

HC-880 LAB

Bulk Coffee Grinder

OPERATING & SERVICE MANUAL



Designed in EU.✎

Produced by HeyCafé Co., Ltd. 赫意凯 (常州) 电器设备有限公司✎

Building #6, #2 Tenglong Rd, Wujin Economic Development Zone, Jiangsu, 213161 China✎

WARNINGS

- 1 This Grinder is **not** intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the Grinder by a person responsible for their safety.
- 2 Children should be supervised to ensure that they do not play with the Grinder.
- 3 Care is needed when handling cutting blades during cleaning.
- 4 If the supply cord is damaged, it must be replaced by the manufacturer or its service agent or a similarly qualified person in order to avoid a hazard.



Correct Disposal of this product

This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

Warranty Information

The manufacturer provides warranty in accordance with the legislation of the customer's own country of residence, with a minimum of 1 year (Germany: 2 years), starting from the date on which the Grinder is sold to the end user. The warranty only covers defects in material or workmanship. The repairs under warranty may only be carried out by an authorized service center. When making a claim under the warranty, the original bill of purchase (with purchase date) must be submitted.

The warranty will not apply in cases of:

- Normal wear and tear
- Incorrect use, e.g. overloading of the Grinder, use of non-approved accessories
- Use of force, damage caused by external influences
- Damage caused by non-observance of the user manual, e.g. Connection to an unsuitable mains supply or non-compliance with the installation instructions
- Partially or completely dismantled Grinders

TABLE of CONTENTS

1) Preface.....4.

2) Technical Specifications.....4.

3) General Description.....5.

4) Unpacking and installation.....5.

5) Operation.....6.

6) Safety devices.....7.

7) Safety instructions.....7.

8) Maintenance and service.....8.

9) Cleaning.....10.

1) PREFACE

Congratulations for purchasing the HC-880 LAB grinder. The HC-880 LAB is a commercial Grinder to be used by professional users at groceries, coffee shops, coffee roasters, espresso bars, hotels and restaurants. The HC-880 LAB grind's whole been coffee into a container (not provided) with variable stepless grind setting dial, from super fine to course coffee powder.

Read this manual from cover to cover before using the Grinder as it contains important safety, operation, and maintenance instructions for the proper use of the Grinder. Keep the manual in a safe place for future use and reference.

The manufacturer reserves the right to modify the grinder and the manual accordingly. For any questions please refer to your local dealer.

2) HC-880 LAB TECHNICAL SPECIFICATIONS

Dimensions:

Height: 685mm, Width: 180mm, depth: 450mm

Weight: 26Kg

Disks diameter: 84mm

Beans hopper's capacity: 2.0Kg Coffee beans

Electrical Specifications (single phase):

220V/50Hz Maximum current 4.5 Ampere

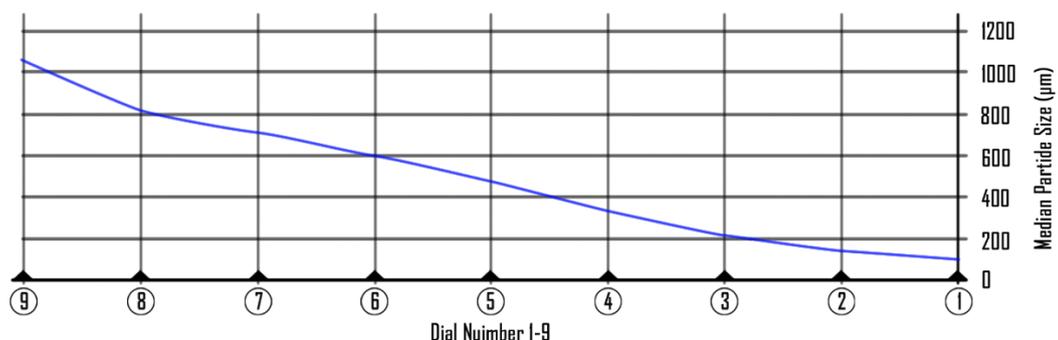
220V/60Hz Maximum current 5 Ampere

Grinding capacities:

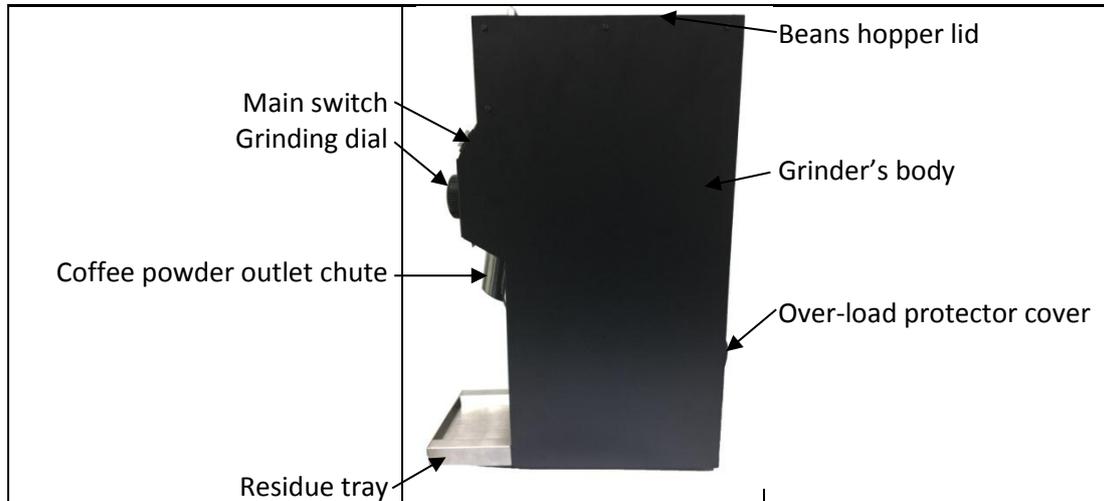
>450gr/min. @ #3 setting (espresso)

Powder coarseness:

100micron-1000micron @ #1setting to #9 setting



3) General Description



4) UNPACKING AND INSTALLATION:

Warning: All grinder's technical handling operations such as installation, maintenance, or service should be performed by certified personnel or by your local dealer.

1. After opening grinder's package, make sure that the Grinder is intact and that there is no visible damage. If there is any doubt, DO NOT continue the installation procedure and contact your local dealer for further assistance.
2. Unpack the product carefully. For your convenience we suggest storing all packaging materials where they can be used in the future, whenever the Grinder's transportation is necessary.
3. Place the grinder on a stable flat counter in a dry area away from water or water splashes.
4. Open hopper's beans lid and visually inspect that there no foreign objects of any kind remove any foreign object accordingly.
5. install the hopper lid's handle with the provided screws and screw driver. Make sure to tight the screws so they cannot fall into the grinding chamber.
6. Install the grinder's powder residue tray.
7. Before plugging in the electrical cord, make sure:
 - a) The Grinder voltage and frequency rating (according to the back side label) is the same as the supply mains.
 - b) The wall socket is fitted with an efficient ground contact.
 - c) DO NOT plug the Grinder into the supply mains if a ground system is not available in mains socket, socket should in compliance with national/local electrical codes.
 - d) IT IS COMPULSORY TO GROUND THE GRINDER. The manufacturer cannot be held responsible if this obligatory requirement was not complied.
 - f) The power consumption of the Grinder (according to the back side label) is consistent with the relevant wall socket capacity.
 - g) The wall socket is protected against short-outs and power surges.
 - h) Do not: use extension cables, plug adapters for multiple sockets, or make shift connections.
8. Plug in the Grinder.

5) OPERATION

Operation controls



Fig 5-1

1. Main Switch is a 3-way switch with Off, ON and Run positions (Fig 5-1).
2. The stepless grind setting knob is showing the current grinding setting. Turn the grind setting knob clockwise to achieve a finer grinding, or counterclockwise for coarser grinding. (fig 5-1).

First time operation (to perform once after unpacking):

1. Plug-in the power cable into wall socket.
2. Set the grind setting knob on coarsest position (#9).
3. DO NOT PLACE COFFEE BEANS INTO THE BEANS HOPPER YET.
4. Start the grinder by switching the main switch to 'RUN' let the grinder run for a while then while still running gradually change the grind setting from #9 all the way to #1. And then return to #9. Repeat this cycle few times while the grinder is running and listen for any abnormal noise coming from the grinder throughout the process.
5. For any abnormal or excessive noise refer to your local dealer.

Grinding coffee:

1. After the completion of 'first time operation' the grinder is ready to be used.
2. Fill the hopper with coffee beans and place an empty container or bag under the powder's chute. Set the desired coarseness and turn the main switch to RUN.
3. Ensure using a container (or bag) which is in higher volume than the desired grinding volume.
4. While grinding observe the powder's flow into the container.
5. Make sure that the powder is not overflowing the container and or blocking the powder's chute.
6. Stop the grinding by turning the main switch to 'OFF' position, before removing completely the container use the container clipper to shake and remove the final powder from the chute into the container (fig 5-2)



Fig 5-2

Remark about operation intervals:

It is a normal occurrence that during long grinding periods the grinding chamber will warm up. In order to achieve best grinding results, it is recommended to grind coffee in short intervals of no longer than 15 minutes grinding per period of 20 minutes.

6) SAFETY DEVICES

Overload protection:

The grinder's motor is equipped with a semi-automatic overload protection device which cutoff the motor's power automatically at over current condition. The overload protector is located on the back of the grinder behind the round lid.

In the event that the overload protection was tripped as a result of technical problem (e.g.: jammed blades, worn out bearings, foreign object in grinding chamber, etc.) the grinder's main switch should be turned off and the main power plug must be disconnected. Allow the grinder to cool down before any further maintenance. For further handling of the device contact your local service provider.

In the event that the overload protection was tripped as a result of a long continuous operation allow the grinder to cool down. Reset the semi-automatic protector by pressing the protector's button (uncover the lid first).

On the first operation after resetting a tripped over-current protector observe the grinding quality and noise level, and if there are any irregularities shut down the grinder and call a certified technician for a complete analysis of the Grinder.

Beans conveyor and grinding chamber safety cover:

The grinding chamber can be a hazardous area if the proper precautions aren't observed.

The beans hopper is equipped with hands and fingers safety protector.

- Never remove the safety protector while the HC-880 LAB grinder is plugged in.
- Never use a grinder that is not equipped with protector or if the protector is broken

7) SAFETY INSTRUCTIONS

1. NEVER OPERATE THE GRINDER IF THE BEAN HOPPER IS NOT FULLY SECURED TO THE GRINDER'S BODY. BEFORE REMOVING THE HOPPER FOR ANY REASON MAKE SURE TO DISCONNECT THE POWER SUPPLY.
2. NEVER CLEAR FOREIGN OBJECTS FROM THE BEANS CONVEYOR OR BEANS HOPPER WHEN THE GRINDER IS PLUGGED INTO A POWER SOCKET.
3. BEFORE ANY MAINTENANCE, EVEN FOR CLEANING, ALWAYS DISCONNECT THE POWER SUPPLY.
4. Never attempt to insert your fingers or any foreign objects into the grinding chamber or blades.
5. Be aware that grinding blades continue rotating for a short while after switching OFF the Grinder and the grinding operation has ended.
6. In the event that the Grinder has a malfunction or the blades need to be replaced, do not attempt to service the Grinder by yourself.
7. Do not change or tamper with the Grinder.
8. Do not use the Grinder barefoot or if your hands or feet are damp.
9. Do not use the cable wire to pull and disconnect the power plug.
10. Always keep the Grinder dry (internally and externally).
11. Do not regrind coffee powder
12. Do not attempt to use the grinder grinding anything else other than roasted coffee beans.

8) MAINTENANCE AND SERVICE

Warning: All Grinder's technical handling operations, such as installation, maintenance, or service should be performed by certified personnel or by your local dealer.

Check the state of the grinding blades periodically (approximately every 100kg of grinded coffee). Good condition blades will result in a high quality grind and prevent the Grinder's over-heating. Replace grinding blades every 1,000kg of grinded coffee (with normal hardness blades).

The noise level of a grinder is a good indicator of its general condition. Be aware of the Grinder's noise level. In case the noise level is higher than normal or irregular noises are coming from within the Grinder, get certified personnel to perform an overall check of the Grinder.

BEFORE ANY MAINTENANCE OR DISASSEMBLY PROCEDURE MAKE SURE THE GRINDER IS EMPTY OF COFFEE BEANS AND CLEAN OF POWDER

Removing the grind setting knob:

1. Turn the grind knob to finest grinding position. (fig 8-1)
2. Use a flat screw driver (provided with the grinder) to remove the knob's main center screw
3. Pull out the knob (fig 8-2)
4. After removing the grind setting knob, please note the silicone sliding stepless cushion relative position of the marks on the grinding body and on the internal dial knob, if no further setting is required refrain from changing the position of the internal knob (fig 8-3)



Fig 8-1
Finest position



Fig 8-2
loosen the securing screws



Fig 8-3
silicone and body markers

Readjustment of grind setting

The HC-880 LAB was factory set for different types of coffee powders, from finest Turkish coffee to coarsest hand filter coffee. However, in course of time or after thorough cleaning procedures or disks replacement, some changes in setting may be required. If you feel your grinder is out of tune (either a squeaking noise or grind powder is too coarse at the finest setting) please run through the following procedure.

1. Release and pull the main grinding knob out.
2. The steel internal knob is exposed out now.
3. Note the current steel knob position (the relative position between the marker on

- the knob to the marker on the main body)
4. Use a flat screw driver to slightly turn the steel knob clockwise in order to make the presetting finer or counterclockwise in order to readjust the grinder coarser
 5. Test the new setting, by running the grinder without coffee beans first. Then if no an noise from on the new setting position use some coffee beans to test the new position. Readjust accordingly.
 6. Turn OFF the grinder, re-assemble the knob on Turkish coffee position, tighten the screw and place the Logo cover back into its position.
 7. Check the grinder by grinding coffee beans to various types of coffee powder and repeat the entire process if necessary.

9) CLEANING

BEFORE ANY CLEANING ROUTINE GRIND AND MAKE SURE NO BEANS OR POWDER ARE IN THE GRINDNER.

DISCONNECT THE GRINDER POWER SUPPLY.

NEVER USE RUNNING WATER FOR THE CLEANING PROCEDURE.

USE ONLY PERFECTLY CLEAN CLOTHS OR BRUSHES TO CLEAN THE GRINDER.

DO NOT USE ABRASIVE CLEANING PRODUCTS AS THEY MAY SCRATCH GRINDER'S FINISHING.

Cleaning the bean hopper

1. Release the top cover screws (4 screws on each top right and left side of the grinder)
2. Release the 2 beans hopper screws (located on its back side)
3. Pull out the beans hopper and rinse it thoroughly with water and soap.
4. As the beans hopper is made of ABS, use only liquid detergent (free of abrasive components) and soft sponge.
5. Before reinstalling the beans hopper, make sure it is thoroughly dried.

Cleaning the grinding chamber

Before starting the thorough cleaning procedure of the HC-880 LAB read the complete set of instructions.

1. Refer to the previous paragraph 8 in order to disassemble the grinding knob
2. Refer to the below steps 1-8 in order to disassemble the grinding core
 - a. Use a cross screw driver to release the 4 screws that secure powder chute to the front cover.
 - b. Use a flat screw driver to release the 4 screws of front cover and pull it gently out.
 - c. Make a note and mark the wiring connection order with the main switch and then release the 4 wires
 - d. Use a #3 Allen key to release the main grinding house (4 screws)
 - e. Pull out the entire grinding house including the internal grinding knob.
 - f. Pull out the bearing holder
 - g. Pull out the disk holder with the beans' conveyor. Pay attention to the spring at the end of the beans conveyor, it should be kept for the after cleaning assembly process.
3. Reaching Step 8 below is the base situation for cleaning and replacing disks.
4. Use brush and cloths to clean all the parts thoroughly
 - a. Do not use sharp objects to scrape coffee residue off of the blades.

- b. Examine both of the blades' condition and replace them as necessary.
- c. The replacement and assembly of a new set of blades is a delicate task. Only skilled technical personnel should be allowed to perform blade removal and assembly.
- d. Always use an original spare parts made by the manufacturer
5. Clean the exposed grinding area.
6. Before re-assembling the parts lightly grease the motor shaft with food grade grease.
7. Make your assembly way back in opposite order (steps 9-5)
8. Before assembly the main knob check and if necessary recalibrate Grinder's tuning (refer to ADJUSTMENTS OF GRINDING OPERATION on paragraph 8)
9. After all cleaning and replacing tasks are through make sure to assemble all of the parts and safety screws the same way as they were disconnected. If anything does not fit back together or there are left over parts, do not attempt to operate the Grinder, call for the assistance of your technician. Start working gradually and observe any irregular noise or behavior of the Grinder.
10. Advise with your local technical support for any irregular noise or grinding problems.



Step 1 -remove chute



Step 2 – remove front cover step



Step 3-mark and disconnect wires



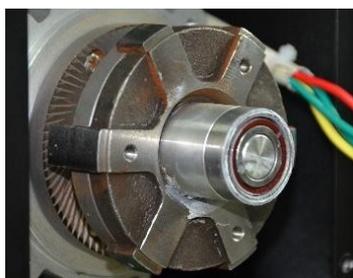
Step 4 note internal knob position



Step 5 – release grinding house



Step 6 -remove grinding house



Step 7 –remove the bearing cover



Step 8 -remove the shear key



Step 9 – remove the disk holder

A 'deeper' cleaning procedure should only be performed by a skilled technician.

To ensure long lasting grinder and great fresh taste of coffee, the cleaning procedure as described above should be repeated routinely and at least once per month or as necessary according the grinder's usage and quality of beans.

END

Important details and telephone numbers:

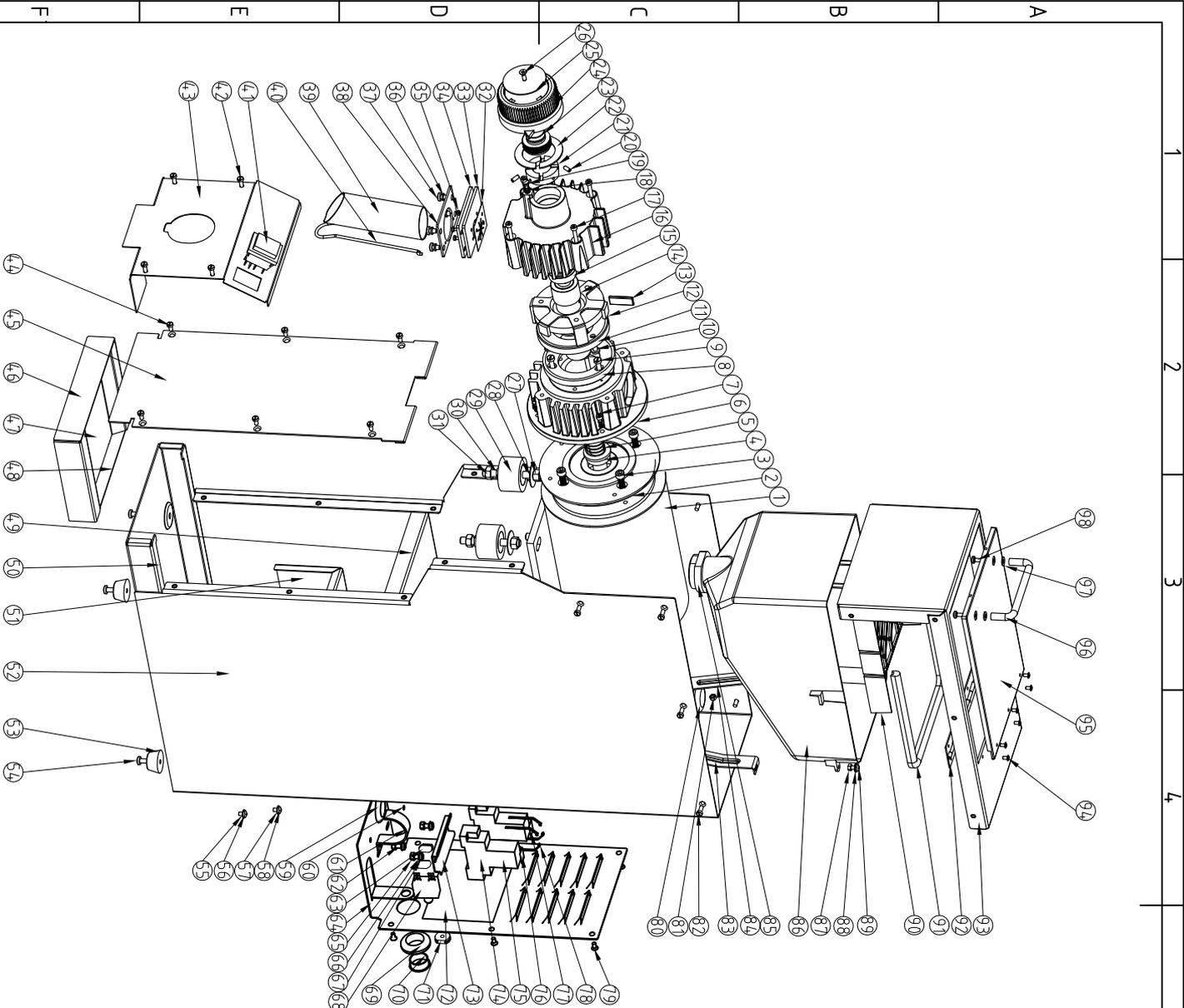
Local dealer address: _____

Telephone number: _____ Fax number: _____

Technician mobile number: _____ name: _____

Coffee beans supplier details: _____

Telephone number: _____ Fax number: _____



NO	PART No.	零件名称	screw	PART NAME	QTY	NOTE
98	60002020	螺钉			2	M4x10
45	88000293	机身前盖		front plate	1	

NO	PART No.	零件名称	PART NAME	QTY	NOTE	DATE	VER	10F			
97	88000225	橡胶垫圈	rubber washer	2	ø5×10×1	44	88000298	螺钉	screw-black	6	M4x8
96	88000136	把手	handle	1		44	88000324	GT2减速机	front dial plate	1	
95	88000213	漏斗盖	hopper lid	1		43	88000323	GB8-减速机	front dial plate	1	optional
94	88000134	铆钉	rivet	6	φ4.8x8		88000322	PC-80L-减速机	front dial plate	1	
93	88000296	机身上盖	top	1		42	88000148	螺钉	slotted pan head screw	4	M4x8
92	88000266	铰链	hinge	1		41	88000067	开关	switch	1	M4x8 PM-DF-01-RB
91	88000214	密封条	U shape rubber	1		40	88000303	弹垫	chute spring	1	
90	88000200	安全保护装置	safety net	1		39	88000300	出粉管	chute pipe	1	
89	60002020	螺钉	screw	2	M4x10	38	8800034	出粉管连接板	chute connection plate	1	M5x12
88	6000184	弹性垫圈	spring washer	2	φ4	37	88000029	螺钉	screws	4	M5x12
87	88000255	弹簧螺母	lock nut	2	M4	36	60800012	弹性垫片	washer	4	φ5
86	88000200	漏斗	hopper	1		35	60800017	弹性垫片	screws	4	M3x8
85	88000110	漏斗转接器	hopper adaptor	1		34	88000311	出粉室调粉板	chute Adaptor Plate	1	
84	88000279	漏斗转接器	hopper shaker-L	1		33	88000308	出粉室调粉板	chute sponge	1	
83	88000278	漏斗转接器-右	hopper shaker-R	1		32	88000320	控制粉片	leaf	1	
82	88000298	螺钉	screw-black	8	M4x8	31	60800008	弹性垫片	nut	4	M8
81	60800124	螺母	nut	2	M4	30	88000223	弹性垫片	washer	4	φ8
80	88000056	橡胶垫圈	rubber pipe	2		29	88000222	橡胶垫圈	shock Absorber	4	25mm
79	88000298	螺钉	screw-black	6	M4x8	28	88000179	垫圈	washer	4	ø11xø20x2
78	88000216	继电器挂锁	lock for relay	4		27	60800008	弹性垫片	nut	4	M8
77	88000254	继电器挂锁	relay label KA1	1	8x7mm	26	88000199	螺钉	screws	1	M4x10
76	88000255	继电器挂锁	relay label KA2	1	8x7mm	25	88000316	硅胶圈	knob table	1	
75	88000565	继电器	relay	2	20x10x10mm www.pna	25	88000286	硅胶圈	knob table	1	optional
74	88000056	继电器底座	relay holder	2		24	88000286	硅胶圈	knob table	1	
73	88000263	继电器底座	relay guide	1		24	88000284	调节按钮	dial knob	1	
72	88000314	接线图贴纸	wire-labels wiring diagram	1		23	88000299	刻度盘	dial adjusting shaft	1	1.5mm
71	6000234	电源线扣	power cord lock	1		22	8800034	刻度盘(无框)	dial index plate for blank	1	
70	88000005	橡胶盖	rubber cover	1		21	88000309	定位环	setting ring	1	
69	88000005	橡胶盖	rubber pipe	1		20	88000297	固定螺钉	screws	2	M4x10
68	88000066	过载保护装置	overload preventer	1	带按钮 press pin	19	88000310	硅胶圈	silicon index pin	1	ø0.8xø6x20
67	6000212	螺钉	screw	2	M5x16	17	88000123	螺钉	screws-full thread	4	M4x35
66	6000213	外盖垫片	separated washer	3	M5	16	88000107	研磨室前盖	front grinding house	1	
65	59800033	螺母	nut	3	M5	15	88000122	轴承	bearing	1	
64	88000317	机身后盖	service door	1		14	88000120	轴承套	bearing holder	1	
63	88000319	线扣连接板	wire bushing plate	1		13	88000277	连接片	connect plate	1	
62	60002012	螺钉	screw	1	M5x12	12	88000276	前刀架	front knife holder	1	
61	60001480	电容卡箍	capacitor holder	1	optional	11	88000302	刀片	knife	1	fast knife
60	88000800	接地电容卡箍	capacitor holder	1		10	60002070	螺钉	screw	3	M5x12
59	88000005	橡胶垫圈	rubber pipe	1		9	60002070	螺钉	screw	3	M5x12
58	6002180	螺钉	screw	1	M4x10	7	88000114	螺钉	screws-full thread	4	M4x14
57	60002190	外盖垫片	separated washer	1	M4	6	88000108	研磨室	grinding house	1	
56	60002180	螺钉	screw	1	M4x10	5	88000027	架弹簧	press spring	1	
55	60002190	外盖垫片	separated washer	1	M4	4	88000116	弹簧压块	press block	1	
54	60002282	螺钉	screw	4	M5x10	3	88000113	弹性垫片	screws-full thread	4	M5x20
53	60002200	机脚	rubber leg	4		2	8800034	法兰盖	motor flange	1	
52	88000290	机身	body	1		1	8800034	电机	motor	1	230V opti
51	88000137	下支撑架	support bottom plate	1		1	8800034	电机	motor	1	230V opti
50	88000292	底座	base	1		1	8800034	电机	motor	1	230V opti
49	8800034	电机底座	motor base	1		1	8800034	电机	motor	1	230V opti
48	88000177	托盘后挡板	back tray	1		1	8800034	电机	motor	1	230V opti
47	88000175	托盘	tray	1		1	8800034	电机	motor	1	230V opti
46	88000176	托盘前挡板	front tray	1		1	8800034	电机	motor	1	230V opti
45	88000293	机身前盖	front plate	1		1	8800034	电机	motor	1	230V opti