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SHOWVEN®

SHOWVEN 20250616 1000W Rotating Cold Spark Effect Machine



Thanks for choosing SPARKULAR® SPIN, we wish it will sparks up your show. Please read the following manual carefully before operating this product.

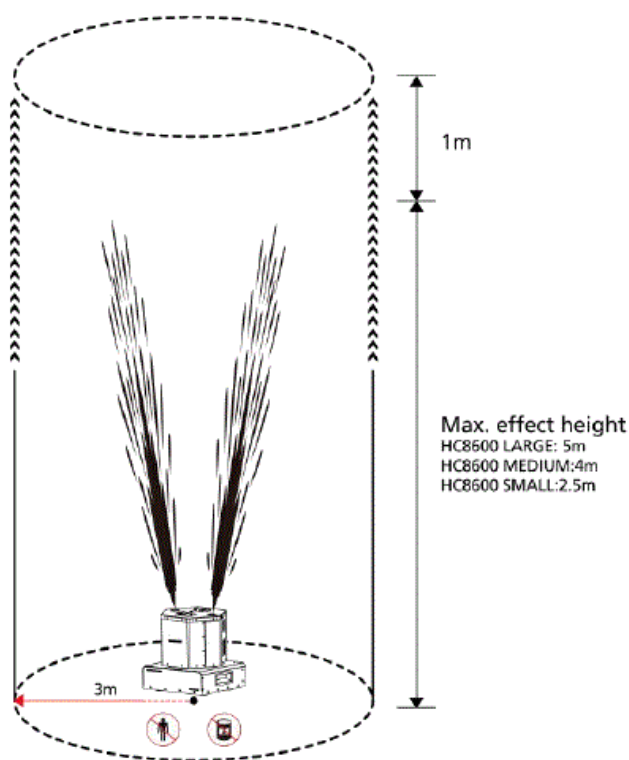
Safety Instructions

- Unauthorized repair are prohibited, it may cause serious incident.
- Keep SPARKULAR® SPIN dry and do NOT use in rain or snow.
- Make sure lid of feeding hopper are well covered when use SPARKULAR® SPIN.
- Accidentally burning of consumable can only use sands to extinguish.
- Consumable should keep away from moisture and stored in a dry sealed environment.
- Check whether there is consumable aggregate in the output nozzle both before and after each show, if any, please clean it up, or it will affect the firing effect or even damage machine.
- Please be noted that there may sparks or remains fall to the ground. Make sure there is no flammable objects such as carpet on the ground with a radius of 3m close to the machine.
- Suggest to use HC8600 MEDIUM or SMALL for indoor events.
- Maximum cascade of SPARKULAR® SPIN is 2 units with one standard power cable. For 110V version, we suggest each machine connect to power supply directly. Otherwise it may damage the machine and even cause fire.
- For better heat dissipation, block the air intake and air outlet is prohibited.
- Cover the output nozzle of SPARKULAR® SPIN is forbidden, inspect the machine before each show, making sure no objects or material will block the output nozzle.

- Never touch the nozzle of SPARKULAR® SPIN, danger of getting burnt
- Never touch the sparks which shooting out from the nozzle
- Ensure that children, animals and unauthorized persons don't have access to the SPARKULAR® SPIN.

Safety Distance

- Keep audience and flammable material at a minimum distance of 3m from SPARKULAR® SPIN.
- Make sure sparks shoot out from SPARKULAR® SPIN can NOT touch any objects. And keep a clearance with minimum 1m from the setting maximum effect height.
- In windy environment, increase the safety distance according to the wind direction and speed.
- Sparks and consumables from the machine can lead to serious eye injury. Always wear safety goggles when enter the safety zone.



Description

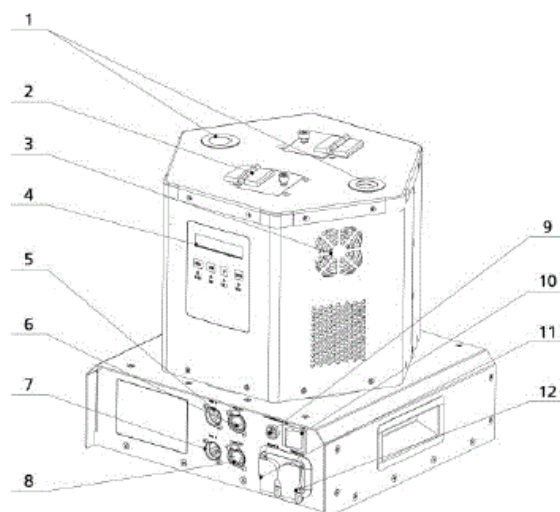
SPARKULAR® SPIN is another global pioneering SPARKULAR® machine originally from SHOWVEN® . With two 20° angled nozzles and bidirectional rotatable structure, it creates the waltz-like lissome and romantic sparks. With adjustable rotation direction,

rotational speed and effect height, SPARKULAR® SPIN bring a new visual effect to your events.

Technical Specifications

- **MODEL:** BT81/BT82
- **DIMENSION:** 330×305×349mm
- **WEIGHT:** 20kg
- **CASING MATERIAL:** 304 stainless steel
- **VOLTAGE:** 220V(BT81)/110V(BT82), 50/60Hz
- **WORK POWER:** 1000W
- **WORK TEMP.:** -20°C~50°C
- **EFFECT HEIGHT:** HC8600 MEDIUM: 2~4m, HC8600 LARGE: 2~5m \ HEIGHT ADJUSTABLE: YES
- **EFFECT DIRECTION:** two 20° angled nozzles
- **HOPPER CAPACITY:** 200g*2
- **HC8600 CONSUMPTION RATE:** 20g/min*2
- **INTERFACE:** Neutrik® powerCON TRUE1 IN/OUT Neutrik® 3-pin&5-pin XLR IN/OUT
- **CONTROL:** DMX 2/4 channels switchable, wireless remote

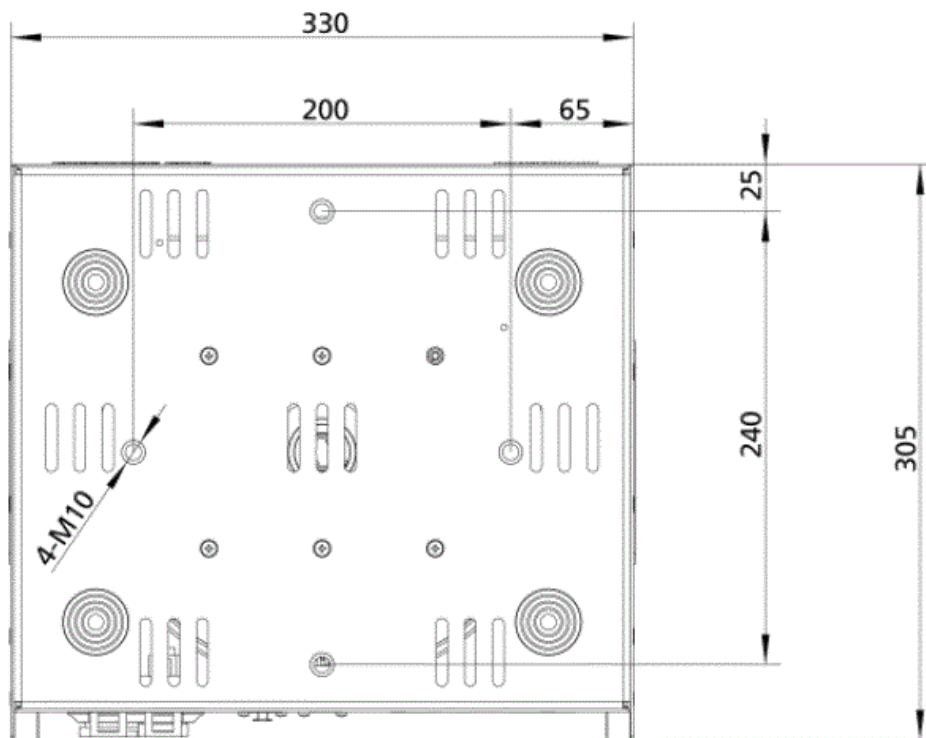
Structure of SPRKULAR® SPIN



1. Output Nozzle
2. Feeding Hopper Lid
3. Cooling Fan
4. LCD Screen

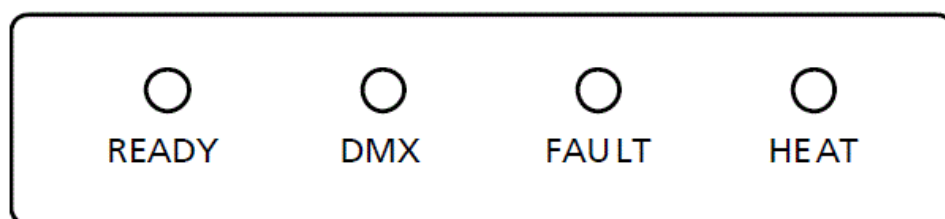
5. 3-PIN DMX IN
6. 3-PIN DMX OUT
7. 5-PIN DMX IN
8. 5-PIN DMX OUT
9. Fuse
10. Power Switch
11. Power IN
12. Power OUT

Diagram of Bottom Panel



Operation Panel

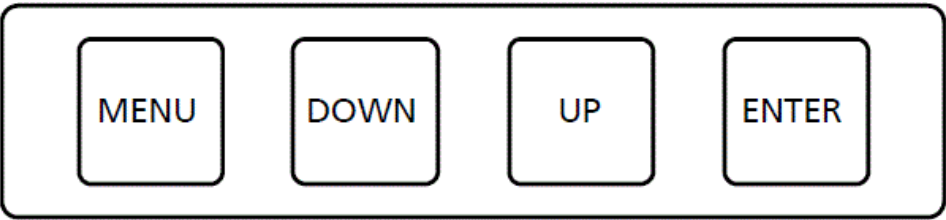
LED display area



- **READY:** Turns from flashing into long on, indicates that the machine is ready to work.
- **DMX:** Flashing shows that DMX signal is connected; light OFF means there is no DMX signal
- **FAULT:** Light ON when error occurs

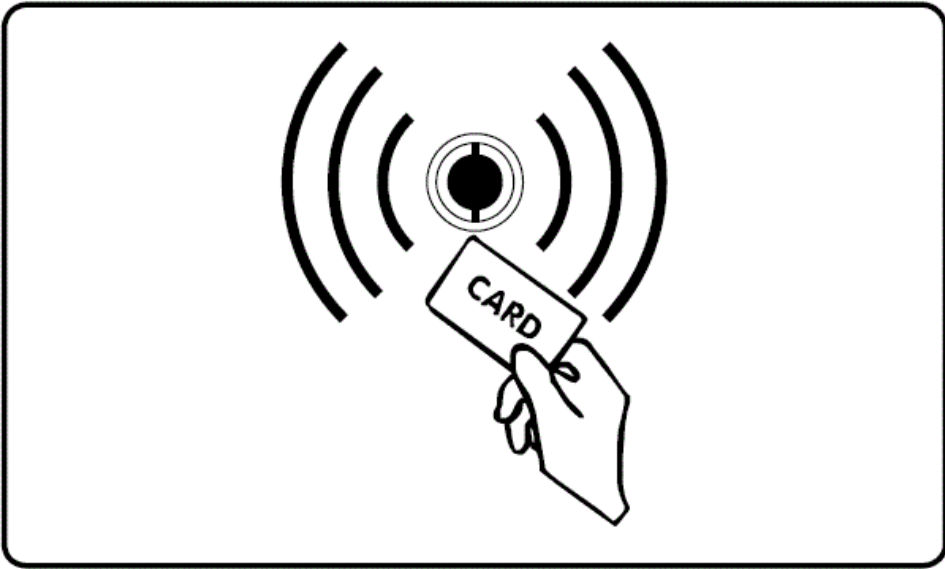
- **HEAT:** Light ON when system is heating up

Control button area



- **MENU:** Press to switch through menu, press and hold for 3s enter advanced menu
- **DOWN:** Parameter down
- **UP:** Parameter up
- **ENTER:** Confirm and save parameters

RFID area



Composite Ti with RFID card, swiping cards used to identify parameters and types of granules. The RFID card is disposable, one card can only use one time.

Interface

Main Interface

593	582	RPM	70
DMX	1	CH2	30.00

- **First Line:** Shows inner core temp. of Nozzle 1, inner core temp. of Nozzle 2,
- **RPM:** Spinning speed
- **Second Line:** DMX address, error info. if available, CH2/CH4 means 2 or 4 channel mode, remain working time

Error information

Error information	Explanation
E0 System IC	Systematic error
E2 Temp. Sensor	Temperature sensor is not connected or damage
E3 P Temp. Over	Chassis over-temperature
E4 Time Remain	Activated time for machine is not enough, need to swiping RFID card
E5 K Temp. Over	Inner core over-temperature
E6 Heat Fail	Heating fail, if it self recovery, please pay attention to the power supply

Setting Menu

Press “MENU” switch through setup menu.

Options	Range	Default	Explanation
Set DMX Address	1-512	1	Set DMX address. If controlled by Host Controller, please assign a unique address for each machine
Wireless Remote	ON/OFF	ON	Wireless function ON/OFF

Manual Fountain	ON/OFF	ON	Manual firing ON/OFF, for test only
Fountain Height	1-10	1	Manual firing height setup, for test only
Spin Speed	60-100	70	Spinning speed setup
LCD Backlight	ON/OFF	OFF	

Advanced Menu:

Press “MENU” 3 seconds to enter the advanced setup interface, press MENU key to enter different options, wait 3 seconds to return to the main interface.

Options	Range	Default	Explanation
Set Temperature	480-620	580	Set inner core temp. Please don't change default value without engineer's suggestion from SHOWVEN®.
Auto Heat	ON/OFF	OFF	Auto heat ON/OFF when switch on machine
Density	10-100	90	Sparks density

Mode Selection	Factory Mode/ User Mode	User Mode	Factory mode is for engineer only. When in Factory mode machine can't be controlled by DMX console/host controller
DMX Channel Mode	2 Channel/ 4 Channel	2 DMX channel	Channel mode set. 4 channel is for professional control with lighting console

Standby Switch	ON/OFF	OFF	Standby function. When ON, the machine can firing only when heating up was finished
Drive Test	SL1 Test / S L2 Test		Test the feeding motor.

DMX control

There are two different DMX mode for SPARKULAR® SPIN, 2 channels mode and 4 channels mode.

2 channels mode

First channel	Function
0-15	Fountain OFF
16-39	Height Low, not spin (related firing height on HOST CONTROL is 1)
40-63	Height Middle, not spin (related firing height on HOST CONTROL is 2)
64-87	Height High, not spin (related firing height on HOST CONTROL is 3)
88-111	Height Low, Clockwise spin (related firing height on HOST CONTROL is 4)
112-135	Height Middle, Clockwise spin (related firing height on HOST CONTROL is 5)
136-159	Height High, Clockwise spin (related firing height on HOST CONTROL is 6)
160-183	Height Low, anticlockwise spin (related firing height on HOST CONTROL is 7)

184-207	Height Middle, anticlockwise spin (related firing height on HOST CONTROL is 8)
208-231	Height High, anticlockwise spin (related firing height on HOST CONTROL is 9)
232-255	Height High, anticlockwise spin (related firing height on HOST CONTROL is 10)
Second channel	Function
60-80	Clear Material (perform after each show)
20-40	Emergency Stop
0-10	Pre-heat OFF (disabled when auto-heat ON)
240-255	Pre-heat ON (disabled when auto-heat ON)

4 channels mode

First channel (Nozzle 1)	Function
0-15	Nozzle 1 Fountain OFF
16-255	Nozzle 1 effect height adjust
Second channel (Status)	Function
0-10	Pre-heat OFF (disabled when auto-heat ON)
20-40	Emergency Stop
60-80	Clear Material
240-255	Pre-heat ON (disabled when auto-heat ON)

Third Channel (Nozzle 2)	Function
0-15	Nozzle 2 Fountain OFF
16-255	Nozzle 2 effect height adjust
Fourth Channel(Spinning Control)	Function
136-255	Anticlockwise spin, spin speed adjust (60-100RPM)
16-135	Clockwise spin, spin speed adjust(60-100RPM)
0-15	Not spin

Operation Guide

Install SPARKULAR® SPIN

- SPARKULAR® SPIN can only be installed horizontally.
- Make sure the machine is securely installed to avoid tipping.
- Check carefully the output nozzle of each machine, make sure the output nozzle is in good shape and there is no powder aggregate.

Fill SPARKULAR® SPIN

- Open powder bags and fill the feeding hopper. Hopper capacity of SPARKULAR® SPIN is 2*100g.
- Choose correct consumable according to the application scenario.
- Please be noted that there may be sparks or remains fall to the ground. Make sure no flammable material on ground in the safety zone.
- Maximum effect height: HC8600 LARGE is 5m, HC8600 MEDIUM is 4m.
- Make sure the lid of hopper is locked tight after filling.

Connect Power / DMX cable

- Connect a power cable to the POWER IN socket of SPARKULAR® SPIN. Connect the other end of power cable to the power source. Make sure power supply is consistent with the rated voltage of the equipment, and the socket must be well grounded.
- If connect machine in sequence, please connect a power link cable to the POWER OUT of previous machine, connect the other end of the power link cable to POWER IN of the next machine.
- Maximum cascade of SPARKULAR® SPIN is 2 units with one standard power cable. For 110V version SPARKULAR® SPIN, we suggest each machine connect to power supply directly. Do not connect exceed units to a single electrical circuit.
- Power ON all SPARKULAR® SPIN.

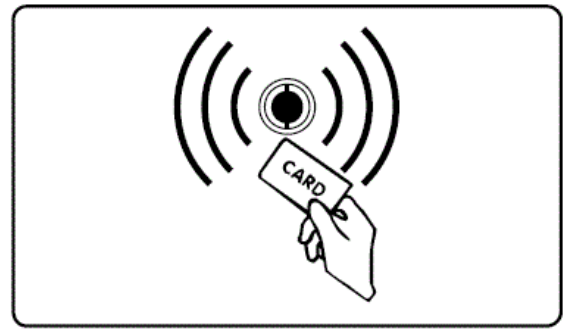
Assign DMX address for each unit of SPARKULAR® SPIN. If use SHOWVEN host controller or FXcommander to control the machine please allocate a unique DMX address for each unit of machine.

If use remote controller to control SPARKULAR® SPIN wirelessly, please set machine to wireless ON status and match machine with remote controller. For DMX cable control please execute below operations (f to h).

- Connect a DMX cable to the DMX IN socket of first unit of SPARKULAR® SPIN, connect the male connector end of DMX cable to your DMX controller (FXcommander, HOST CONTROLLER, light console etc).
- Connect a DMX cable to the DMX OUT of previous machine, and the other end of to the DMX IN of next machine. Connect all devices in series in this way.
- Suggest to plug in a DMX terminator into the DMX OUT in last unit of machine to improve signal reliability. Signal amplifier is required for long distance (>200m) DMX signal transmission.

Activate SPARKULAR® SPIN by swipe RFID card

- Swipe an RFID card. Read the card as show below. SPARKULAR® SPIN LCD screen will flash once if charged successfully.
- SPARKULAR® SPIN will report E4 when remaining time is less than 10 minutes.
- Please note each RFID card come with 200g package HC8600 can increase single machine 20min working time, the maximum recharge time each time for SPARKULAR® SPIN is 30min, when time remain reached 30min, it can't recharge anymore RFID card.



Programming and Firing

- Programming SPARKULAR® SPIN, set the firing height, firing sequences etc.
- Heating up, it takes around 5min, it varies according to the voltage and environment temperature.
- Make sure the prescribed safety zone is clear.
- Suggest to clear material before firing.
- Firing. In order to prevent overheat in the heating chamber and protect machine, the maximum continuous firing time for SPARKULAR® SPIN is 30s.
- The operator should always have a clear view of the device, so that he/she can stop the show immediately when there is danger.
- Clear material for SPARKULAR® SPIN for 5s after show, clear material will remove the remaining particles from heating chamber.

Turn off and Clean up

- Power off SPARKULAR® SPIN, allow SPARKULAR® SPIN to cool down.
- Disconnect all POWER and DMX cables.
- Empty the remaining HC8600 in hopper, and store the remaining HC8600 in a dry sealed bottle for next time use. Never touch the output nozzle of SPARKULAR® SPIN when empty the hopper. DANGER OF GET BURNT!
- Operators can use handheld vacuum cleaner to empty the feeding hopper. Do make sure the machine was cool down when clean it. Do NOT use high-power vacuum cleaners to avoid hot consumables being sucked into the vacuum cleaner from the heating chamber and cause fire.
- Clean the surroundings to remove powder residues.

Wireless Control Information

1. Wireless remote control mode

Wireless Control ON

When use wireless remote control, please unplug DMX cable connection on machine, set Wireless Control at ON status, match the remote controller with machine.

2. Remote controller

- A: OFF / SET, Firing OFF, SET means match machine with remote controller.
- B: High Effect
- C: Low Effect
- D: Clear Material.



NOTE

- In order to prevent the same area from being serialized by other same remote controllers, the communication code can be set manually. This remote controller has 5 kinds of communication codes related to 5 different colors: red, green, blue, yellow, white. Press and hold the key A for 3s, LED flashes, release the key, and then press the A key to switch the flashing light color to adjust the communication code, and press the B key to confirm and save. After modifying the communication code, perform the code matching operation again.
- When the indicator light becomes weak on the remote controller, please replace the battery.
- When the machine is occasionally not working, may be caused by interference, please

press the start button again.

- Wireless control is easily influenced by interference, suggests to stay as close to machine as possible when use remote controller, and machines cannot use metal shielding

Maintenance

1. Empty the feeding hopper before shipment of machine.
2. Empty the feeding hopper if long time not use, for high humidity environment we suggest to empty feeding hopper after each show.
3. Clear material both before and after the show.

Warranty Instructions

- Sincere thanks for your choosing our products, you will receive quality service from us
- The product warranty period is one year. If there are any quality problems within 7 days after shipping out from our factory, we can exchange a brand new same model machine for you
- We will offer free of charge maintenance service for machines which with hardware malfunction (except for the instrument damage caused by human factors) in warranty period. Please don't repair machine without factory permission

Below situations NOT included in warranty service

- Damage caused by use other type of consumable which is not originally from SHOWVEN® .
- Damage caused by improper transportation, usage, management, and maintenance, or damage caused by human factors;
- Disassemble, modify or repair products without permission;
- Damage caused by external reasons (lightning strike, power supply etc.)
- Damage caused by improper installation or use;
- For product damage not included in warranty range, we can provide paid service.
- Invoice is necessary when applying for maintenance service from SHOWVEN® .



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FAQ

Q: How should I adjust the fountain height?

A: Use the manual firing height setup in the Setting Menu to adjust the fountain height for testing purposes.

Documents / Resources

  <small>Showven Technologies Co., Ltd.</small>	SHOWVEN 20250616 1000W Rotating Cold Spark Effect Machine [pdf] User Manual 20250616, 20250616 1000W Rotating Cold Spark Effect Machine, 1000W Rotating Cold Spark Effect Machine, Rotating Cold Spark Effect Machine, Cold Spark Effect Machine, Effect Machine
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References

- [User Manual](#)

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💡 1000W Rotating Cold Spark Effect Machine, 20250616, 20250616 1000W Rotating Cold Spark Effect Machine, Cold Spark Effect Machine, Effect Machine, Rotating Cold Spark Effect Machine, Showven

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