

# Dry Ice Blaster (Block type)

## Feature

1. Suitable for cleaning parts with complex area
2. There are a variety of nozzles that can be replaced according to actual needs
3. The use of air vibration mechanical vibration design, the lowest noise. Avoid ice particles;
4. Adopt small size, easy to move in narrow channel;
5. High-power gun lights to ensure a clear view during operation
6. The self-developed high-precision core device has a longer service life than other brands of dry ice machines.
7. Bracket equipped with gun, nozzle and spray tube.



# Application

1. Moulds: Grinding heads for spray velvet cloth moulds, tire moulds, polyurethane moulds, rubber moulds, alloy die-casting moulds, etc. Decontamination is fast and time-saving
2. Food industry: biscuit ovens, conveyor belts, egg cake molds, etc.; low-temperature dry-type decontamination eliminates the chance of bacterial growth.
3. Electronic motors; circuit boards, motors, generators, etc.; dry-type decontamination, will not cause short circuit, leakage.
4. Ship: clean the hull, water inlet valve and condenser; it is cleaner than the general cleaning with high pressure water jet.
5. Automobile: dry cleaning door skins, roofs, no water stains in the compartment, and removing oil stains on the bottom of the engine will not cause water pollution
6. Aircraft industry: Degrease the jet engine, gearbox, and landing gear, and work directly on the fuselage, saving time
7. Power plant: When cleaning the turbine blades, there is no need to remove the blades, eliminating the need to readjust the kinetic energy balance of the blades.
8. Clean up the fire site after the fire: the removal effect of toxic waste, scorch smell, etc. is significant, and the amount of pollutants will not be increased
9. There are other industries such as printing industry, petrochemical industry, etc.

# Equipment dimensions and theory

Technical drawing showing dimensions and views of the equipment:

- Front view: Total width 485, height 550, bottom width 420.
- Top view: Total width 510, height 550.
- Isometric view: Shows the 3D structure of the equipment.
- Technical requirements (技术要求):
  - 1、周边倒角C 0.5
  - 2、图中所有未注公差为 $\pm 0.02$
  - 3、材料必须调质，加工后产品平行度不得大于0.2mm
  - 4、保证四周加工表面平整，去毛刺。
- Surface finish symbol: 其余 6.3 表面光洁度

姓名	年、月、日	张	材料	作数
设计		1		
审核		1		
批准		1		
外发		1		

# Specifications

1. Power supply: 220VAC, 60HZ
2. Air source equipment: 0.5-0.8Mpa
3. Dry ice capacity: 5kg
4. Adjustable speed of dry ice flow: 5 ~ 30kg/h
5. Air consumption: 3-5m<sup>3</sup>/min
6. Maximum injection pressure: 8bar
7. Equipment weight: 40kg
8. Dimensions (L×W×H): 700mm×400mm×800mm



# Cases display



- Mold cleaning



- Treatment of various casting burrs



- Treatment of various equipment refurbishment

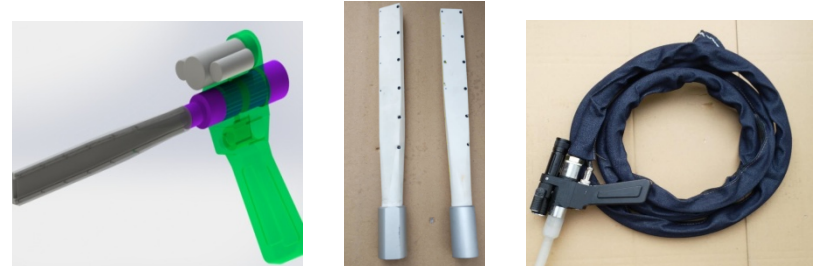


# Operating Instructions

- 1 Turn on the main power
- 2 Turn on the air supply and check the air pressure
- 3 Add dry ice



4. Aim the spray gun at the object to be cleaned



- 5 Adjusted 3 parts appropriately
  - 1) Total air pressure adjustment
  - 2) Air flow adjustment
  - 3) Ice output adjustment
- 6 Remove the dry ice, turn off the air and turn off the power after finish using



## Equipment parameters and configuration

Brand	MARUI	Model	MR-ZKTP-800
Equipment Dimension	600*900*1340		
Gross weight	55KG	Particle Dimension	150*150*250
Maximum air pressure	8KG	Motor brand	JSCC
Maximum ice consumption	30KG/Hour	Electrical brand	OMRON
Equipment operating power	0.2KW	Inverter brand	JSCC
Utility	Decontamination of various parts	Power supply	Single Phase 220V

# Dry ice characteristics and precautions for use

- Dry ice is solid carbon dioxide. It is obtained by condensing carbon dioxide into a colorless liquid at a pressure of 6250.5498 kPa and then quickly solidifying it at low pressure.
- Molecular weight: 44.01
- Solubility with water is 1:1
- Density (solid state): 1560kg/m<sup>3</sup> (-78°C)
- Boiling point: -57°C
- Melting point: -78.5°C
- Triple point -56.6°C 5.17\*10<sup>5</sup> Pascal
- Critical point 31°C 7.37\*10<sup>6</sup> Pascal
- Colorless and odorless gas.
- Dissolved in water (1:1 volume ratio), partly generates carbonic acid.
- Liquid to gas ratio 8.726SCF (gas)/LB (liquid -17.8°C, pressure 21kg/cm)
- Liquid to solid ratio 0.46 (-17.8°C) 0.57 (-48°C)
- Remember to be careful every time you touch dry ice and use thick cotton gloves or other coverings to touch the dry ice! If it directly touches the skin for a long time, it may cause the cells to freeze and cause injuries similar to minor or extremely severe frostbite. Dry ice cannot be used in more sealed places such as cars and cabins, because the sublimated carbon dioxide will be denser than oxygen, so it will squeeze the oxygen away and may cause shortness of breath or suffocation!
- Don't let children touch dry ice alone! !
- The temperature of dry ice is extremely low, please do not put it in your mouth to prevent frostbite! !
- Always use thick cotton gloves, clips and other coverings when handling dry ice (plastic gloves have no barrier effect!!)
- Please use dry ice in a well-ventilated place, and avoid being in a confined space with dry ice! !
- Dry ice cannot be mixed with liquid