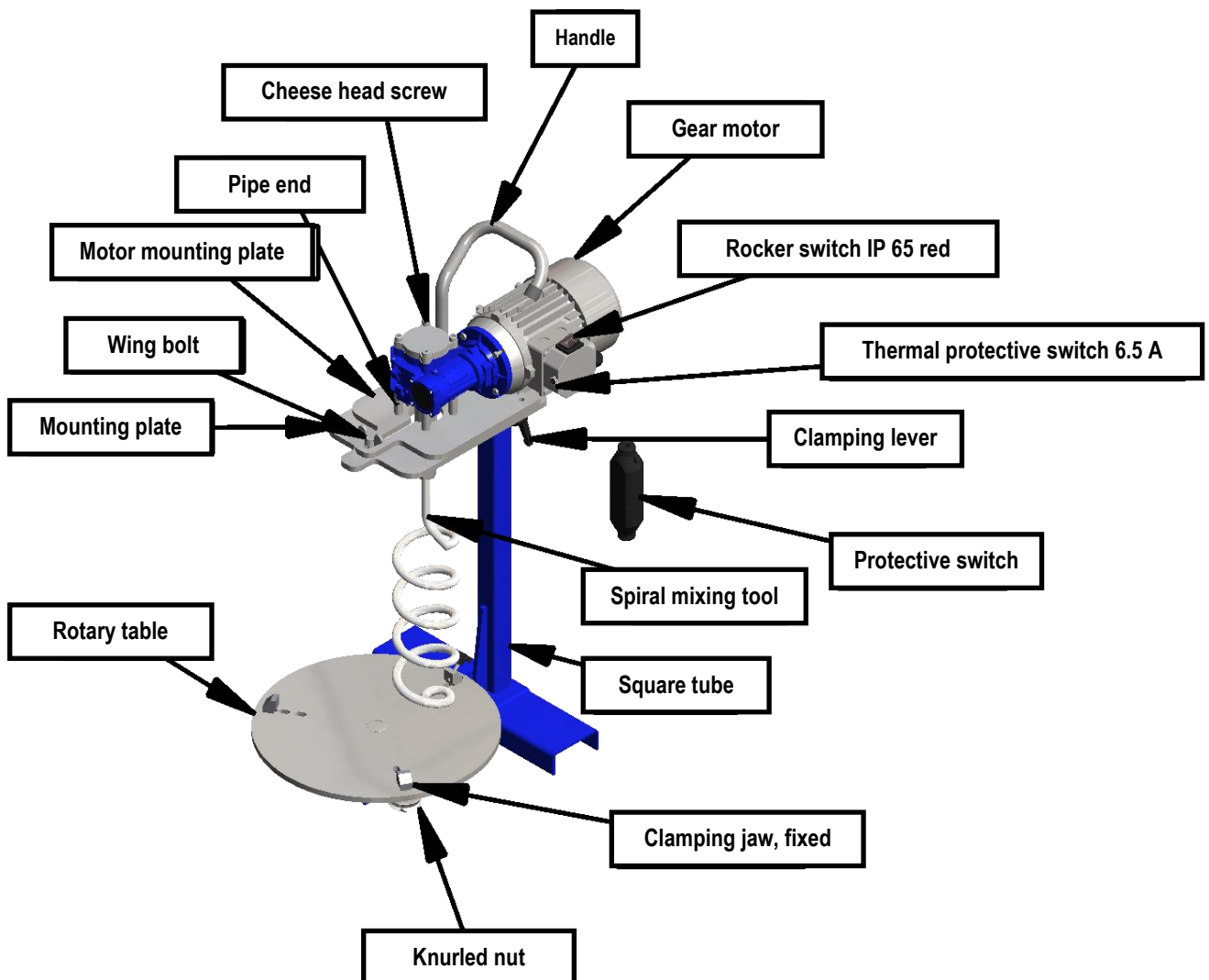
## 2. Description of SABA universal mixer

### Overview

This chapter contains the following sub-chapters

- 2.1 Overview of SABA universal mixer
- 2.2 Technical data
- 2.3 Scope of delivery
- 2.4 Use in conformity with intended purpose
- 2.5 EC Declaration of Conformity

### 2.1 Overview of SABA universal mixer



## 2.2 Technical data of SABA universal mixer

Connection value	230 V / 50 Hz
Weight	approx. 47 kg
Length/width/height in cm	40/40/100 cm
Motor output	0.75 kW
Speed	ca. 100 rpm

## 2.3 Scope of delivery

- Drive
- Framework
- Spiral mixing tool
- Protective switch
- Clamping jaws with mounting material

### Information about airborne sound:

The sound pressure level was measured at the workplace to be 63 dB (A) at a distance of 1 m in a free-field measurement during operation under full load (at no load without material, 68 dB (A)).  
If the sound pressure level at the workplace exceeds 80 dB (A); noise protection measures are required for the operator.

#### Noise generation

The indication of the noise emission values is based on DIN 45635 Part 21 DIN EN 27574 (ISO 7574).

Sound power level ( $L_{WAc}$ ) (94+3) dB re 1 pW workplace-related emission value ( $L_{pA}$ ) 84 dB at no load according to DIN 45635 – 21 – KL 2

Sound power level ( $L_{WA}$ ) 88 dB re 1 pW workplace-related emission value ( $L_{pA, zykl}$ ) 79 dB while running with a dummy load according to DIN 45 635 – 21 – KL 2



**Wear ear defenders.**

## 2.4 Use in conformity with intended purpose

### Definition of "Authorised person"

A person is regarded as authorised person if such person has been entrusted with particular work tasks on or with SABA universal mixer and has been accordingly instructed on such work.

SABA universal mixer and the operating manual are intended exclusively for industrial use.

The machine may not be commissioned or used by private users. In the following, "operator" of SABA universal mixer designates any person who installs, commissions, operates, maintains or dismantles the machine. Every operator of SABA universal mixer must read the entire operating manual carefully before installing, maintaining, commissioning, operating or dismantling the machine. It must be ensured that the operator has completely understood this operating manual and always conducts himself in accordance with the instructions and recommendations in it. The operator of SABA universal mixer should therefore repeatedly carefully read this operating manual at regular intervals. The operating company is responsible to ensure that the operators of SABA universal mixer are trained for their tasks. Every operator needs a basic understanding of electrical and mechanical engineering. The operating company must ensure that the operators have completely read and understood this operating manual, that they can put into practice the contents of this operating manual and that the contents of the operating manual are complied with fully. This operating manual must be passed on to the third party, if SABA universal mixer is passed on to a third party (sale, loan...). It is not allowed to pass on SABA universal mixer without operating manual.

SABA universal mixer can be considered to be used in conformity with intended purpose only if the following points are followed:

- SABA universal mixer is used for mixing polysulphides.
- The setting parameters are adjusted to the relevant material and the conditions.
- The machine may only be used with the safety devices installed.
- Compliance is required with the safety and operating instructions in this manual.
- Compliance is required with the data in the safety data sheets of the materials used.
- Compliance is required with the operating instructions of the owner/operator.
- Compliance is required with the legal accident prevention regulations.

### Usage not in conformity with intended purpose

The following is considered as usage not in conformity with intended purpose in the meaning of a foreseeable misuse:

All changes to the work sequence or the process which are not approved by the responsible employee; the operation of the machine with modified, removed or bypassed safety devices and the operation of the system by personnel who have not been instructed accordingly or by unauthorised persons.



## 2.5 EC Declaration of Conformity



### EC Declaration of Conformity In accordance with the Machinery Directive 2006/42/EC

Manufacturer:                DESOI GmbH  
                                    Gewerbstraße 16  
                                    36148 Kalbach/Rhön

Documentation  
authorised signatory:    Tobias Hartung

We hereby declare that the machine

Designation                SABA universal mixer  
  
Type:                         RW-T  
  
Item no.:                    12057

is in conformity with the relevant regulations of the Machinery Directive 2006/42/EC as well as with the Devices and Product Safety Act – GPSG (2006).

Kalbach, 29 December 2009

A handwritten signature in black ink, appearing to read "Siegfried Desoi".

Siegfried Desoi  
Managing Director

A handwritten signature in black ink, appearing to read "Michael Engels".

Michael Engels  
Managing Director

- × Original Declaration of Conformity
- Translation of the Declaration of Conformity

## 2.6 Warranty

For 12 months from the invoice date, we warrant, for the

### **SABA universal mixer**

a guarantee for all shortcomings that relate to material or fabrication defects.

Seals and wear parts are excluded from the scope of the warranty. Damage caused by improper handling or overload, use of force, modification or own repair attempts, shall be excluded from warranty.

The warranty will be rendered null and void in case of non-compliance with the operating manual, the use of unsuitable materials, insufficient cleaning and maintenance, as well as improper handling.

The machine should only be opened to the extent directed in the operating manual. Only trained specialised staff may open or disassemble the machine to a further extent.

Should you really have operating problems at some stage, please call us or explain your fault in a fax. We would be happy to help.

## 3. Fundamental safety information

### Overview

This chapter contains the following sub-chapters

- 3.1 The safety symbols used
- 3.2 The safety devices
- 3.3 Basic types of danger
- 3.4 Due diligence obligation of the owner/operator
- 3.5 Requirements for the personnel

### A note in advance:

The following basic safety instructions should be understood to be a supplement to the national accident prevention specifications and laws already in force.

This means that apart from these basic safety instructions, you must, in any cases, also comply with the existing accident prevention specifications and laws.

## 3.1 The safety symbols used



### **DANGER!**

This symbol indicates that there are basic dangers for the health of persons  
Attention is drawn to any possibility of fatal danger with the word "DANGER TO LIFE"!



### **DANGER!**

This symbol indicates that there are electrical dangers for the health of persons owing to the presence of electrical voltages.  
Attention is drawn to any possibility of fatal danger with the word "DANGER TO LIFE"!



### **ATTENTION!**

This symbol indicates that damage or danger can arise for SABA universal mixer, the material or the environment.

## 3.2 The safety devices

### Safety devices

SABA universal mixer has been equipped with the following safety devices which under no circumstances may be removed or manipulated.

- Protective housing
- Earthed safety socket plug
- Thermostatic switch
- Personal safety switch

Always ensure trouble-free working of the safety devices.

**SABA universal mixer must not be operated with faulty safety devices!**

### Cover/protection:

The machine may only be erected on even ground in a stable manner, it must not be able to overturn or roll away. The wheels, supports or the substratum must not sink into the ground. The machine may only be installed where no objects can fall on the machine. If that is not possible, the machine must be secured with a protective roof.

The machine must be installed in such a way that the operating elements are freely accessible.

## 3.3 Basic types of danger

### Contents

Here, you can find information on the basic safety instructions for the safe handling of SABA universal mixer .



### Danger of injury

This symbol indicates that there are basic dangers for the health of persons

- Immediately report damaged pipes or components to the maintenance personnel.
- Maintenance and repair work may only be carried out by trained maintenance personnel.
- Before every work shift, the machine must be examined for obvious defects visible to the naked eye. If any defects are spotted, they must be rectified before starting work.
- Personal protection: wear eye protectors, protective clothing, protective gloves, barrier cream, if required, and respirators for protecting your eyes, skin and respiratory tracts.
- Keep children and unauthorized persons away from the machine.
- Care should be taken that humans and animals are not endangered during operation.
- **ATTENTION!!!** Never reach out with your hands in the material container or the outlet while the machine is running.



### Danger of injury from electrical shock

This symbol indicates that there are electrical dangers for the health of persons owing to the presence of electrical voltages.

- Connection to the mains network only through a fault current protection switch (FC switch).
- Only expert electrical personnel should be allowed to carry out any work and repairs on the electrical equipment of the machine. The electrical equipment should be checked regularly. Faults such as loose connections or scoured cables must be put right immediately.
- Use only approved and correspondingly marked extension cables. Always completely unwind cable drums if used.
- Device connection with extension cables at 230V = 3 x 2.5 mm<sup>2</sup>
- Do not spray the machine with a water jet, especially not with high-pressure or steam high pressure cleaners. There is a danger of short circuit due to the ingress of water.
- Upon completion of the work, or for opening the machine, the machine has to be switched off and the mains plug pulled. This secures the machine against accidentally getting switched on again.
- Protect the cables from sharp edges, heat and oil. Never use the cable to pull the plug from the mains socket.
- The electronic equipment of the machine is not explosion-protected and therefore may not be used in rooms with explosive atmospheres.
- Before any repair and cleaning work (opening the machine), you always have to depressurise the machine.
- Do not use the fingers or any other parts of the body to try to get into the electrical connections or in the machine. **Danger of electric shock!!!**



## ATTENTION!

This symbol indicates that damage or danger can arise for SABA universal mixer, the material or the environment.

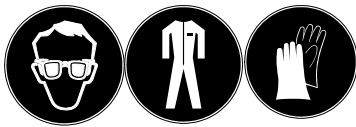
- It is not allowed to make changes to SABA universal mixer, since otherwise the warranty protection will be rendered null and void and the function of SABA universal mixer might be impaired or disturbed.
- If you intend to modify the SABA universal mixer version as delivered or if you intend to repair the machine in case of need, please always use original spare parts, retrofitting parts or accessories and/or components which have been manufactured according to drawings approved by us.
- In case of use of any third-party accessories and spares, any liability of the manufacturer is excluded.
- Upon receiving the machine, check the packaging and examine the machine for transport damage.
- Pay attention to the hardening time of the material during work pauses. Hardened or very solid material can result in damage to the machine.
- Before transporting, the machine should be cleaned and switched off.
- Cleaning of the machine may only be done with chemically compatible media. The temperature of cleaning agents must not exceed 50 °C.
- After the first two hours of operation, all screwed connections of the entire machine must be examined and retightened if necessary. Afterwards perform the aforesaid steps every 25 hours of operation.
- The cleaning work should be carried out daily at the end of the work, or every 8 hours at the latest.
- Do not reach out with your hands in the running machine. Danger of injury.
- Do not introduce any objects into the container or the running machine.
- Do not wear loose clothing or jewellery, since these could be caught by the moving machine parts.
- For all materials, safety data sheets in which instructions for correct handling are given must be obtained from the manufacturer. The persons operating the machine must be trained in safe operating procedures, understand the limits of the devices used and if required, wear protective eyewear / protective clothing.

## 3.4 Due diligence obligation of the owner/operator

SABA universal mixer was designed and built after taking into consideration a hazard analysis and after careful selection of the harmonised standards to be complied with, as well as other technical specifications. It is thus state-of-the-art and guarantees a high level of safety. This safety can only be achieved in operational practice, however, if all the measures required for the purpose are taken. It is part of the due diligence obligation of the owner/operator to plan these measures and monitor their execution.

In particular, the owner/operator must ensure that

- SABA universal mixer is only used in conformity with its intended purpose.
- The system is only used in an excellent, functional condition and in particular the safety devices are regularly checked for operational reliability.
- The required personal protective equipment for the operating, maintenance and repair personnel is available and used the operating manual is always complete and in a legible condition and is kept at the place of use of the system.
- Only sufficiently qualified and authorised personnel operate, maintain and repair the system
- These personnel are regularly instructed on all relevant questions regarding occupational health and safety and environmental protection and are familiar with the operating manual and in particular with the safety instructions contained in it.
- This operating manual should be kept at the machine.
- It must be ensured that all persons who carry out any activity on the machine can consult the operating manual at any time. Supplementary to the operating manual, the operating instructions in the meaning of the Labour Protection Act and the Operating Equipment Usage Ordinance should be provided. All safety information signs operating instruction boards must always be kept in an easily readable state. Damaged boards or boards that have become unreadable must be replaced immediately.



The owner/operator must make it mandatory for operators to wear protective eyewear, gloves and protective clothing.

## 3.5 Requirements for the personnel

Every operator of SABA universal mixer must read the entire operating manual carefully before installing, maintaining, commissioning, operating or dismantling the machine. It must be ensured that the operator has completely understood this operating manual and always conducts himself in accordance with the instructions and recommendations in it. The operator of SABA universal mixer should therefore repeatedly carefully read this operating manual at regular intervals. The operating company is responsible to ensure that the operators of SABA universal mixer are trained for their tasks. Every operator needs a basic understanding of electrical and mechanical engineering.

## 4.0 Transport

### Overview

This chapter contains the following sub-chapters

#### 4.1 Dimensions and weight

### 4.1 Dimensions and weight

Height / width / length in cm	100 / 40/ 40 cm
Weight	ca. 45 kg

## 5. Erection

### Overview

This chapter contains the following sub-chapters

- 5.1 Specifications for ambience
- 5.2 Assembly

### 5.1 Specifications for ambience

- The machine may only be erected on even ground in a stable manner, it must not be able to overturn or roll away.
- The wheels, supports or the substratum must not sink into the ground.
- The machine may only be installed where no objects can fall on the machine. If that is not possible, the machine must be secured with a protective roof.
- The machine must be installed in such a way that the operating elements are freely accessible.
- Compliance is required with the relevant accident prevention regulations as well as the other familiar safety-relevant and occupational health rules.
- The machine may only be operated by suitable, reliable persons (device operators) appointed by the operating company, have been instructed in the operation and maintenance of the machine and are familiar with the method of operation of the machine.
- The company must provide suitable personal noise protection equipment if the evaluation level at the workplace is above 80 dB.
- The employees must wear the noise protection equipment from a noise level of 85 dB onwards.
- The operating manual must always be kept at the machine.

### 5.2 Assembly

SABA universal mixer comes ready assembled and ready for use.

After the assembly, all the machines are subjected to a quality test during which all functions are checked. The details of mixture ratios, preparation conditions, processing time and precautions of the material manufacturers must be observed at all costs.



## 6. Commissioning

### Overview

This chapter contains the following sub-chapters

- 6.1 Supply connections
- 6.2 Preparations for the first start
- 6.3 Performing the first start
- 6.4 Checks after the first start

### 6.1 Supply connections

#### Electrical connections

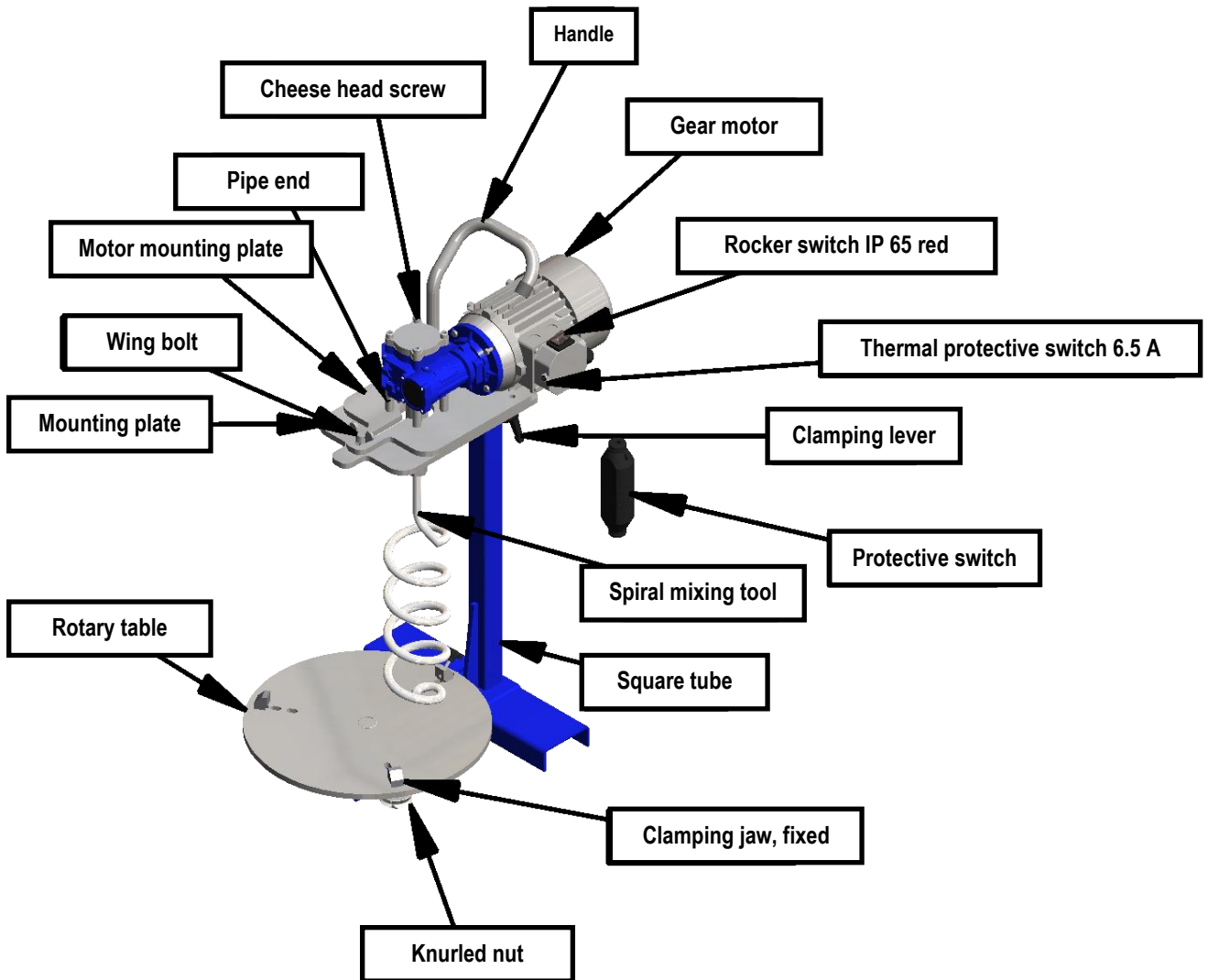


SABA universal mixer is operated with a mains voltage of 230 Volts and 50 Hz.

- E1. Connection to the mains network only through a fault current protection switch (FC switch).
- E2. Only expert electrical personnel should be allowed to carry out any work and repairs on the electrical equipment of the machine. The electrical equipment should be checked regularly. Faults such as loose connections or scoured cables must be put right immediately.
- E3. Use only approved and correspondingly marked extension cables. Always completely unwind cable drums if used.
- E4. Device connection with extension cable at 230 V = 3 x 2.5 mm<sup>2</sup> and 400 V = 5 x 2.5mm<sup>2</sup>.
- E5. Do not spray the machine with a water jet, especially not with high-pressure or steam high pressure cleaners. There is a danger of short circuit due to the ingress of water.
- E6. Upon completion of the work or for cleaning and maintenance work, or for opening the machine, the machine should be switched off and the mains plug pulled. This secures the machine against accidentally getting switched on again.
- E7. After 25 operating hours, all the threaded joints should be checked and tightened if required.
- E8. Protect the cables from sharp edges, heat and oil. Never use the cable to pull the plug from the mains socket.
- E9. The electronic equipment of the machine is not explosion-protected and therefore may not be used in rooms with explosive atmospheres.
- E10. Before any repair and cleaning work (opening the machine), the mains plug must always be pulled.

## 6.2 Preparations for the first start

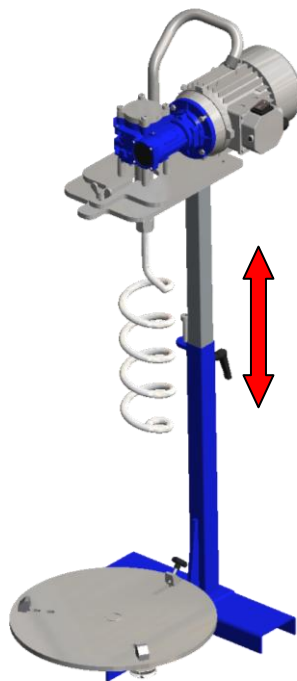
SABA universal mixer may only be installed where no objects can fall on the machine. If that is not possible, the machine must be secured with a protective roof.



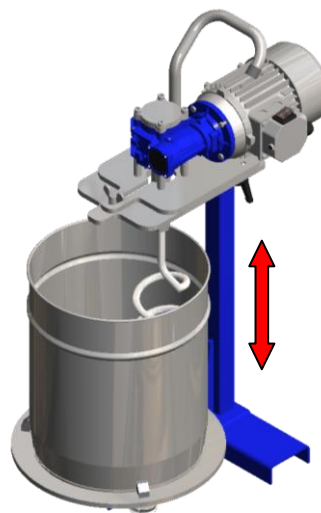
## 6.3 Performing the first start

The electrical SABA universal mixer is delivered ex works in an assembled and ready-for-use condition. After the assembly, all the machines are subjected to a quality test during which all functions are checked. The details of mixture ratios, preparation conditions, processing time and precautions of the material manufacturers must be observed at all costs.

1. Connect the mains plug to the 230V power supply socket.
2. Switch the safety device to the operating condition by pressing the green button on the personal safety switch.
3. Loosen the clamping lever and pull the complete mixer in an upward direction.
4. Place the material container onto the rotary table and adjust the clamping jaw to the container diameter.
5. Center and clamp the material container by means of the clamping jaws.
6. Lower the mixer.
7. Clamp the mixer by means of the clamping lever in the desired position.
8. Switch on the mixer by means of the red rocker switch.



Extended = position for loading



Working

position



Caution: Please pay attention to the processing time of the materials used! Stiffened or rigid material causes damage to the pump and the movable parts.



**IMPORTANT NOTE!!!**  
Use the detergent prescribed by the material manufacturer at all costs.



Caution: Danger of crushing

## 6.4 Checks after the first start

After the first start, check the correct setting of the desired material parameters. Check the settings that have been made.

## 7. Operation

### Overview

This chapter contains the following sub-chapters

- 7.1 Permissible operating stations
- 7.2 Maintenance of SABA universal mixer
- 7.3 Accessory for SABA universal mixer



### 7.1 Permissible operating stations

Operation of SABA universal mixer may only be done directly on the machine. Please observe the generally applicable occupational health regulations and safety regulations.

#### Important note!

All the other places are not necessary for the operation of the machine and therefore not approved.

### 7.2 Maintenance of SABA universal mixer

The drive unit has been designed in such a manner that only a minimum of care and maintenance is required. Regularly perform the following work and regularly check the following components:

- The drive unit and all connections must be kept clean.
- Neither foreign objects nor humidity may be brought inside the electrical device.

### 7.3 Accessory for SABA universal mixer

#### General

- Replacement spiral mixing tool
- Replacement clamping jaw
- Replacement knurled nut

Item no.:  
12057-004  
12057-008  
12057-009

## 8. Servicing of SABA universal mixer

### Overview

This chapter contains the following sub-chapters

- 8.1 What you must remember
- 8.2 Visual inspection
- 8.3 Cleaning

### 8.1 What you must remember

#### Fundamentals

Only perform maintenance and cleaning work if SABA universal mixer has been switched off and the mains plug has been pulled off. Report every fault, every leak or damage immediately to the maintenance personnel. All maintenance and upkeep work may only be carried out by personnel trained to do so.

- After the first two hours of operation, all screwed connections of the entire SABA universal mixer must be examined and retightened if necessary. Afterwards perform the aforesaid steps every 25 hours of operation.

### 8.2 Visual inspections

#### Contents

This section informs you about regular inspections required to ensure the functional performance of SABA universal mixer .

Regular visual inspections:

- Defects that can be seen externally – daily before starting work
- Checking cables and inflow pipes for damage – daily before starting work

If any defects are spotted, they must be rectified before starting work.

## 8.3 Cleaning

### Contents

This section informs you about regular cleaning steps required to ensure the functional performance of SABA universal mixer. Dirt accumulation can always lead to operational disorders. Therefore clean the mixer after each mixing process.

Most of the manufacturers indicate the detergent (cleaning agent) suitable for cleaning the machine so that the machine is carefully cleaned. In some cases water is to be used for cleaning.

Never clean motor and control unit of the machine with a high-pressure or steam blasting cleaner. There is a danger of short circuit due to the ingress of water.

Disconnect the machine from the mains supply prior to cleaning and disassembling it.



Never clean the machine with a high-pressure or steam blasting cleaner. There is a danger of short circuit due to the ingress of water. Protect the electrical components of the device against splashing water.

Never allow material to stand in the machine – always completely evacuate the material and clean the machine.



### **IMPORTANT NOTE!!!**

Use the detergent prescribed by the material manufacturer at all costs.

### Maintenance instructions

The electrical equipment should be checked regularly. Faults such as loose connections or scoured or defective cables must be put right immediately. Only expert electrical personnel should be allowed to carry out any work and repairs on the electrical equipment of the machine.

## 9. Shutdown

### Overview

This chapter contains the following sub-chapters

- 9.1 Temporary shutdown
- 9.2 Final shutdown
- 9.3 Disposal

### 9.1 Temporary shutdown

#### Contents

The following measures are necessary for shutting down SABA universal mixer .

- Clean SABA universal mixer and all accessories as described.
- Separate the connection to the electrical energy source (pull the plug).

### 9.2 Final shutdown

#### Contents

This section shows the measures required to permanently shut down the SABA universal mixer .

Only trained specialised staff is allowed to finally shut down the machine.

- Thoroughly clean SABA universal mixer and all accessories as described.
- Preserve SABA universal mixer and the material hoses.
- Separate the connection to the electrical energy source (pull the plug).

### 9.3 Disposal

#### Contents

This chapter informs you about the disposal of SABA universal mixer .



Dispose of all the parts of SABA universal mixer in such a manner that harm to the health or the environment will be excluded.

You can get special instructions for disposal:

- From the documentation and the data sheets of the vendors
- From your environment officer in charge.

## 10. Additional information

### Overview

This chapter contains the following sub-chapters

10.1 Service addresses

10.2 Spare parts drawing of SABA universal mixer

10.3 Spare parts list of SABA universal mixer

### 10.1 Service addresses

This chapter informs you about the service addresses.

Service provided exclusively by:

DESOI GmbH  
Gewerbestraße 16  
36148 Kalbach/Rhön

Tel.: +49 6655 9636-0  
Fax: +49 6655 9636-6666  
E-mail: [info@desoi.de](mailto:info@desoi.de)  
Internet: [www.desoi.de](http://www.desoi.de)



## 10.2 Parts list

Pos.	Quantity	Nomenclature
1	1	Lower part of framework
2	1	Upper part of framework
3	1	Motor plate
4	1	Spiral mixing tool
5	1	Rotary table
6	1	Receptacle
7	1	Clamping jaw M6
8	2	Clamping jaw, fixed
9	3	Knurled nut
10	4	Pipe end
11	1	Drive shaft
12	1	Cover
13	1	Washer AØ35
14		
15	1	Gas-filled spring device
16	1	Star handle
17	1	Clamping lever
18	1	Tube locking cap 1/2"
19	1	Gear motor
20	2	Grooved ball bearing
21	4	Cheese head screw M8
22	1	Cheese head screw M8
23	1	Cheese head screw M10
24	4	Countersunk-head screw M8
25	1	Countersunk-head screw M8
26	2	Wing bolt M10
27	3	Hexagonal nut M8
28	1	Hexagonal nut M10
29	1	Hexagonal nut M16
30	1	Washer
31	2	Washer
32	1	Washer
33	3	Headless set screw M8
34	1	Feather key
35	1	Rocker switch, red
36	1	Protective switch
37	1	Protective switch

10.3 Assembly drawing

