

SW-S650

SPARKULAR USER MANUAL

Please read this manual carefully before



operating this product.

Safety

Warnings and Cautions



The sign is to remind users of paying attention to risk and security.

Please note that the machines are not meant to be a continuous duration effect. The maximum running time is 30 second and can be repeated but should not be done to overheat the machine.

Eye Protection



Eye protection warning sign is to remind you of protecting the eyes during the machine operation.

Injury Voltages



Warning: Dangerous voltages are present in this machine when electrical power is applied. There is a danger of injury from electric shock. Under no circumstances are you to attempt to open the machine or attempt to remove or adjust any components fitted within the machine.

Only fully trained engineers can open the equipment.

Caution Against Liquids



Use caution so that any liquids do not wet the machine. Keep the machine and controller dry and not use rainy or snowy days unless covered.

Warning



happens

Please prevent anything from entering the fountain port, if this

Please clear obstructions before continuing operation.

Please prevent machine from dropping when installing “DAMAGE CAN OCCUR”.



Cleaning



Please inspect fountain nozzle before use and confirm whether there are accumulation granulates. If it does, please clean out by inverting the machine to clean out port.

User Manual

sparkular

➤ Security Considerations:

1. Unauthorized repair is prohibited, or else it may cause serious accident.
2. Keep sparkular dry and do NOT use in rain or snow.
3. Make sure the hopper lid is well covered when use sparkular.
Accidentally Burning of Composite Ti can only use sands to extinguish. Composite Ti should be stored in a dry sealed environment.
4. Keep audience and flammable material at a minimum distance of 3m from sparkular. Make sure sparks shooting out from sparkular can NOT reach any objects.
5. It is necessary to clean the Composite Ti remains in the pipe before and after the show. Check whether there are Composite Ti remains in the nozzle after each show. If it does, please clean it up, or else it will affect the shooting effect or even damage sparkular.
6. Connection maximum is 6 pieces, and over-connection may result in damage or even fire.

7. For better heat dissipation, do NOT block the air intake and air outlet.

Cover nozzle is prohibited.

➤ **Parameter(machine):**

Working Height	1-5M
Working Temperature	-10°C-50°C
Heating Power	650w 6A (110V Version) 650w 3A (220V Version)
Fuse	110V/10A, 220V/6A
Interface	Double DMX input, Double AC power
N.W.	5.9kg
Size	185*185*252mm
Max. connections	Max. 6PCS
Warranty	1 year

➤ Parameter(consumables):

Consumable material:	Titanium Alloy Grains
Net Weight:	250g
Usage:	total 15-20 minutes spark shooting
Package:	Vacuum packing

DMX Channel mode

The system occupies 2 channels

The First Chanel	Function	Digital Tube Display
0-10	Pre-heat turn off	OFF
11-220	Emergency stop	E57
221-239	Pre-heat turn on	CLE
240-255	Pre-heat ON	Temperature DMX address
The Second Chanel	Function	
0-15	Turn off	OFF
16-63	Spark Height 1	F1
64-111	Spark Height 2	F2
112-159	Spark Height 3	F3
160-207	Spark Height 4	F4
208-255	Spray Height 5	F5

5: Fault light (yellow) display and processing method

Display content	Fault causes	Solution
E01	Heating failure	1:Check if the heat dissipation of the heating plate is normal. 2: Replace the heating plate.
E02	Heating is not controlled	1: Replace the heating plate
E03	The internal temperature of the machine is extremely high	1 : Check the cooling fan, 2: stop heating and spray, restart after 10 minutes.
E04	The fan does not work	1 : Check if there is any foreign matter falling in the spray port, 2: Replace the fan motor
E05	The sensor is broken	1: Check sensor socket, 2: replace sensor

Note: when the fault light is on, you need to restart the machine until the fault light turns off the machine to work properly.

Consumables considerations

1) If the consumables are accidentally ignited, they can only be covered with sand, and the air is isolated until it is extinguished. Do not use water.

2) Consumables should be kept in a dry and sealed environment to prevent moisture.

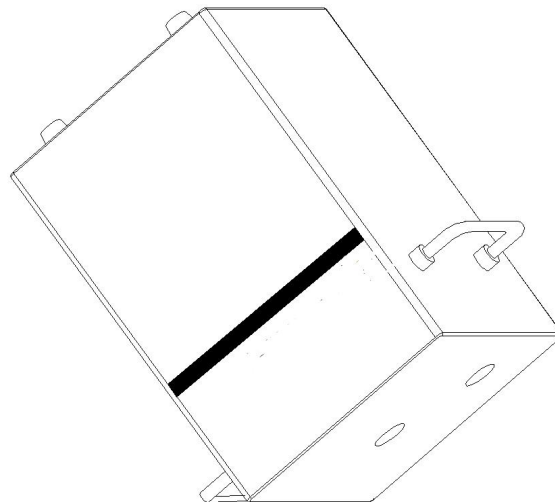
3) The consumables are classified as:

Small consumables: the spray height is 1.0-3.0 m (error 0.5 m), and the spattering point is not lost.

Medium Consumables: The spray height is 2-4 meters (0.5 m error), and the spot is rarely dropped.

Large consumables: The spray height is 2-5 meters (0.5 m error), and the sprayed spot has dropped ground.

4) If you find that the spray is less, it may be due to insufficient supplies, please add consumables.



7: Clear material

1) After use, please turn the cold spark machine to pour off the remaining material and store it in a dry sealed container.

2) After draining the remaining material, heat it again and spray it until no spark is ejected, so as to clear the remaining material of the machine. In case it will affect the next spray effect, or even damage the fuselage. (Note: problems caused by improper cleaning will not be covered by the free warranty)

8: Warning and safety matters

- 1) Do not spray more than 30 seconds each time. If the continuous spraying time is too long, the internal temperature will rise sharply and cause permanent damage. After a single long-time spray, you should pay attention to the next spray after a short pause.
- 2) When the machine continues to spray for more than 30 seconds, it will automatically close. If it needs to continue, the spray function can be triggered again.
- 3) The power of a single standard cold spark machine (the sprayer is connected to the power cord) can only be connected to a maximum of 6 machines. If the connection is too much, it will cause damage or fire.
- 4) If there is no spark discharge in the spray port, if the powder inside the cartridge is enough, the gear may be stuck. The preheating should be turned off, the gear should be turned loose manually until the gear rotates smoothly, and then the cartridge is dumped. The powder inside heats the spray, sprays the residual powder inside the pipe, and then adds the powder to heat and spray again. If the problem is not solved, contact the after-sales.
- 5) When the spray is finished, do not immediately turn off the power. The heating should be turned off, and the heat-dissipating fan should take out the hot air inside the machine when the power is turned on. Otherwise, the internal heat is quickly transmitted to the surface of the casing.
- 6) The operator should be 3-5 meters away from the cold spark machine.
- 7) Make sure the device is off before feeding.
- 8) If the consumables are accidentally ignited, please use the sand to extinguish, do not use water.
- 9) Store consumables in a cool, dry, sealed environment.

10) Damage caused by improper use or human factors is not covered by the warranty.

11) The final interpretation right belongs to our company.

➤ Operation Panel:



READY: Green light Flash indicates that the system is ready for work, and the steady light indicates that the system could work now

DMX: Blue light Flash indicates DMX signal, while no display is signal disconnected

FAULT: Yellow light It is on when there is an error

HEAT: Red light Steady light when it's heated

△ : Means increasing DMX address code, long press makes it increased fast

▽ : Means decreasing DMX address code, long press makes it decreased fast

Remote control function:



1: Short press the red button, when the display shows "FFF", it means the machine has connected to remote control, long press the red button, when the display shows "OFF", it means the machine has disconnected from the remote control.

2: "ON" button: start pre-heat, "OFF" button: turn off pre-heat

3: "1/2/3" button: working height, "1"=F1; "2"=F3; "3"=F5

4: "E-stop" button: emergency stop

5: "Clear Powder" button: Please press it to clear the remains in the pipe in case of remains being stuck. Press "OFF" to stop this process.

6: Turning off: please press the red button for 3 seconds.

Note: if you need to control machines in groups by remote control, you need to power on all the machines in group A, all other machines are turned off, then press the red button on the A remote control until the first group of machines displays "FFF"; the next, the machines in Group B are all power on, press the red button on the B remote control until the B group machine displays "FFF", and so on. This is the A remote control group A, B remote control group B.

3: DMX512 signal control:

When using the DMX512 signal control mode, the signals between devices are connected in parallel, so it is best to use twisted-pair shielded cables when connecting multiple devices. Each device is connected via the DMX signal socket (cassette) INPUT and OUTPUT on the device. The 3-pin XLRXL connector terminals of the connected device must correspond to each other. When connecting device signals, it is recommended to use the DMX signal terminator to avoid signal reflection and damage signal control.

When the DMX console is successfully connected to the machine, the DMX signal light (blue) on the machine flashes; the first channel (240-255) pre-heat function can be turned on, the HEAT light (red) lights up, and the temperature Rise will be displayed on the machine screen; when the heating is completed, the screen will display the DMX channel, and the READY lamp (green) will change from blinking to steady state, indicating that the spray is ready, and the spray height can be controlled through the second channel.

➤ **Material clean(important note):**

1. Please empty the powder by turning over the machine and clean remnants (DMX control address: 221-239) after use.
2. If the remnants are stuck, you have to open the housing and manually rotate the chain anticlockwise.
3. We don't offer free warranty once the machine stops working without clean process after use.



➤ **Dust clean(important note)**

1. Take down the dust-proof net to clean the dust.
2. Unplug the two plugs below machine and shake it.



➤ **Warning:**

1. Do not run over 30 seconds for each time.
2. Make sure the device is turned off while refilling.
3. In case of fire, use sand to extinguish. Do not use water.
4. Keep away from children.
5. Damage caused by improper using, installation, transportation, and maintenance, or damage caused by human factors are out of our warranty service range.



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