



ICE CRUSHER
AK/14 - AK/14 EXTRA
OPERATION & MAINTENANCE MANUAL





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ICE CRUSHER AK / 14 - AK / 14 EXTRA

1. INTRODUCTION

Thank you for choosing «**JOHNY - IOANNIS KIOSIDIS & CO INC**» for your ice crusher purchase.

Our perennial experience and specialization on the manufacturing of professional electrical equipment attributes to the appliances we produce, an excellent quality, an excellent quality, easy handling, up-to-date technology, resistance in time and above all safe operation and maintenance.

This manual refers to the installation, use and maintenance of the **AK/14** and **AK/14 EXTRA Johnny** ice crusher. They are made for professional use in coffee shops, hotels and restaurants for the conversion of ice cubes into crushed ice. The **AK/14** and **AK/14 EXTRA Johnny** ice crusher can process all types of ice cubes usually produced by most ice-cube machines or freezers (solid, square, tubular, hollow, etc). Their reliable systems will fully meet your needs for many years.

2. SYMBOLS USED



This safety symbol is followed by message relative to dangers that should be taken into consideration for the avoidance of an accident.



This symbol is followed by a message referring to information, which is reported in the present or in an accompanying handbook and should be taken into consideration.



This symbol is followed by a suggestion.

When meeting the above symbols we should be more careful to avoid accidents or pay attention to important points regarding to the operation and should carefully read the message that follows.

3. INTRODUCTION TO THE MANUAL

We strongly recommend you to read this manual carefully before the first use. We prepared it in order for you to reach maximum performance through installation and operation.

«**JOHNY – IOANNIS KIOSIDIS & CO INC**» do not have any responsibility for accidents or damages caused by carelessness or disobedience to the instructions of the specific manual. The company also does not have any responsibility for damages caused by inappropriate use of the ice crusher.



ATTENTION! The present manual is an integral part of the **AK/14** and **AK/14 EXTRA Johnny** ice crusher and should always accompany them in every transfer or resale. The staff should always keep it in safe place. The staff is also responsible to store and keep the manual in good condition, so that one can refer to it during the appliance's lifetime. In case of damage or loss ask for a new copy from your supplier.



Store the manual to an ideal place close to the appliance and make it known to whom it may concern.



ICE CRUSHER AK / 14 - AK / 14 EXTRA



Never neglect to read the manual, no matter your previous experience. Few minutes of study might save you from losing time or wasting money.



Read carefully before you proceed to the start up, use, maintenance or other interventions over the appliance and follow with precision the instructions and the warnings reported below.



Only authorized and properly trained personnel should operate the machine to avoid dangers during the operation of the appliance. A trained person is a sufficiently informed one or supervised by a specialized person.

4. RULES FOR SAFE OPERATION

Disobedience of the following rules could cause an accident or a serious injury:

- ❑ Read the instructions for use and maintenance before first start.
- ❑ To protect against risk of electrical hazards, do not immerse ice crusher in water or other liquids.
- ❑ Never leave children or people with special needs to use the appliance.
- ❑ Unplug from mains power supply when not in use, before assembling or disassembling and before cleaning and maintenance.
- ❑ **Never and for no reason place fingers or other utensils into the feed or discharge areas except if the appliance is out of operation and out of power.**
- ❑ Do not operate the appliance with a damaged cord or plug. Contact your supplier for more information.
- ❑ Always use authentic spare parts of the manufacturing company in order to avoid fire, electro shock or serious injury.
- ❑ Do not use the appliance outdoors.
- ❑ Never leave the cord touching hot surfaces.
- ❑ Do not remove the safety mechanisms of the appliance.
- ❑ Do not tense or overdraw the cord.
- ❑ Do not allow maintenance of the appliance by people not authorized by the manufacturing company. Contact your supplier for more information.
- ❑ Do not make any alterations on the appliance by any means.
- ❑ Do not replace the cord by yourselves.



ICE CRUSHER AK / 14 - AK / 14 EXTRA

5. SAFETY PRECAUTIONS AND GENERAL INSTRUCTIONS

AK / 14 and **AK/14 EXTRA Johny** ice crusher is designed and assembled according to the following directives: **2006/42/EC** about safety of appliances, **2014/35/EC** about low voltage and **2014/30/EC** about electromagnetic compatibility and according to the special standard:

EN 12100-2011 «Safety of appliances – Basic concepts – General principles of design – Part 1: Basic terminology-methodology».

EN 294 «Safety of machinery – Safety distances to prevent danger zones being reached by upper limbs ».

EN 953+A1:2010 «Safety of appliances – Guards – General requirements for the design and the construction of fixed and movable guards».

EN 954-1 «Safety of machinery – Safety related parts of control panel – Part 1: Guide on the use and application».

EN ISO 13849.01 E2:2008 «Safety of appliances – Safety related parts of control panel – Part 1: General principles for design».

EN 1672.02+A1:2010 «Food processing appliances – Basic concepts –Part 2 : Hygiene requirements».

EN 60204.01/A1:2009 «Safety of appliances – Electrical equipment of appliances - Part 1: General requirements».

EN 60529/A1:2000 «Degrees of protection provided by enclosures (IP Code)».

EN 55014-1:2006 : « Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Emission »

EN 55014-2:1997 : « Electromagnetic compatibility. Requirements for household appliances, electric tools and similar apparatus. Emission »

EN 60335-1:2012: « Household and similar electrical appliances. Safety. General requirements»

EN 60335-2-14:2006 : « Household and similar electrical appliances. Safety. Particular requirements for kitchen machines»

EN 62233:2008 : « Measurement methods for electromagnetic fields of household appliances and similar apparatus with regard to human exposure»

With the appropriate maintenance recommended by the manufacturer, operating the ice crusher is safe. But still, as in any appliance, operation could be dangerous if unskilled or careless people perform it. So, training is very important and should be performed by authorized personnel. Operator must have excellent and exact knowledge of the operation.

Withal, all rules for hygiene and safety should be followed strictly and any alteration or adjustment should be performed on the appliance only by specialized personnel.



ATTENTION! The validity of the warranty is straightly connected with the compliance to the specific manual of use and maintenance.



Retain labels on the appliance and replace the damaged or unreadable ones.



ICE CRUSHER AK / 14 - AK / 14 EXTRA

6. MARKING

By the term **marking** we define all the labels and signs, used for the identification of the appliance or spare part types that have been placed by the manufacturer.

Each ice crusher is manufactured with all the safety precautions for the protection of the operator. However some risks still exist and pointed out on the ice crusher through labels. These labels are presented in this manual.

A) MANUFACTURER LABEL & TECHNICAL INFORMATION OF THE APPLIANCE

Manufacturer label and technical information of the appliance are shown at a visible position and contain information of the manufacturing company (address, postal code, telephone, type and model of the device, year of manufacture, serial number, power, voltage and electronic frequency as well as CE marking)

IOANNIS KIOSIDIS & CO. INC.
 16th km Thessaloniki - Serres
572 00 LITI • 
Made in E.U.
ICE CRUSHER

Model :	AK/14	Power :	120 W
V :	230~	Hz :	50
S. No :	0600001		

AK/14 TYPE LABEL

IOANNIS KIOSIDIS & CO. INC.
 16th km Thessaloniki - Serres
572 00 LITI • 
Made in E.U.
ICE CRUSHER

Model :	AK/14 EXTRA	Power :	120 W
V :	230~	Hz :	50
S. No :	0600001		

AK/14 EXTRA TYPE LABEL

ICE CRUSHER AK / 14 - AK / 14 EXTRA

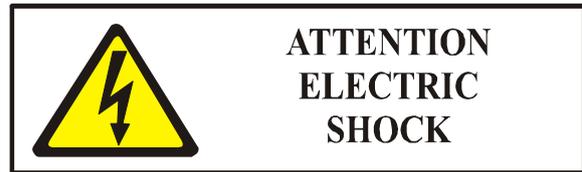
B) MARKING SIGNS

These signs are placed at positions that make them visible and readable. It is recommended to put them at points that present dangers that cannot be logically eliminated or significantly reduced at the designing stage, like moving parts or parts under voltage.

In case of loss or destruction the labels should be immediately replaced



This sign is placed on the package and warns the operator to read the operation instructions before turning on the appliance.



It is placed on the cord's connection point on the appliance and warns the operator for dangers caused from electric power.

7. TRANSPORTATION, INSTALLATION AND CONNECTION

7.1 TRANSPORTATION

AK/14 - AK/14 EXTRA ice crusher is transported packed until first installation. After unpacking the appliance must be carried to the operation post, as it is portable. Net weight is 7.2 kg.



Check for possible damages that may be caused during transportation.

7.2 INSTALLATION

- ❑ The ice crusher has to be placed on a flat, steady and stable surface such as a stable table or a counter so that there is no danger of stability loss while installing.
- ❑ The surface of the operating post should be clean and dry, free from water and oil residues.
- ❑ For power supply earthed plugs must be used connected to a stabile socket cord. Extensions are not recommended.
- ❑ The connection with electrical power suitable for the requirements of the ice crusher should be considered.
- ❑ The operation post should have the appropriate dimensions. Around the machine free space should exist so that nothing prevents the supply, the operation and the maintenance of the appliance.



ATTENTION! Earthed socket is required.



ATTENTION! Voltage of main electric circuit should be compatible with voltage that is declared on the technical characteristics label of the appliance.



ATTENTION! While installing / moving the ice crusher, it has to be unplugged from the mains power supply.



ICE CRUSHER AK / 14 - AK / 14 EXTRA



ATTENTION! Protect the supply cable from possible damages.

Before installation the following information have to be taken into consideration:

- Initial check of voltage and power requirement of the main connection.

In the operation area the following should exist:

- Power supply with the following characteristics: Power supply 230 V, frequency 50 Hz.

7.3 CONNECTION

The appliance has to be connected to the mains power supply socket. The end of the electric cord has a plug that should be connected to a socket with the same characteristics.



The connection cord of 3 x 1,0 mm² diameter has to be protected from mechanical strain which can interrupt its insulation.

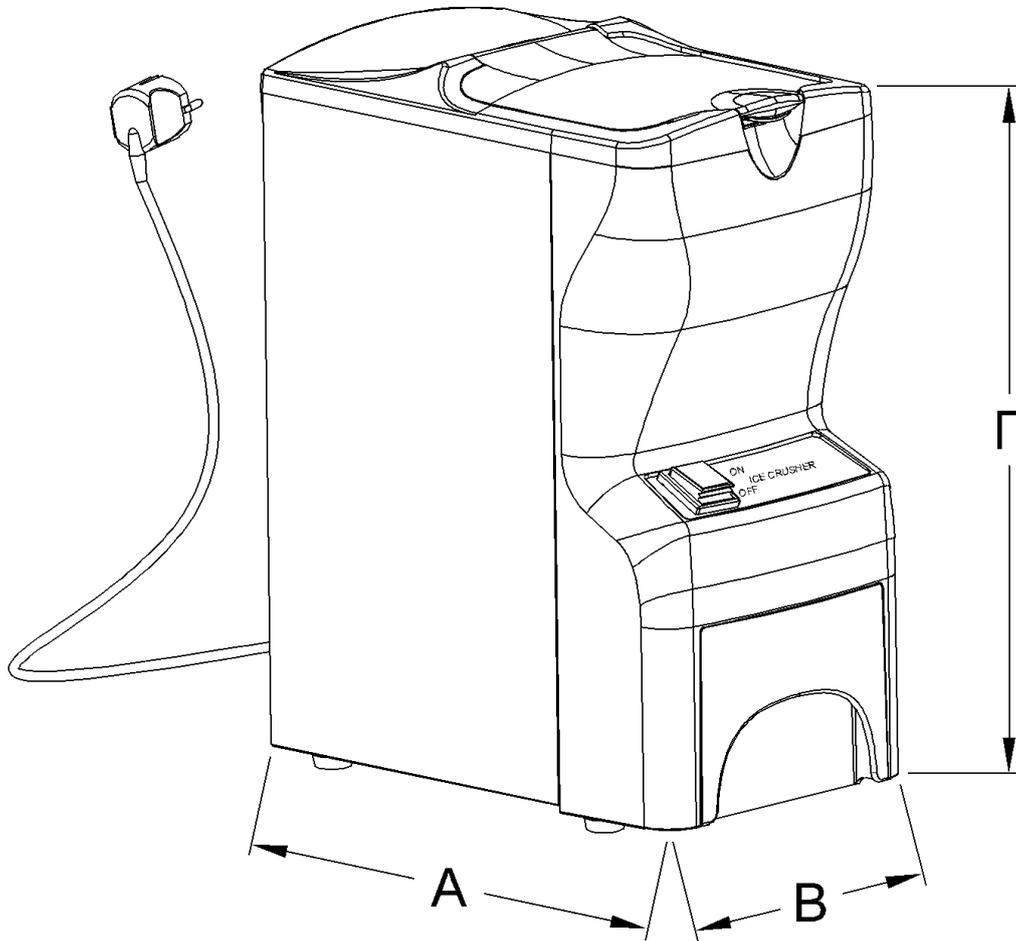


ATTENTION! For your own safety, before connecting the appliance to the mains power supply check if:

- The connection of the phases and the grounding are accomplished. Earthed wire is yellow – green wrapped with insulation.
- Suitability certification of the supply wire.
- Operation voltage and frequency of the power supply are the required ones.
- Safety mechanisms are in position. If not, do not use the appliance because there is danger for the safety of the operators and the appliance.

ICE CRUSHER AK / 14 - AK / 14 EXTRA

8. MAXIMUM DIMENSIONS



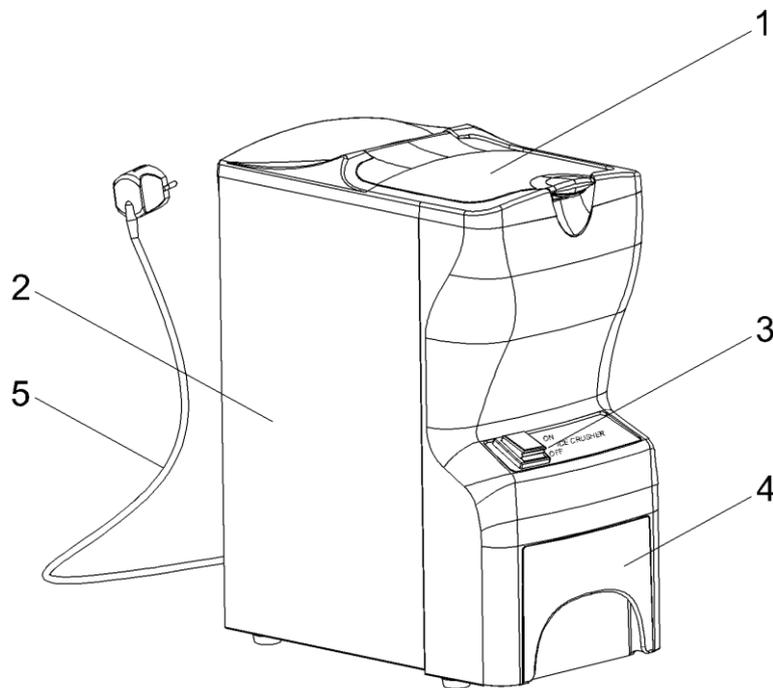
MAXIMUM DIMENSIONS	
Length (A)	300 mm
Width (B)	190 mm
Height (Γ)	400mm

ICE CRUSHER AK / 14 - AK / 14 EXTRA**9. DESCRIPTION****9.1 ICE CRUSHER PARTS**

AK / 14 - AK/14 EXTRA Johny ice crusher is delivered assembled and ready for use.

It consists of the following parts:

- ◆ Cover (1 pic.1)
- ◆ Stainless steel body (2 pic. 1)
- ◆ ON / OFF switch (3 pic..1)
- ◆ Bucket (4 pic.1)
- ◆ Cord with plug (5 pic. 1)



Picture 1

9.2 STEPS BEFORE FIRST USE

Before the first use of the ice crusher the operator should follow the instructions below:

- Get familiarized with the assembling / disassembling of the appliance so that the crushed ice bucket is inserted in its position at the base making contact with the micro switch inside.
- Check operation of the main switch testing a small quantity of ice.
- Check stability.
- Wash the blades by pouring hot water into the funnel letting it run into the bucket below.
- Wash the bucket with water and detergent.

ICE CRUSHER AK / 14 - AK / 14 EXTRA

9.3 OPERATION INSTRUCTIONS

Operation of the ice crusher is very simple:

1. Make sure that the main switch is on 0 position.
2. Place the bucket under the ice crusher in its proper position.
3. Make sure the appliance is grounded.
4. Connect the appliance to the mains power supply.
5. Open the cover on the upper part of the appliance and place the desired quantity of ice cubes, but always close the cover well.
6. Make sure the cover is correctly closed.
7. Turn the main switch at I position.
8. When ice is crushed press the main switch to 0 position. The crushed ice is collected in the bucket at the base of the ice crusher which can be removed either half way or entirely.



The ice crusher has two micro switches, one on the upper part of the appliance which secures by closing the cover and a second one at the lower part behind the bucket with the crushed ice that is activated with the proper positioning of the bucket



ATTENTION! Blades of the ice crusher are activated automatically. **Never and for no reason try to push the ice cubes with the hand or other means.**

If a large piece of ice remains into the crushing chamber and the blades cannot crush it put the main switch to 0 position, remove the appliance from power and throw hot water into the chamber until the ice cube melts and can be crushed. Turn the main switch to I position and continue the supply of the device with ice cubes.



ATTENTION! While operating pay special attention if you have long hair, or wear ties, handkerchiefs, etc. or other staff that could get tangled.



ATTENTION! Never use the appliance with the crushing chamber empty.



ATTENTION! Always follow the instructions of the present manual of use and maintenance and never bypass the safety devices to avoid serious injuries.

10. HYGIENE AND CLEANING

AK / 14 - AK/14 EXTRA Johny ice crusher does not need any special maintenance but only regular and proper cleaning after each day of use.

Special attention should be given to the compliance with the hygiene rules as disobedience can cause serious danger for the operator or consumers such as food poisoning from microbiological, chemical (cleaner and detergent remains) or physical causes (foreign matters coming from raw material, parts of the appliance and other sources).



ATTENTION! Maintenance and cleaning must be performed when the ice crusher is deactivated and unplugged.

10.1 CLEANING AND MAINTENANCE INSTRUCTIONS

- Set the main switch at 0 position.
- Unplug the appliance.
- Remove the crushed ice bucket. Wash with plenty of water and detergent and rinse well.
- Pour hot water in the crushing chamber in order to get the blades properly cleaned.
- Clean the external part of the ice crusher with a wet cloth and dry with a cloth that does not leave floss.



The bucket is dishwasher safe.



Always remember: A well cleaned and well maintained appliance lives longer.



ATTENTION! Never use water under pressure.



ATTENTION! Never remove the stainless steel parts of the appliance.



ATTENTION! Never try to repair the ice crusher by yourselves. Contact an authorized technician or your dealer.



ATTENTION! Never try to replace the cord yourselves. In case of cord damage, the manufacturer or an authorized technician must replace it to avoid the danger of an **electric shock**.



ICE CRUSHER AK / 14 - AK / 14 EXTRA

11. MALFUNCTIONS AND TROUBLESHOOTING

This paragraph contains possible malfunctions and their troubleshooting. In case of a malfunction not mentioned below, contact the supplying company.

Aiming on the continuous improvement of our services and the continuous collaboration with our customers, we would request you to contact with us in case of any malfunction not mentioned in the following table:

No	Malfunction	Possible cause	Troubleshooting
1	The ice crusher does not respond to the activation of the main switch	The plug is not correctly connected to the socket	Check and press the plug firmly into the socket (only with dry hands!)
		The bucket has not been placed correctly at the base of the appliance	Insert the bucket in its position pushing it back to touch the microswitch
		The cover did not close well	Close the cover firmly until it clicks
		The electromotor is overheated and the thermo switch has been activated	Wait till the motor cools down. Check for possible impairing in the crushing chamber
2	Too many vibrations.	The ice crusher has not been placed on a flat surface	Relocate on a flat, stable counter
		The bucket has not been placed correctly at the base of the appliance	Remove the bucket and re-insert it back to position
3	The blades do not turn easily	Large quantity of ice cubes to be crushed	Turn off the appliance, open the cover and remove some ice. Close the cover again and turn on the machine. Repeat if necessary



ATTENTION! Never proceed to any actions before contacting the manufacturing company of the **AK / 14 - AK/14 EXTRA Johny** ice crusher.

ICE CRUSHER AK / 14 - AK / 14 EXTRA

12. NOT IN USE

When the appliance is not in use for a long time it should be:

- 1) Unplugged.
- 2) Properly cleaned and disinfected.
- 3) Properly packed in order to avoid dust and moisture attack.
- 4) If moved to another place, it should be closed and dry.

For any doubts or questions please contact the supplying company to help you and give you the proper information for your appliance. Never trust maintenance or service of your ice crusher to unauthorized personnel and above all never try to do so by yourselves if you do not have the appropriate knowledge.



When the appliance is withdrawn, it is recommended to contact a company that deals with material recycling. The specific company will disassemble the appliance and convert it to dimensions appropriate for recycling or storing.



RECYCLING!!!

13. TECHNICAL CHARACTERISTICS

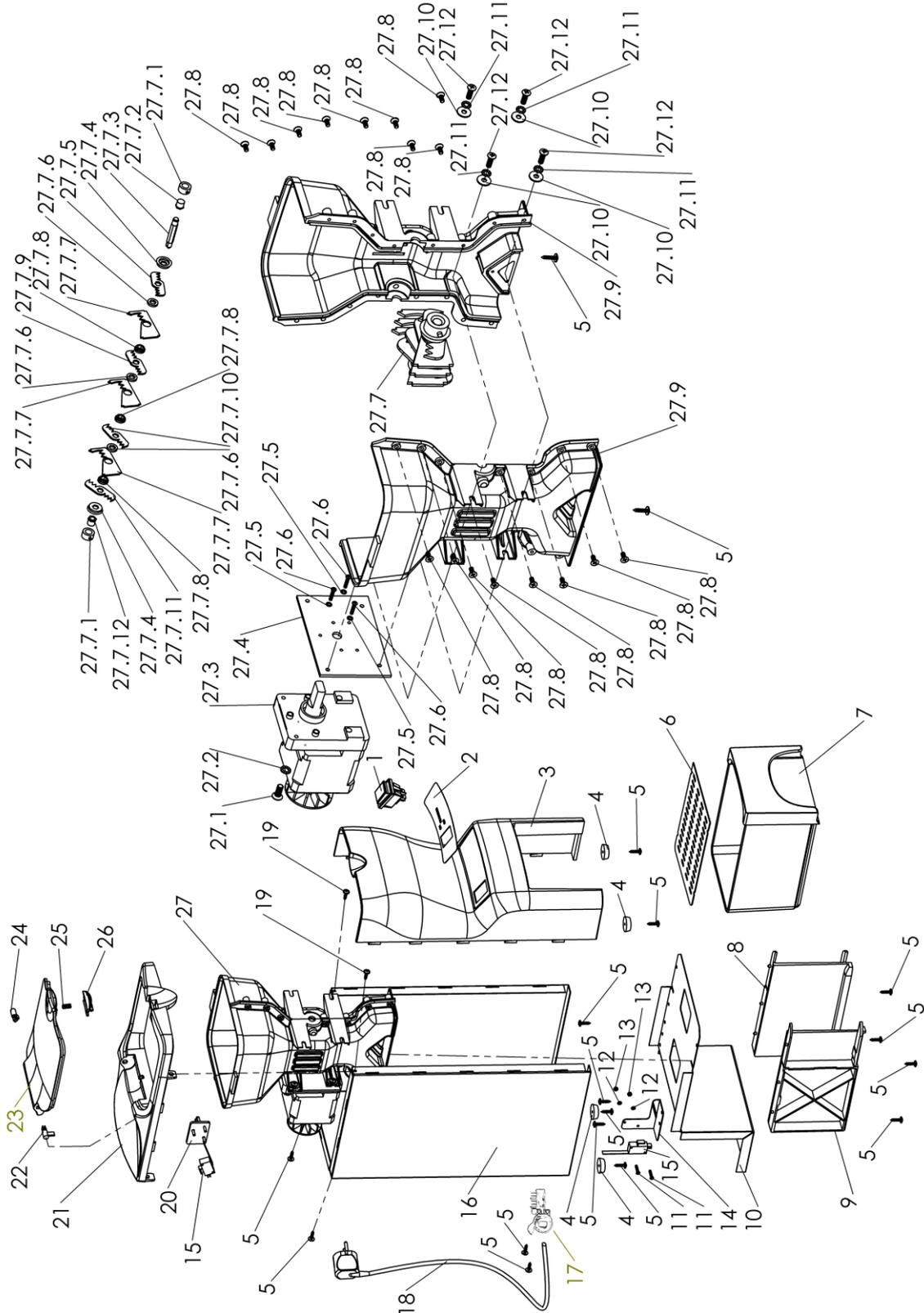
TECHNICAL CHARACTERISTICS OF THE AK/14 ICE CRUSHER	
WEIGHT	7,2 kgr
OPERATION VOLTAGE	~ 230 V - 50 Hz
POWER	120 W
ROTATION SPEED	40 rpm / min
BOWL VOLUME	2,5 lit

TECHNICAL CHARACTERISTICS OF THE AK/14 EXTRA ICE CRUSHER	
WEIGHT	7,2 kgr
OPERATION VOLTAGE	~ 230 V - 50 Hz
POWER	120 W
ROTATION SPEED	80 rpm / min
BOWL VOLUME	2,5 lit

ICE CRUSHER AK / 14 - AK / 14 EXTRA

14. SPARE PARTS AK/14

14.1 SPARE PARTS DRAWING





ICE CRUSHER AK / 14 - AK / 14 EXTRA

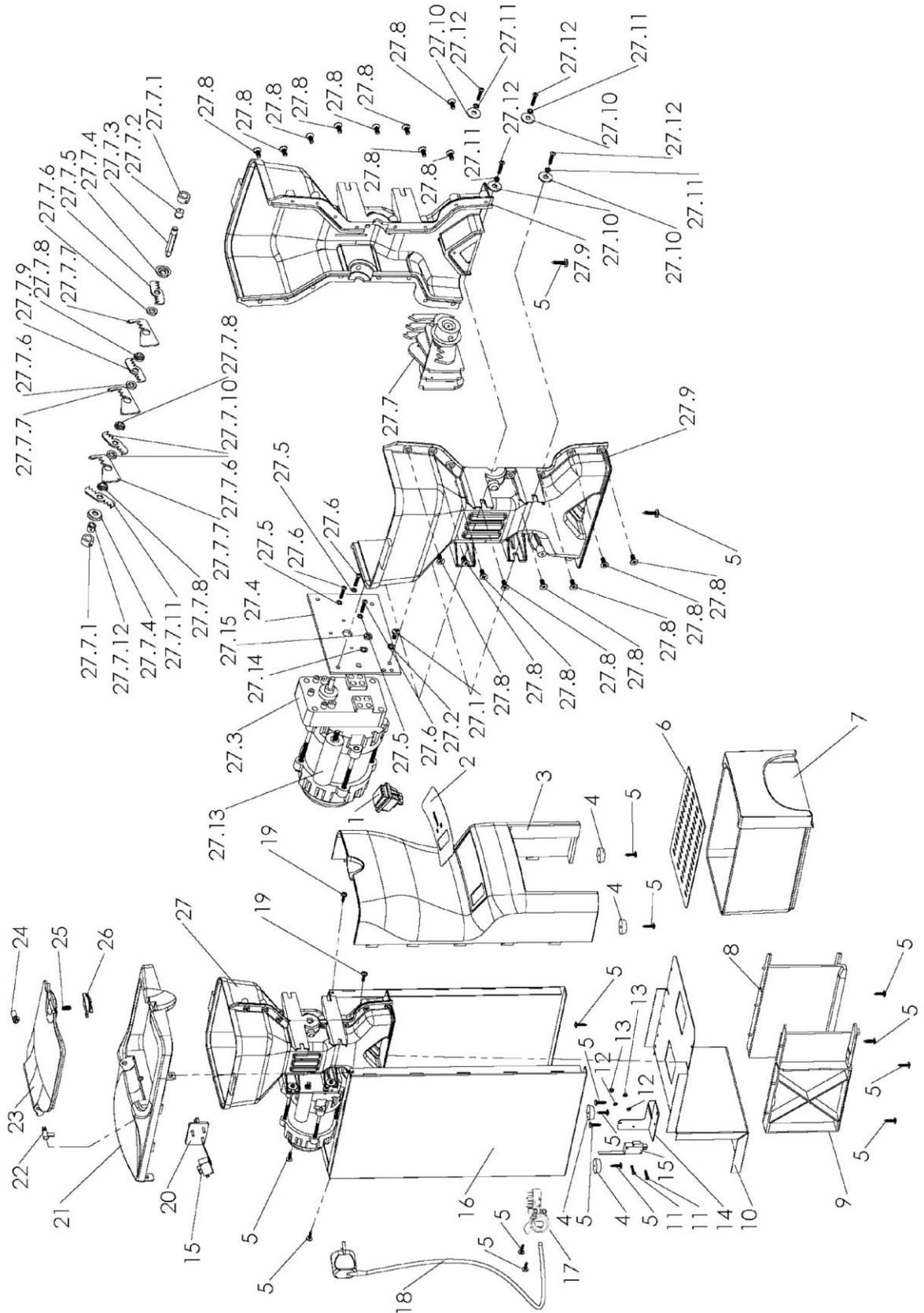
14.2 SPARE PARTS TABLE

Nr.:	Code Nr.:	Description	Quantity
1	AK/14-1	Switch	1
2	AK/14-2	Front sticker	1
3	AK/14-3	Face	1
4	AK/14-4	Cap	4
5	AK/14-5	Self-piercing screw M4,2x19	17
6	AK/14-6	Grate	1
7	AK/14-7	Bucket	1
8	AK/14-8	Right side of crusher base	1
9	AK/14-9	Left side of crusher base	1
10	AK/14-10	Stainless steel crusher base	1
11	AK/14-11	Screws M3x16	2
12	AK/14-12	Star washer for M3	2
13	AK/14-13	Nut M3	2
14	AK/14-14	Bucket micro switch support	1
15	AK/14-15	Bucket micro switch with foil	2
16	AK/14-16	Stainless steel body	1
17	AK/14-17	Cable gland	1
18	AK/14-18	Cord with plug	1
19	AK/14-19	Screw M4,2x16	2
20	AK/14-20	Cover micro switch support	1
21	AK/14-21	Cover base	1
22	AK/14-22	Cover pin	1
23	AK/14-23	Cover	1
24	AK/14-24	Cover pin	1
25	AK/14-25	Spring	1
26	AK/14-26	Cover lock	1
27	AK/14-27	Crusher	1
27.1	AK/14-27.1	Allen screw M6x10	1
27.2	AK/14-27.2	Star washer M6	1
27.3	AK/14-27.3	Electromotor	1
27.4	AK/14-27.4	Electromotor base	1
27.5	AK/14-27.5	Star washer for M4	3
27.6	AK/14-27.6	Screw M4x12	3
27.7	AK/14-27.7	Blades mechanism	1
27.8	AK/14-27.8	Milled screw M4x20	17
27.9	AK/14-27.9	Splitted crusher	2
27.10	AK/14-27.10	Big Washer for M5	4
27.11	AK/14-27.11	Star washer for M5	4
27.12	AK/14-27.12	Screw M5x12	4
27.7.1	AK/14-27.7.1	Bearing	2
27.7.2	AK/14-27.7.2	Shaft nut	1
27.7.3	AK/14-27.7.3	Shaft	1
27.7.4	AK/14-27.7.4	Sealant spacer	2
27.7.5	AK/14-27.7.5	Moving blade	1
27.7.6	AK/14-27.7.6	Spacer	3
27.7.7	AK/14-27.7.7	Stable blade	3
27.7.8	AK/14-27.7.8	Based spacer	3
27.7.9	AK/14-27.7.9	Moving blade	1
27.7.10	AK/14-27.7.10	Moving blade	1
27.7.11	AK/14-27.7.11	Moving blade	1
27.7.12	AK/14-27.7.12	Shaft nut	1

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15. SPARE PARTS AK/14 EXTRA

15.1 SPARE PARTS DRAWING





ICE CRUSHER AK / 14 - AK / 14 EXTRA

15.2 SPARE PARTS TABLE

Nr.:	Code Nr.:	Description	Quantity
1	AK/14-1	Switch	1
2.1	AK/14-2.1	Front sticker	1
3	AK/14-3	Face	1
4	AK/14-4	Cap	4
5	AK/14-5	Self-piercing screw M4,2x19	17
6	AK/14-6	Grate	1
7	AK/14-7	Bucket	1
8	AK/14-8	Right side of crusher base	1
9	AK/14-9	Left side of crusher base	1
10	AK/14-10	Stainless steel crusher base	1
11	AK/14-11	Screws M3x16	2
12	AK/14-12	Star washer for M3	2
13	AK/14-13	Nut M3	2
14	AK/14-14	Bucket micro switch support	1
15	AK/14-15	Bucket micro switch with foil	2
16	AK/14-16	Stainless steel body	1
17	AK/14-17	Cable gland	1
18	AK/14-18	Cord with plug	1
19	AK/14-19	Screw M4,2x16	2
20	AK/14-20	Cover micro switch support	1
21	AK/14-21	Cover base	1
22	AK/14-22	Cover pin	1
23	AK/14-23	Cover	1
24	AK/14-24	Cover pin	1
25	AK/14-25	Spring	1
26	AK/14-26	Cover lock	1
27	AK/14-27	Crusher	1
27.1	AK/14-27.1	Allen screw M6x10	1
27.2	AK/14-27.2	Star washer M6	1
27.3	AK/14-27.3	Electromotor	1
27.4	AK/14-27.4	Electromotor base	1
27.5	AK/14-27.5	Star washer for M4	3



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27.6	AK/14-27.6	Screw M4x12	3
27.7	AK/14-27.7	Blades mechanism	1
27.8	AK/14-27.8	Milled screw M4x20	17
27.9	AK/14-27.9	Splitted crusher	2
27.10	AK/14-27.10	Big Washer for M5	4
27.11	AK/14-27.11	Star washer for M5	4
27.12	AK/14-27.12	Screw M5x12	4
27.7.1	AK/14-27.7.1	Bearing	2
27.7.2	AK/14-27.7.2	Shaft nut	1
27.7.3	AK/14-27.7.3	Shaft	1
27.7.4	AK/14-27.7.4	Sealant spacer	2
27.7.5	AK/14-27.7.5	Moving blade	1
27.7.6	AK/14-27.7.6	Spacer	3
27.7.7	AK/14-27.7.7	Stable blade	3
27.7.8	AK/14-27.7.8	Based spacer	3
27.7.9	AK/14-27.7.9	Moving blade	1
27.7.10	AK/14-27.7.10	Moving blade	1
27.7.11	AK/14-27.7.11	Moving blade	1
27.7.12	AK/14-27.7.12	Shaft nut	1
27.13	AK/14-27.13	Capacitor	1
27.14	AK/14-27.14	Star washer for M8	1
27.15	AK/14-27.15	Nut M8x12	1

16. ELECTRICAL DRAWING

