

## Summary:

IP5X IP6X Sand Dust Testing Machine is designed according to GB4706, GB2423, GB7000.1, IEC60529, ect standards and meet the IP5 and IP6 dust test requirements. It is maily used for testing control cabinet, household appliances, low voltage electric appliance, automobile, lamps and lanterns, motorcycle parts, ect outer shells. Test chamber pressure can be constant and changed, suitable for indoor low concentration dust pollution test, assessment sample in this environment of sealing and corrosion degree.



## Features:

1. The main controller LCD touch screen, can do programmable test
2. PLC complex man-machine interface control, contrived moving time, rest time and power-on time setting.
3. multiple sets of test procedures can be planned in the interface, and each group can be arbitrarily set the desired action, easy to operate.
4. If a fault occurs in the operation of various signals are written records will be displayed to facilitate maintenance.
5. Touch the setting, digital direct display, all the conditions fully automatic locking by a microcomputer.
6. imported electronic temperature and humidity sensor, not need to cleanup.

## Test Methods:

By testing the installation and application of general equipment, add some protection nets or add sand dust measures to improve the resistance and protection ability of the products to dust. The device can effectively help the user to evaluate samples of sand dust resistance, against possible obstruction opening, seeping into the crack, crack, bearing and the ability of the influence of the dust in the joint, and also because the edge is not sharp big sand influences or blocking effect, and the wear performance, efficiency, reliability and maintainability.

## Standards:

IEC-529, GB4208-93, GB2423.37-89 and GJB150.12 etc.

## Specifications:

|                                      |                                                                 |
|--------------------------------------|-----------------------------------------------------------------|
| Test chamber dimension               | 800*800*800mm (800*1000*1000, 1000*1000*1000 ,1000*1500*1000mm) |
| Outer dimension                      | according to inner structure                                    |
| Metal mesh diameter                  | 50um                                                            |
| Space between lines                  | 75um                                                            |
| Environment temperature and humidity | 25~40°C, 45~75%RH                                               |
| Dust(talcum powder) concentration    | 2~4kg/m <sup>3</sup>                                            |
| Test time                            | Dust test time set freely, 0~999.9hr                            |
| Test dust                            | Dry talcum powder or port land cement                           |
| Dust concentration                   | 2Kg/m <sup>3</sup>                                              |
| Airflow velocity                     | ≤2m/s                                                           |
| Door                                 | Tempered glass door                                             |
| Power supply                         | 380V±10% 50HZ                                                   |

|                   |                                                                                                                                                                                               |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Controller        | <b>PLC Touch Screen controller</b> , programmable to set as below cycle:<br>a. Blowing dust time (Stop/Blow) h/m/s<br>b. Cycle time: can be adjusted<br>c. Pre-set test time: 0s ~ 999h99m99s |
| Vacuum system     | Pressure regulating valve, suction nozzle, pressure regulating three-piece set, connecting pipe, vacuum pump                                                                                  |
| Circulating fan   | Closed alloy low noise type motor. Multi - blade centrifugal fan                                                                                                                              |
| Safety Protection | Meter over-temperature function, Phase shortage protection, Power short-circuit protection, Overheat protection etc.                                                                          |