



SPINE®
CONCEPTS

BUR SYSTEM

USER MANUAL



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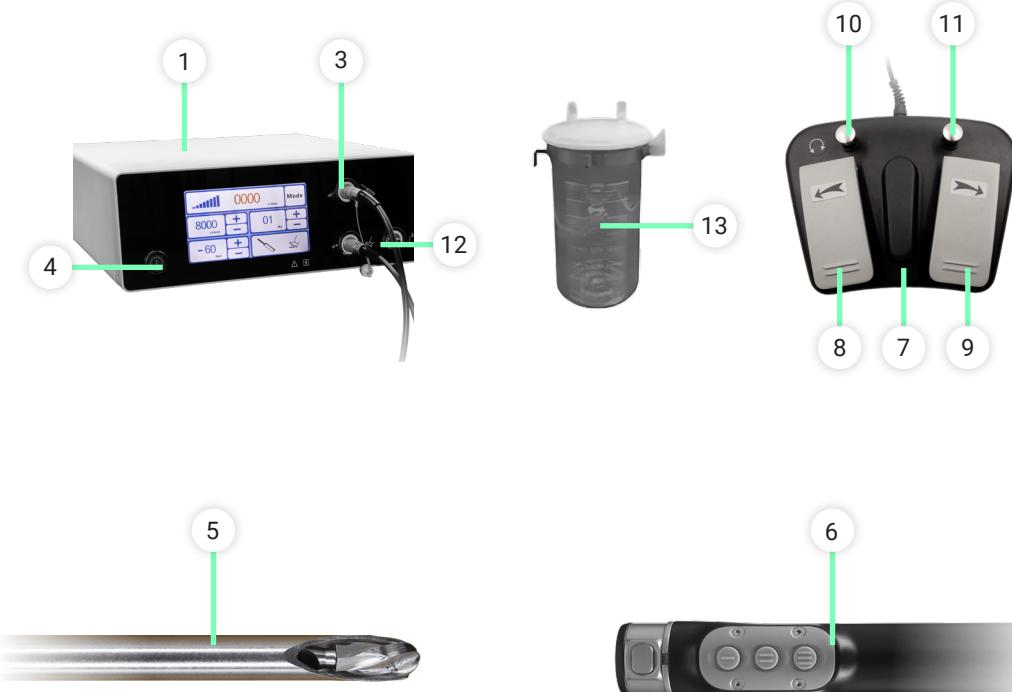
Applicable scope 1

The SHAVER SYSTEM is applicable for surgical tissue cutting.

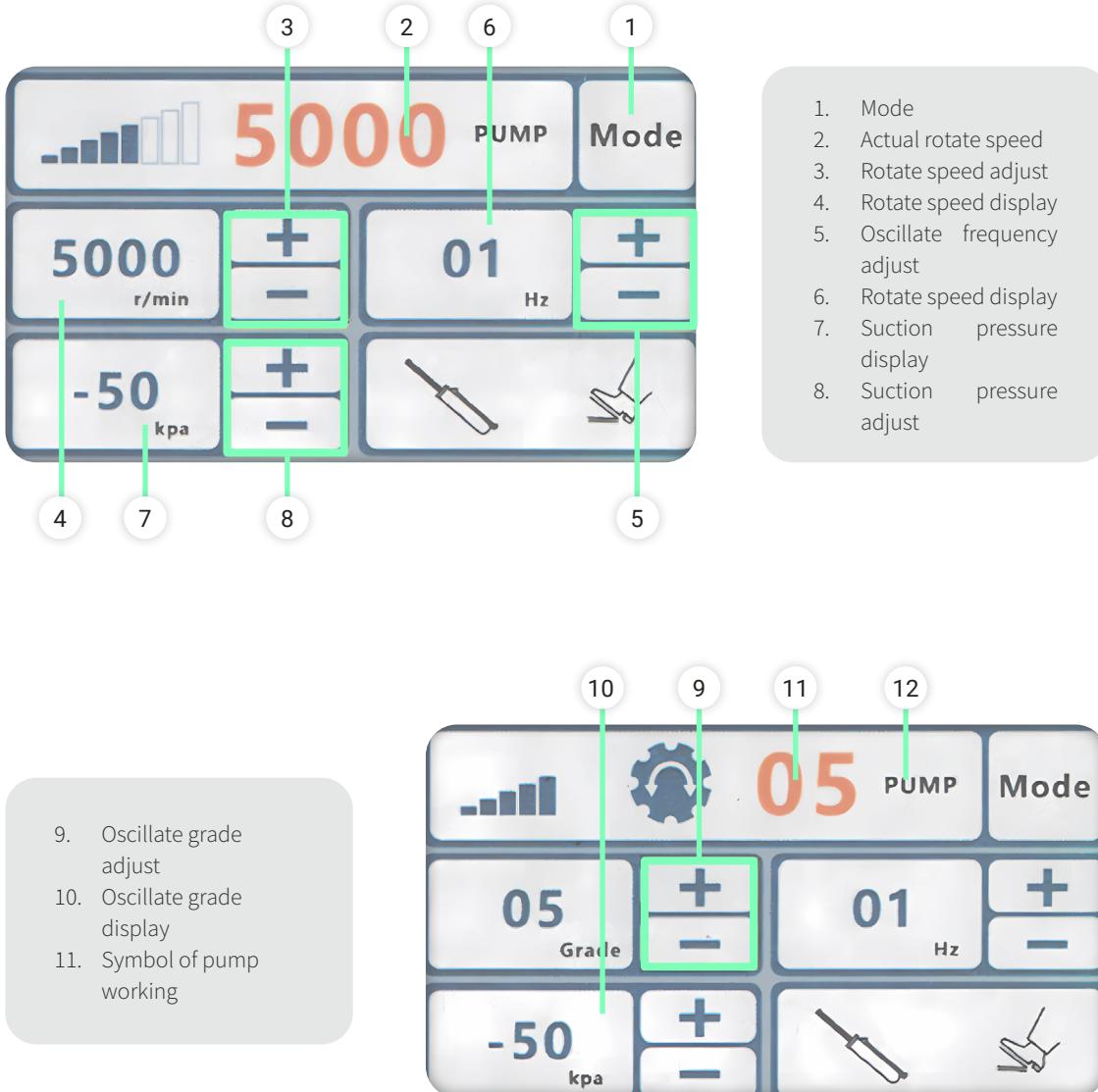
Structure composition 2

- 1. Main Host
- 2. Foot switch connection nozzle
- 3. Handle connection nozzle
- 4. Power switch
- 5. Blade
- 6. Handle piece
- 7. Foot switch
- 8. Left rotate
- 9. Right rotate

- 10. Oscillation mode
- 11. Suction button
- 12. Suction tube nozzle
- 13. Bottle: "OUT" nozzle on the bottle cap connect to 12 by tube, "IN" nozzle on the bottle cap connect to handle suction nozzle by tube.



Screen



Technical parameter 3

- Electrical parameter
Voltage: ~ 220V 50Hz
Power: ≤ 30VA
Fuse: FIAL250V φ 5×20
Mode: continuous operation working torque
- Maximum torque ≥ 15mN.m. Minimum torque ≥ 5mN.m
- Surface roughness Ra ≤ 1.8um
- Noises ≤ 60dB (A)

Usage 4

1. Connect the device
 - 1.2. Install the tool rotate the pin lock cap to the position of setpoint 1, and then the protruding part of the tool to be used on both sides of the handle head notch part, and then insert the tool to the end, and then rotate the lock cap of the pin to the position of setpoint 2, so that the tool is installed.
 - 1.3. Plug the phone into the handle socket on the controller panel. Aim the red point of the plug and socket, pinch the back of the plug and gently push it in. When pulling just pinch the outer ring of the plug and pull out gently.
 - 1.4. Insert the pedal controller connector into the pedal socket on the controller panel.
 - 1.5. Insert and pull out method is the same as above.
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2. No-load test
 - 2.1. Turn on the power switch, turn on the power supply of the instrument, and the instrument is in the preheating state.
 - 2.2. The no-load test is carried out as follows:
 - a. Press the speed setting button on the touch screen successively by hand. You can see the different set points in turn.
 - b. Reverse the pedal with the foot switch. Observe whether the tool head rotates counterclockwise. Change to positive pedal again. Observe whether the tool head rotates clockwise. The observation is consistent with the test method inversion.
 - c. Step on the reciprocating switch and make it connected. The reciprocating symbol is displayed on the touch screen. Step forward, reverse any pedal, should observe the knife head is positive, negative or reverse, positive reciprocating rotation.
 - d. In reciprocating mode, press the frequency adjustment button to set the length of reciprocating time.

Product operating conditions 5

1. Power supply: ~220V 50Hz
2. Environmental conditions
3. Ambient temperature range: 10°C ~ 40°C;
4. Relative humidity range: ≤ 80%;
5. Atmospheric pressure range: 760hPa ~ 1060hPa.

Contraindication 6

- Patients with severe systemic disease, hemorrhagic disease and uncontrolled diabetics.
- The elderly, the weak, infants, pregnant women, people with mental disorders and patients with acute upper respiratory tract infection should be carefully used.

Maintenance 7

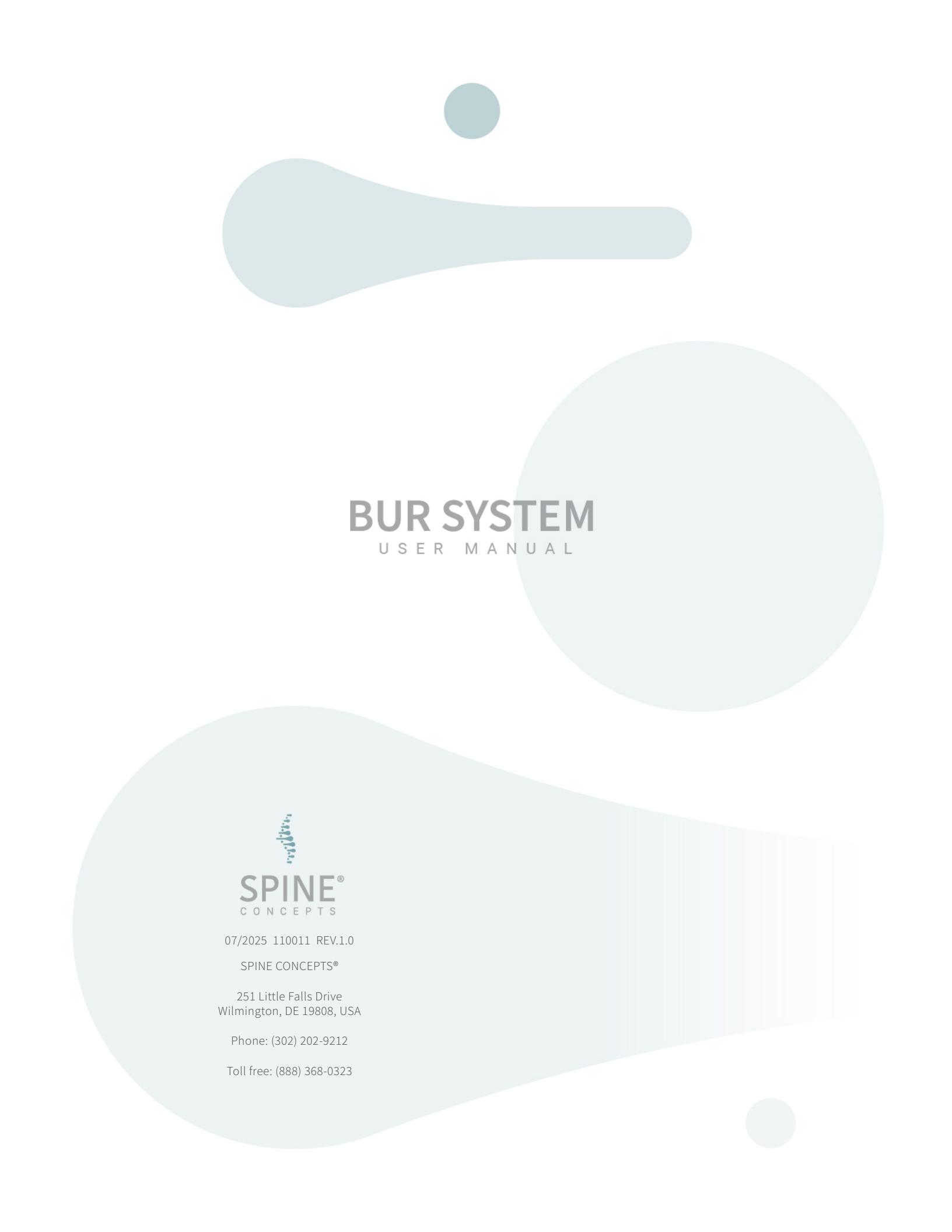
1. Cleaning
 - Pull the plug before cleaning
 - The user can use cleanser or disinfectant that does not damage the surface coating, avoid the use of flammable and explosive preparations. If such preparations must be used, the equipment should be unlocked only after it has been completely evaporated, and ensure that no detergent is inside the device, such cleaning should be done at least twice a month.
2. Periodical inspection
 - The equipment must be tested by authorized service technicians at least once a year.
3. Electromagnetic compatibility
 - Avoid electromagnetic interference with other medical devices when the equipment working
4. EMC
 - This equipment should be used to avoid electromagnetic interference with other medical electronic equipment.

Cleaning and disinfection steps and high pressure steam disinfection precautions

1. Rinse the tool thoroughly with water without salt (pure water or distilled water).
2. After washing, the tool is immediately dried with a compressed air nozzle or thoroughly dried with a cotton cloth or paper towel with good water absorption (do not use cotton cloth or paper towel with lint or easy to remove fiber).
3. Place the washed and dried tool in a sterilizing tray or a perforated bottom sterilizing tray for disinfection.
4. Disinfection methods can be E(ethylene oxide) sterilization, drilling 60 rays, dry heat disinfection (not more than 180°C). EO sterilization is recommended as the first choice.
5. Place the cleaned cutting tool in the sterilizer with a foil (vertical position of the tool is best, so that the contaminants attached to the tool can flow into the bottom with water vapor during heating).
6. The circular structure sterilizer should be used, and the water or steam added should not contain pollutants, otherwise the oil stains, salt, dust, metal debris contained in the water can lead to the tool black, flower, lose luster. In addition, the tool that is not fully cleaned, too high disinfection temperature can also lead to the tool black, flower, lose luster. This phenomenon is not rust corrosion, the tool can still be used, pay attention to the above links when disinfecting again, and clean the surface stains with a steel wire brush, can prolong the service life of the tool.
7. Special attention, in order to prolong the service life of the tool, the blood and tissue fluid retained on the tool head should be cleaned immediately after the operation (before it dries).
8. Flame burning disinfection is prohibited (damage the hardness of knife head).
9. Hydrogen peroxide, chlorine-containing cleaning agent and disinfectant, iodine, potassium permanganate solution and other disinfectants containing salt or oxidation or corrosion are prohibited to wipe or soak, in order to avoid chemical corrosion.

Transportation and storage 8

- Protection against vibration, vibration and dampness during transportation
- The environment temperature is -40 °C to 55 °C.
- Static relative humidity: 10% ~ 90% (non-condensing);
- Atmospheric pressure: 760 ha ~ 1060hPa;
- Lends itself to no corrosive gases and good ventilation.



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