

MACAS COFFEE MACHINES

USER MANUAL

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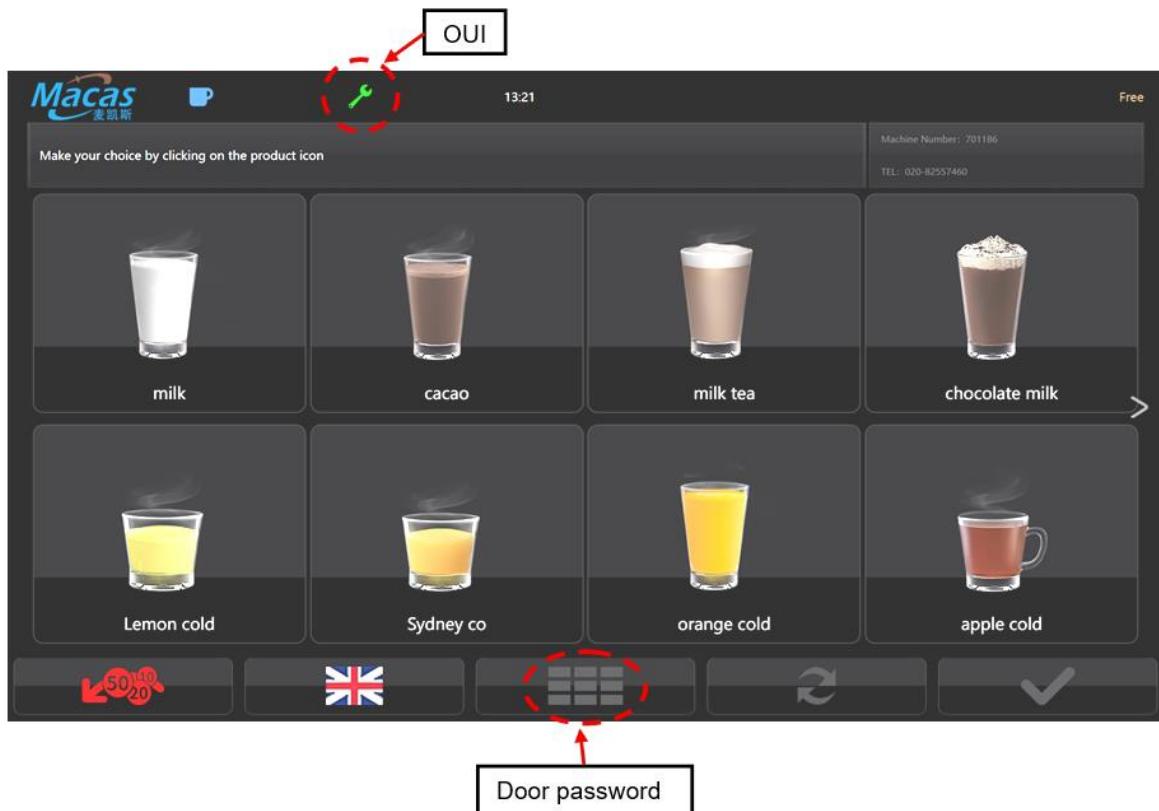
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1 Overview

The Macas coffee machine is a new generation coffee machine controlled by modern 15.6 inch touch screen. It provides an intuitive user interface, both for customer and operator.

For customer, the customer user interface (CUI), as shown below provide a modern smart phone like UI.

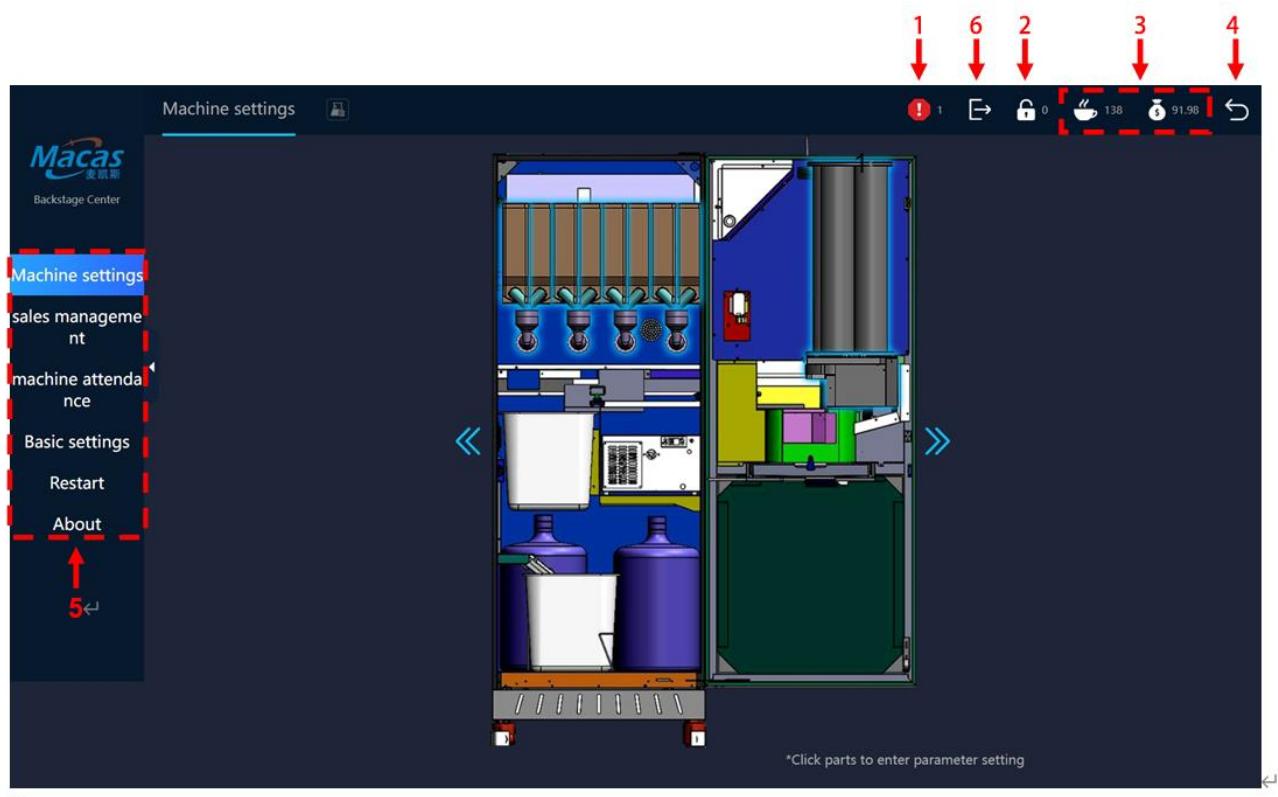
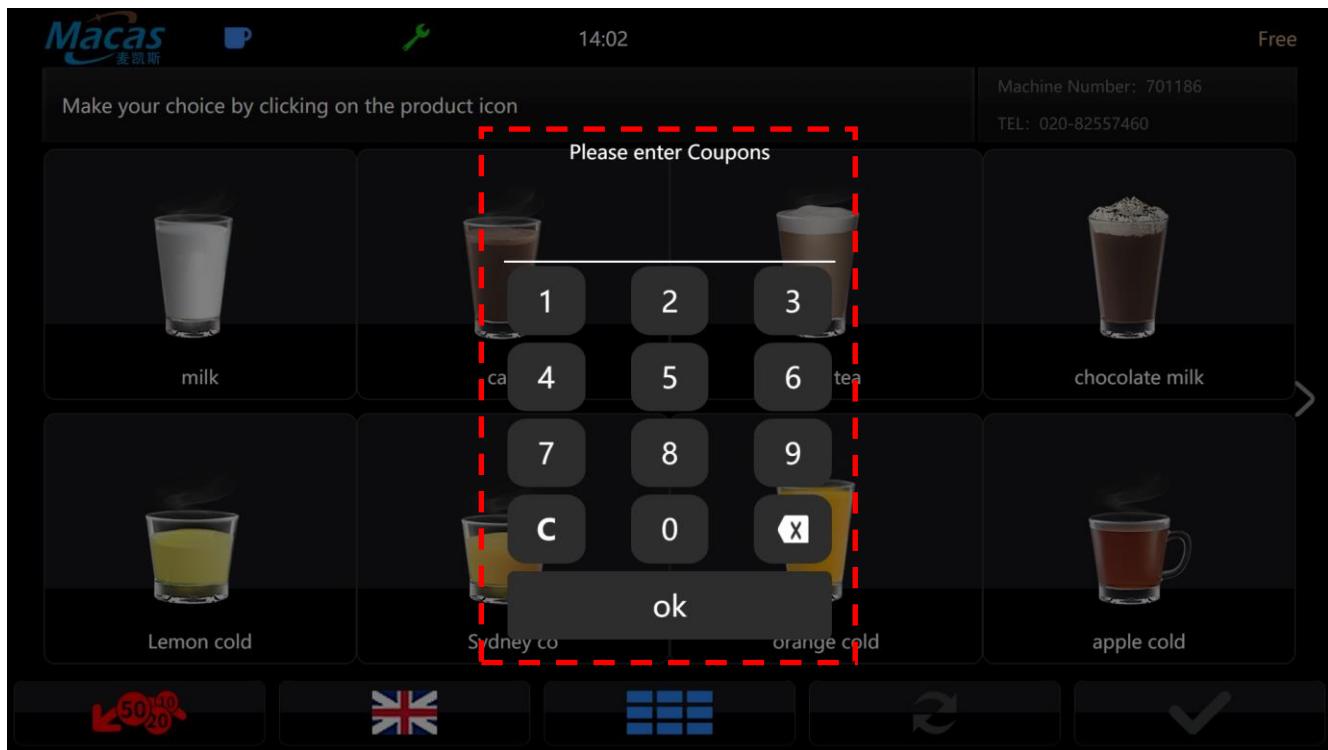


When the door is opened, the spanner icon in top middle will be enabled. Press it will go into the operator user interface (OUI).

PS:

This user manual is different from different machine configuration, the machine component and menu may be different due to various configuration of machine.

For example, If machine is table top machine, the cup dispenser and cup table is not existing in OUI.



There are several buttons and areas in the home screen of OUI:

1. The system displays an error message
2. Authorization level indicator
3. Reports & credit
4. Return to CUI
5. Function buttons
6. Exit button : tap exit app to android desktop

[Type here]

2 Terms and abbreviations

3 Calibration

3.1 Calibrate the grinder

Note:

The coffee grinder default setting is for reference means, Changing the grinding level with screw in grinder lid.

The turning direction is depicted on the grinder lid. The grinding level can only be changed by trained personnel.

- Make sure there is no coffee bean in the grinder.
- Loosen the counter nut with a spanner.
- Activate the grinder in the menu.
- With the grinder running, turn the adjustment screw clock-wise (fine), until the grinding wheels are touching.
- With the grinder running, turn the screw counterclockwise (course), until you have reached the desired grinding level (one line on the wheel = 28 µm).
- X For filter level, open 17 lines.
- X For Espresso level, open 9 lines.
- Switch the grinder off.
- Turning the counter nut tight.
- To make sure the setting is not changed again, the adjustment screw must be held in place with a screwdriver when pulling the counter disk tight.

3.2 Calibrate the instant containers

Calibration allows you to adjust the JLES4C machine to the composition of the used ingredients and the used containers. For the calibration process, you need a scale and a vessel.

Important:

Danger of wrong dosage!

Before each calibration, a 3 times test-dosage must be performed to make sure the dispenser coils are filled. Calibration must be performed for each container.

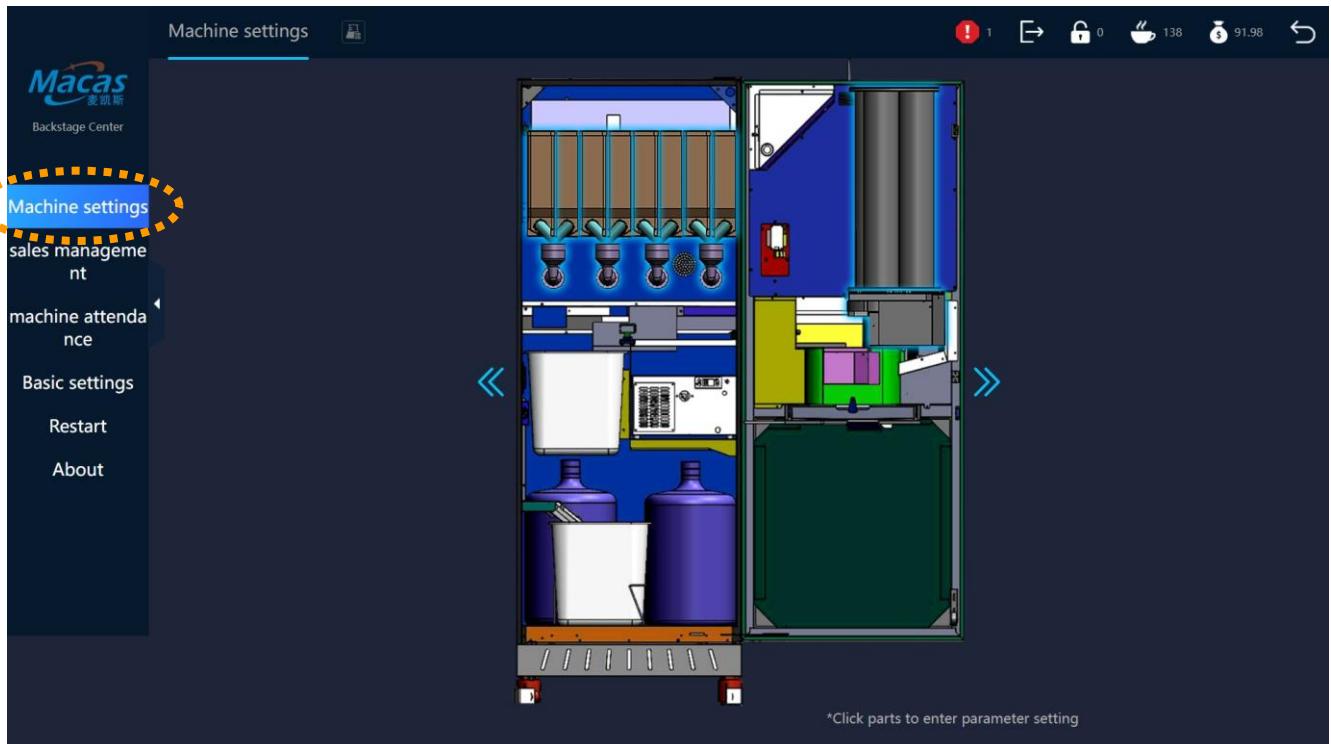
Note:

When changing a container, motor or product, you must always calibrate again as every new component has different weight and dispensation characteristics.

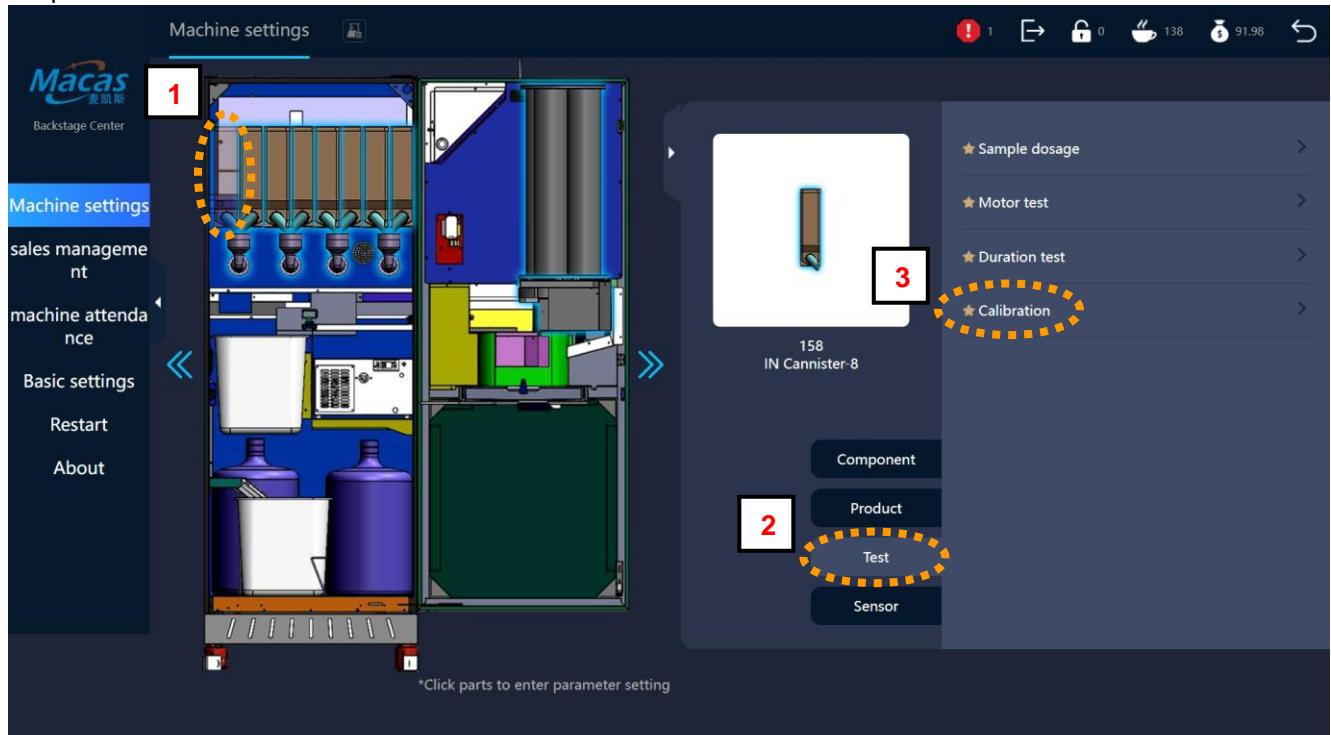
Demount the component underneath the container you wish to calibrate (brewing unit or mixer) and disassemble it. Have a vessel ready to catch the ingredient amount and to weigh it. Have a suitable scale [Type here]

(with tenth-grams-Display 00.0) ready and zero it with the empty vessel.

- Open the door with key
- Press “Operator menu button” in customer interface will go to operator menu
- Press “Machine settings” button



- 1、Press the “container” you want to calibrate (one of those).
- 2、Press “test” button
- 3、press “calibration” button

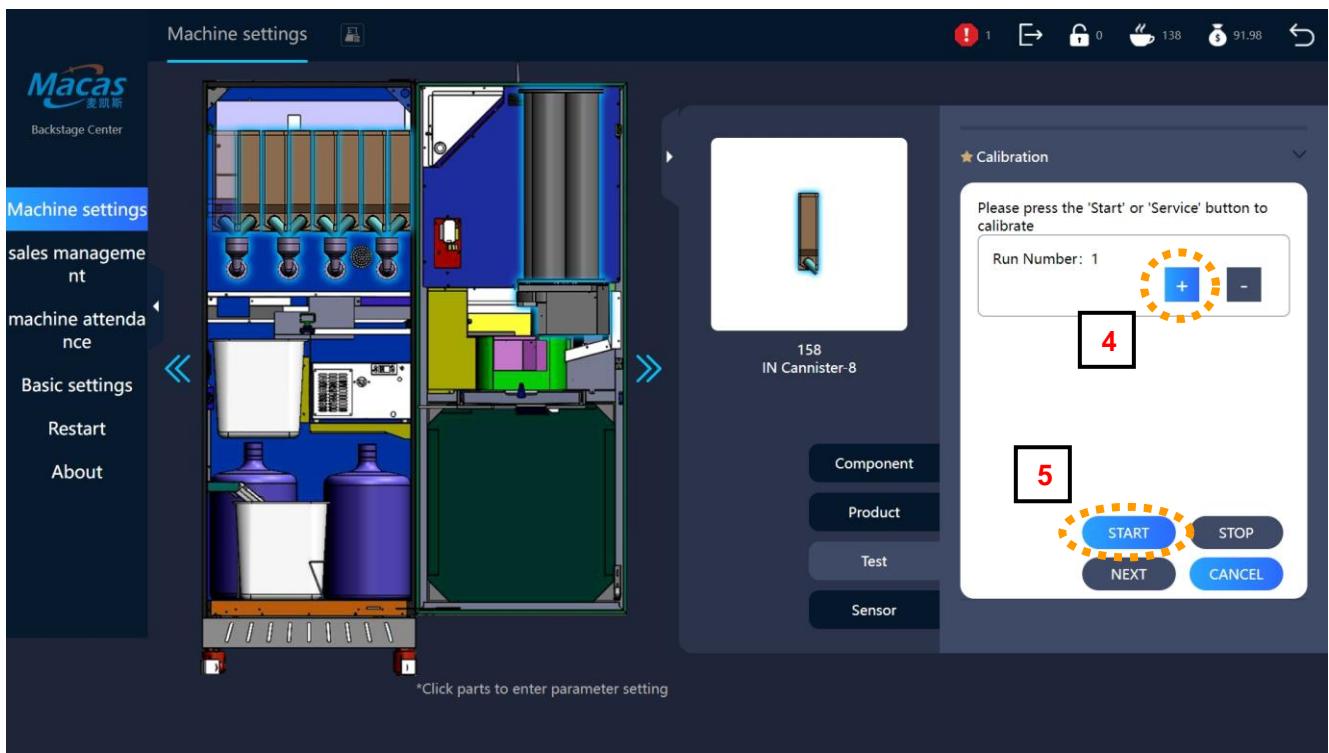


- 4、press “+” to increase run number
- 5、Pressing “Start” button, machine will dispense ingredients for 3 times.

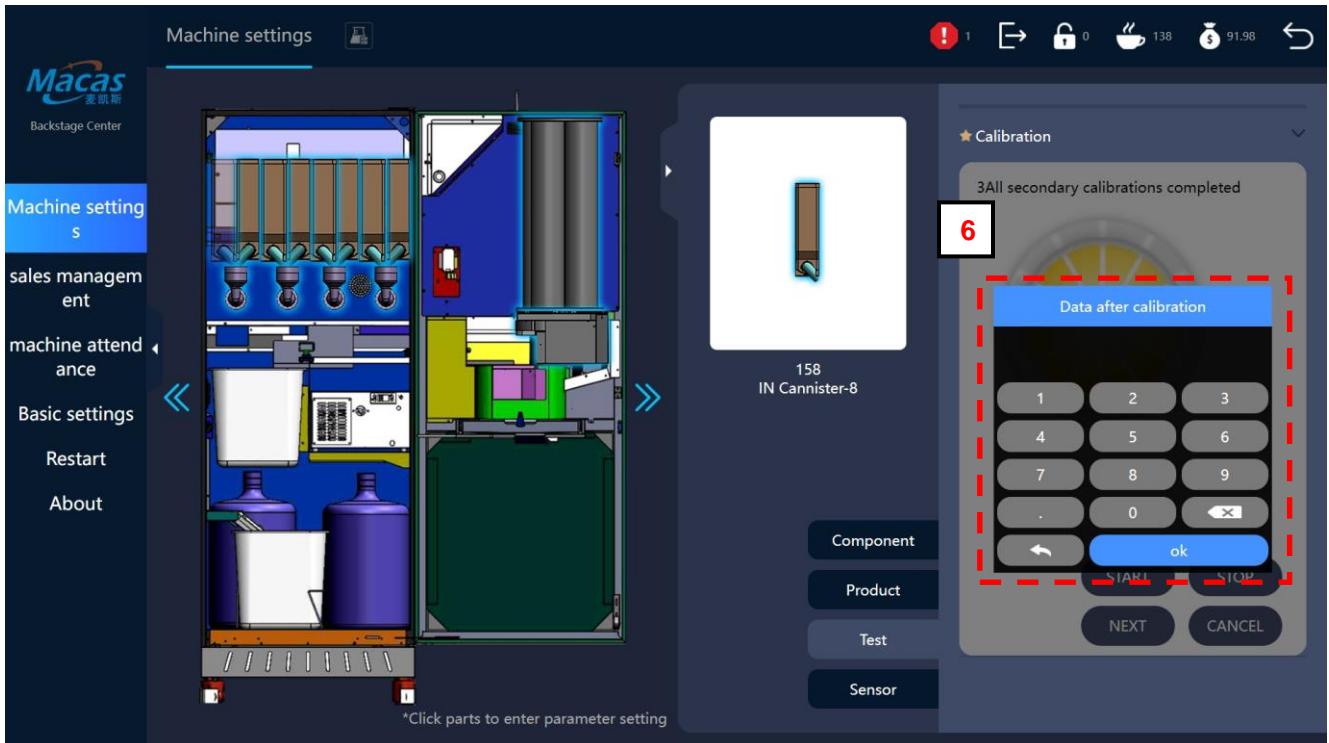
[Type here]

Note:

After confirming the ingredient dispensation, you have 5 seconds to hold the vessel underneath the dispensation opening of the container.



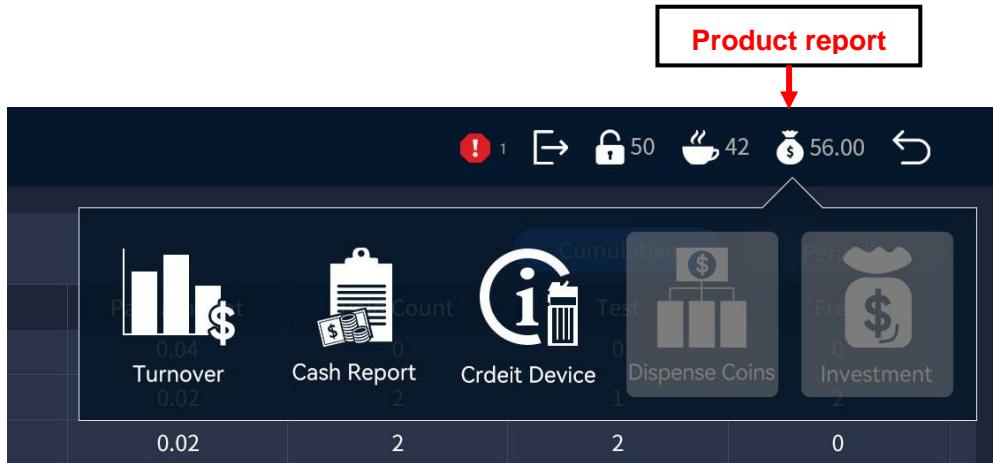
6、Weigh the dispensed ingredients and input the weight to machine via the touch panel.



7、Test dosage is required to verify the calibration. The weight should be almost same (+/-0.2 g) as desired weight. If not, repeat from previous step

[Type here]

4 Reports & credit



4.1 Product report

The product report shows sales amount of all products:

Product Counter					
Product Name	ID	Paid Amount	Paid Count	Cumulative	Periodic
Double Espresso	801	0.04	0	0	0
Mocha	806	0.02	2	1	2
Latte	810	0.02	2	2	0
Coffee Machiatto	805	0.01	1	5	1
Cafe Au Lait	814	0.00	0	0	0
Cocoa Shot	500	0.00	0	0	0
Chocolate	770	0.00	0	0	0
Espresso Black	800	0.00	0	0	0
P3&P4	802	0.00	0	0	0
P5&P6	803	0.00	0	0	0
AmericaL Coffee	807	0.00	0	0	0
S3	808	0.00	0	0	0
S4	809	0.00	0	0	0

The cumulative/periodic are from the EVA standard concept: since init/since reset. The “Cumulative” means that the sales amount is never reset, is from the beginning of this machine valid. The “periodic” will be reset to all zero once the EVA PDA or remote data collection happens.

Click on the title of each column can sort the table out.

Note: The Product Name and ID are from the IPD file (please refer to the *IPD Designer user manual*), they are not the name from customer user interface.

4.2 Credit

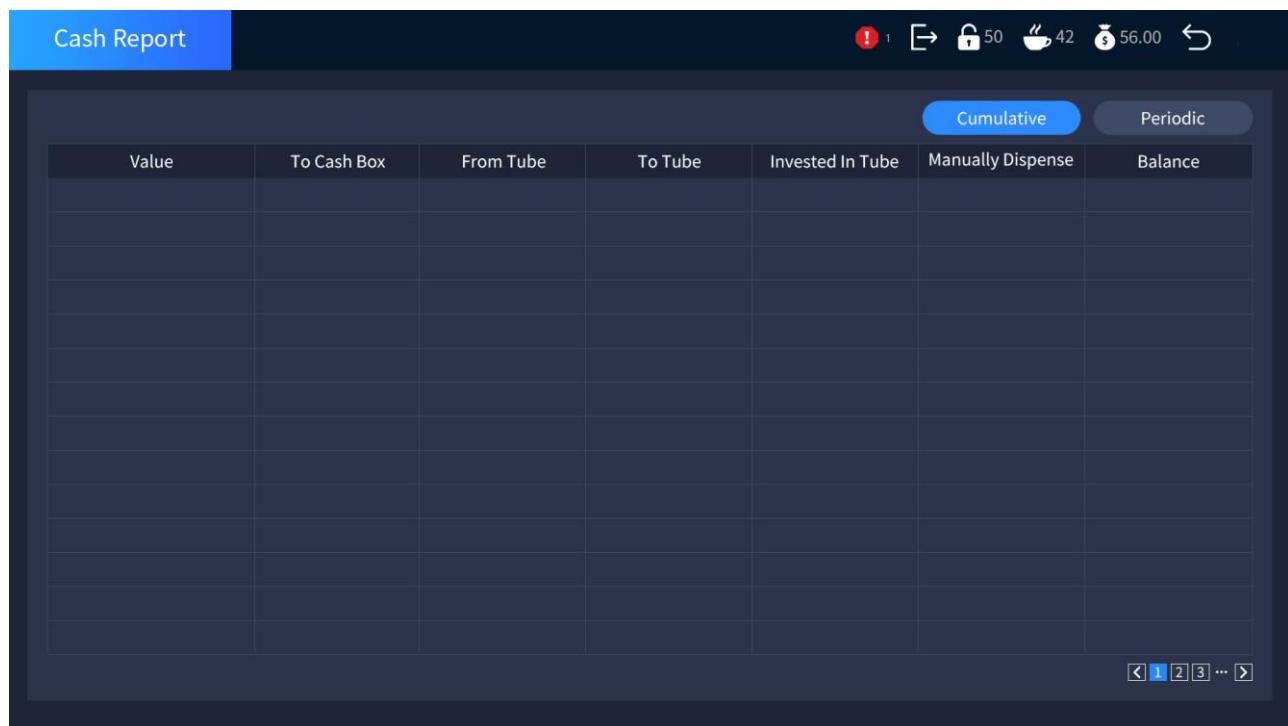
4.2.1 Turnover report

Turnover report is the total of all vend types.

Name	Test	Free
Paid Vend	¥ 0.02	15
Discount	¥ 0.00	2
Surcharge	¥ 0.00	0
Cash Vend	¥ 0.00	3
Cashless1 Vend	¥ 0.00	0
Cashless1 Vend	¥ 0.02	0
Token Vend	¥ 56.12	33
Test Vend	¥ 41.00	50
Free Vend		

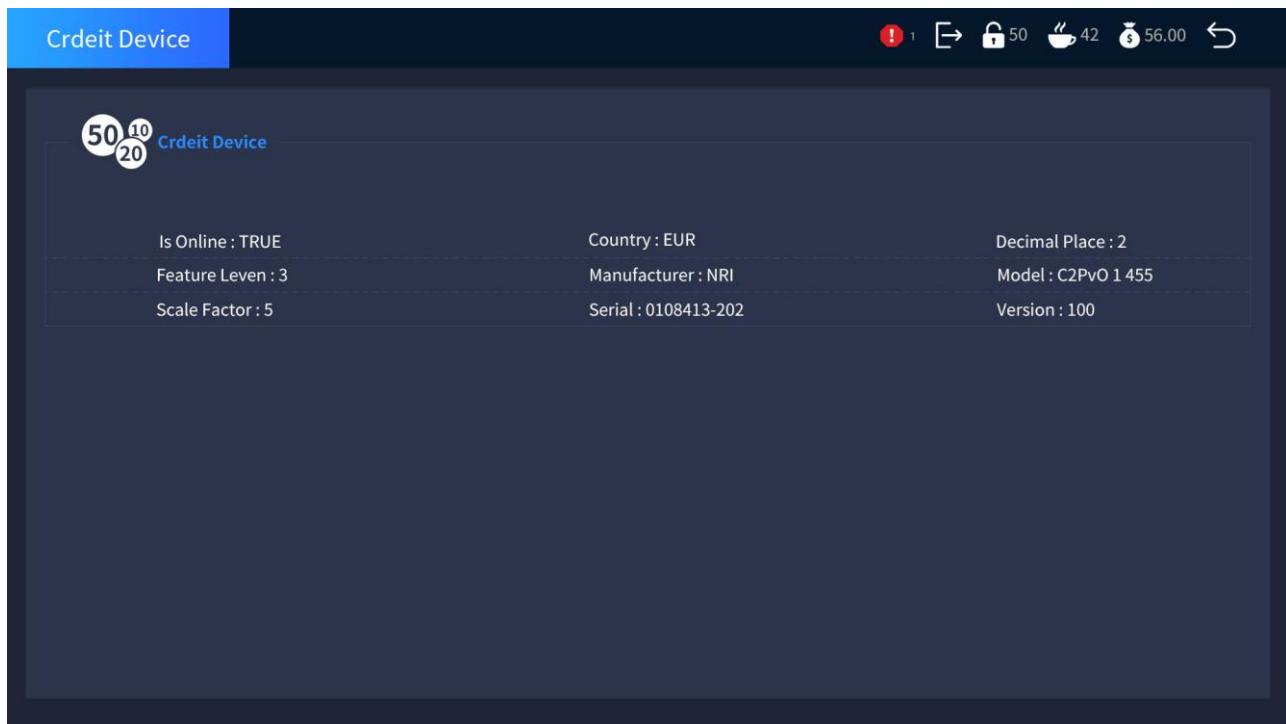
4.2.2 Cash report

Cash report is the summary of coin changer.



4.2.3 Credit device

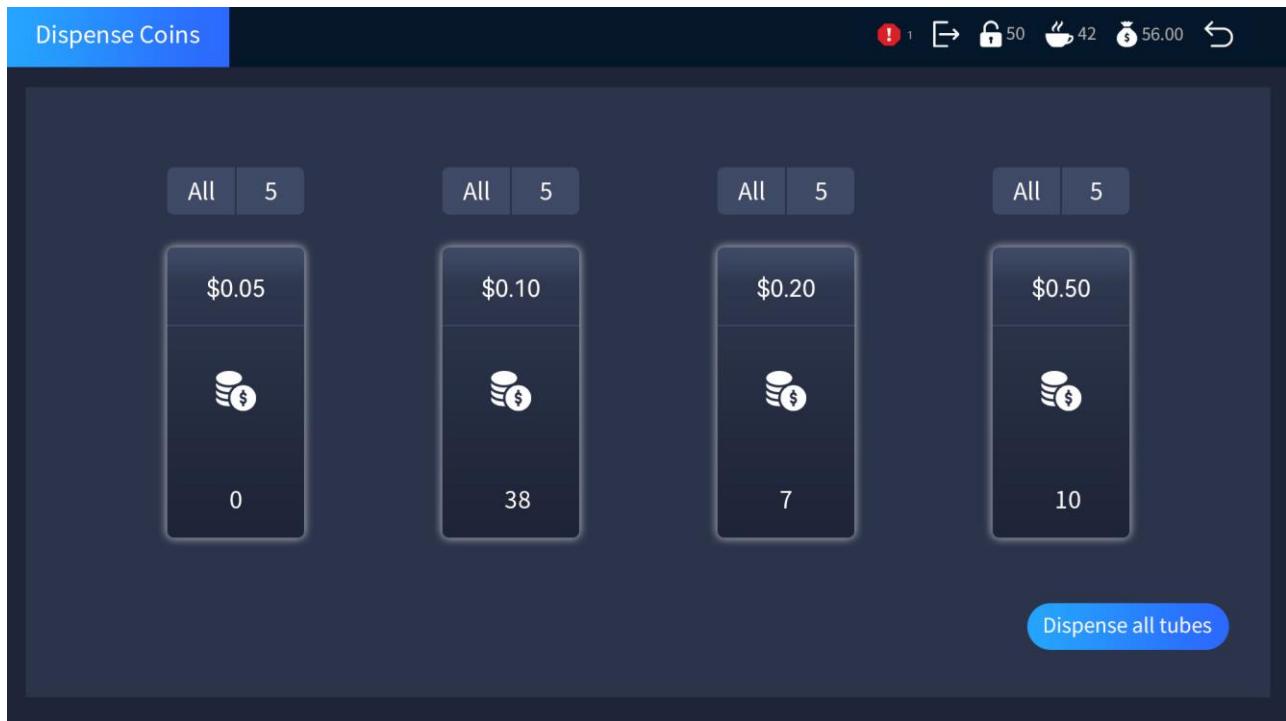
Credit device report shows the credit devices currently connected.



4.2.4 Dispense coins

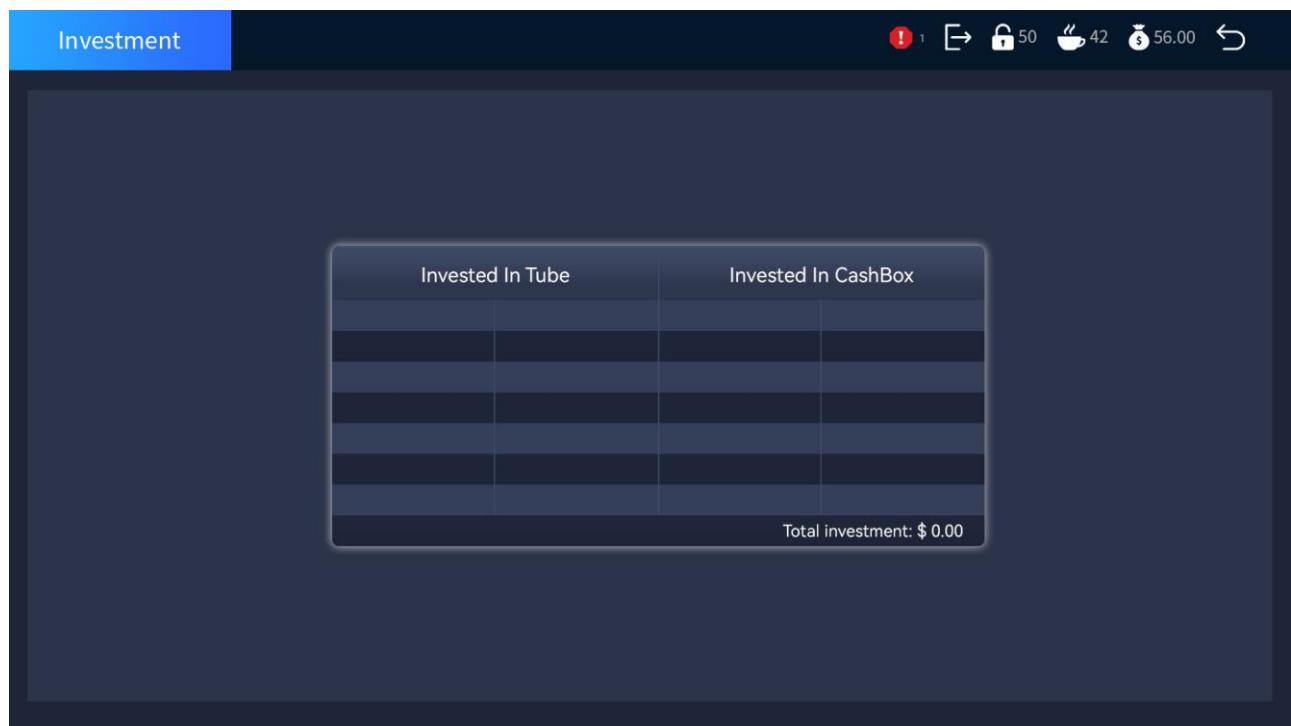
Dispense coins provide a way to manually dispense coins from the tube. Operator use this function to collect coins. Be sure not to empty the coin, leave some coins for change.

The cash report will keep track on the figures.



4.2.5 Investment

Investment is to throw coin in the tube to leave for future change. In fact, when go into operator user interface. Any coins will be investment. This investment screen is a convenient way to see how much already throw in.



5 Function buttons

5.1 Machine

The “Machine” button shows all the components in the machine. Besides, door icon can adjust and test the door component, including lights, lock and escrow motor. **The magnifier icon on top right can zoom in and out.(是否保留)**

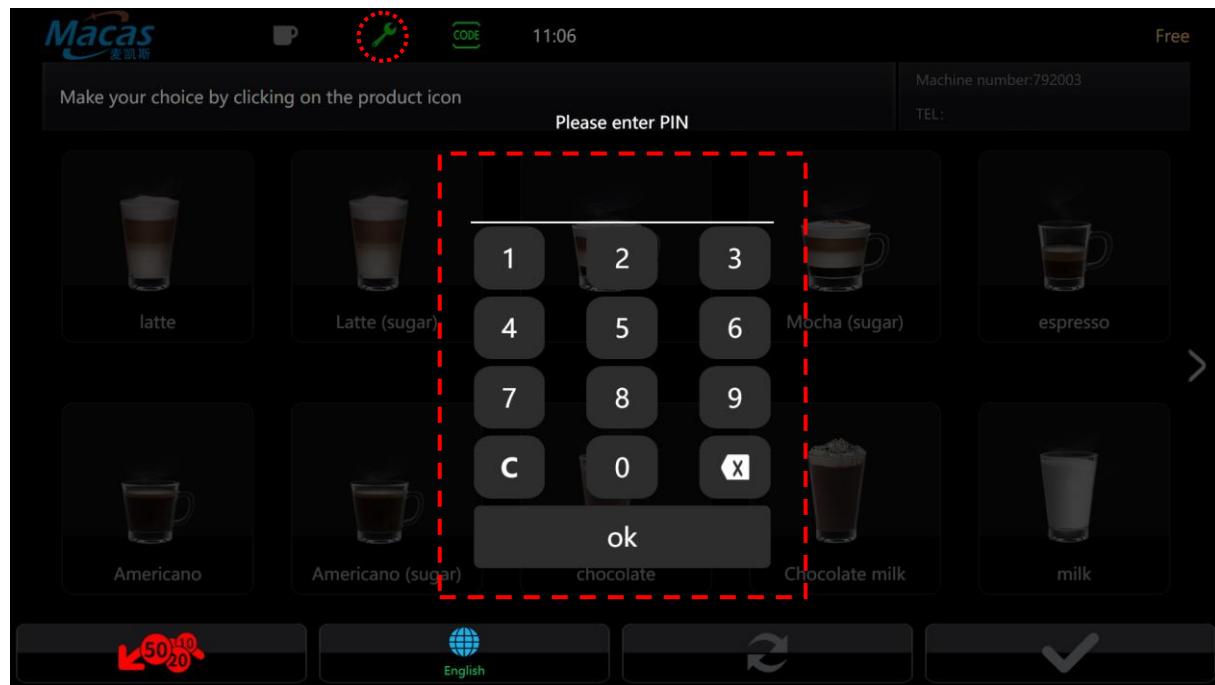


For specific machine Settings, please refer to the coffee machine parameter description

5.2 Product

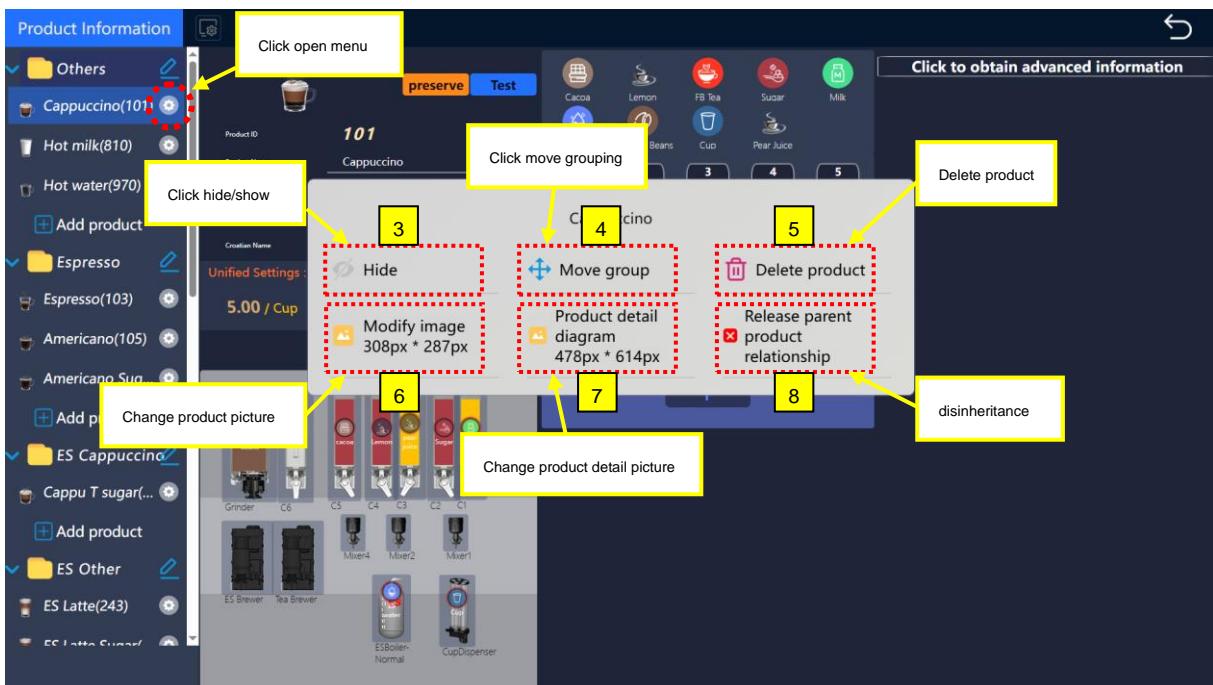
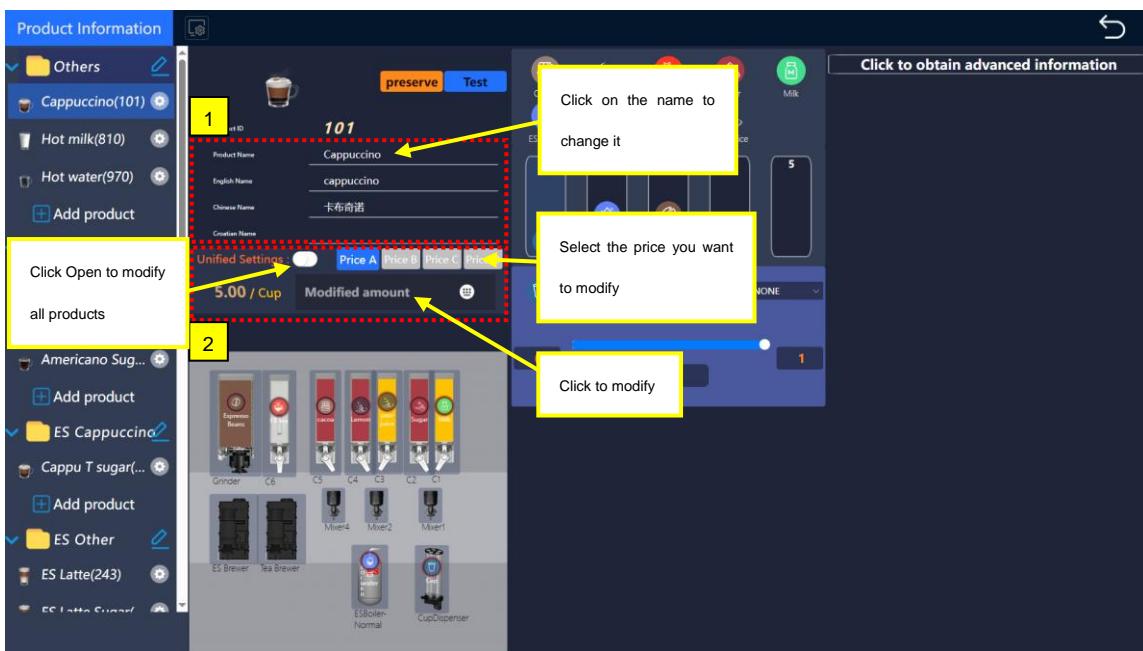
5.2.1 Open product Settings

Click wrench key, import password “1010” enter into product setting interface



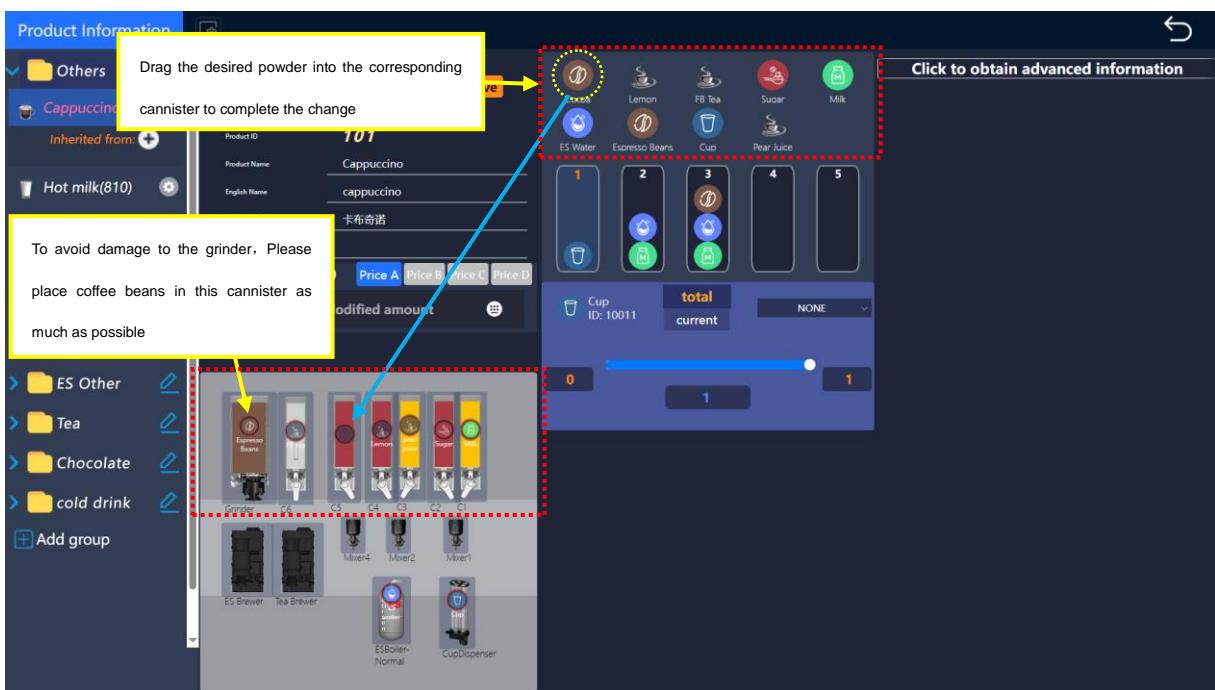
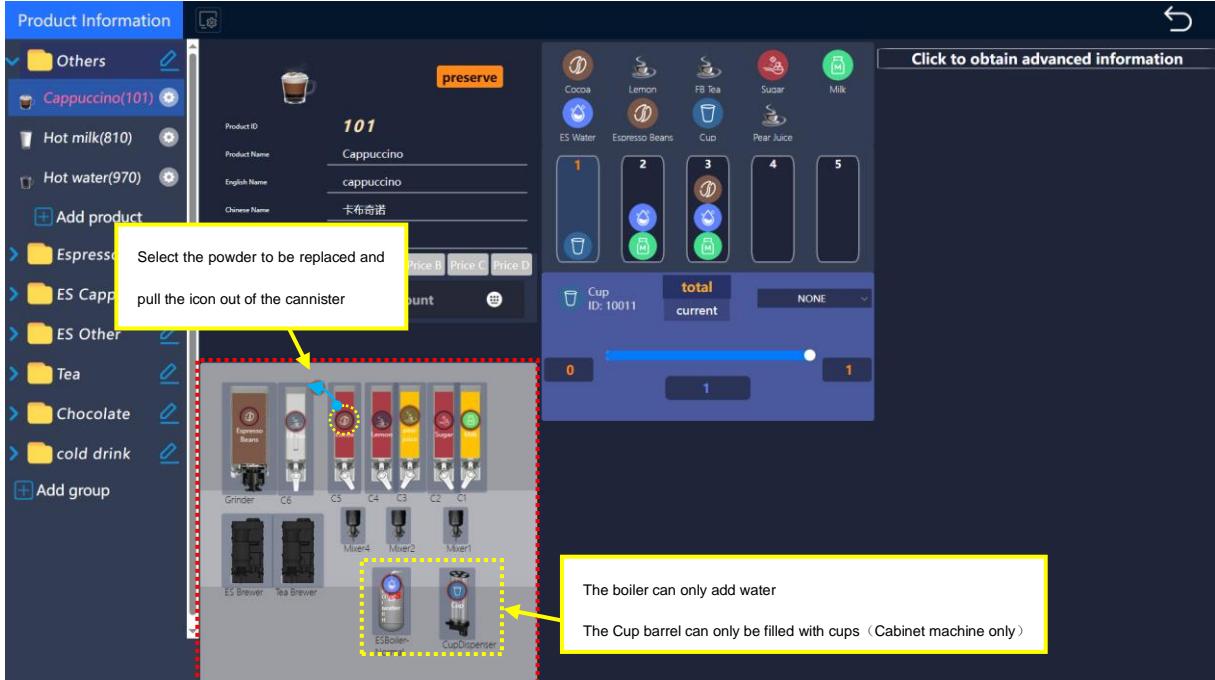
5.2.2 Product basic Settings

1. Product name: You can set the name of the product in different languages
2. Product price: click “Unified Setting” prices of all product can be set at the same time , Each product can be set up to four selling prices
3. hide product: Make the product appear or hide in the sales screen
4. Product grouping: Assign products to appropriate groups
5. delete product: delete the produce in menu bar
6. Change product picture: change product picture in sales screen
7. Change the product details picture: change sales screen product detail picture
8. Relieve product inheritance relationship: Unset the Settings inherited by the inherited product



5.2.3 Product recipe management

- Cannister setting: cannister powder type comes with default Settings (By machine definition), You can adjust the type of powder placed in the cannister

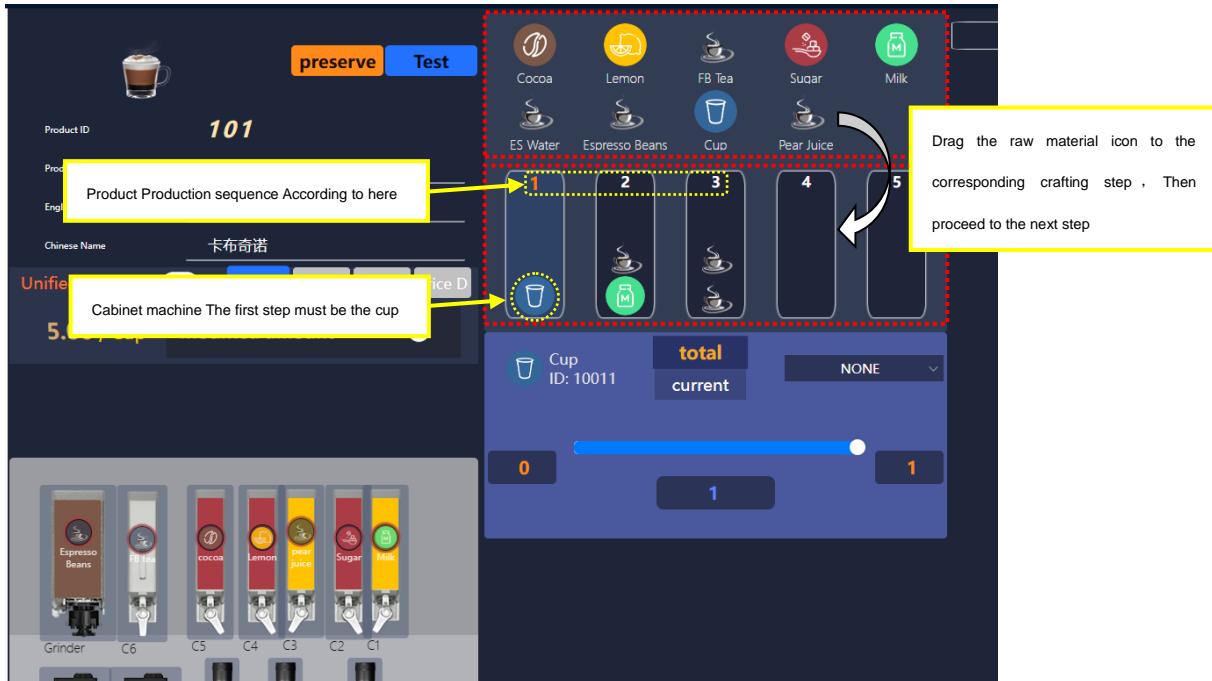


2. raw material setting: raw material category Factory default Settings (By machine definition) , You are free to change it

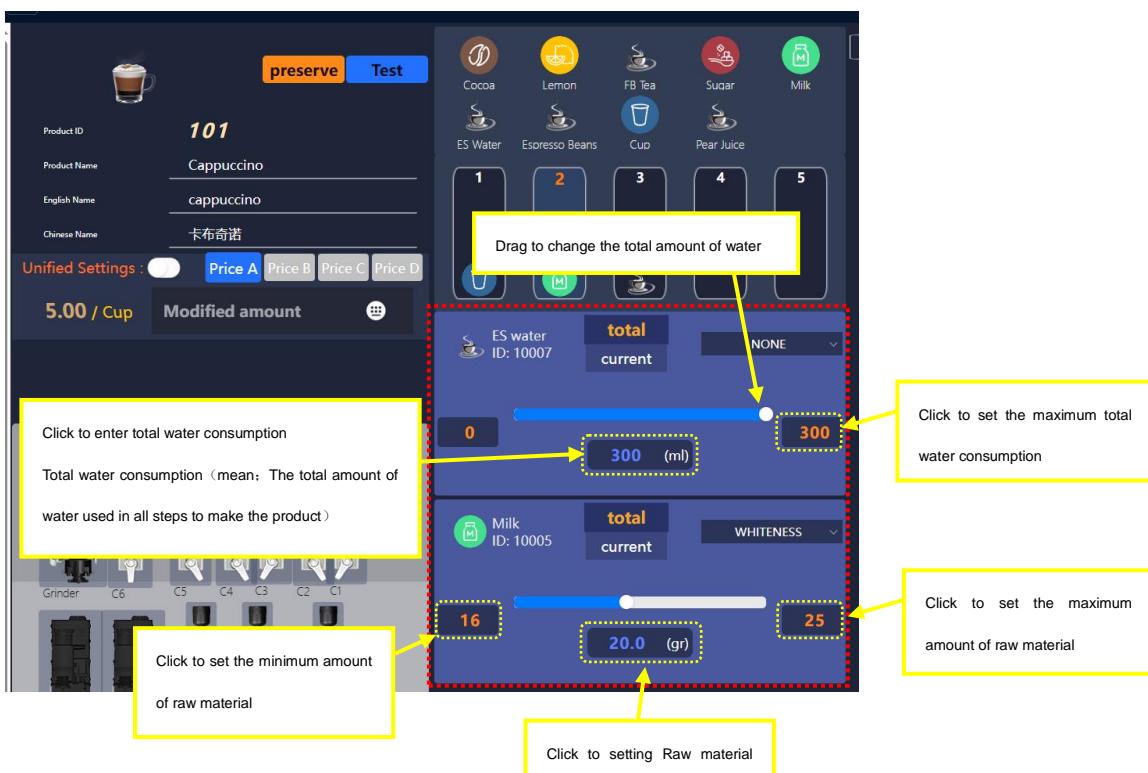


5.2.4 product recipe setting

- Custom recipe raw materials: Change the raw materials and production order in the recipe



- Recipe raw material setting: Set raw material usage and water percentage, Set the drink raw material concentration



The screenshot shows a coffee machine's control panel for product ID 101, Cappuccino. The top left displays the product name and various settings. The top right shows icons for different ingredients and steps. Below these are two detailed panels for raw materials:

- ES Water (ID: 10007):** Shows a total consumption of 210 (ml) with a current percentage of 70 (%). A note indicates: "click ‘current’ See the percentage of water used for this step".
- Milk (ID: 10005):** Shows a total consumption of 20.0 (gr) with a current value of 16. A note indicates: "Click to modify the water consumption for this step. After the water consumption is modified, the water consumption in other steps will also change, but the total water consumption will not change".

A yellow box highlights the "current" button for water consumption.

Raw Material Adjustment:

A yellow box highlights a dropdown menu for adjusting raw material levels, with the option "STRENGTH" selected. A note says: "Click here to choose whether the amount of raw material is adjustable".

Sales Interface:

The bottom section shows a sales interface for product code 102. It includes fields for Product Code, TEL, and a note: "The product you selected is: Cappuccino (sugar)". Below this are three containers representing Coffee, Sugar, and Milk, each with a scale from 0 to 5. A note says: "The color options correspond one to one".

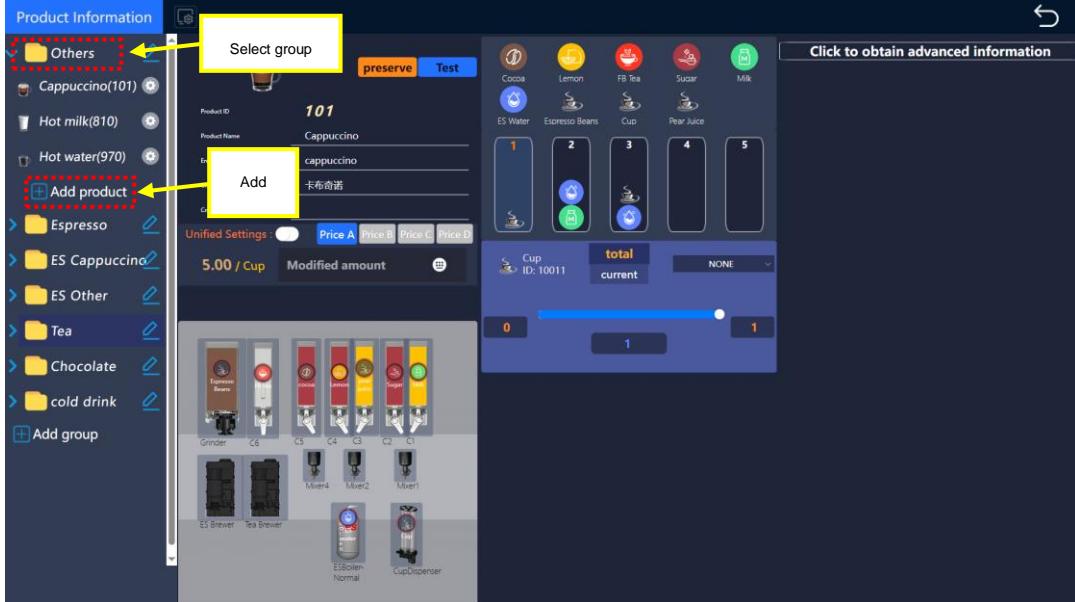
Concentration Levels:

A yellow box highlights the concentration levels for each container. A note says: "The sales interface shows that the concentration level is divided into 5 levels. The maximum and minimum values set here correspond to levels 5 and 1, remainder equally".

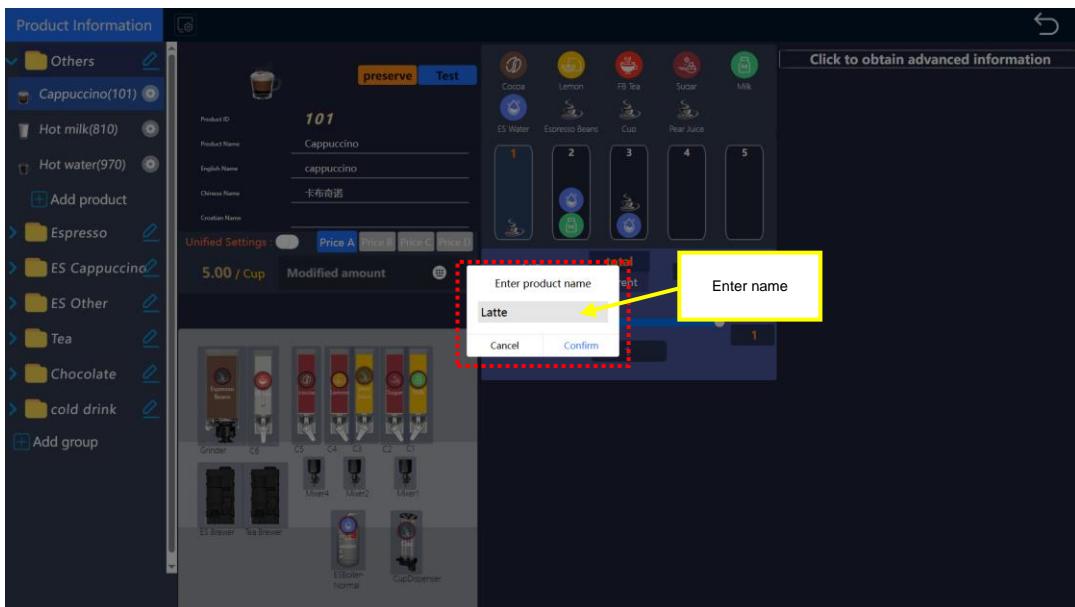
5.2.5 Add product

Here is an example of adding a latte

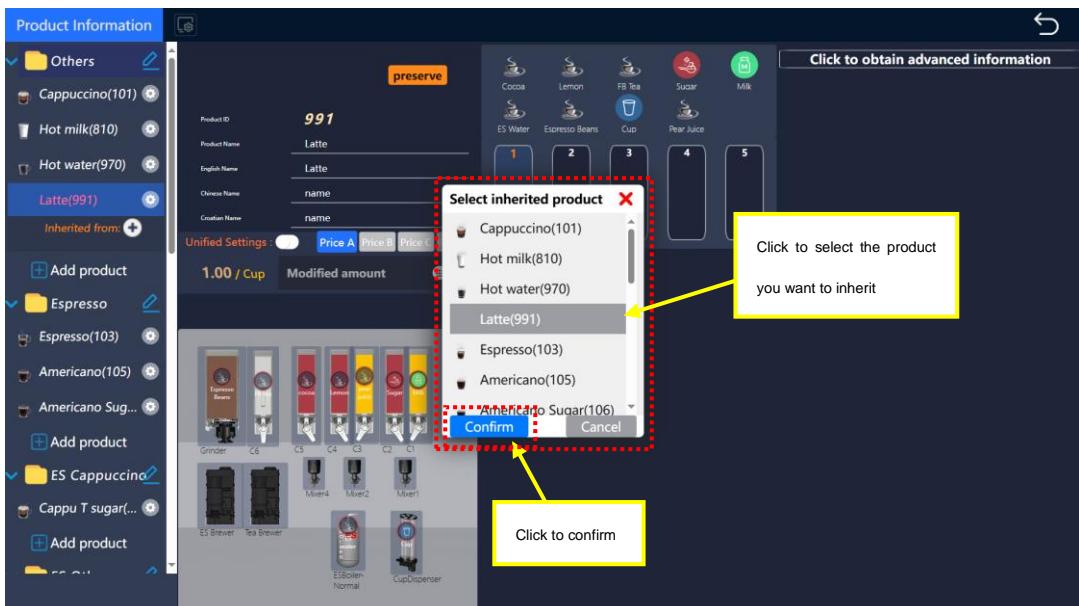
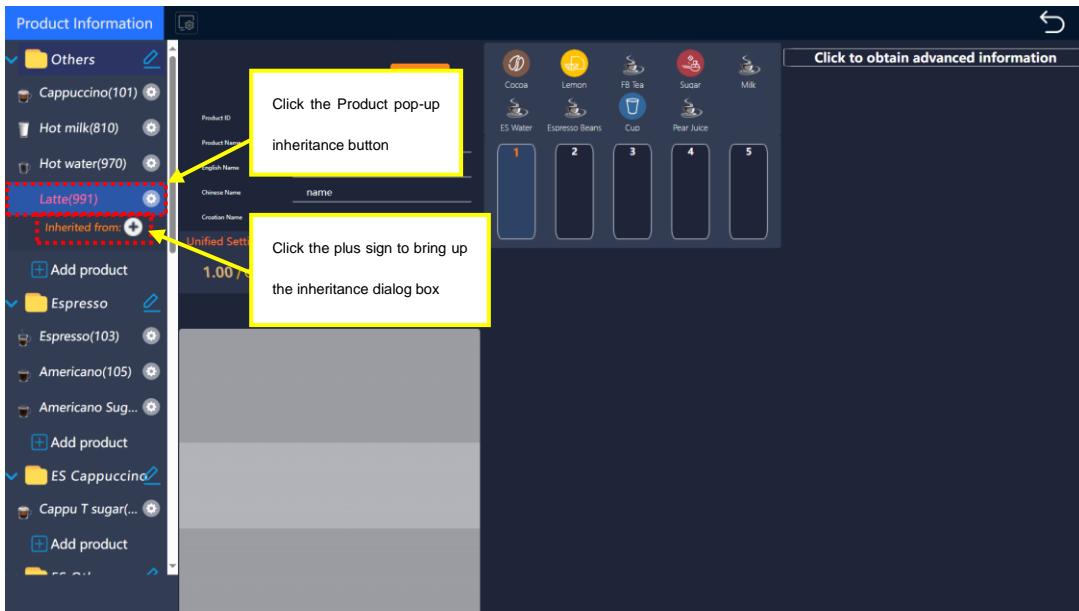
1. Select the group to which you want to add products, click to add product



2. enter new product name



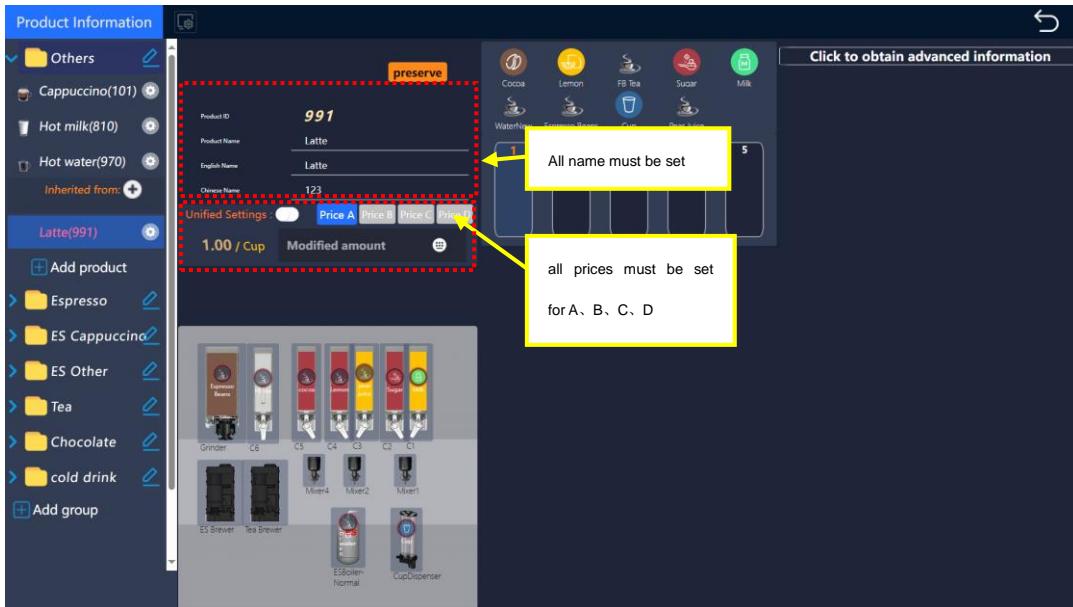
3. Choose to inherit an existing product or customize new products (just show Inherited product process, customize new products please Ignore this step)



4. Set up product pictures and details picture (refer to 5.2.2)



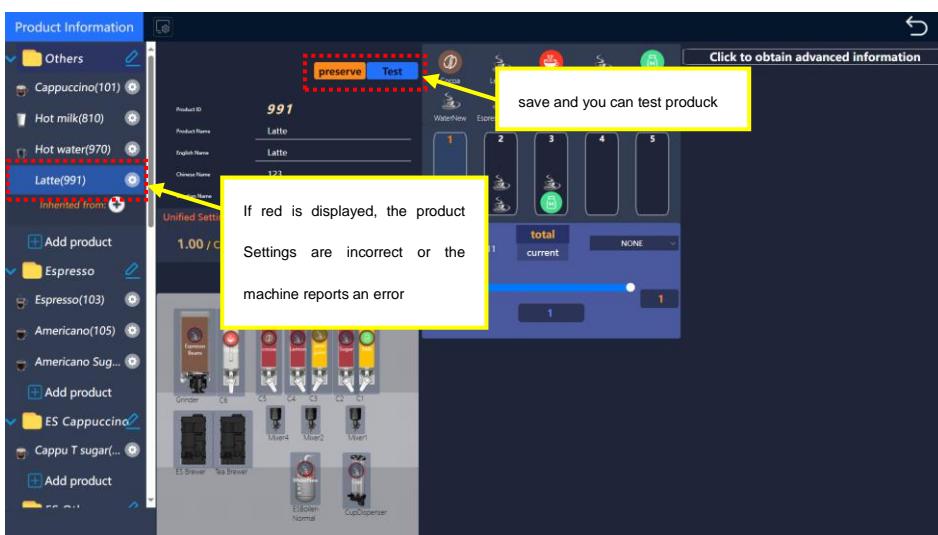
5. Set product name and price (refer to 5.2.2)



6. Add raw materials to the crafting bar and set parameters (refer to 5.2.4)



7. save and test

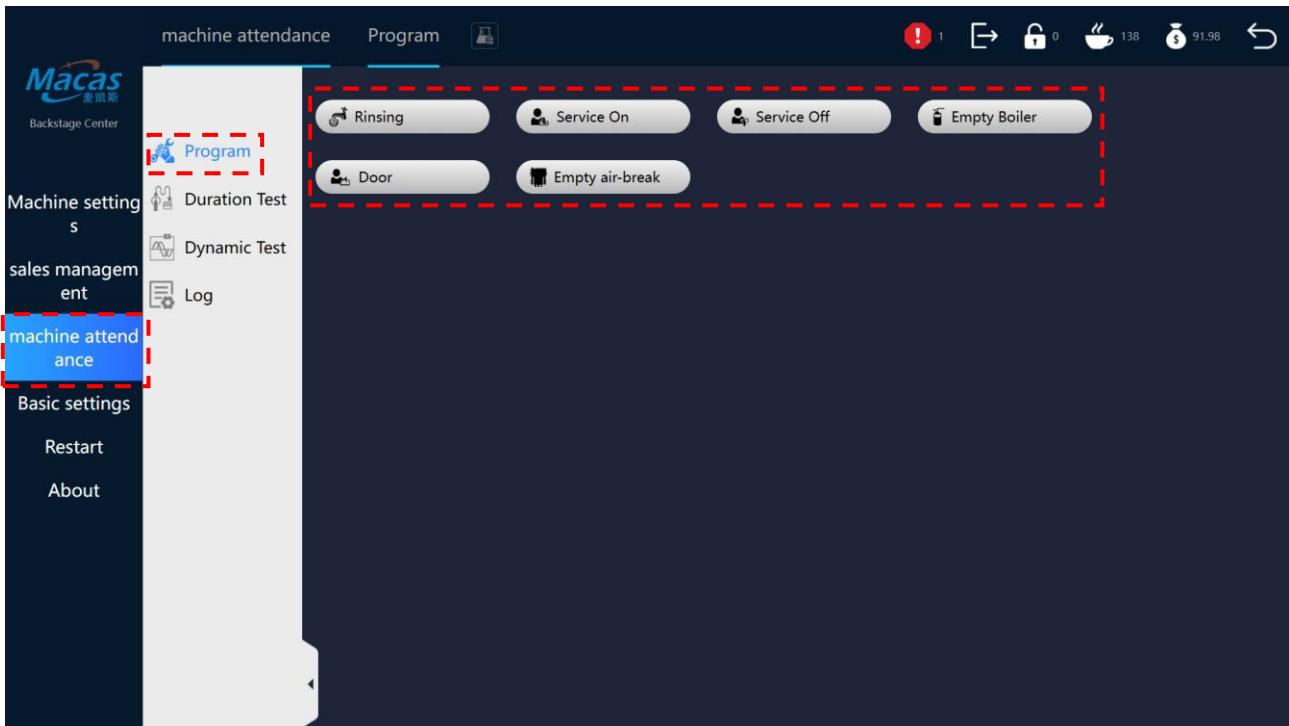


5.2.6 Recipe import and export

For details, see Section 5.8

5.3 Program

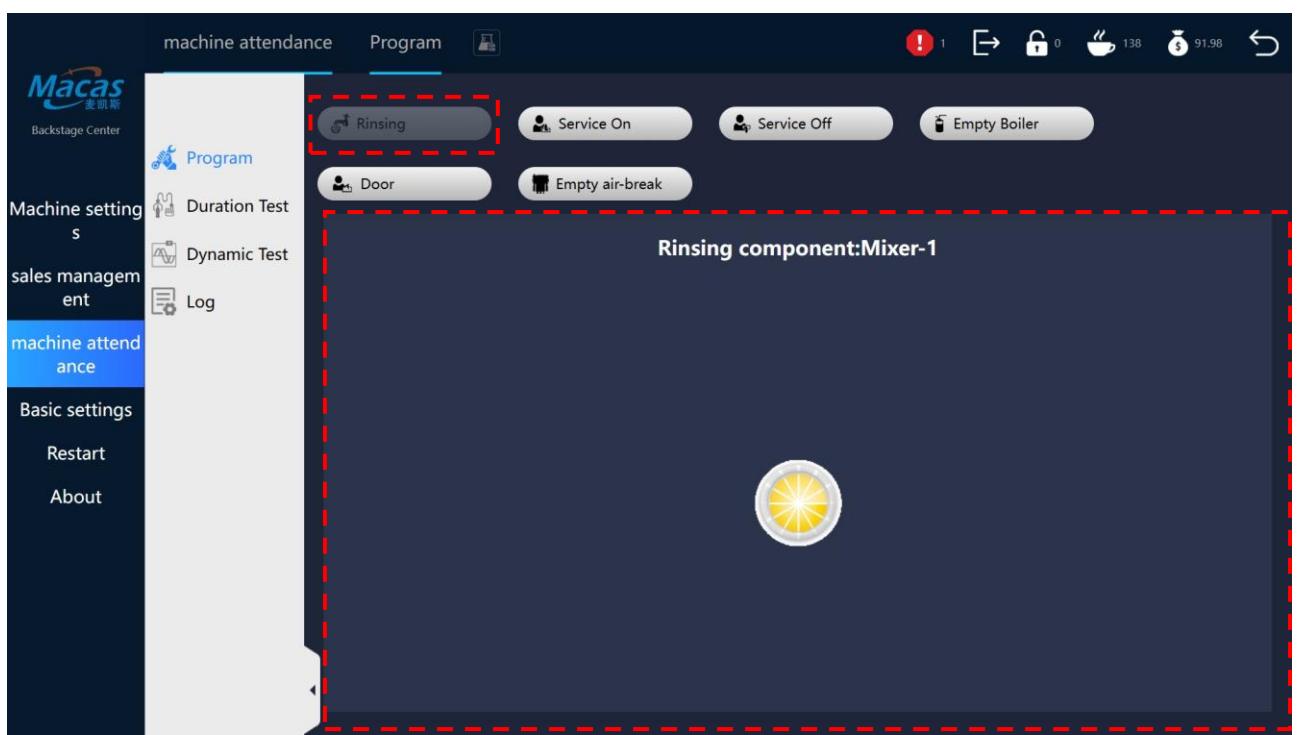
A menu for machine maintenance, click the “Program” icon, and the other menu will be shown:



Details of each program are introduced in 7.3.1 ~ 7.3.6 .

5.3.1 Rinsing

Clean the water route:



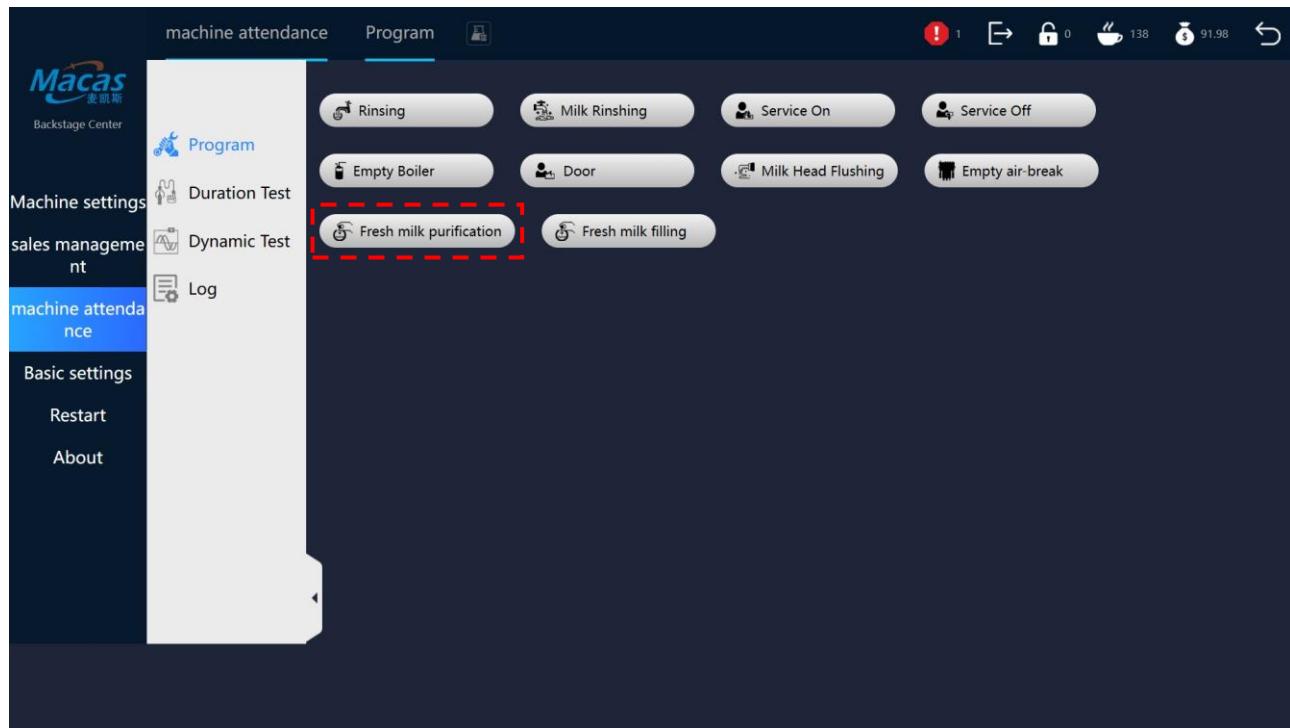
The flushing process is displayed in a blank screen below the program

5.3.2 Fresh milk parts rinsing

The fresh milk parts can be rinsing only.

5.3.3 Purification

Use tablets to clean waterways, In the "Machine attendance" column, select the "Fresh milk Purification" button to start cleaning



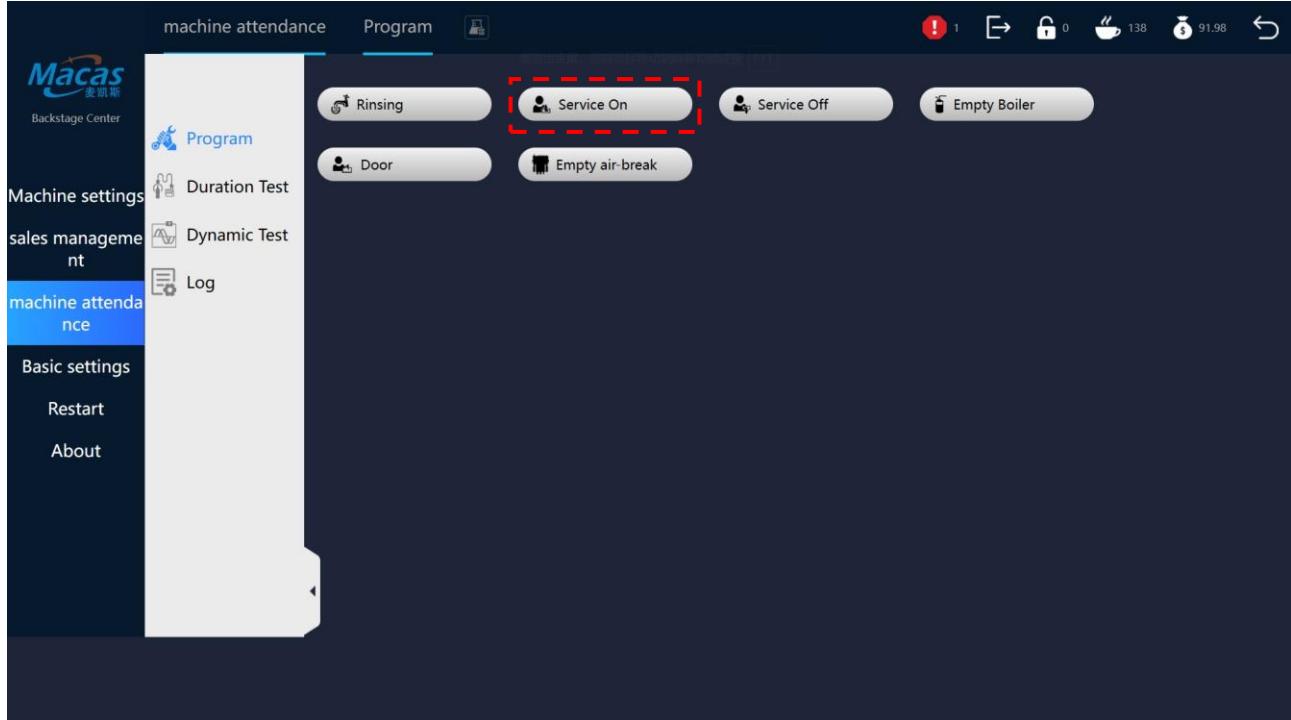
Then wait all are ready.

Click the button “Open” to start the purification job.

NOTE: If purification is interrupted, an error would be shown in the log.

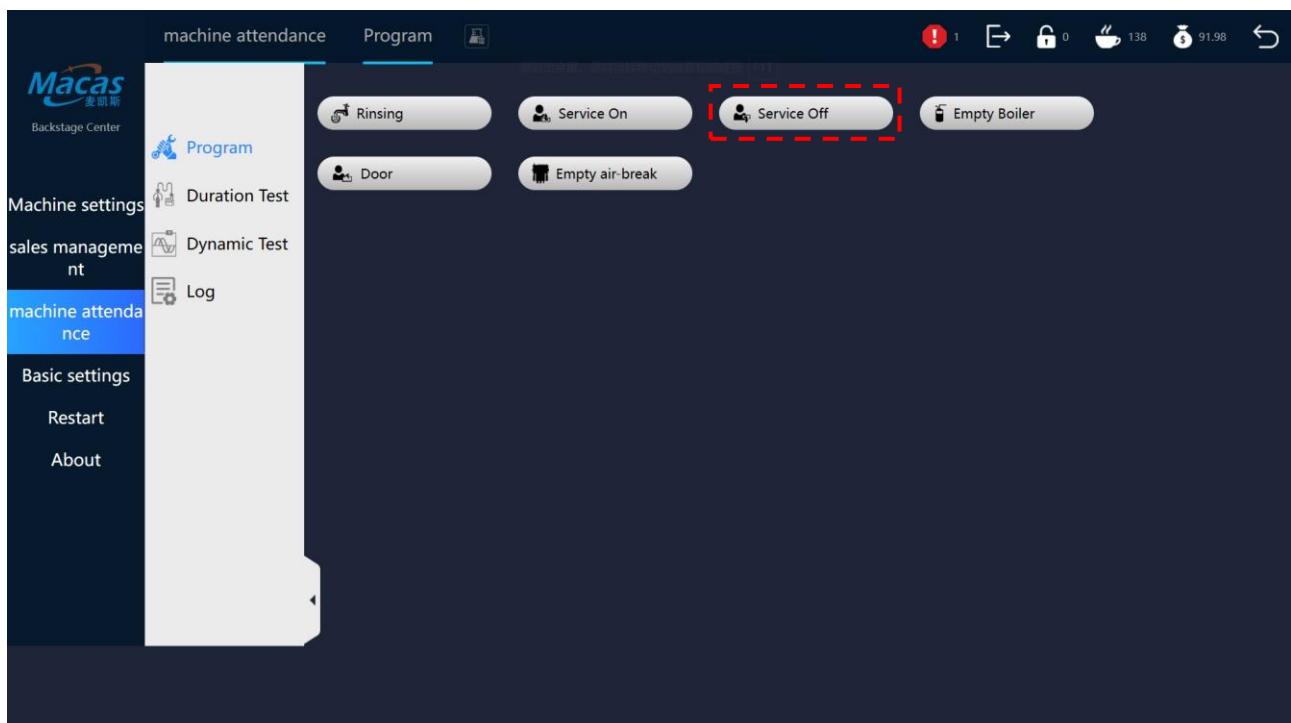
5.3.4 Service On

When click button “Service On”, it means perform maintenance with the door open.

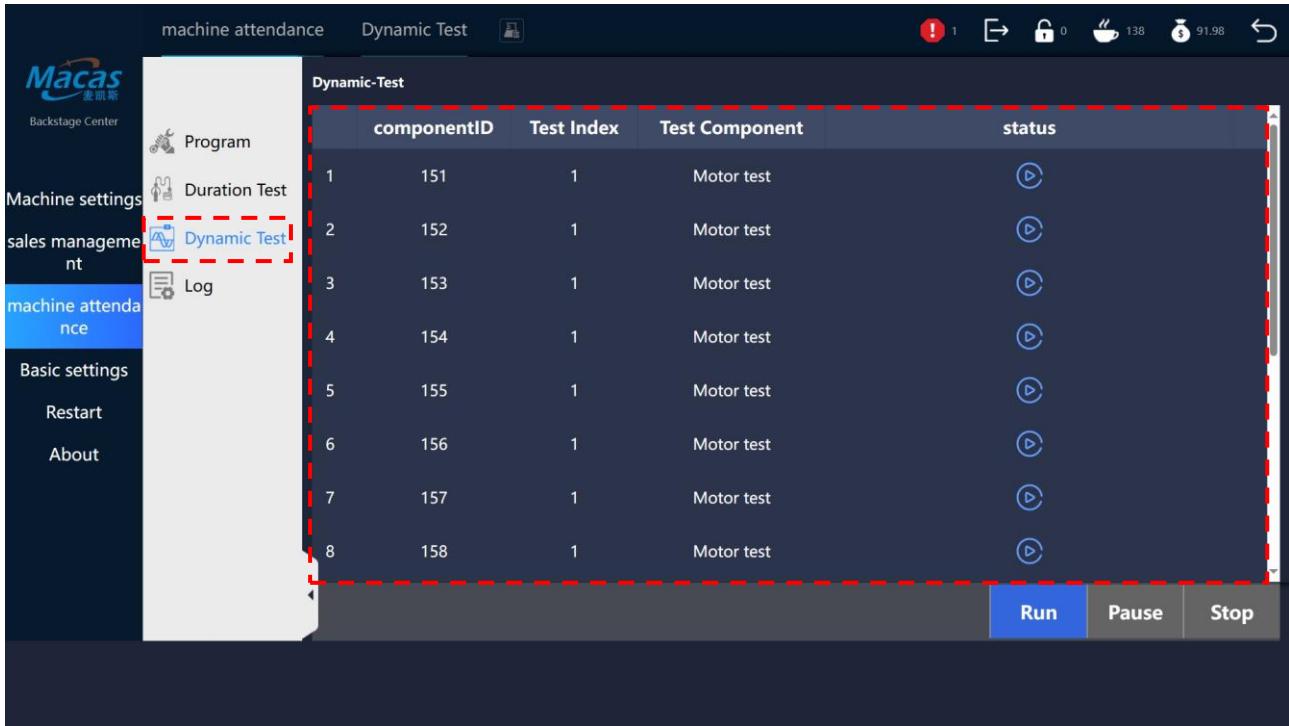


5.3.5 Service Off

When click button “Service Off”, it means perform maintenance with the door closed:

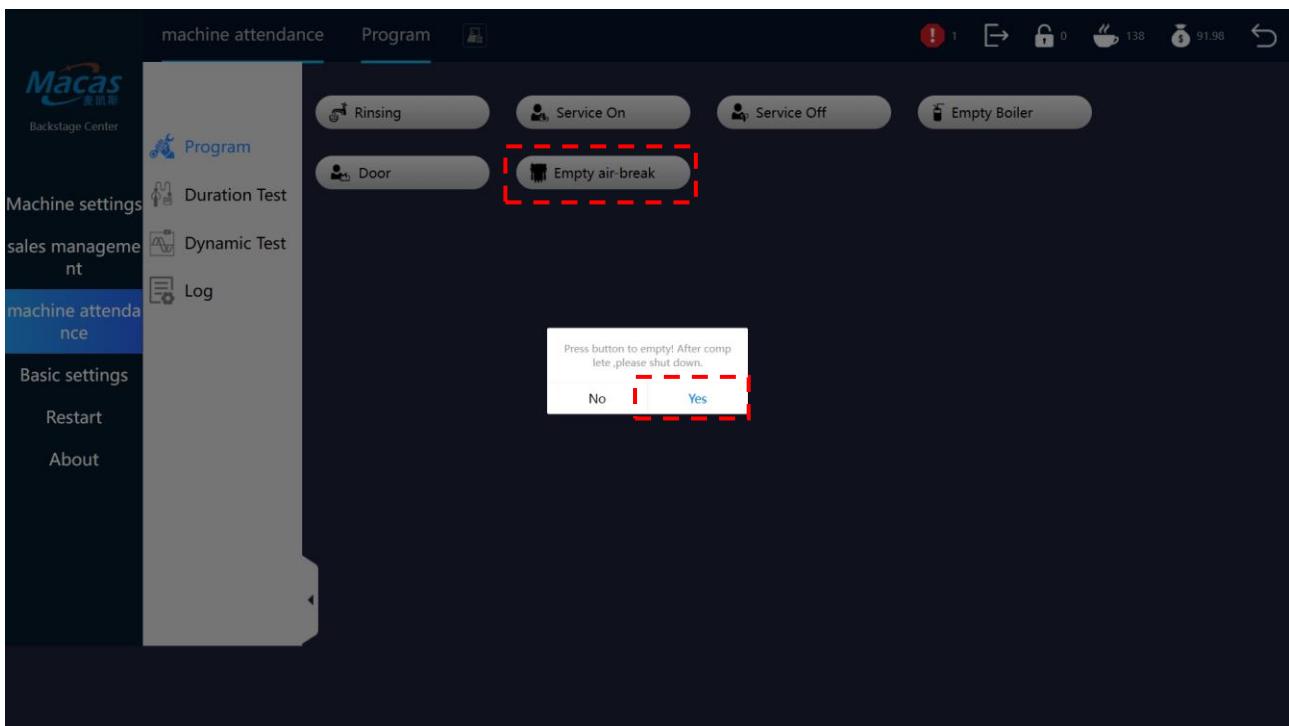


5.3.6 Dynamic test



After clicking Run, the machine will perform an action one by one according to the components displayed on the right

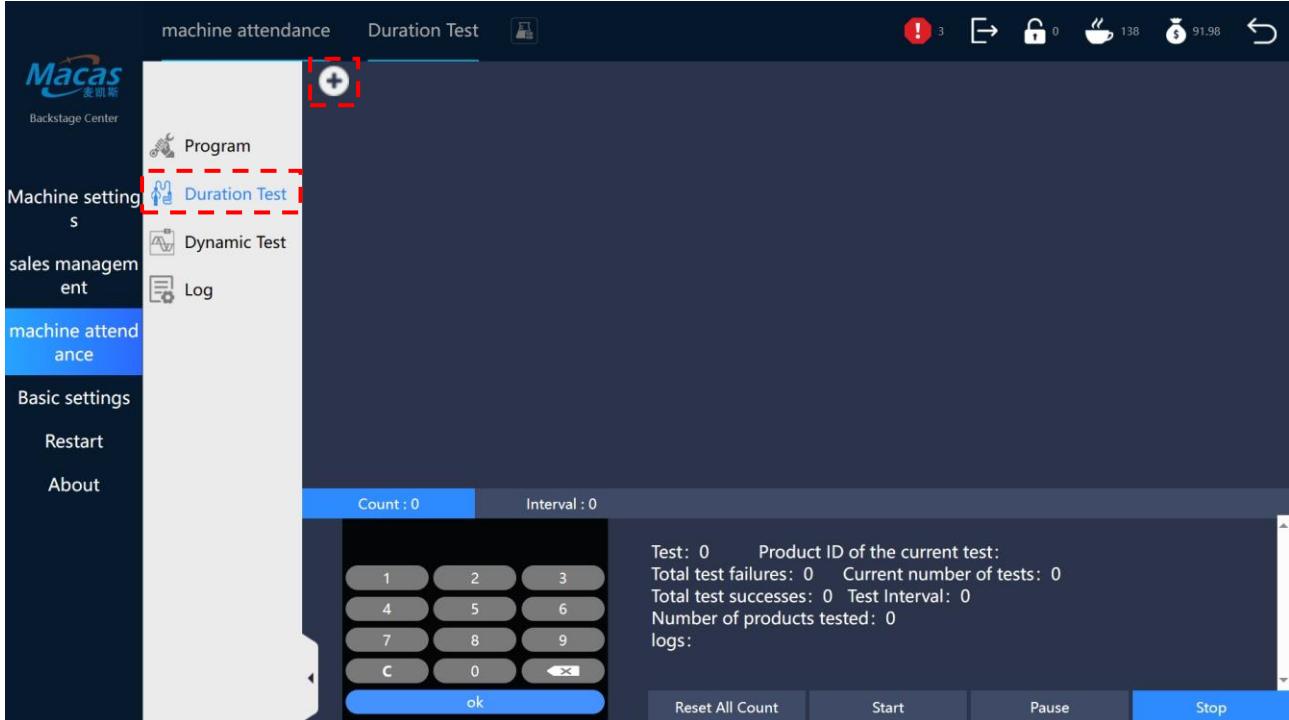
5.3.7 Empty air break



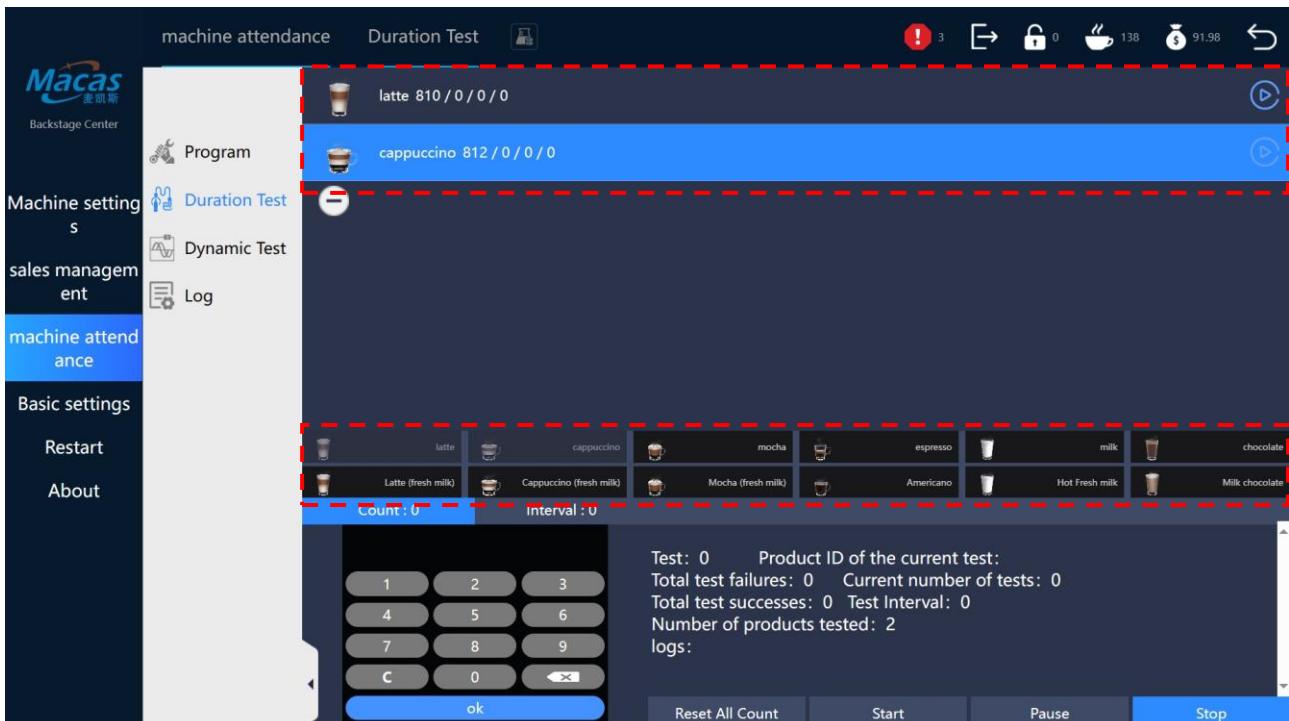
Click OK after press “empty air break” , turn off the machine after empty the tank.

5.3.8 Duration Test

Test one or more products repeatedly

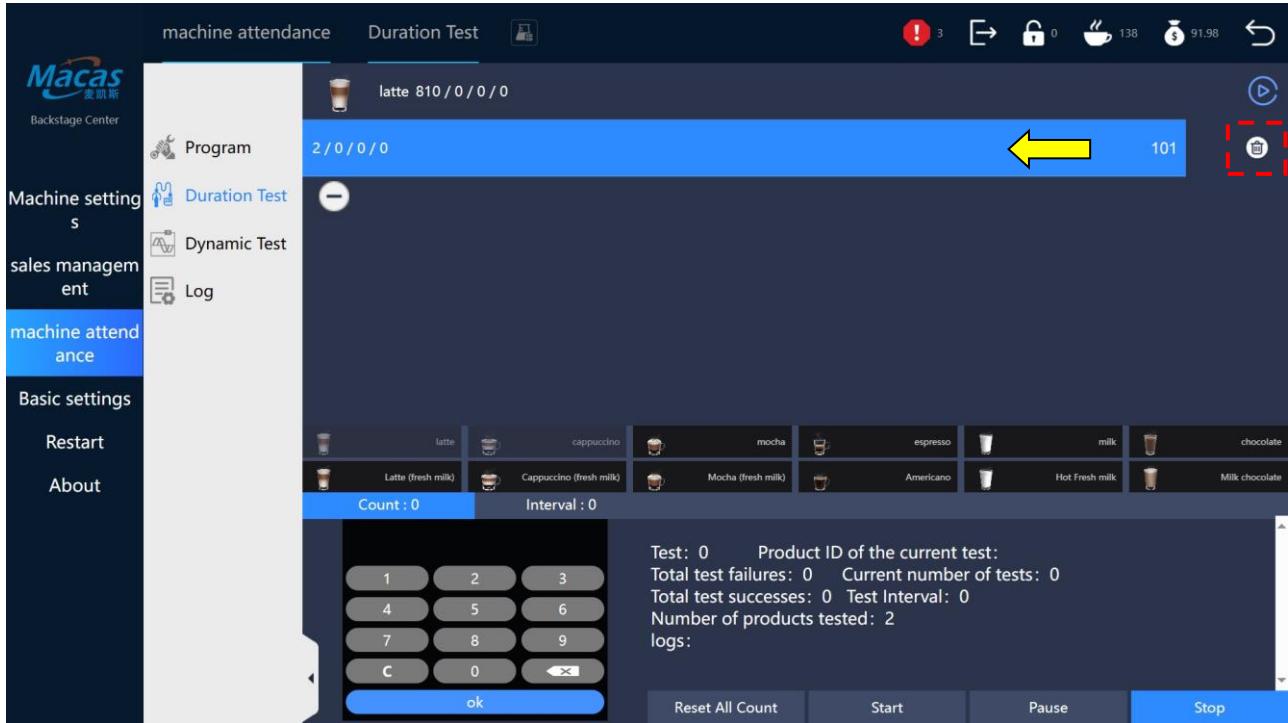


Click button “+” to add products

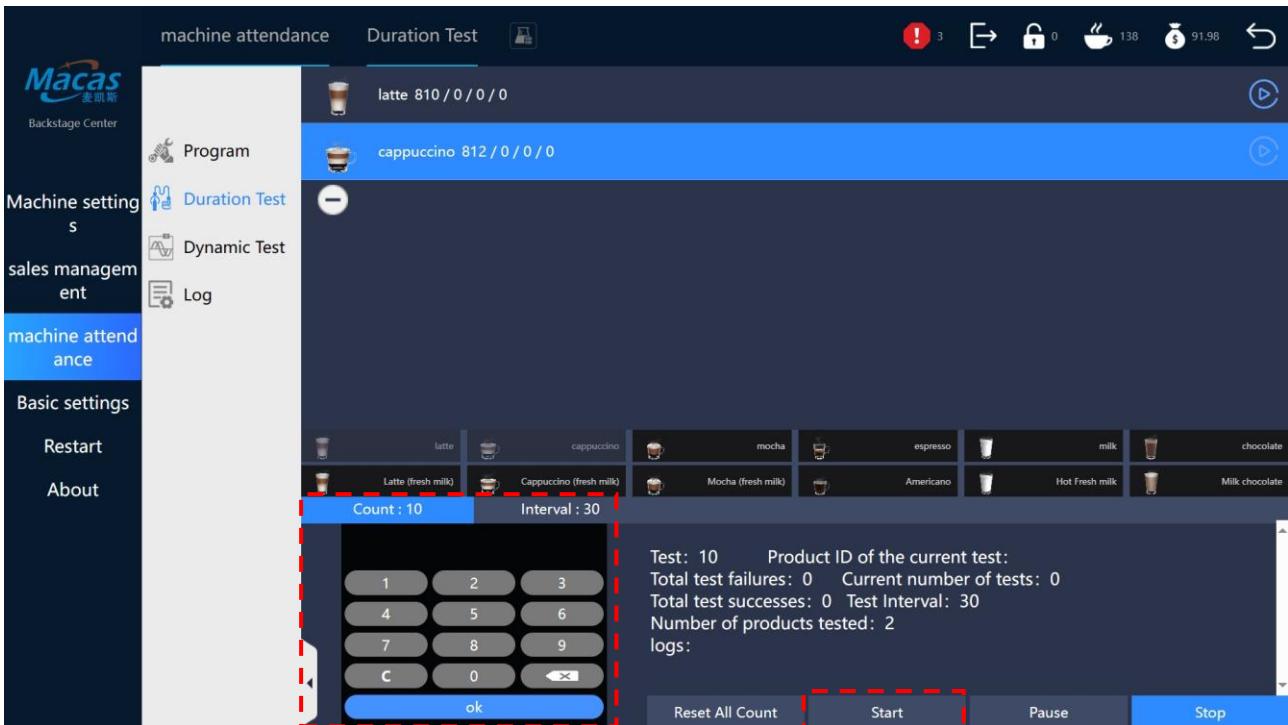


The group and product here is defined by the IPD designer.

Select one product and the product will be shown in the TODO list.



Left swipe to bring up the Delete button to produce the added product.



Button "Count: Inf." is used to set how many circle the product will run.

And click button "Interval" to set the interval of each circle.

Then click "start" to start.

5.4 Log

The page shows the log of machine, including status changes and failure information:

	id	date	info	reserved
	437	2024/03/20 11:53:54	add operator num 831	
	436	2024/03/20 11:32:26	add operator num 831	
	434	2024/03/20 11:19:38	(EFT)清空安装废 水箱	
	435	2024/03/20 11:19:38	add operator num 831	
	433	2024/03/20 10:43:43	add operator num 831	
	432	2024/03/20 10:42:50	(ECD 10 62) 鲜奶横组控制 板通讯错误	
	431	2024/03/20 10:42:43	(ENN 17)无法 连接后台服务 器	
	430	2024/03/20 10:42:26	(EE 18)酿造器 等待初始化	
	429	2024/03/20 10:42:25	设置授权: 0	
	427	2024/03/20 10:42:20	(EFG 2)正在 灌钢炉	

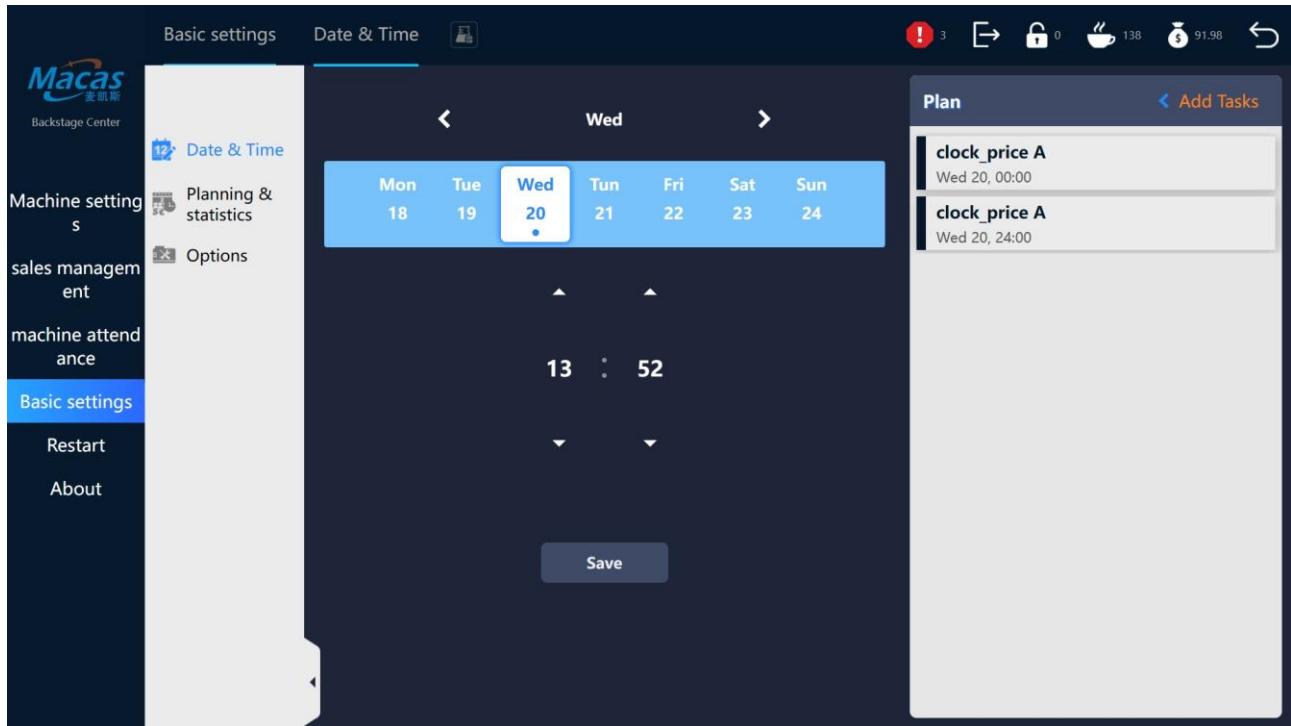
5.5 Basic settings

Mainly set the time date plan and detailed options

- Date & Time
- Planning & statistics
- Options

5.5.1 Date & Time

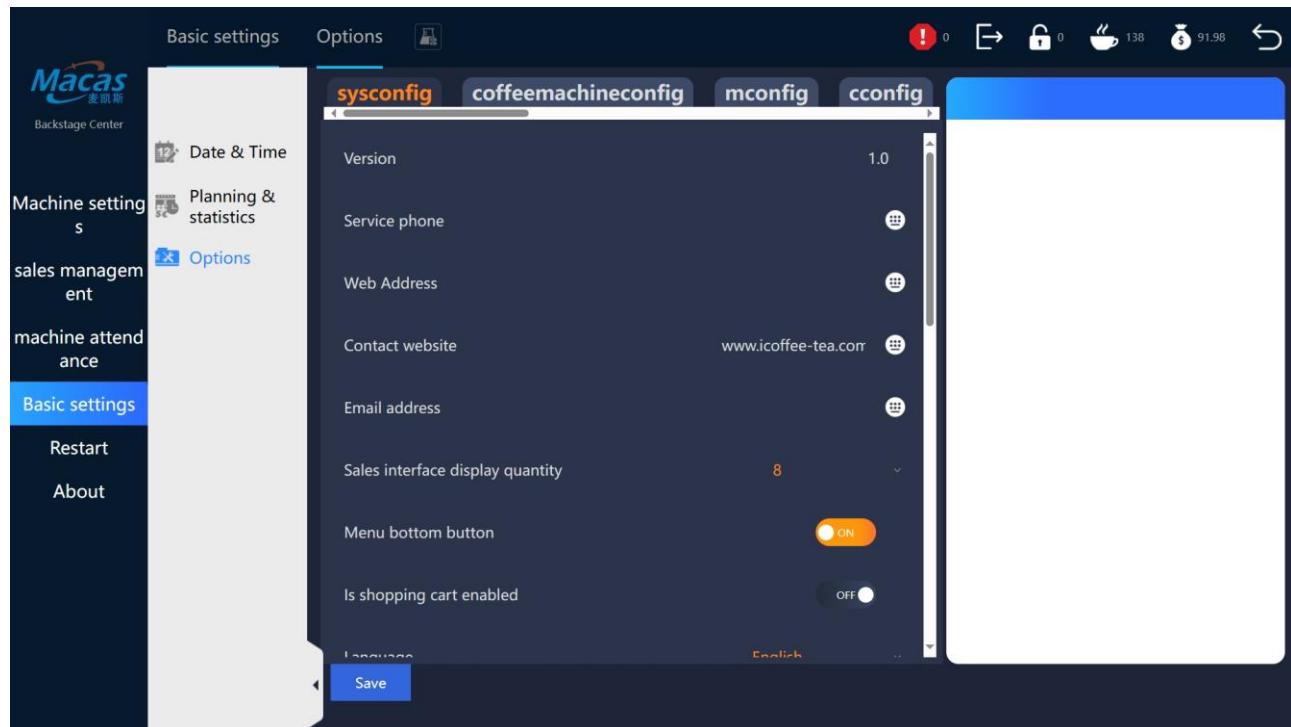
The menu is used to set the date and time. The "Show Time" button is used to show/hide the date and time at the top of the customer UI



Slide on the date/time to change the number:

5.5.2 Options

sysconfig



Version: View the current software version

Service phone: Set up the after-sales service phone

Web address: Set service URL

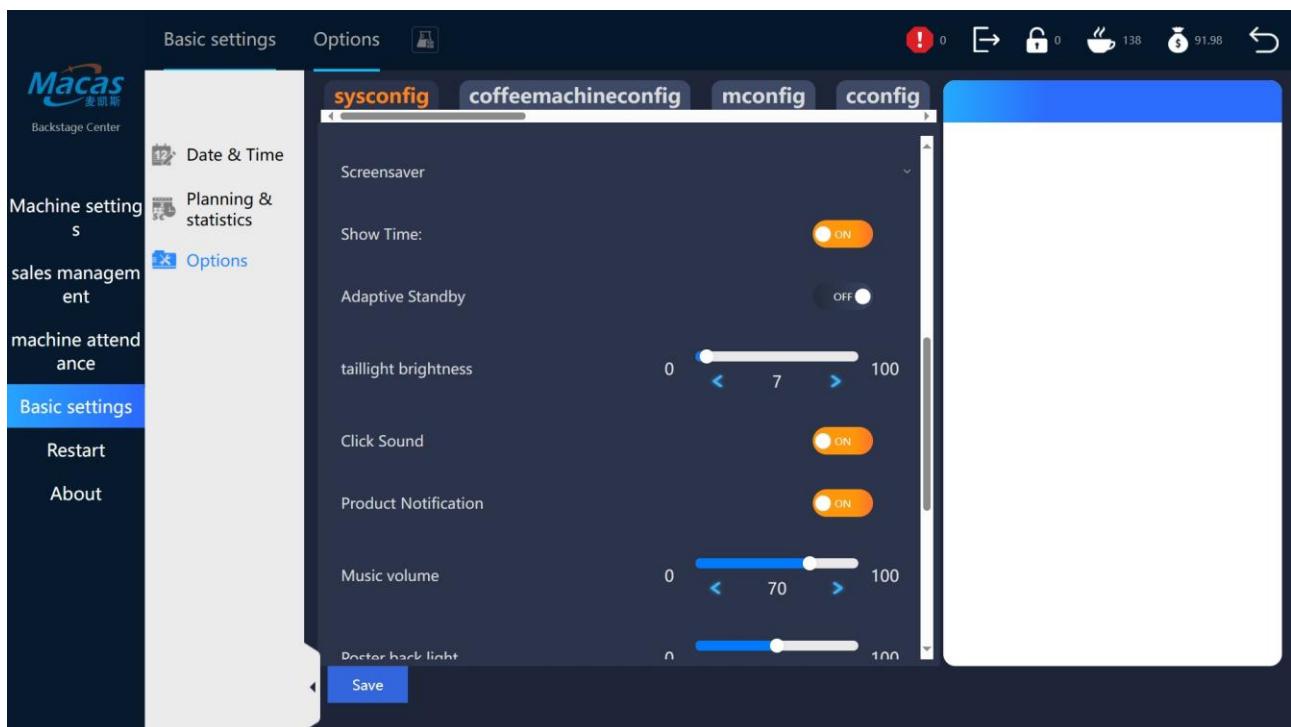
Contact website: Set up a contact website

Email address: Set email address

Sales interface display quantity: Set the number of products displayed on the sales screen

Menu bottom button: set menu bottom button hide or show

Is shopping cart enabled: set whether to use shopping cart



Screensaver: set screensaver wait time、screensaver turn on or turn off、screensaver use image or video

Show time: Screen saver display time, in seconds

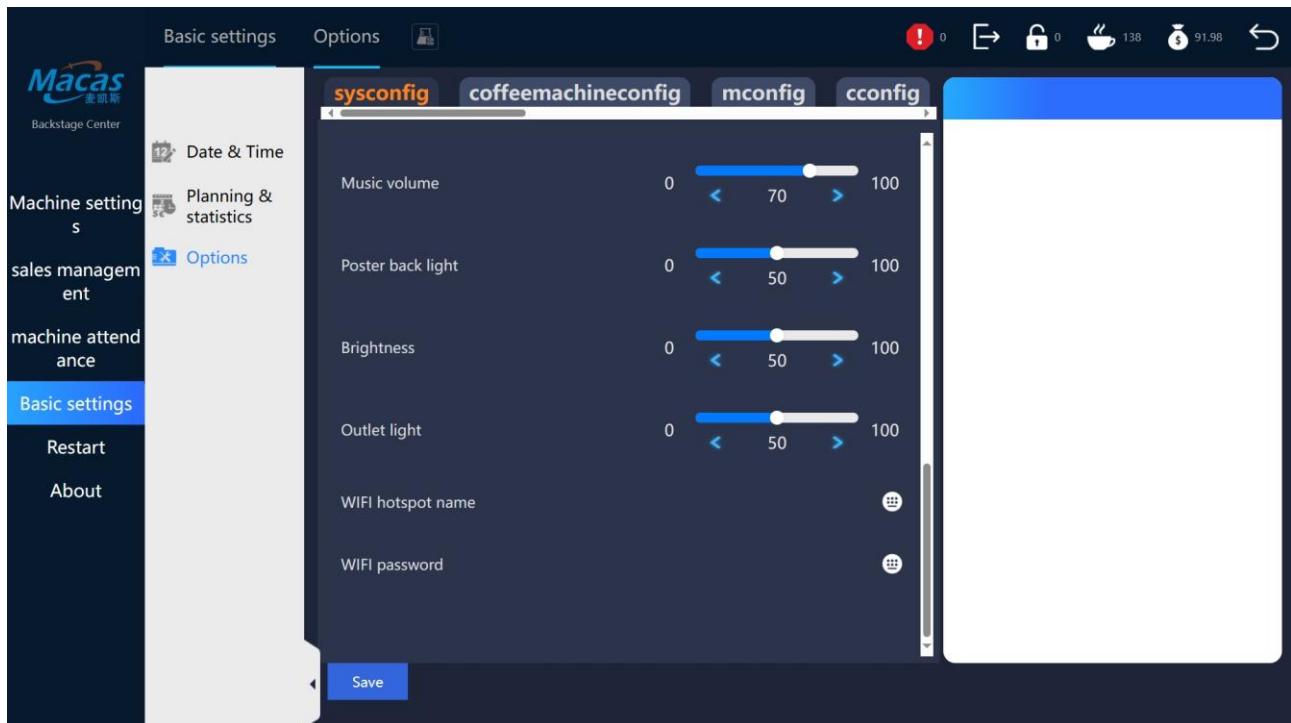
Adaptive standby:

Taillight brightness:

Click sound: click sound turn off or turn on

Product Notification: product notification turn off or turn on

Music volume: music volume adjustment



Poster back light: adjust the poster back brightness

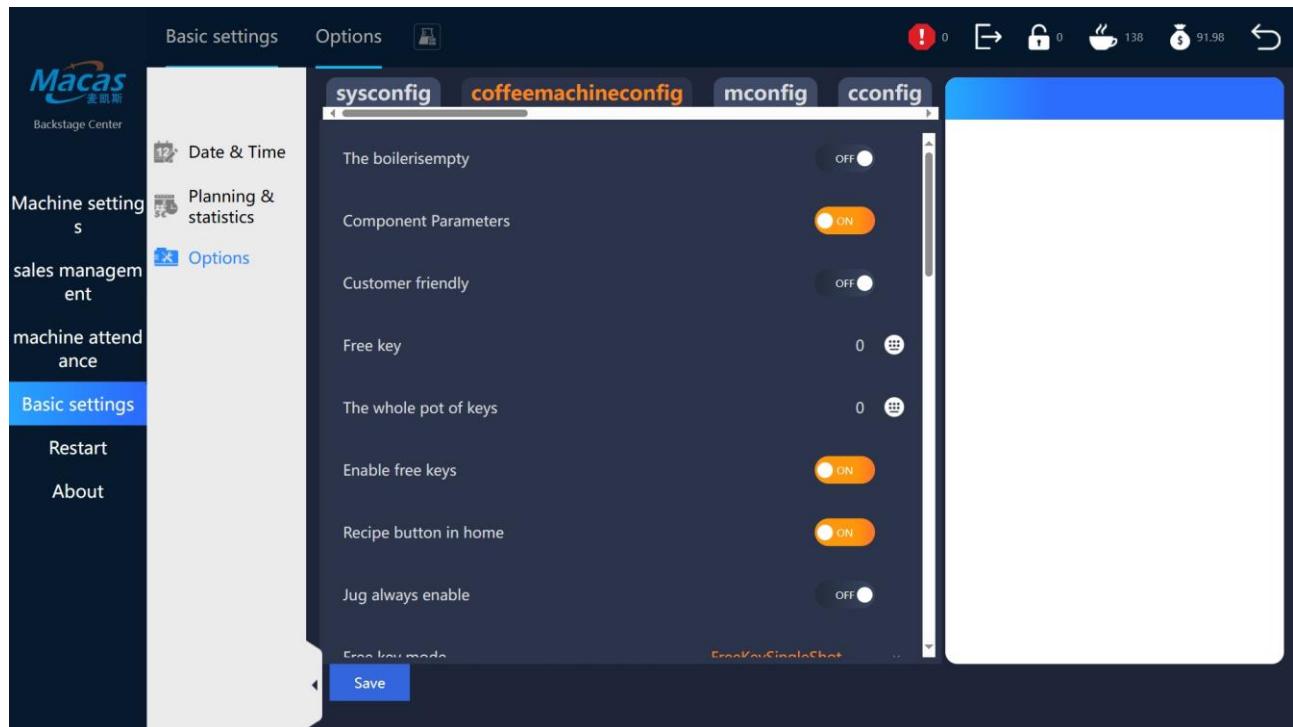
Brightness:

Outlet light:

Wifi hotspot name: change wifi hotspot name

Wifi password: change wifi password

Coffeemachineconfig



The boilerisempty:

Component parameters:

Customer friendly:

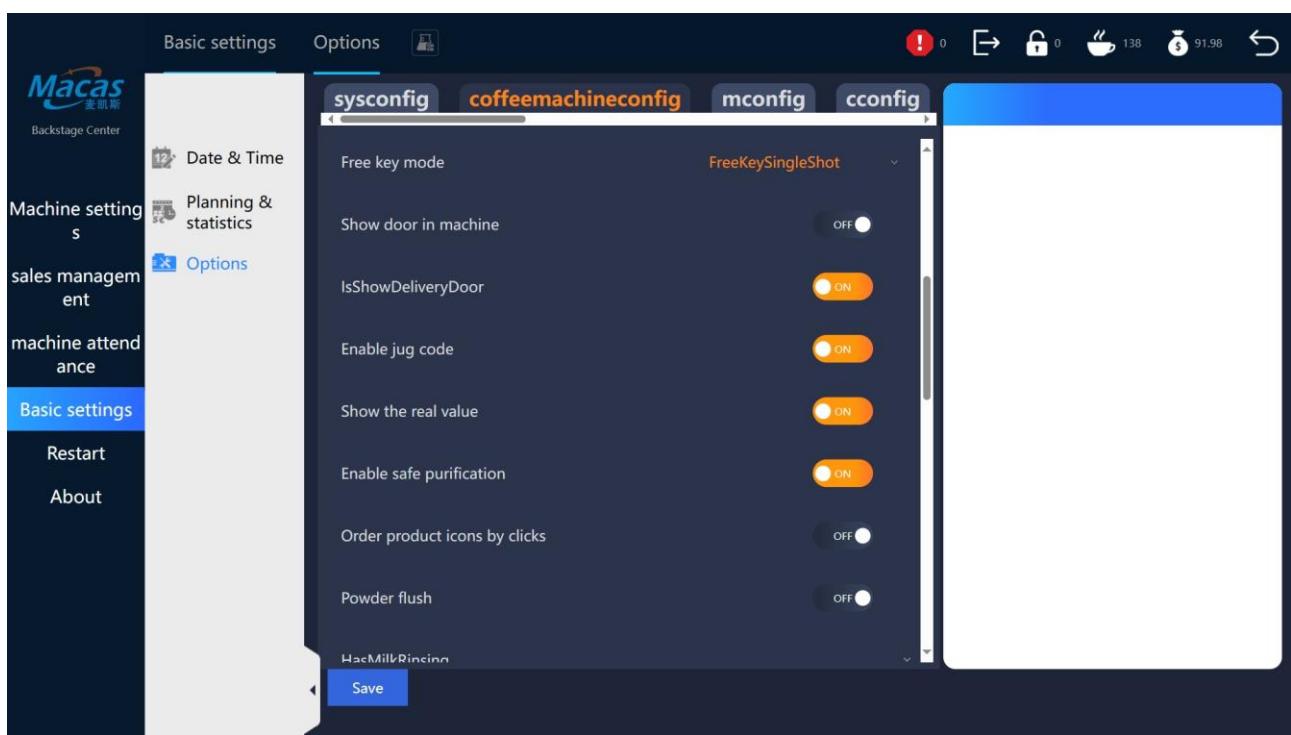
Free key:

The whole pot of keys:

Enable free keys:

Recipe button in home:

Jug always enable:



Free key mode:

Show door in machine:

IsShowDeliveryDoor: To determine if this machine has the function of retrieving and placing cups, the user door needs to be displayed

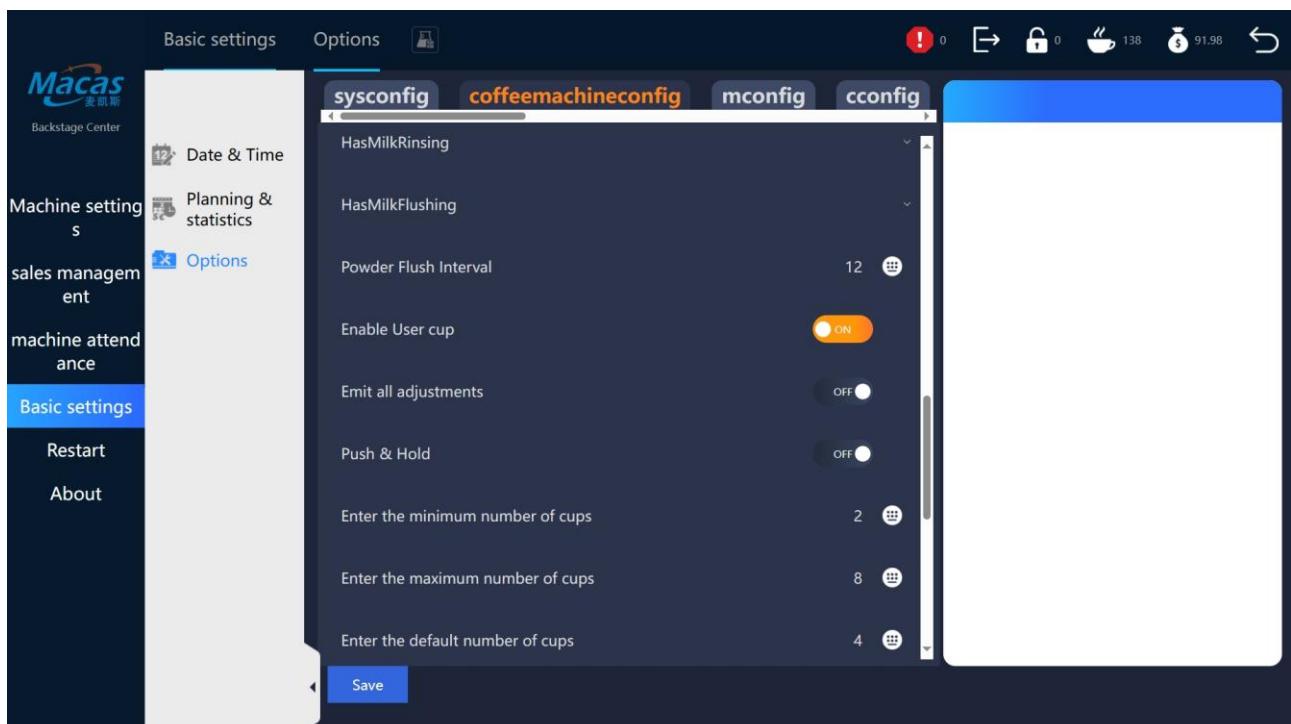
Enable jug code:

Show the real value:

Enable safe purification:

Order product icons by:

Powder flush:



Hasmilk rinsing:

Hasmilk flushing:

Power flush interval:

Enable user cup: Can the machine use the customer's own cup to receive the product

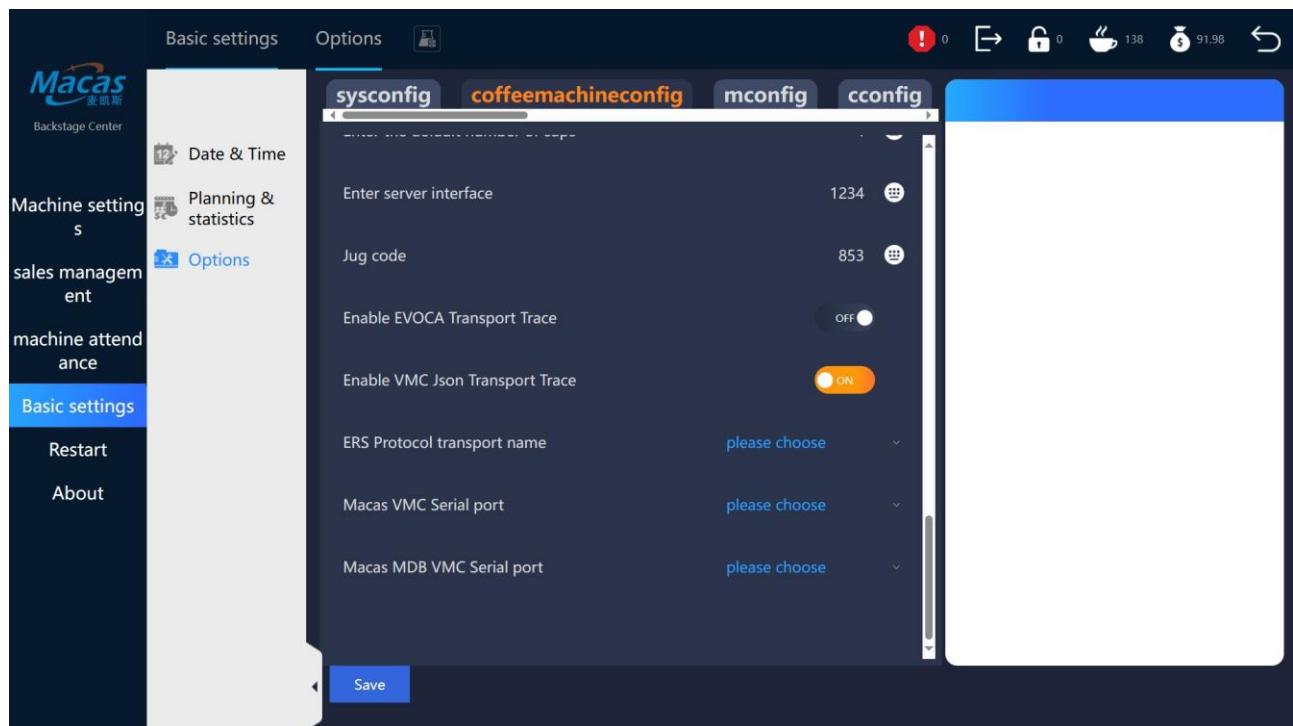
Emit all adjustments:

Push & hold:

Enter the minimum number of cups:

Enter the maximum number of cups:

Enter the default number of cups:



Enter server interface:

Jug code:

Enable evoca transport trace:

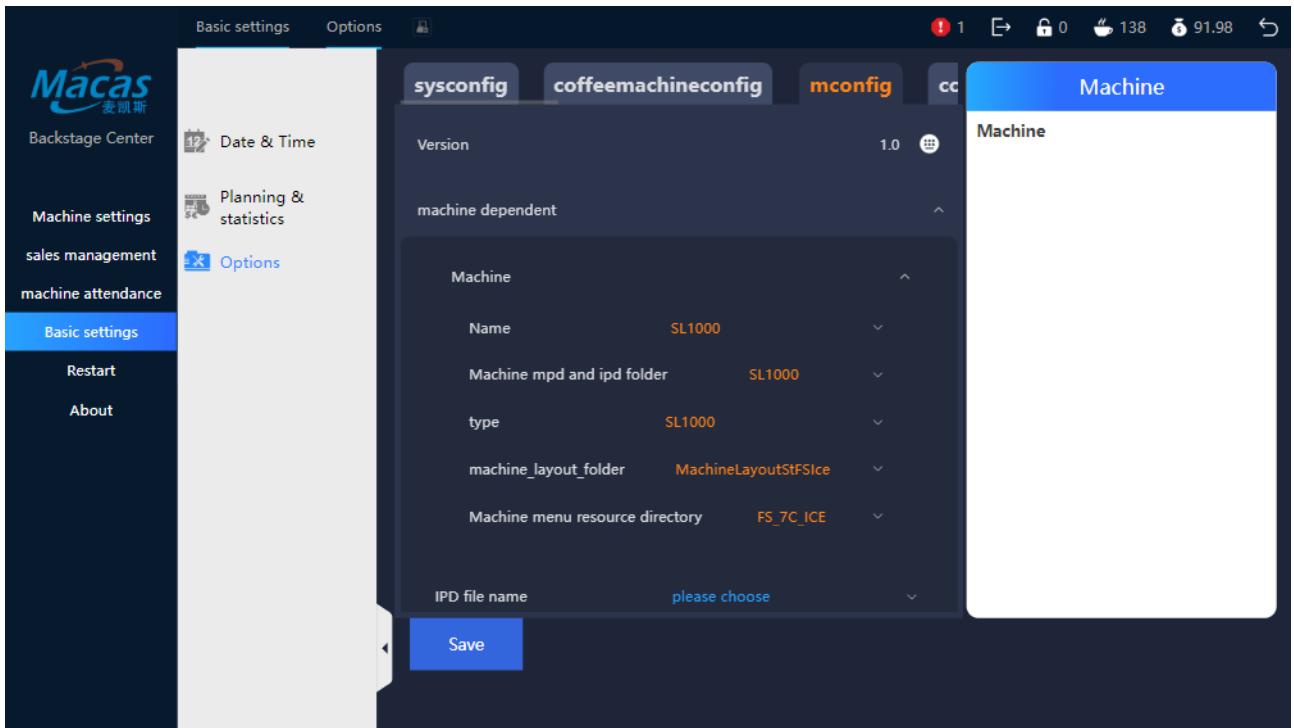
Enable VMC json transport trace:

ERS protocol transport name:

Macas VMC serial port:

Macas MDB VMC serial port:

Mconfig



Version:

machine dependent

Machine

Name:

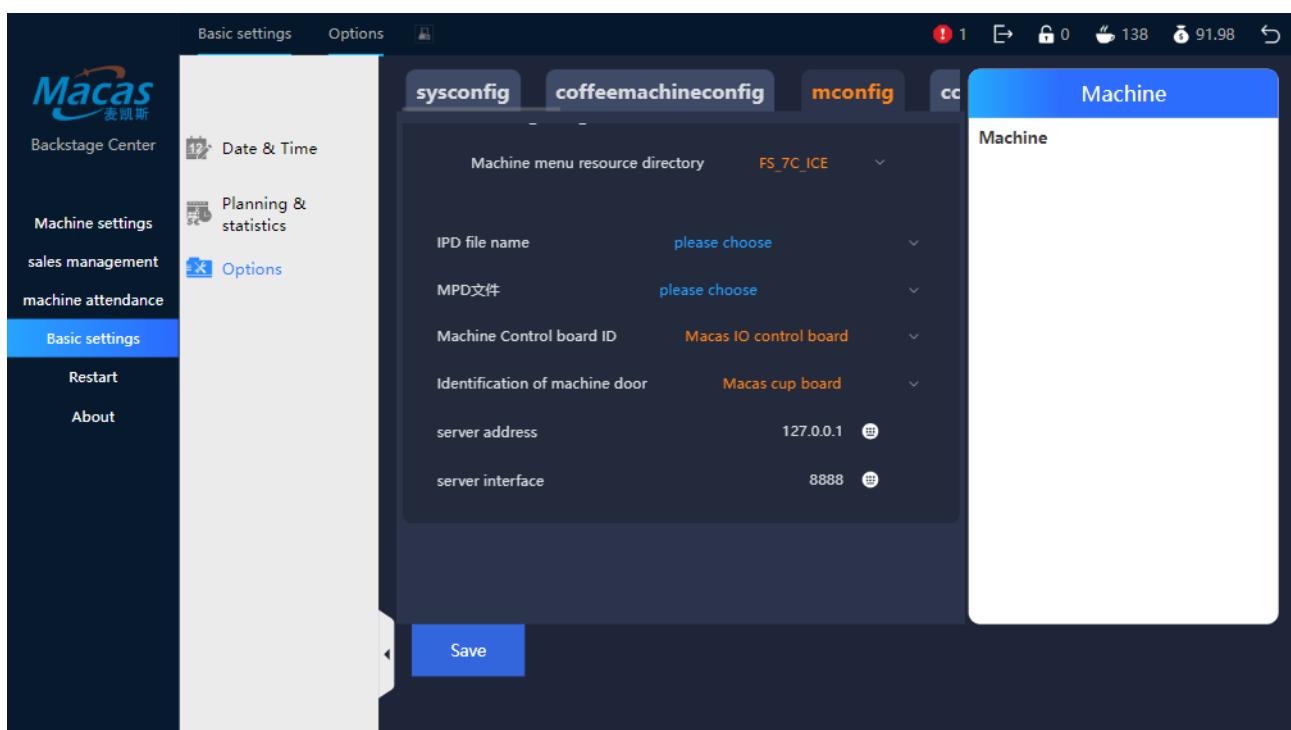
Machine mpd and ipd folder:

Type:

machine_layout_folder: Set directory reading for machine models

Machine menu resource directory: Set up directory reading for machine formulas

IPD file name:



MPD file:

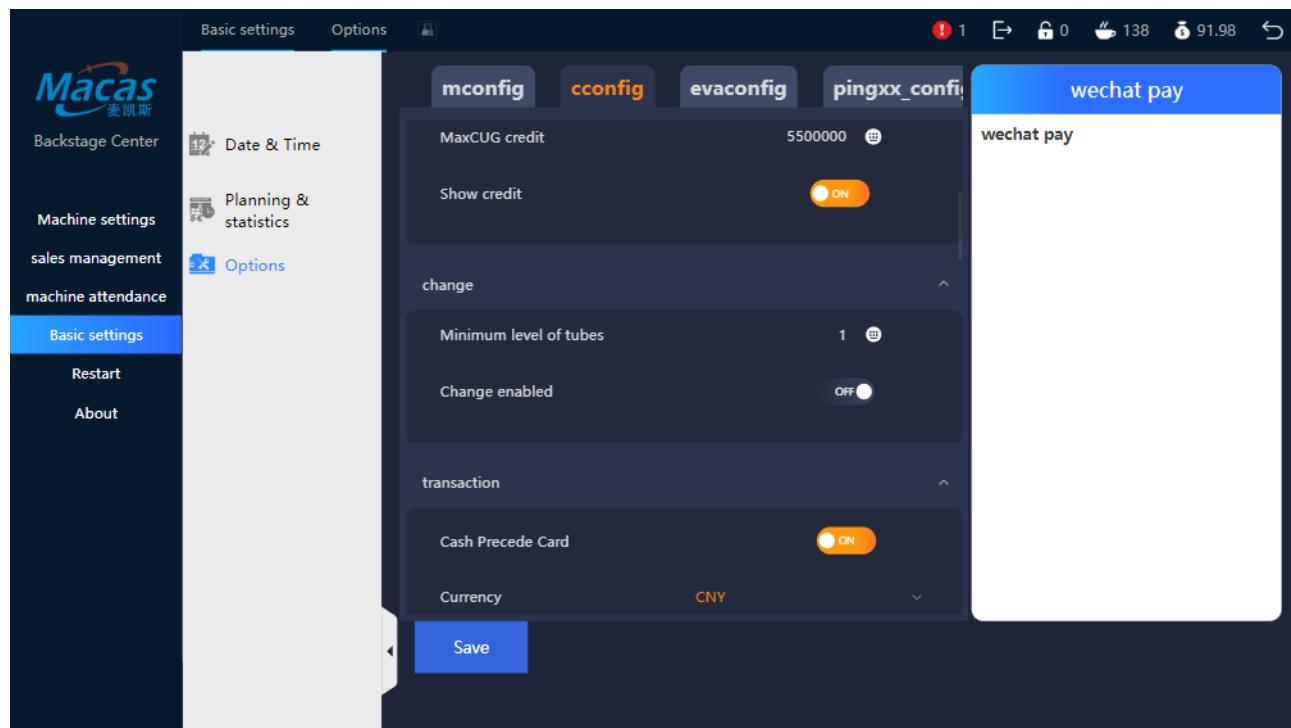
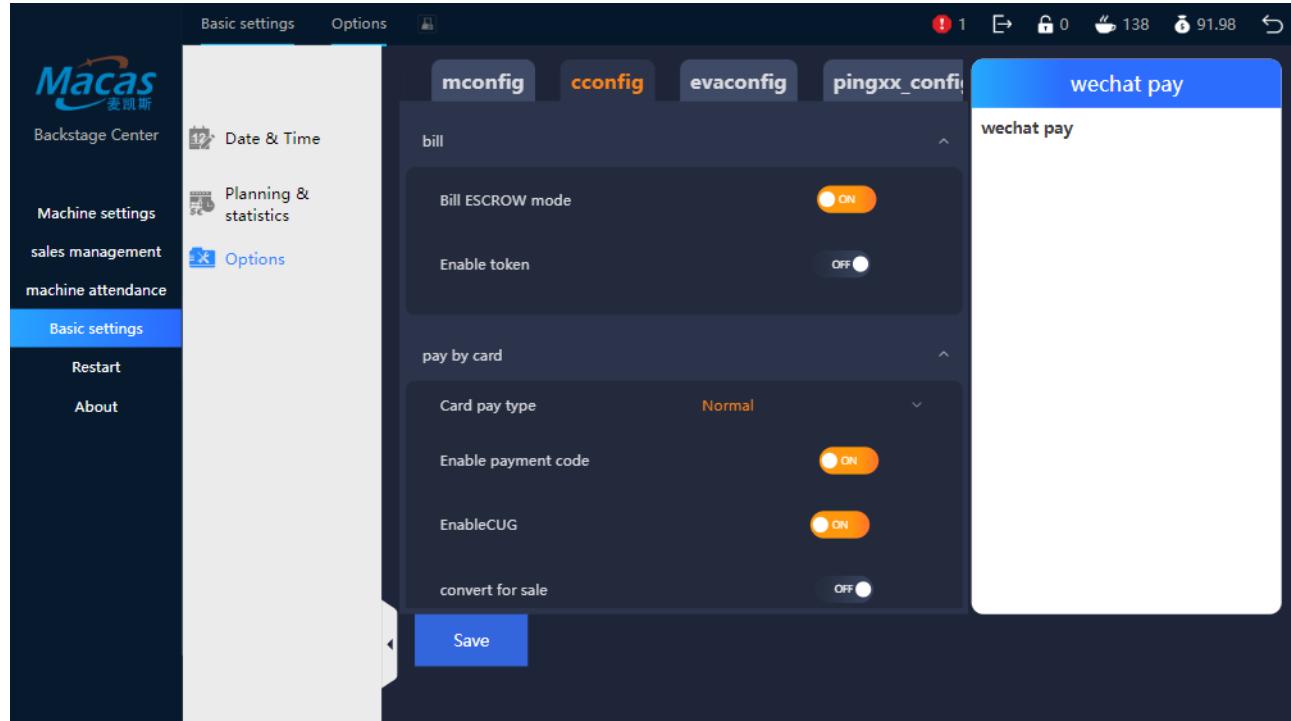
Machine Control board ID:

Identification of machine door:

server address:

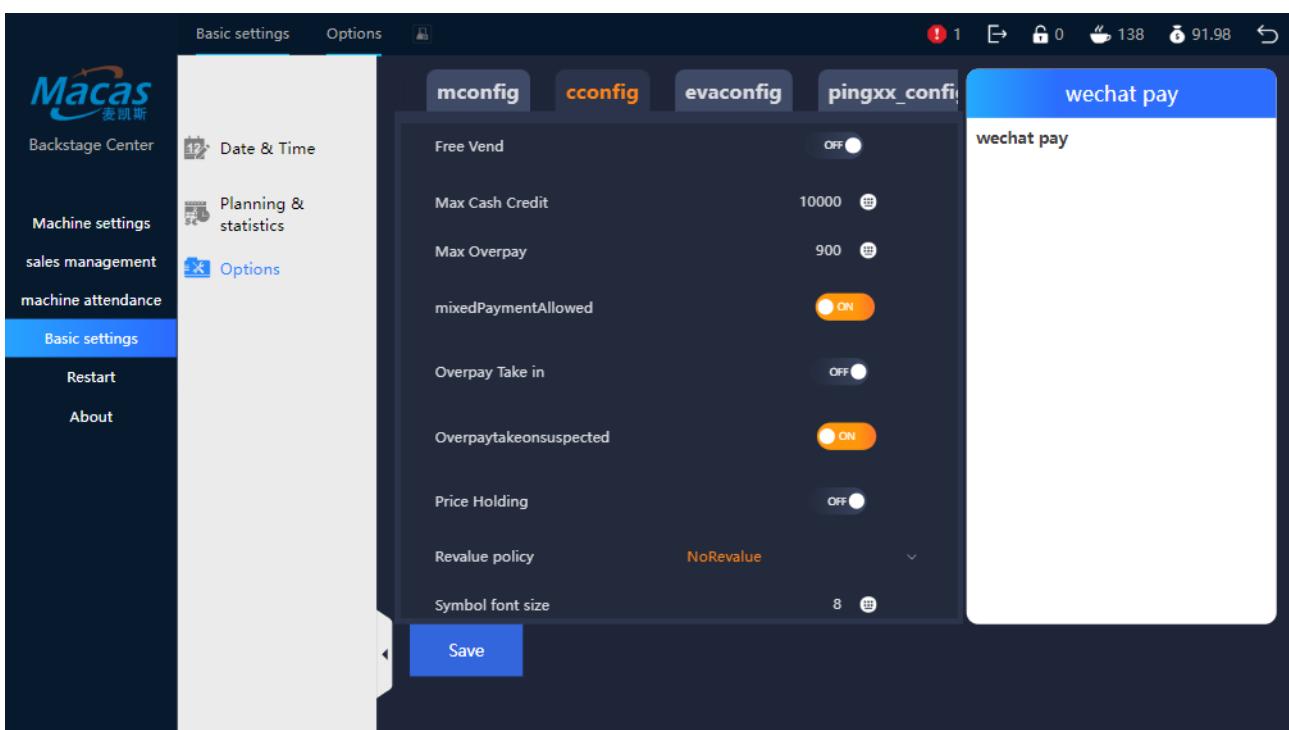
server interface:

Cconfig

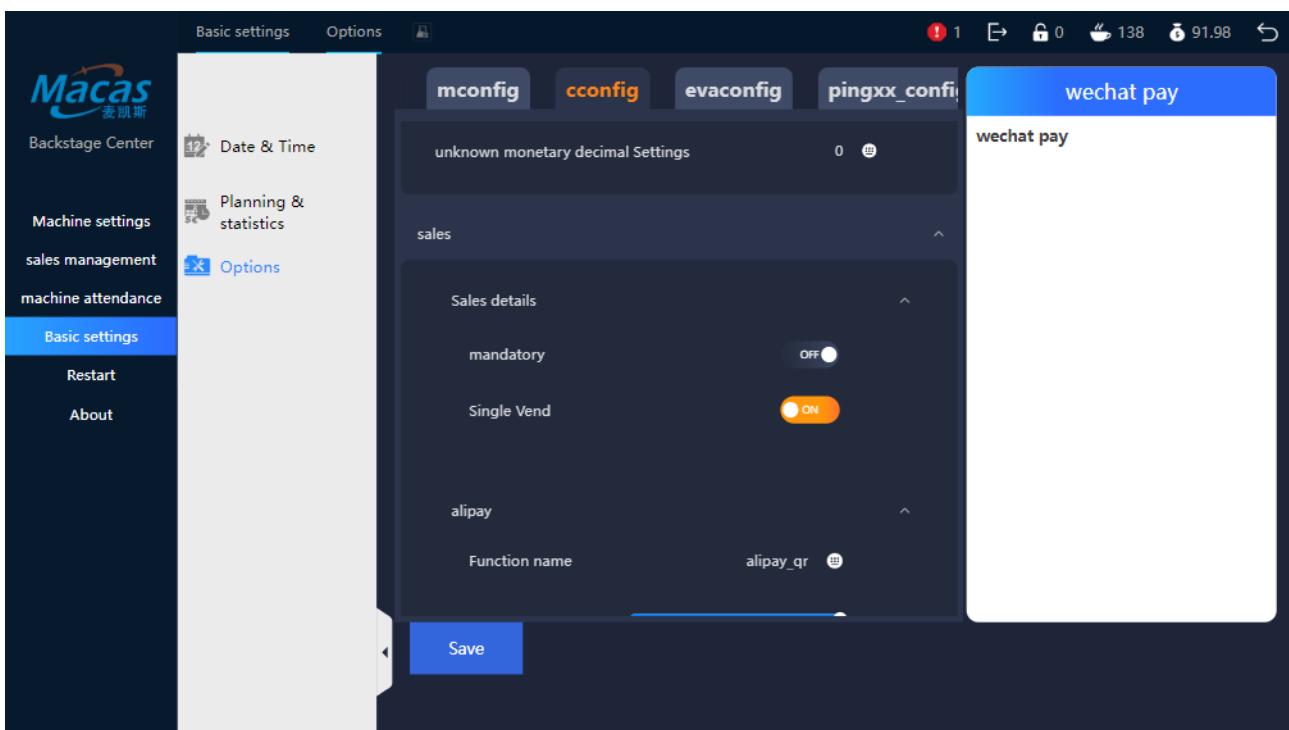


Currency: Define the national currency symbol displayed on the sales interface

[Type here]

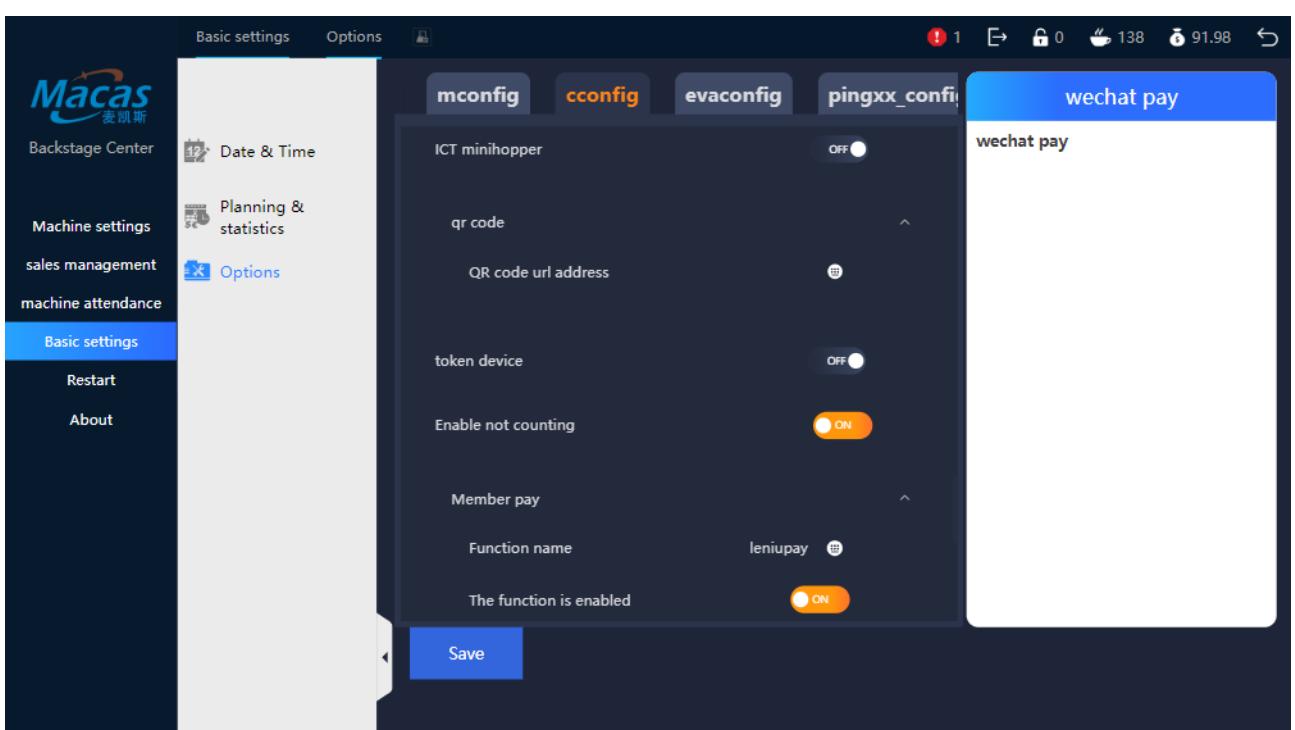
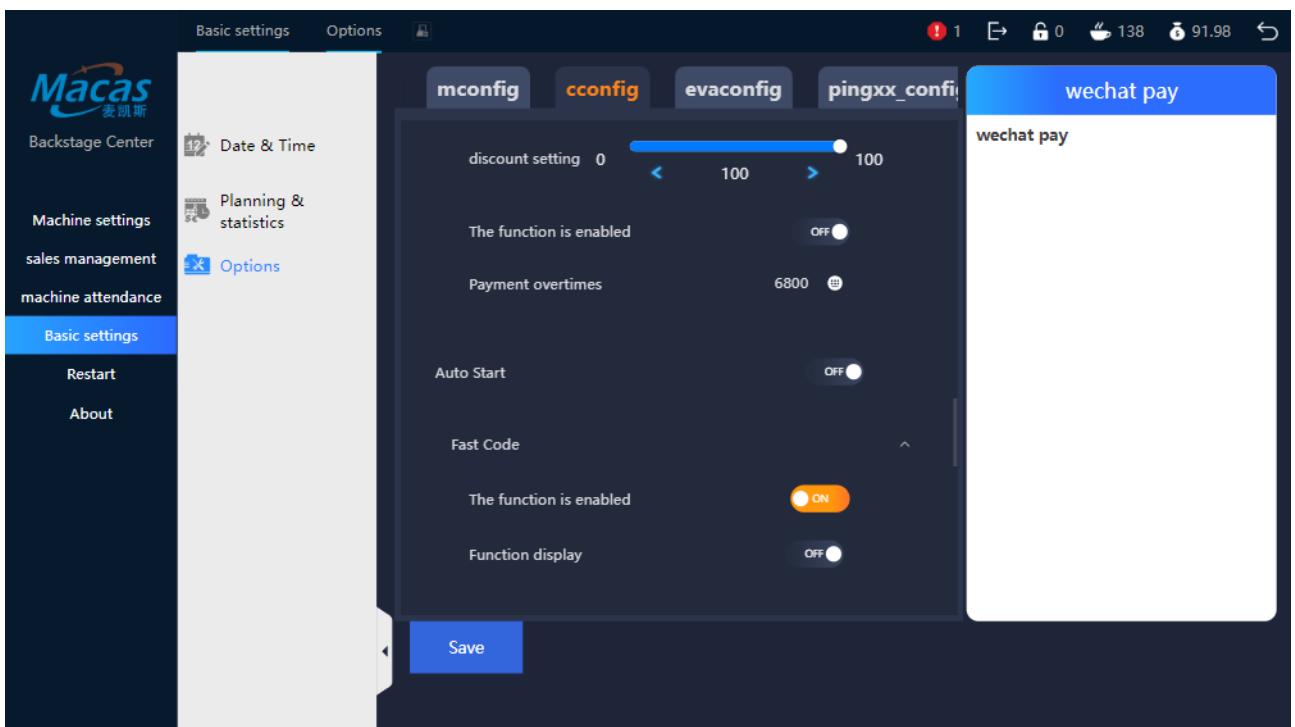


Free Vend: Is free mode enabled

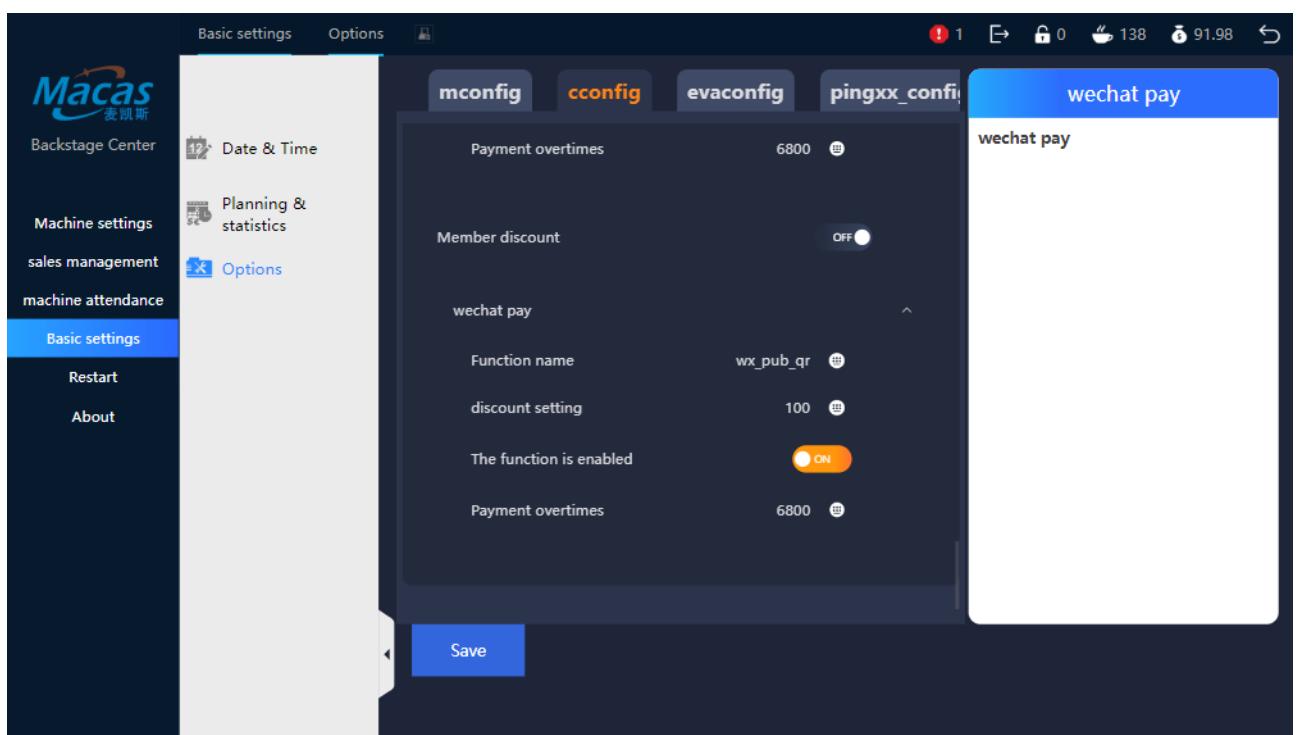


unknown monetary decimal Settings: Number of decimal places after retaining the price

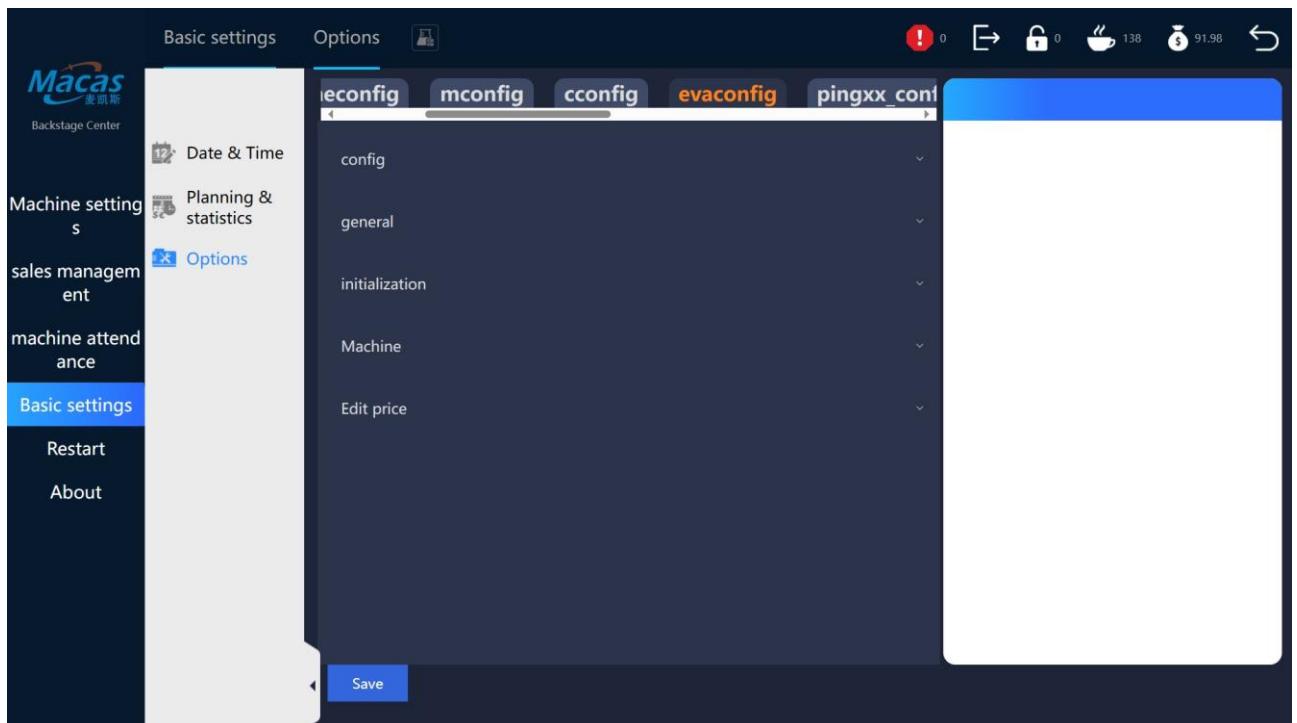
[Type here]



[Type here]



Evaconfig



Config:

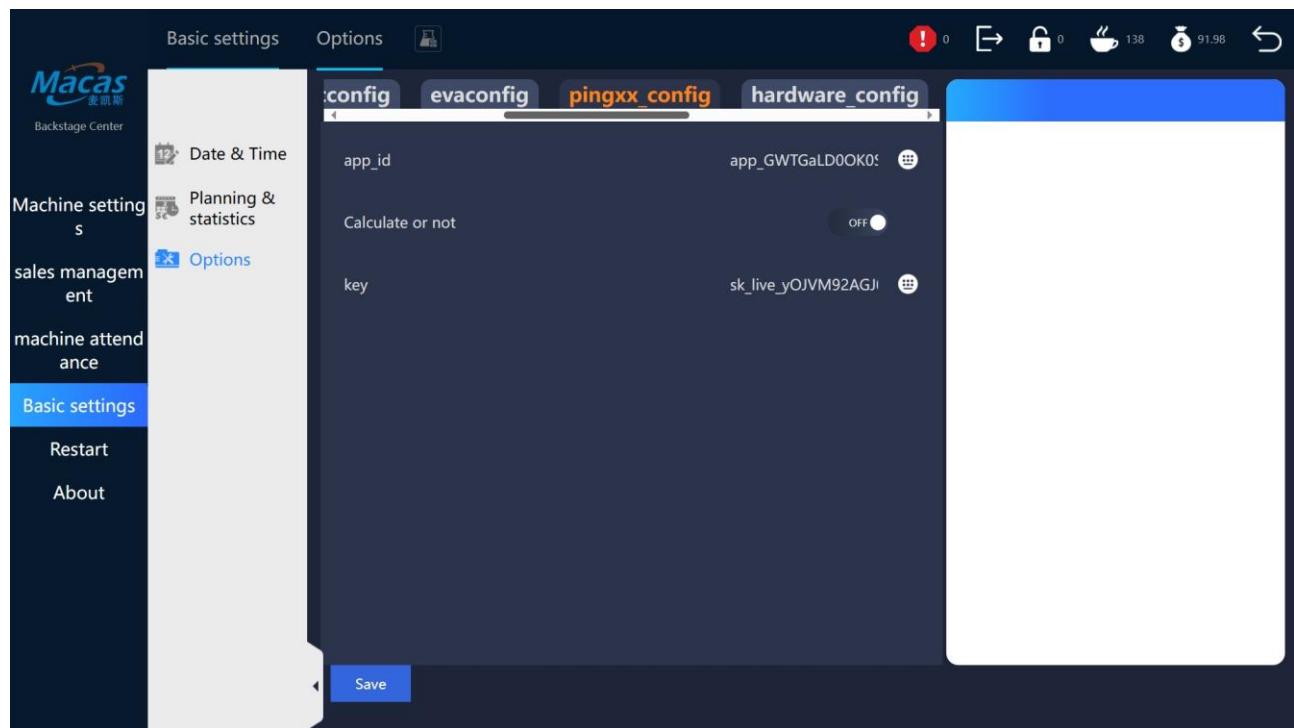
General:

Initialization:

Machine:

Edit price:

Pingxx_config

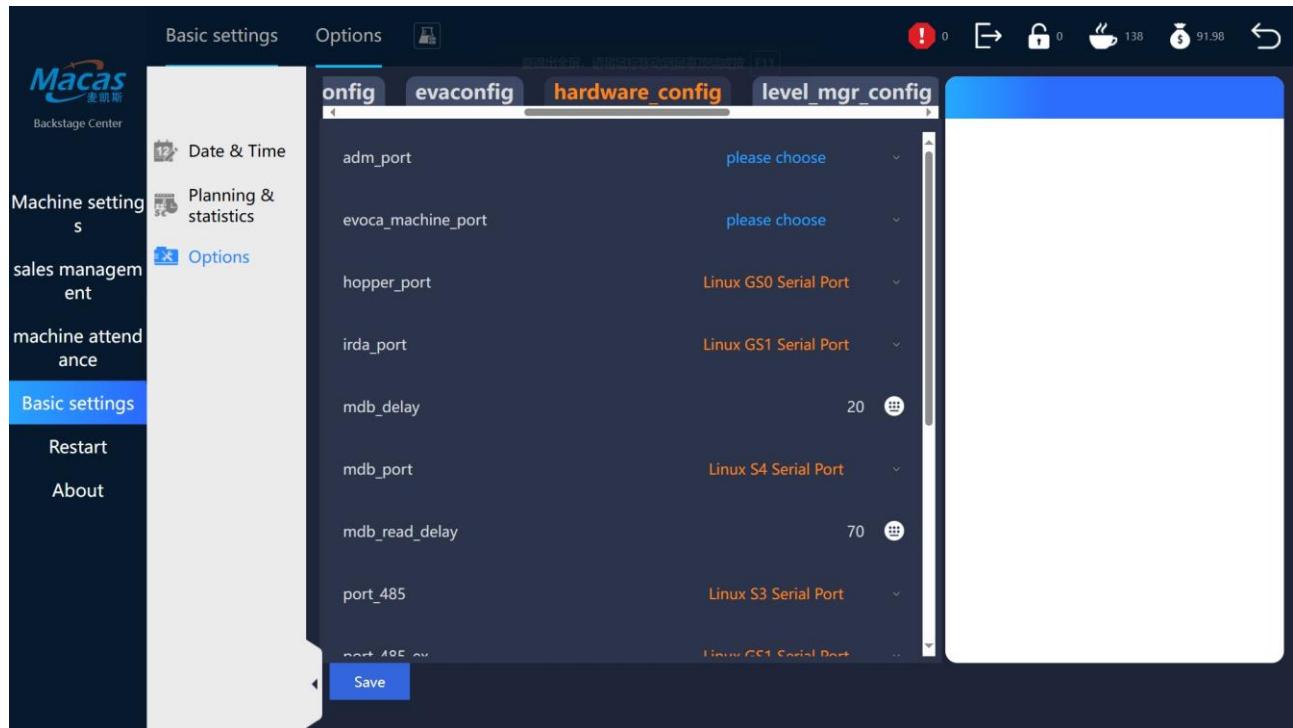


App_id:

Calculate or not:

Key:

Hardware_config



Adm_port:

Evoca_machine_port:

Hopper_port:

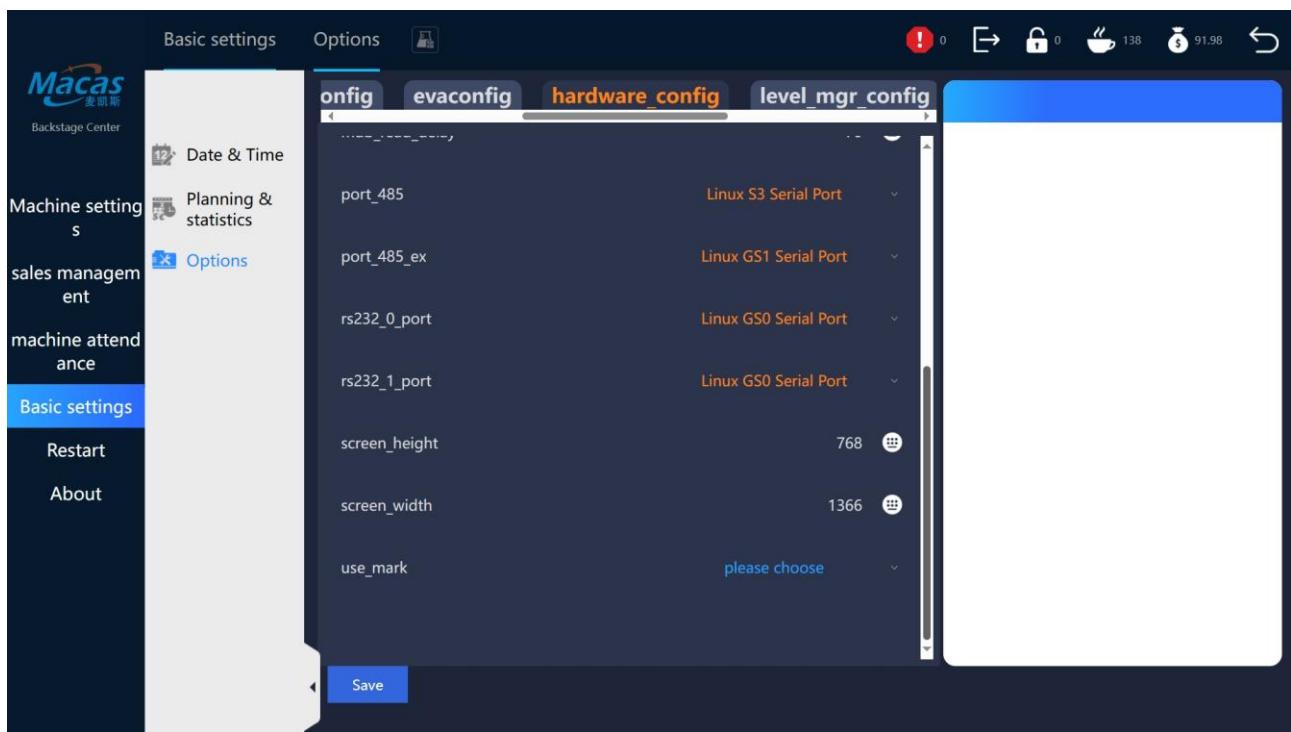
Irda_port:

Mdb_delay:

Mdb_port:

Mdb_read_delay:

Port_485:



Port_485_ex:

Rs232_0_port:

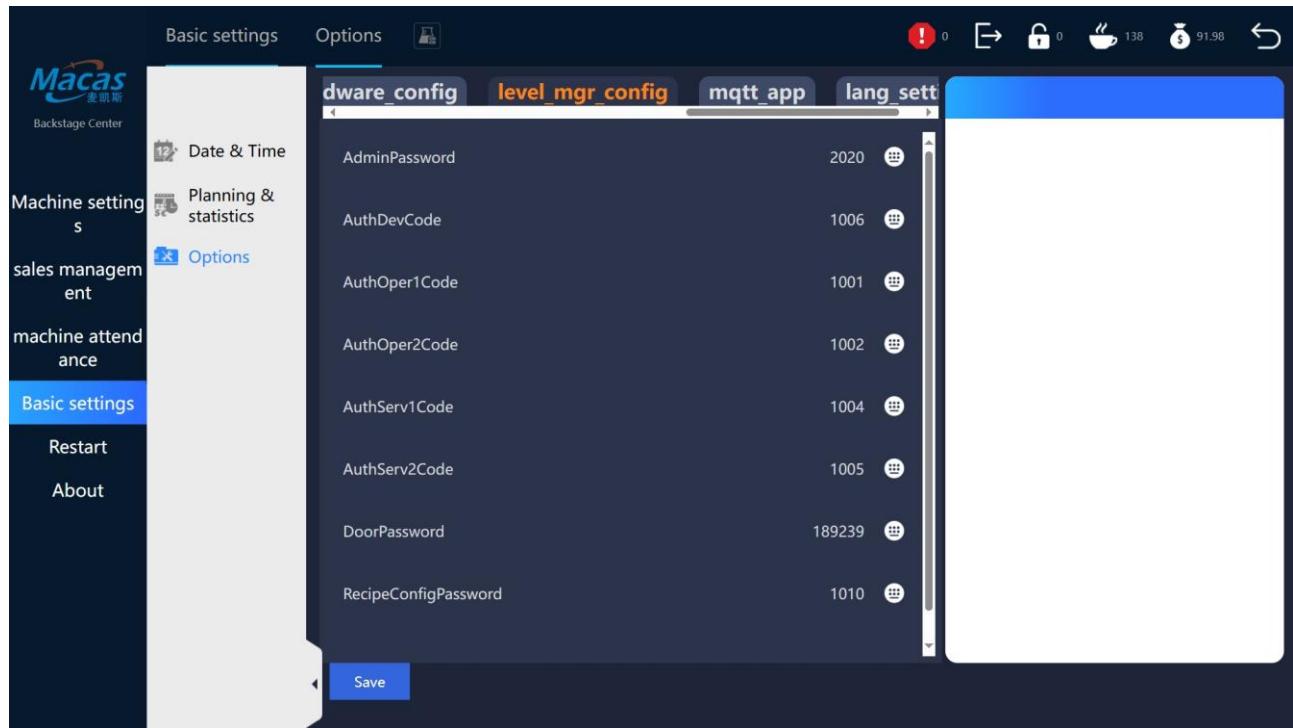
Rs232_1_port:

Screen_height: Set the display height of the UI

Screen_width: Set the display width of the UI

Use_mark:

Level_mgr_config



AdminPassword: Set the password for the machine administrator

AuthDevCode: Set password for old UI

AuthOper1Code:

AuthOper2Code:

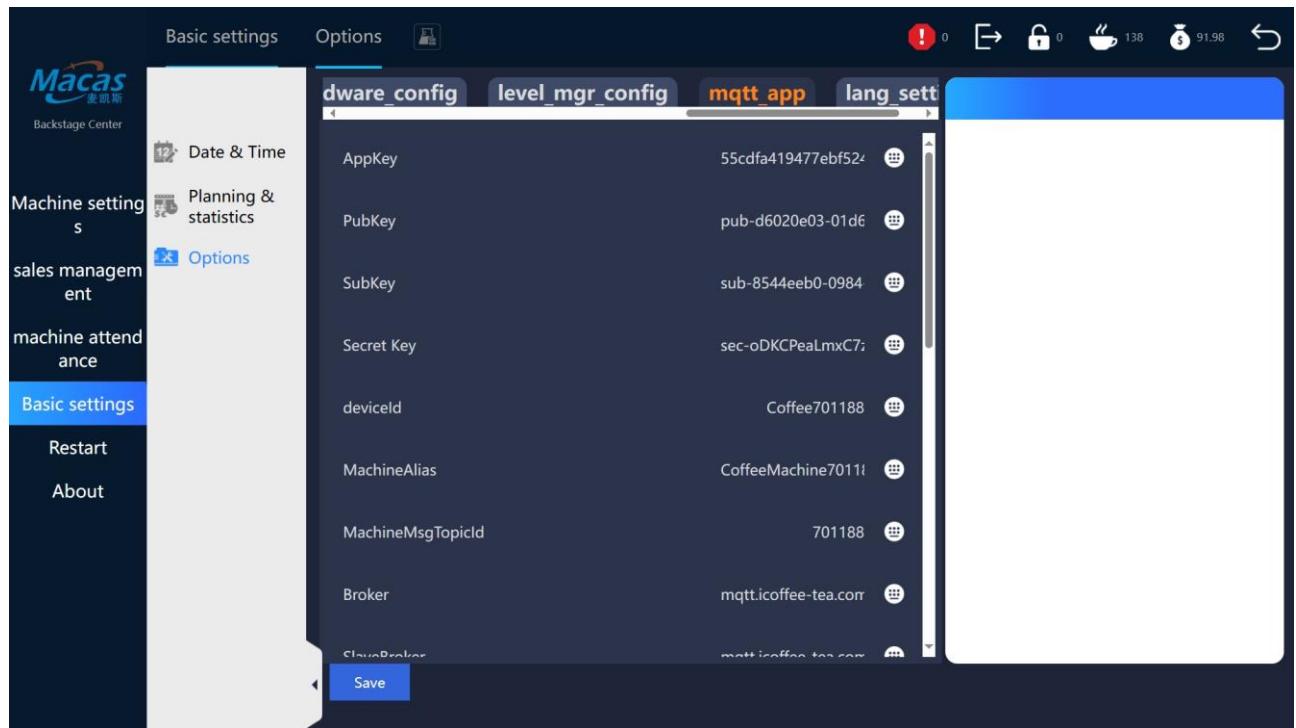
AuthServ1Code:

AuthServ2Code:

DoorPassword: Machine door opening password

RecipeConfigPassword: Recipe blending entry password

mqtt_app



AppKey:

PubKey:

SubKey:

Secret Key:

Deviceld:

MachineAlias:

MachineMsgTopicId:

Broker:

Basic settings Options

dware_config level_mgr_config mqtt_app lang_sett

SlaveBroker	mqtt.icoffee-tea.com
sftp	47.99.115.165
sftp_username	Coffee
sftp_password	macascoffeetea
server_key	./ssl.pem
client_privatekey	
client_key_pass	
api_id	app_mTstLuckCashle

Save

SlaveBroker:

Sftp:

Sftp_username:

Sftp_password:

server_key:

Client_privatekey:

Client_key_pass:

Api_id:

Basic settings Options

dware_config level_mgr_config mqtt_app lang_sett

client_privatekey	
client_key_pass	
api_id	app_mTstLuckCashle
client_user	testuser
client_password	55cdfa419477ebf524
KeepAliveInterval	181
isAdvVideoSupport	OFF

Save

Client_user:

Client_password:

KeepAliveInterval:
isAdvVideoSupport:

lang_setting

Setting	Value
default-language CUI	English
CUI language-selection-1	English
CUI language-selection-2	Chinese
CUI language-selection-3	None
default-language OUI	English
OUI language-selection-1	English
OUI language-selection-2	Chinese
OUI language-selection-3	None

Default_language CUI: The language of the sales interface

CUI language-selection-1: Sales interface language 1 (up to three language switches can be set)

CUI language-selection-2: Sales interface language 2 (up to three language switches can be set)

CUI language-selection-3: Sales interface language 3 (up to three language switches can be set)

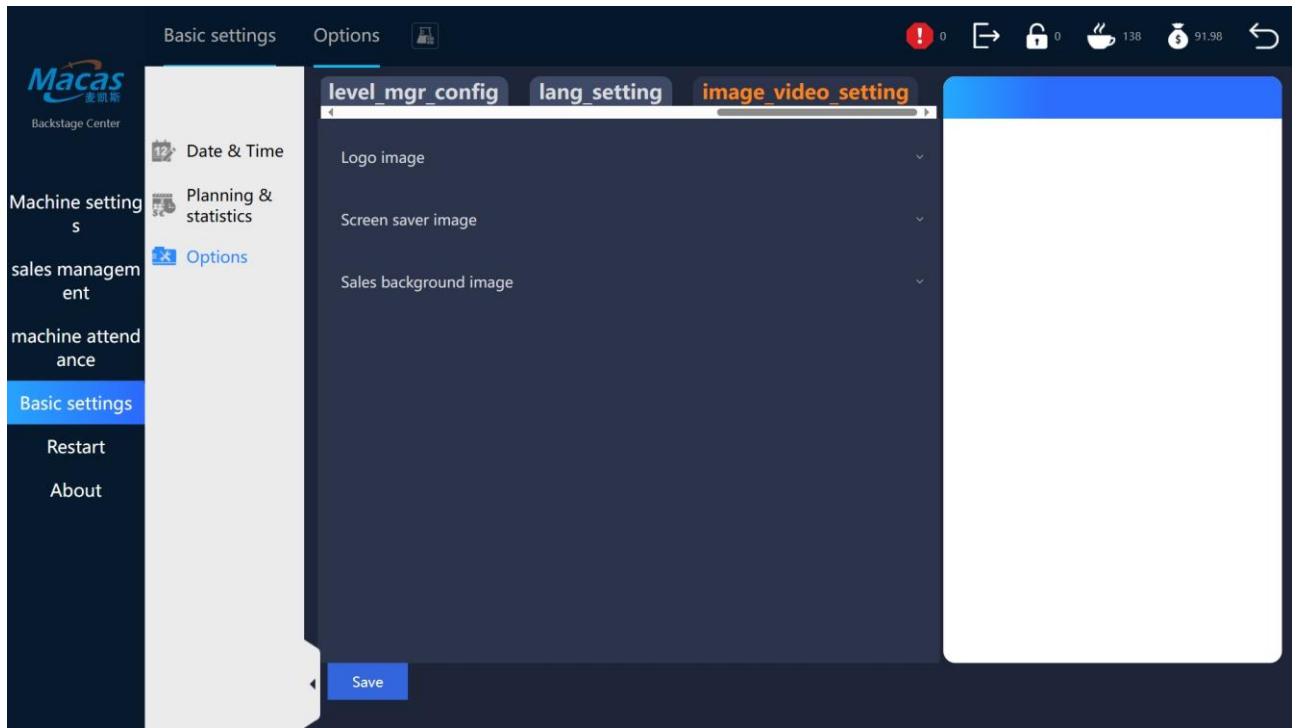
Default_language OUI: Language of Machine Manager Interface

OUI language-selection-1: Technician interface language 1 (up to three language switches can be set)

OUI language-selection-2: Technician interface language 2 (up to three language switches can be set)

OUI language-selection-3: Technician interface language 3 (up to three language switches can be set)

Image_video_setting



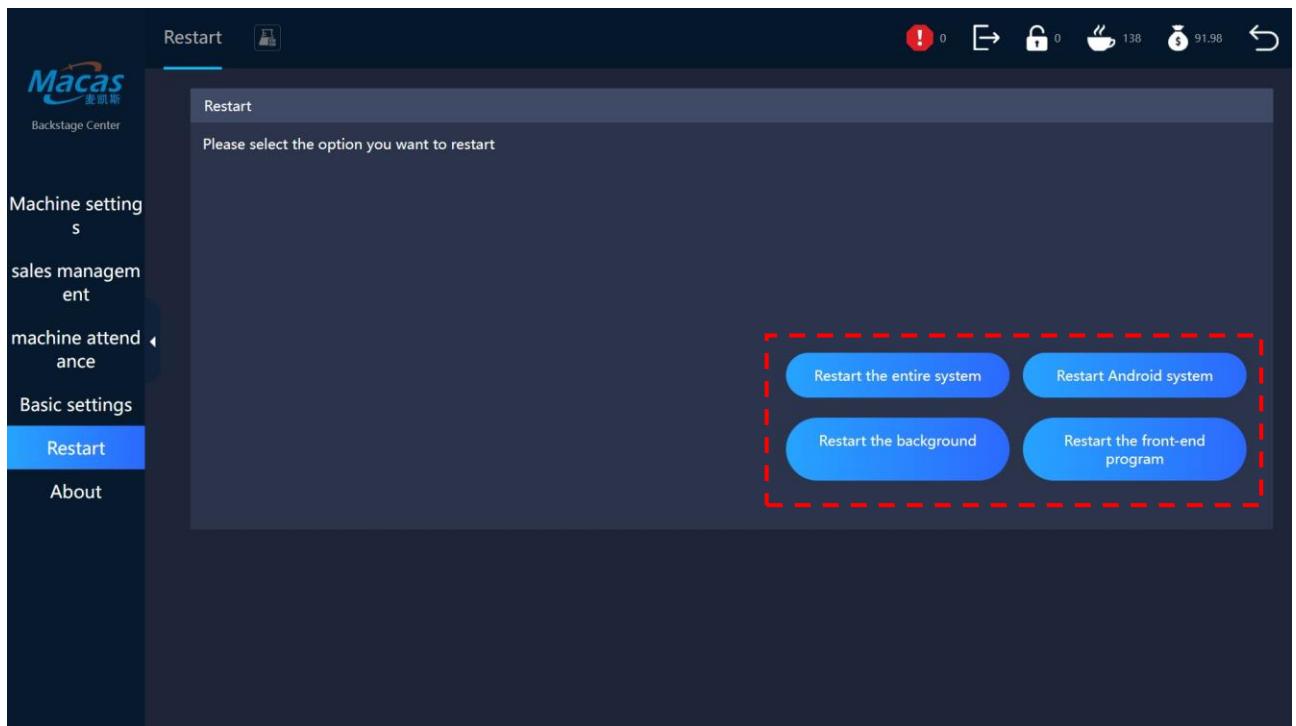
Logo image: Customizable logo image

Screen saver image: Customizable screensaver images

Sales background image: Customizable background image for sales interface

5.6 Restart

This function is used to reboot the machine or system.



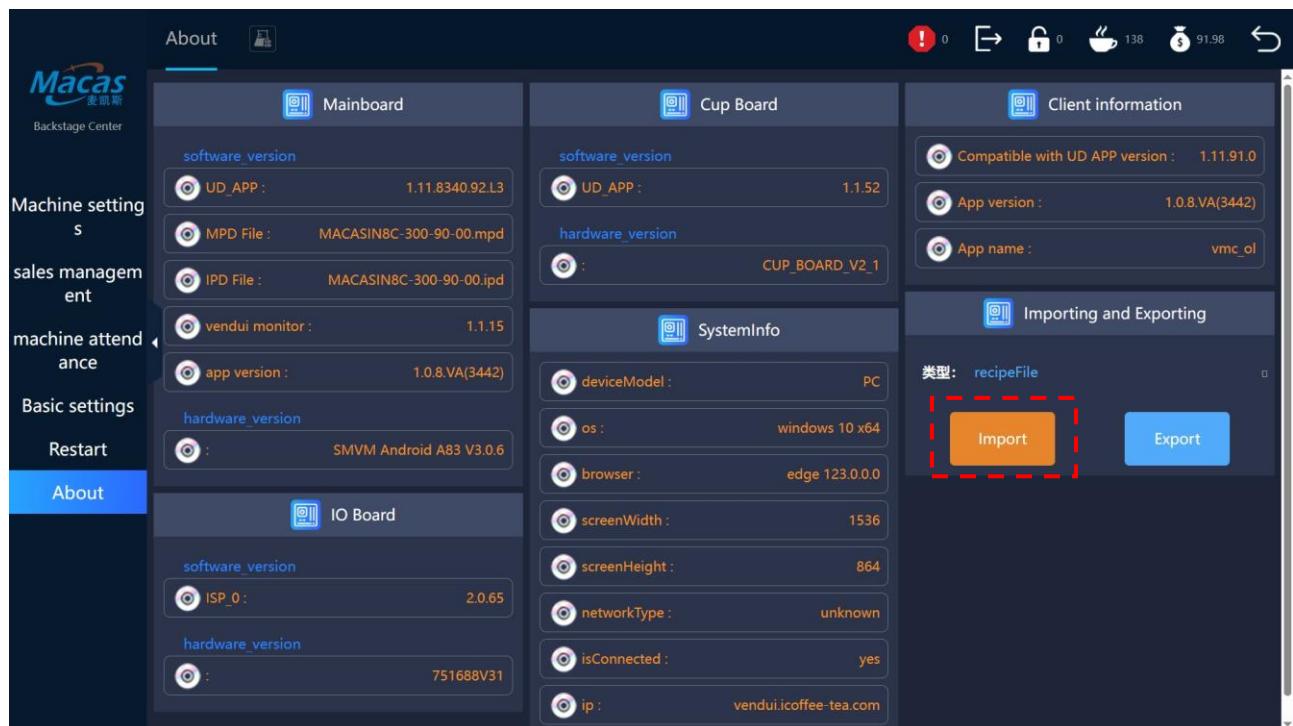
5.7 Software upgrade

- ◆ Normally for the software upgrade steps.
- ◆ Prepare an U disk.
- ◆ Put the zip compressed file to the U-disk root directory.
- ◆ Insert the U-disk to machine USB host port, and if the system detect the new software, it will show a dialog.
- ◆ Machine upgrade system software automatically, and wait the machine reboot automatically.
- ◆ Software upgrading is done.

5.8 About

In “About” page, it shows information about main board, IO board, cup board and hydraulic board, and we can importing or export recipefile.

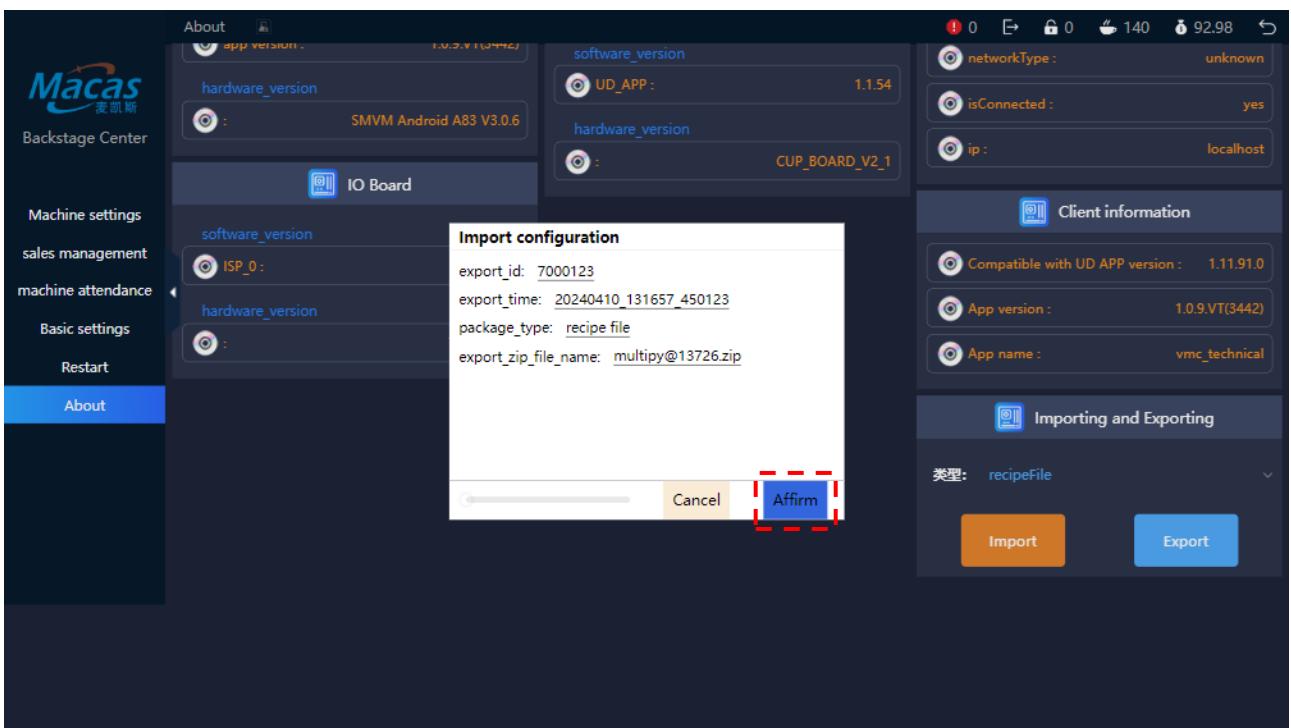
5.8.1 Import



1. select import file.

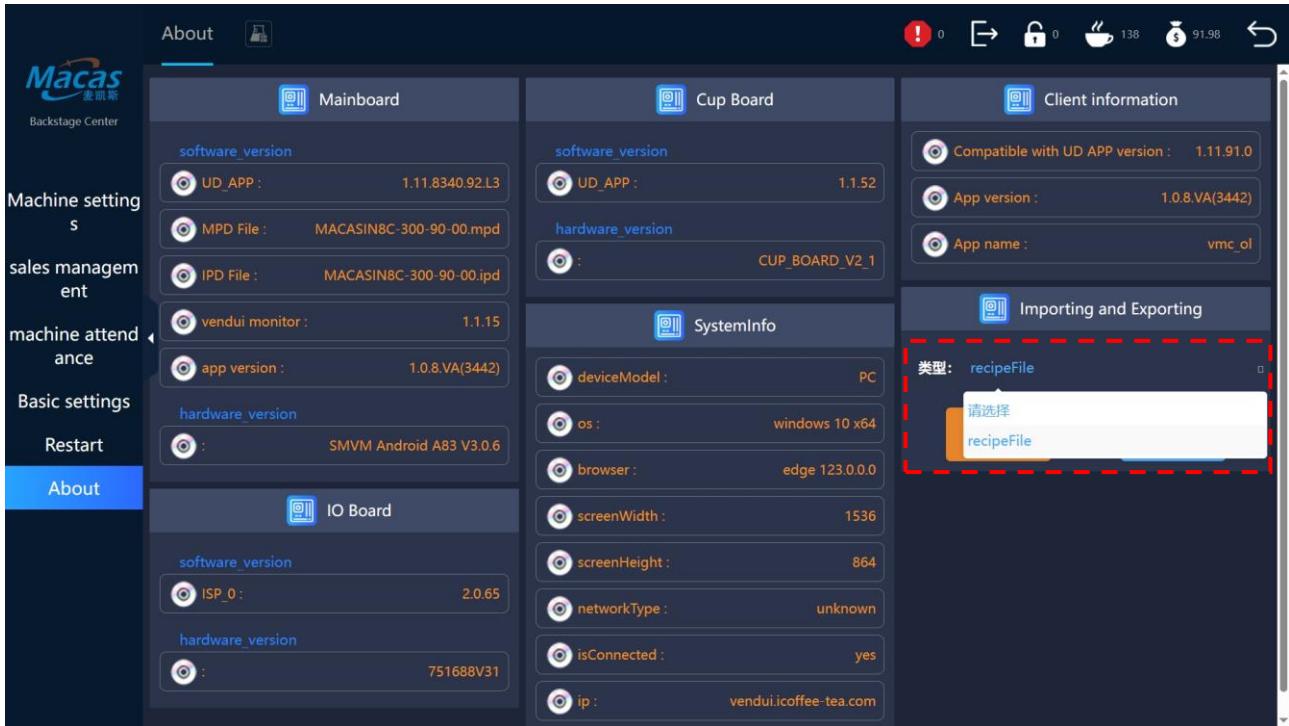


2. Select the file you want to import and select Open.

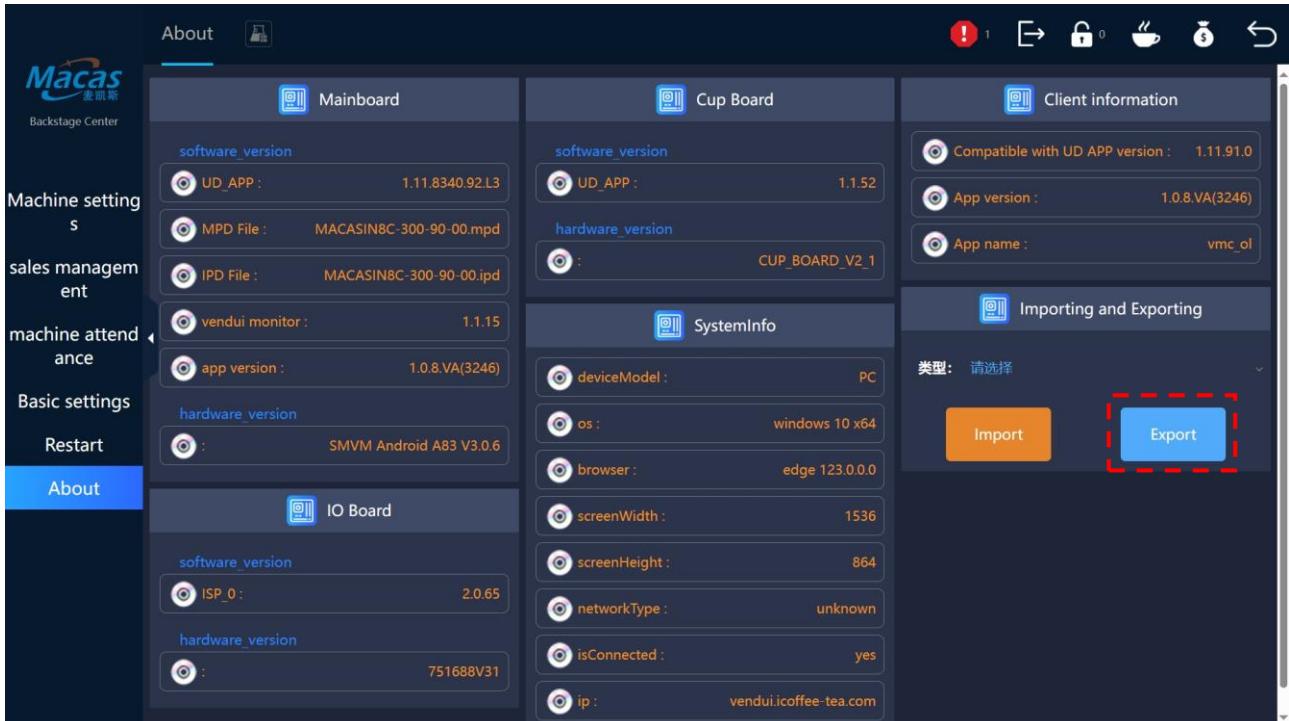


3. Press the affirm button to import the file

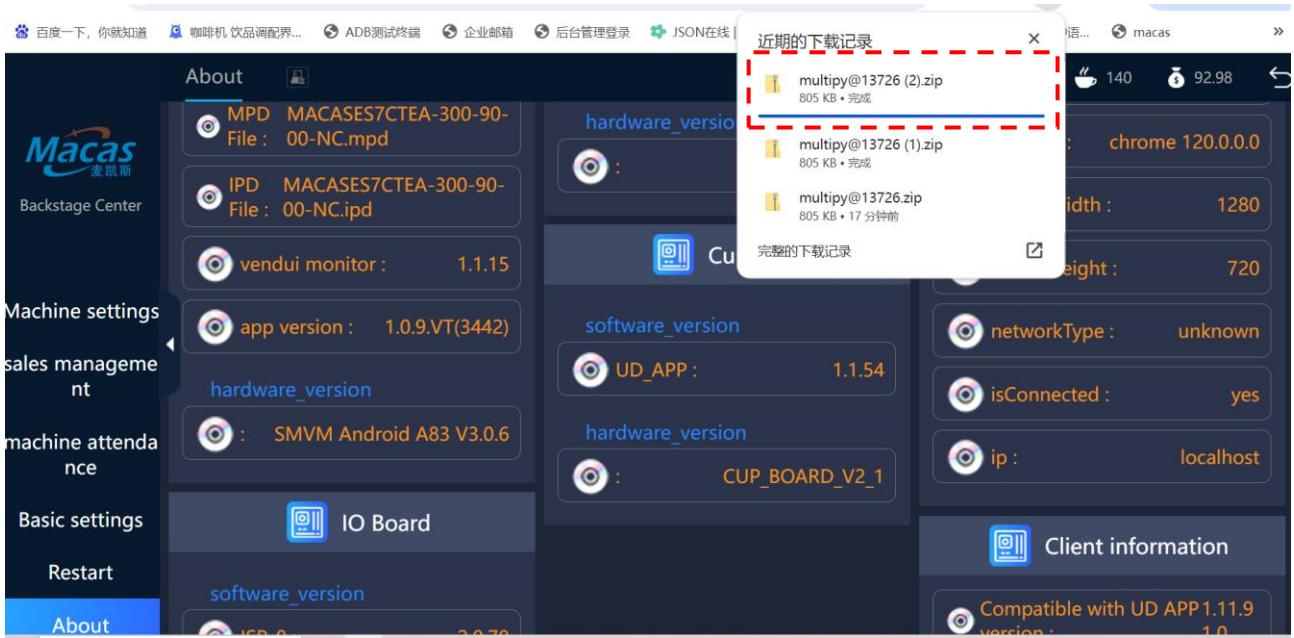
5.8.2 Export



1. Select the file you want to export



2. Select export file.



3. You will get the required documents.

6 Machine parameter

6.1 Please refer to the machine specification

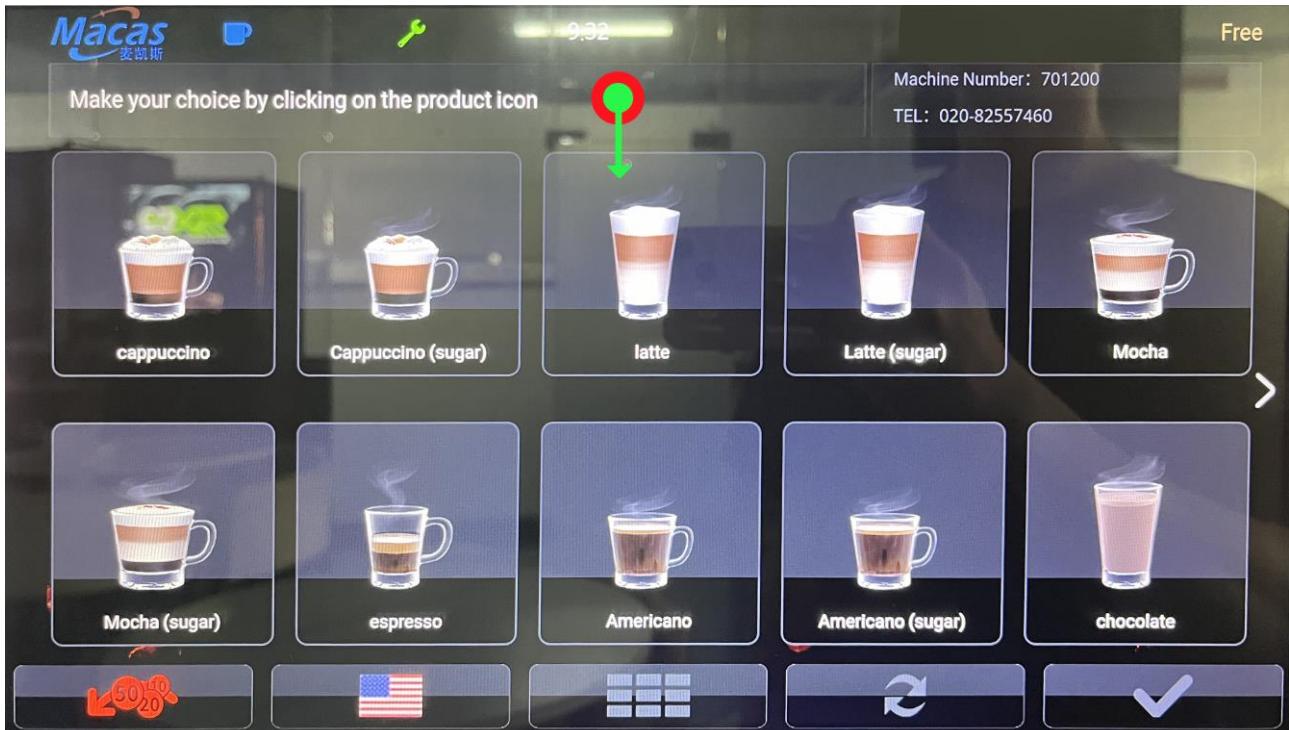
7 Component test function description

7.1 Please refer to the machine test and debugging guide

8 Convenient function

8.1 Machine management entry

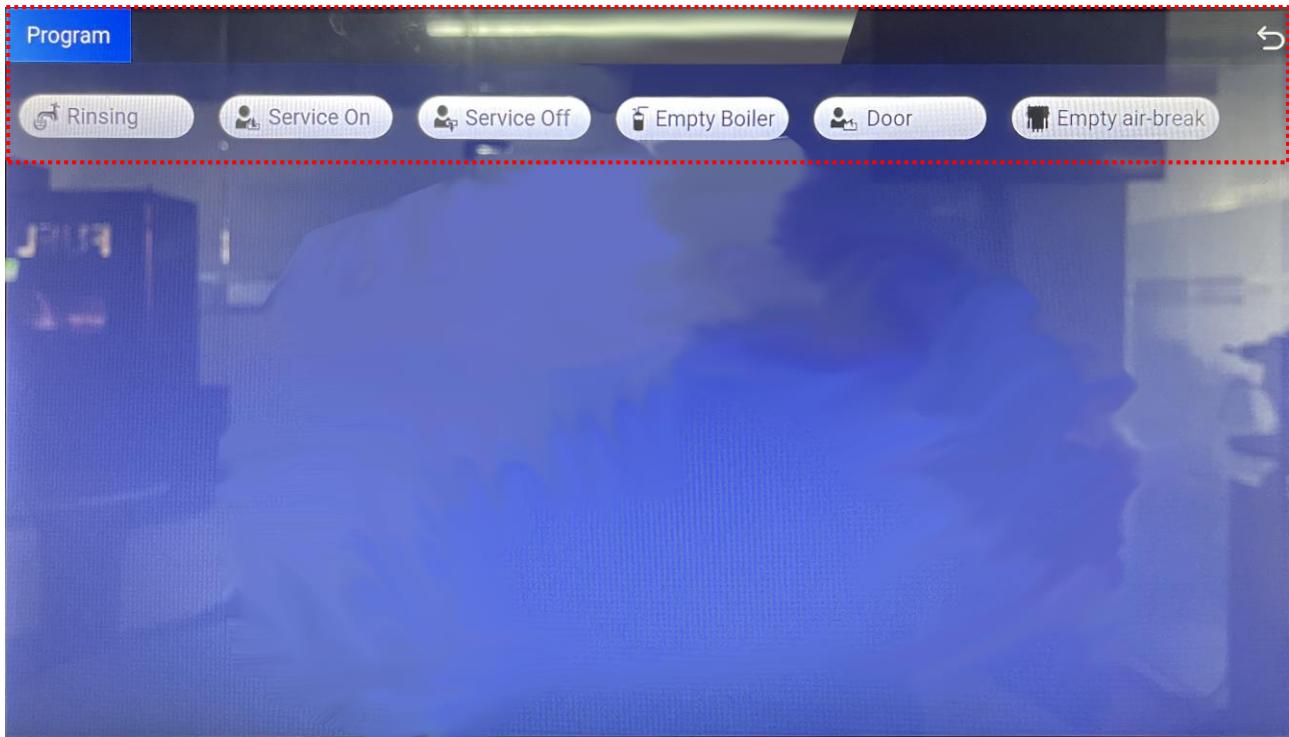
Click the position on the screen and slide down to bring up the machine management entrance interface



1.open door: Open the cabinet door (The password is “189239”)

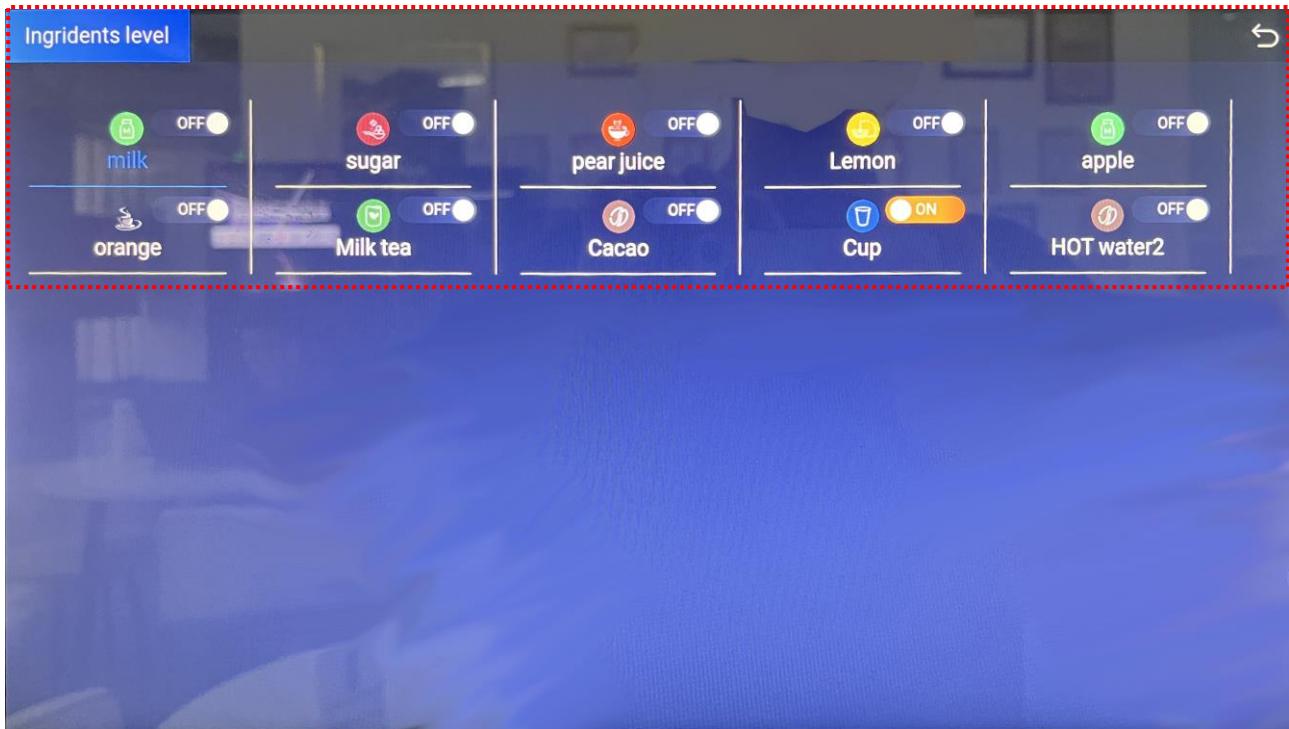
2.connection status:

3.machine management: Manage machine health



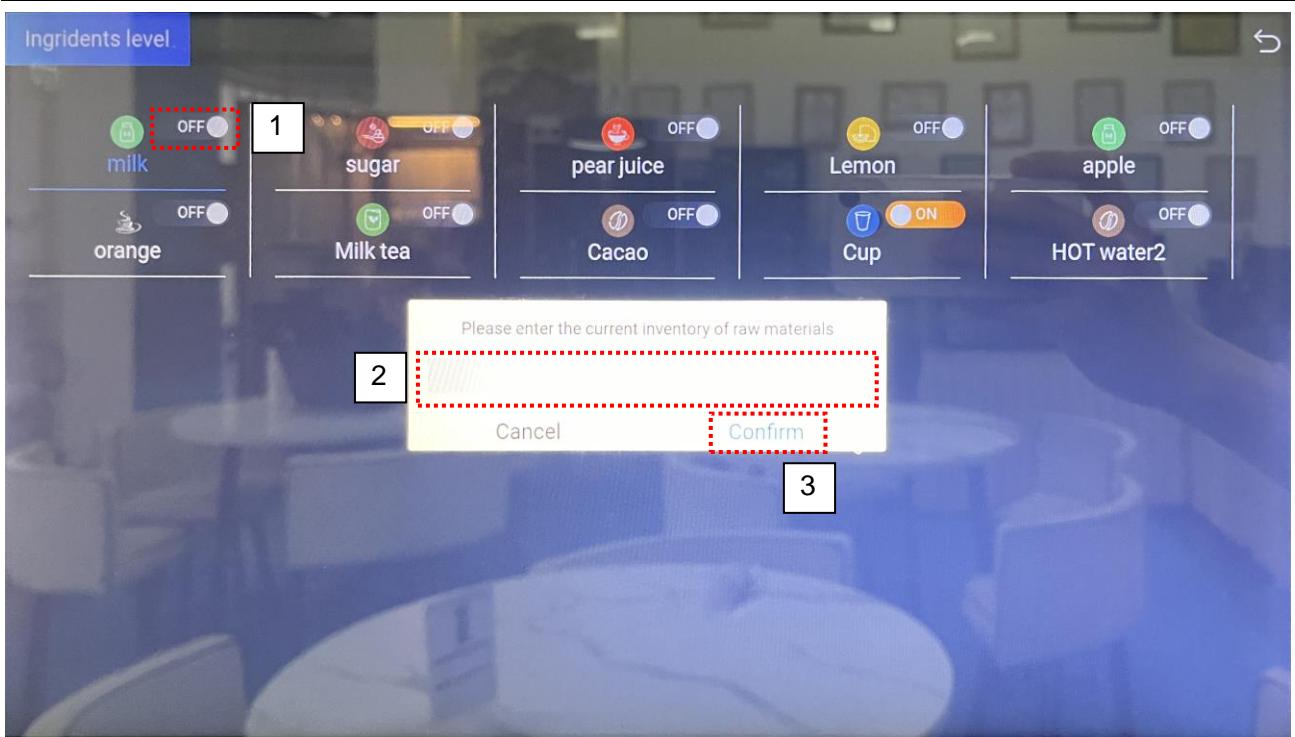
4.program: Run common programs

5.machine authorization: The function is being developed

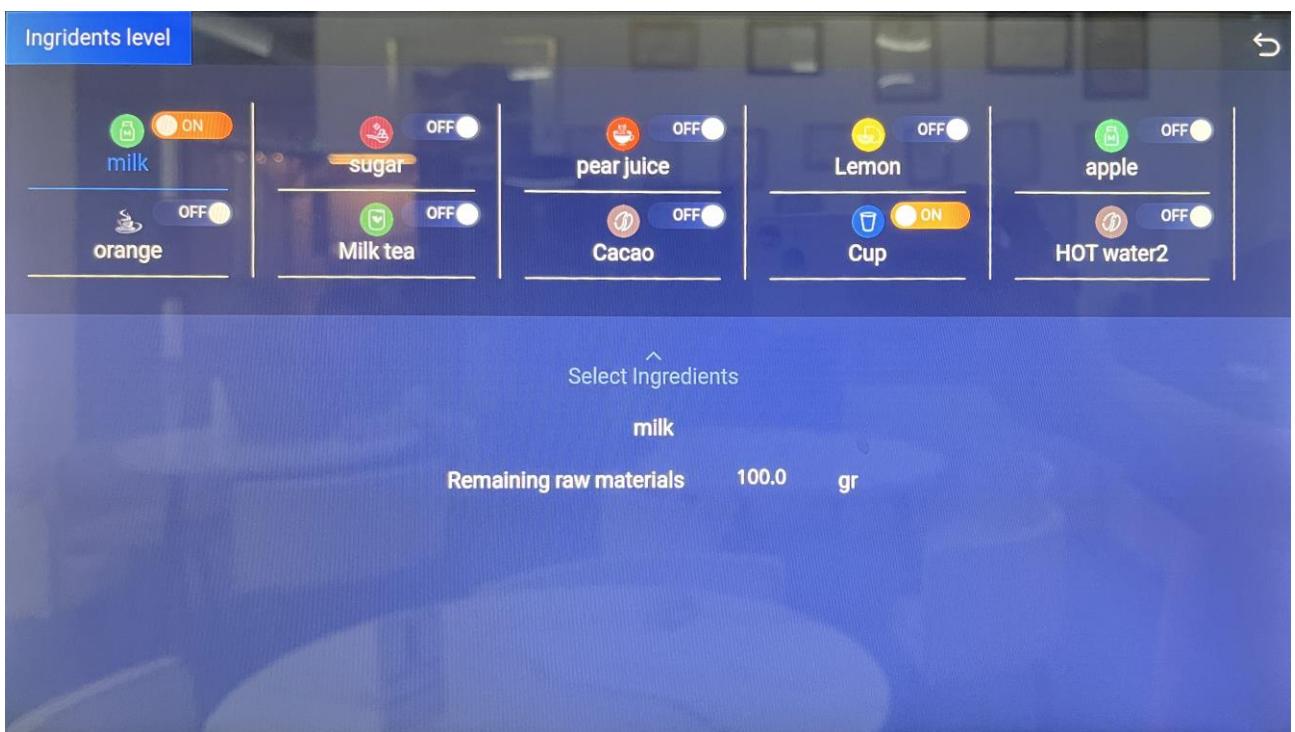


6.ingredients level: Used to monitor material allowance (The password is “3030”)

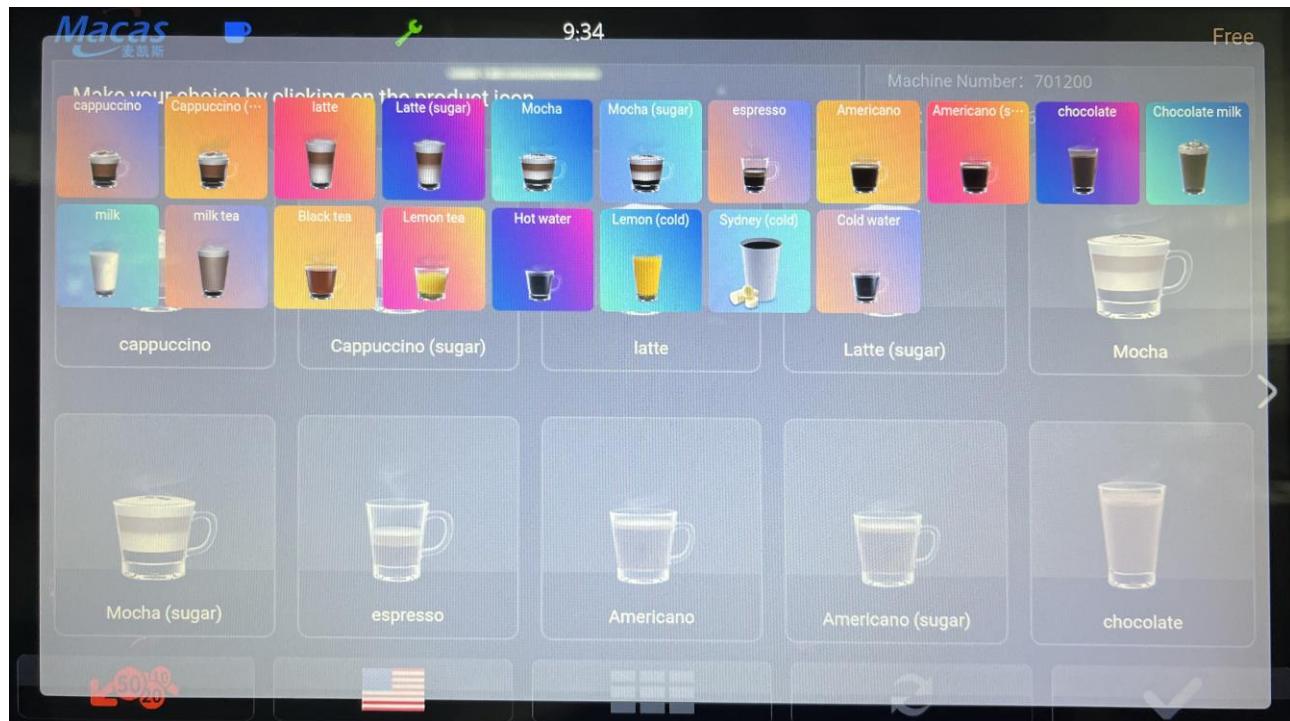
[Type here]



Select the material to be supervised and enter the quantity



7.about: View the machine version status



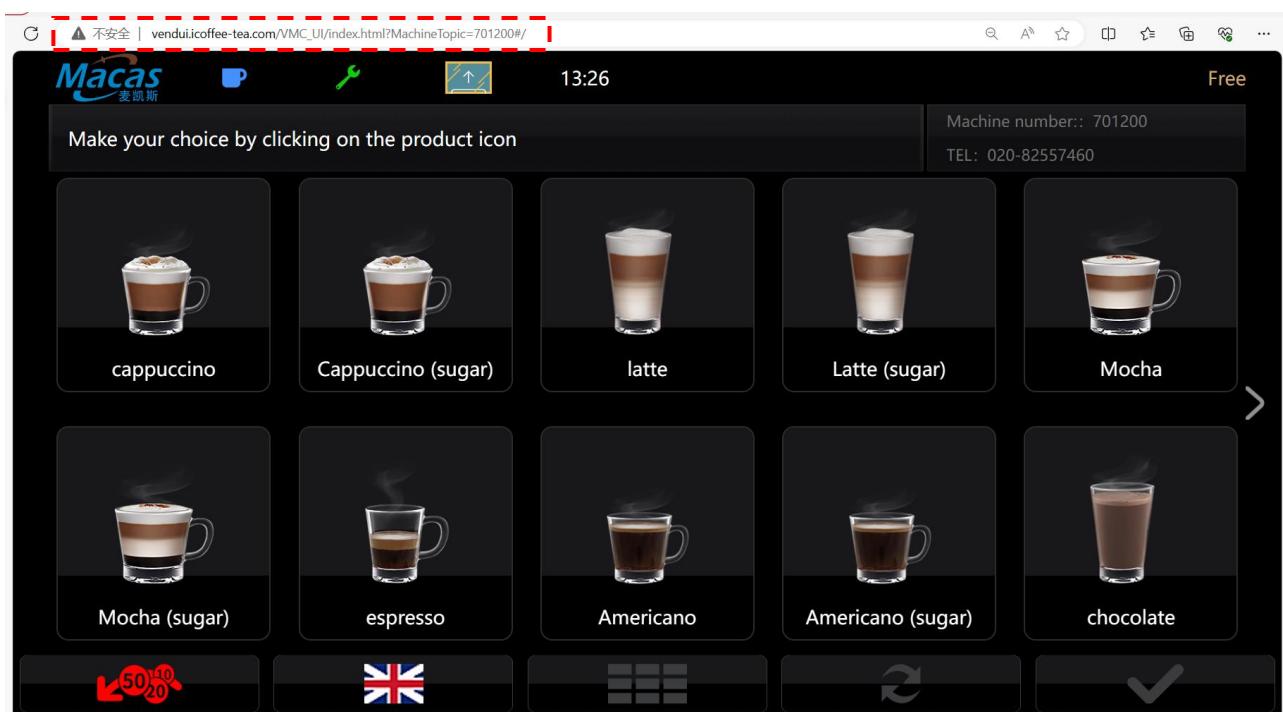
8.Product Recipe: Adjust the sales interface product sorting(The password is “666”), It can be adjusted at will. After adjustment, restart the machine

9.web version: website two-dimensional code

9 Background management tool

website: https://vendui.icoffee-tea.com/VMC_UI/index.html?MachineTopic=xxxxxx

1. Ensure that the machine is well connected to the network
2. Login to above website, xxxxxx is the machine number of the machine requiring remote control
3. The background control tool can be used to remotely control the machine for most of the work, and the specific operation is consistent with normal touch



10 Trouble shoot guide of the machine

Problem phenomenon	Possible causes	Solution
Coffee flow rate is too slow	Coffee abrade too fine	Set the grinder (counterclockwise)
	Too much coffee powder	Recalibrate the grinder
	The filter on the brew is blocked	Clean brew
	Pipeline damage	Inspection pipeline
	Brew leak	Replacement of damaged parts
Coffee flow rate is too fast	Coffee grinding is too rough (pressure sensor feedback exceeds limit)	Set the grinder(clockwise)
	Too little coffee powder	Recalibrate the grinder
The product is gray in the user interface	No coffee beans.	Filled coffee beans
	Problems with related motor components	Enter the background to check the

and cannot be selected. Instant drink tastes light		error message
	The material box output is blocked or incorrectly installed	Check and Clean
	Powder Filling Error	Check and Corrections
The product is grey in the user interface and cannot be selected.	Incorrect formulation	Upgrade recipe setting
	Material box outlet is not in the correct position	Check and Corrections
	Incorrect amount of powder	Corrective material box
Instant drinks are light in taste and incorrect in coffee quantity	Incorrect parameters, powder output time / motor speed	The output time of powder increases and the speed of motor accelerates.
	Brew leak	Check and notify after-sales service
	Pipeline Leakage Connecting Brew	Reinstall
	Damage to the Seal Ring of Brew	replace
	Incorrect Pulse Number of Flowmeter	Reset
	Initial use of machines, pipes with air	Reboot and try more than three times
Machine does not display two-dimensional code	Anomaly of Network Signal Receiving	Replace carrier signal card
	Signal card arrears	Contact Macas Service
	Background server exception	Contact Macas Service
Boiler water filling failure	Pipeline has air	Power is disconnected for two minutes and restarted
Problem phenomenon	Possible causes	Solution

11 Document change history list

1.1 Version 1.0.0

1.2 Version 2.0.0

Add machine parameter description.

1.3 Version 2.0.1

Add machine test description