

# Dual head Spin Cold Spark Machine

## User Manual

### Packing list:

- Dual head spin cold spark machine x1
- Power cable x1
- Remote control x1
- User manual x1

### Safety instructions:

- This safety instruction contains important information about the installation, use and maintenance of this machine. Please read it carefully before using the machine.
- Please use a grounded socket to avoid the risk of electric shock.
- Do not touch the casing of the machine during operation as it may be very hot.
- The machine nozzle is very hot during operation, please do not touch it.
- The minimum safe distance between people and flammable objects and the machine is 3 meters. The sprayed light points can only be in the air and cannot touch any objects, and pay attention to the spray residue that may fall.
- Keep out of reach of children!
- Eyes must be protected when working near machines.

### Installation and assembly:

- When using it outdoors, in order to achieve the best effect, try to raise the machine as high as possible and place it away from wet ground.
- For safety reasons, we do not recommend other installation methods. Please install and operate the machine on a flat location.
- Moving the product from extreme environments (e.g., from cold and dry to warm and humid) may result in condensation posing a risk of electric shock. In order to avoid such failures, make sure the device is adapted to the surrounding environment before connecting the power supply. Please make sure there are no flammable objects around the machine during operation.
- Do not install the machine on flammable surfaces (linoleum, carpet, wood, paper, cartons, plastic, etc.).
- Always use the machine in a well-ventilated area with at least 50 cm of space around the machine.
- Make sure the ventilation holes in the machine housing are not blocked.

### Operate:

- Do not operate this product if the machine casing or cables are found to be damaged. Have the damaged parts replaced by an authorized technician immediately. Please make sure there are no flammable items around the machine during operation.
- Do not cover or block the spout during operation.
- Do not use this machine as a space heater.
- Never use the power cord or any moving parts to carry the machine, use the body handles.
- Before transporting the machine, empty the storage bin.

- The maximum ambient temperature is 40°C. Do not operate this machine in a high temperature environment.
- Before and after using the machine, you should use the consumable cleaning function to remove the remaining materials from the machine. After using the machine, you should observe whether there is any nodulation in the spray port. If there is any, it needs to be cleaned. The nodules will affect the spraying effect and even damage the machine.
- Before cleaning, please disconnect the machine from the power supply.
- This machine does not contain any parts that can be disassembled and repaired or modified by the user. Do not attempt to repair or modify this machine by yourself without trained and authorized technicians to avoid damage or malfunction.
- When a serious failure occurs, please stop using it immediately.
- Only use original consumables.

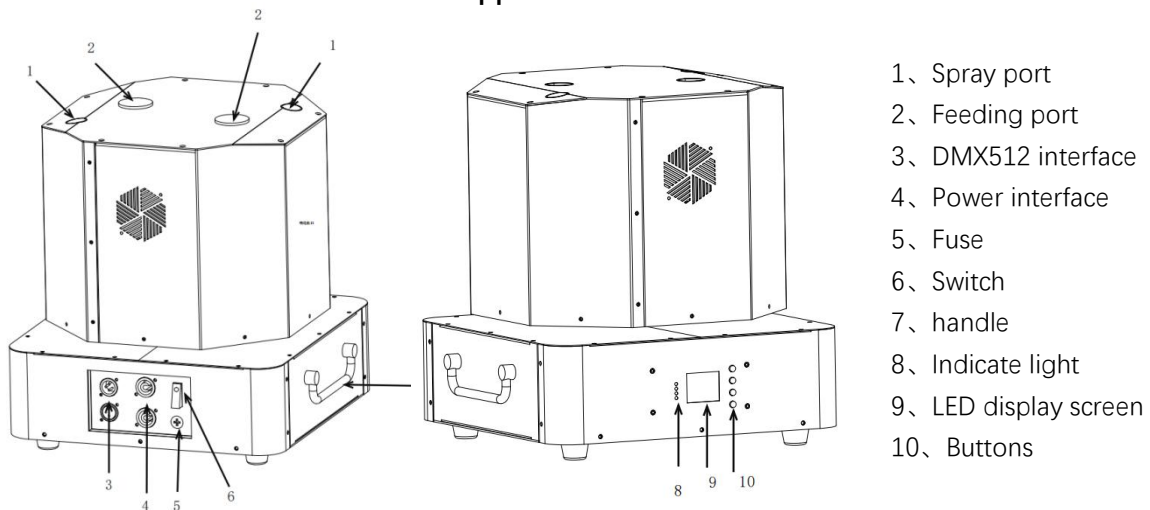
## Product Introduction:

**Product description:** The double-head spin cold spark machine can rotate the machine body at will, and the two flame jets are intertwined and can be positioned. The rotation direction, rotation speed and spray height can be adjusted.

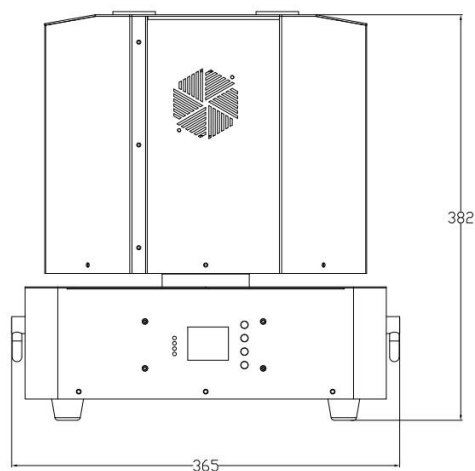
### Features:

- Double-head infinite rotation, free direction change, positionable, and two nozzles can be controlled separately;
- Adjustable rotation direction, rotation speed, and spray height;
- The angle between the two nozzles is 20°, and the spray effect is intertwined and interesting.;
- The remote control comes with a variety of horse racing effects;
- DMX512--7 channel control;

### Appearance overview



## Product Size



## Technical Parameters

<b>AC power supply</b>	Use voltage	AC 110V/220V , 50/60 Hz
	Current limiting insurance parameters	10A, 250V
	Current limiting insurance type	Fuse
	total power	1300W
	Power input/output connections	Self-locking power connector
<b>Heating</b>	heating time	about 3 minutes
<b>Powder storage bin volume</b>	volume	400g×2
	Output powder amount	About 8g/min X2
<b>Includes accessories</b>	power cable	1 item
	remote control	16 keys
<b>Install</b>	Placement and installation	lay flat
<b>Spray angle, distance</b>	The angle between the two nozzles	20°
	Spray height	1.5-5m adjustable
<b>control</b>	LCD control panel	4 keys
	wireless control	16 keys with horse racing function
	DMX-512	7 channels
<b>Weight and dimensions</b>	net weight	15.7kg
	gross weight	
	Product size	365*342*382mm
	Packaging size	

### AC power supply

- This product has a fixed voltage power supply, using AC 100-110V/220 V-240 V, 50/60 Hz.
- To determine your machine's power requirements (circuit breaker, electrical outlets, and wiring), refer to the values listed on the machine's panel label, or refer to the machine specification sheet. The values listed represent the average current draw of the machine under normal conditions.

- Always connect the machine to a protected circuit (circuit breaker or fuse). Make sure the machine is connected to a grounded power plug to avoid electric shock or fire.
- Never connect the machine to a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used only as a 0 or 100% switch.
- AC plug: The power cord is a self-locking power wiring.

**DMX connection:** 3-pin connection to DMX console, which can be connected to the same console and controlled separately with other DMX-enabled devices. This manual covers the operational connection and configuration of DMX。

**Installation:** Before installing the machine, read and follow the safety recommendations mentioned in the safety Instructions.

**Position :** For safety reasons, it is recommended to install and operate this machine on a flat location and ensure adequate space for ventilation, configuration and maintenance.

### Assembly:

- Make sure the installation location allows easy access to machine maintenance and airframe control operations.
- Make sure that the structure or surface on which the machine is mounted can support the weight of the machine (see "Technical Data").
- When installing the machine on the floor, keep the machine and cables away from people and vehicles.

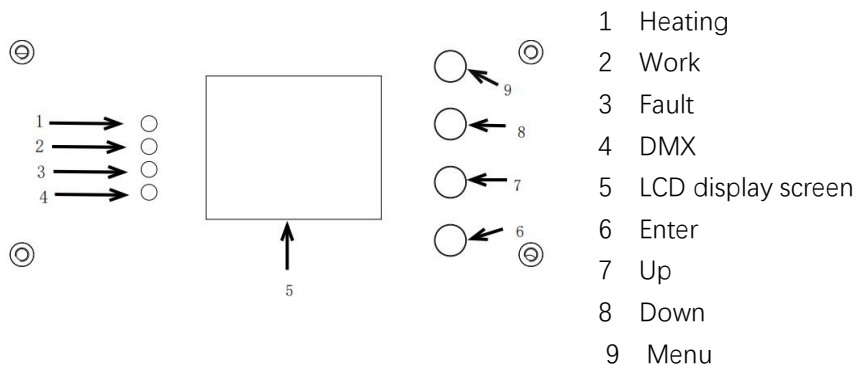
## Instruction:

### Preparation

- After confirming that the machine and its accessories are intact, place it on a flat location.
- When the power is off, please add consumables to the feed port.
- Plug the power cord into a grounded outlet. Before powering on, please reconfirm whether the voltage specification is correct.
- Turn on the power switch and the machine starts heating.

## Machine control panel

### Panel description:



**Device indicator light description:** When the device is set to turn on the heating function, the device automatically completes heating. The display shows the temperatures of the two heating cores.

Indicator light	Function Description
Heating	Blue light flashing means the device is heating. When the blue indicator light is off, it means there is no heating.,
Work	Green light indicates that the preheating is completed and sparks can be emitted.
Fault	Yellow light, flashing light means there is an error in the machine (the buzzer will sound at this time, and sparks cannot be produced. You can check the error content in the system menu)
DMX	Green light means the machine detects DMX512 signal.

### Menu Description:

Menu	Contents	Function description	Adjustable range
Main menu	set up	Used to enter the settings menu	/
	system	Used to enter the system menu	/
	advanced	Used to enter the advanced menu	/
	Chinese/English	Set the displayed language	/
	180	Display rotates 180 degrees	/
Setting	DMX address	Set DMX512 address	1-512
	wireless switch	Set whether the remote control function is turned on	ON /OFF
	language	Set the displayed language	Chinese /English
	Host	Set whether this machine is the host	ON /OFF
	Identifier	Set the identification code of this machine as a slave machine	1-30
	Number of horse racing machines	Set the number of horse racing machines connected to this machine	1-30
	gear switch	Used to set whether the spray height is turned on during horse racing	ON /OFF
	gear	Set the spray height during horse racing	1-3
	Spray sparkler by manual	Set whether manual sparkler spraying is turned on	ON /OFF
	screen protector	Set whether to turn off the screen after 30 seconds	ON /OFF
	Wireless coding	stand-by	/
	Master and slave frequency bands	stand-by	/
System	DMX channel monitoring	Display the value of DMX channel	/
	System error log	Display wrong content	/

	This time of use	Display the time of this startup	/
	Total usage time	Display the total time the machine is powered on	/
Advanced (this function is only for factory internal operation)	Starting temperature	Set the minimum temperature at which sparks can occur	280-450
	Set temperature A	Set the heating target temperature of the left heating core	350-550
	Set temperature B	Set the right heating core heating target temperature	350-550
	warning temperature	Set over-humidity temperature	180-650
	Feeding level	Set the speed of feeding powder	10-100
	Height adjustment	Fine-tune the spray height	0-60
	Remote control code	Adjust remote control code	/
	Sensor monitoring	Set whether the rollover function is enabled	ON /OFF
	automatic heating	Set whether to automatically heat on startup	ON /OFF
	Origin position	Set the origin position of machine rotation	0-399
	Set direction	Set the direction of rotation	0-1
	Restore default settings	Restore default settings	/

## Device working mode

**Working time:** After the equipment starts working, the equipment can spray once for a maximum of 60 seconds in a fault-free state. If the injection operation is required for the second time, the injection operation needs to be started again.

**DMX mode instruction:** The device has 7-channel mode, and the DMX channel functions are as follows:

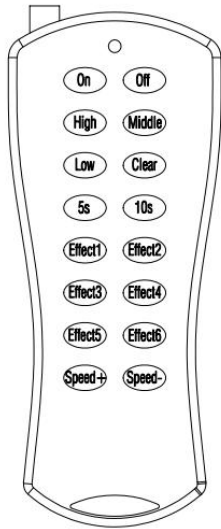
Channel	Description	Value	Description
1	Spray height	0-10	0-10 turns off the spray
		11-255	11-255 starts spraying flowers. The larger the value, the higher the height.
2	Clean	0-149	closure
		150-255	Clear material
3	Heating	0-199	Heating enable
		200-255	Stop heating and the first channel is invalid

4	Direction	0-127	Turn clockwise
		128-255	Turn counterclockwise
5	Speed	0-10	Does not rotate
		10-255	The larger the value, the faster the rotation
6	Position	0-255	0 is the origin. The larger the value, the greater the angle with the origin.
7	Spray nozzle enable	0-100	A and B spray ports enable sparks
		101-200	A spray nozzle enables sparks to be produced
		201-255	B spray nozzle enables sparking

**Remote control mode instruction:** When heating is completed, you can use the remote control to operate

Key	Description
ON	spray sparkler and spin
OFF	Turn off spray and rotation
High	Spray sparkler and rotate at maximum height
Medium	Spray sparkler at medium height and rotate
Low	Spray sparkler at low height and rotate
Clean	Clean powder from pipes
5 seconds	Spray sparkler and rotate, stop after 5 seconds
10 seconds	Spray sparkler and rotate, stop after 10 seconds
Horse racing 1	Horse racing effect 1
Horse racing 2	Horse racing effect 2
Horse racing 3	Horse Racing Effect 3
Horse racing 4	Horse racing effect 4
Horse racing 5	Horse racing effect 5
Horse racing 6	Horse racing effect 6
Horse racing 7	Horse racing speeds up
Horse racing 8	Horse racing speed reduced

## Host control mode/horse racing function settings:



1. Select a machine, enter the setting interface, and turn "Host" to "On".  
(The host control mode is turned on at this time, and the other defaults are slave)
2. Select "Number of Horse Racing Machines" to set the number of connected machines. For example: if 4 machines are connected in series, the value is set to 0043. The host "identification code" is set to 001 by default.
4. Enter the setting interface of the slave machine, and set the "identification code" of the second machine to "002", the third machine to "003", and so on..
5. After the setting is completed, use the remote control to press the horse racing button to test the horse racing effect and check whether the setting is successful.

## Add Sparkler powder :

Tear open the vacuum self-sealing aluminum foil bag of sparkler powder, and add spray sparkler powder to the feeding port on the upper part of the machine according to the required amount. It must be added through the feeding port and make sure the machine power is turned off;

- Feed port and storage bin (consumables adding process)
- Open the storage tank lid;
- When the power is off, please add consumables to the feed port. It is prohibited to add consumables to the nozzle;
- Please make sure the lid is fully closed;
- 1 storage tank can hold 400 grams of consumables;

**Once a fire breaks out, use dry powder fire extinguishers to extinguish the fire. Do not use water type fire extinguishers, foam fire extinguishers and carbon dioxide fire extinguishers.**