

Rain Chamber & Dust Chamber

Quality through Innovative Measurement and Test Engineering

Since inception in 1907, Jost's has been the pioneer in bringing new technologies and engineering solutions to Indian industries. Based on this rich experience and its constant endeavors to bring new technologies to India, we are glad to inform you that we now represent ITS GmbH and are pleased to introduce their product range to the Indian market.

ITS GmbH has established itself with systems for IP protection rating testing and individual special testing equipment. With decades of experience in widely differing test applications, their interdisciplinary team of engineers has established future-oriented know-how. In this context, their services range from manual testing devices for laboratory operation to fully automatic testing systems in production.

ITS GmbH provides innovative measurement and test systems for the simulation of Dust and splashing water. These tests play an important role in the quality assurance of a product. ITS GmbH testing systems comprises of:

SK Dust Chambers :



SK 1000 dust chamber

Special features of the SK series

- ◆ Heavy duty version
- ◆ Extendable test grate
- ◆ Dust dispensing
- ◆ Data recording (test protocol)
- ◆ Individual testing room dimension

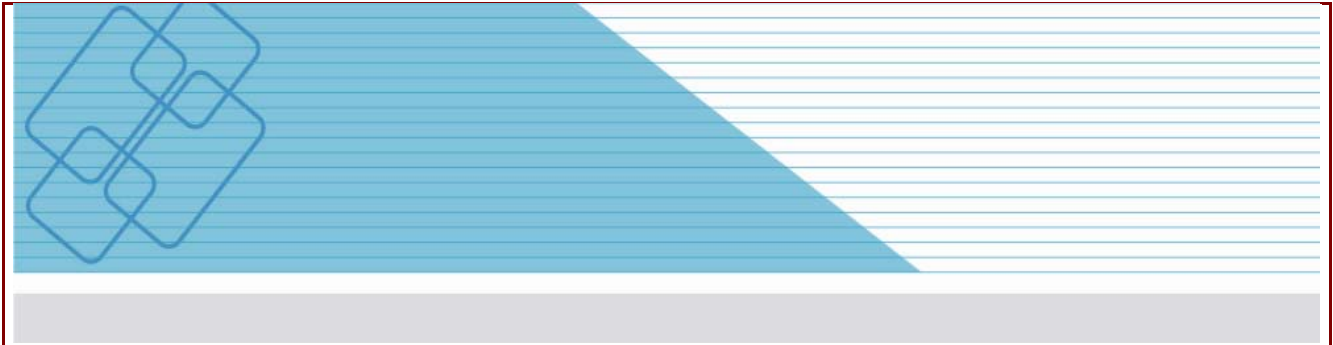
Overview of IP protection rating for Dust test

■ **IP5X**

Test : "Dust protected"
Dust Chamber
Test Specifications :
2kg/m³
Test Duration : 8hrs.

■ **IP 6X**

Test : "Dust tight"
Dust Chamber with low pressure
equipment
Test Specifications : 2kg/m³
Test Duration : 2 hrs/max of 8hrs.
Low pressure on the test piece:
20mbar



SK series dust chambers from ITS enable the testing of IP protection ratings IP5X and IP6X pursuant to all conventional standards. ITS dust chambers are suitable for the use of all conventional types of testing dust, such as:

- ◆ Arizona dust
- ◆ China dust

- ◆ Talcum powder
- ◆ Portland cement

The dust chambers are operated via an intuitively operational touch panel. Parameter sets, which can be started immediately, are defined in the ITS controller for all conventional IP protection rating tests. Custom test routines may be performed as well.

SPK Splashing Water Chambers:



SPK R400 series water chamber

Special features of the SPK series:

- ◆ Data Recording (Test Protocol)
- ◆ Tests pursuant to JIS and NEMA/UL
- ◆ Tests pursuant to automobile factory standards.
- ◆ Individual testing room dimension
- ◆ Space solutions

SPK series splashing water chambers from ITS enable the testing of IP protection ratings IPX1-IPX9K pursuant to all conventional standards. The basis component of this testing system is the water-tight cabin with the rotary plate for mounting the test piece as well as the equipment for the tests pursuant to IPX3 and IPX4.





With the SPK splashing water chamber, all tests can be performed fully automatically. In the process, the iTS controller with touch panel allows for ease of use. Parameter sets are stored in the iTS controller for all standard IP protection rating tests. In the case of non-standard tests, the operator can parameterize, store, and subsequently test individual test routines at any time.

The automatic recording of test data and the automatic creation of a test protocol after completion of a test provide for comfortable and secure documentation of the test.

Overview of IP protection rating for Water test :

IP X1/X2

Simulates, e.g. the use in light rain falling



- Drip nozzles with quick-release fastener
- Adjustable droplet quantity via a flow meter
- Dripping devices are also available as an individual solution DD.

IP X3/X4

Simulates, e.g. the use during a strong rainstorm.

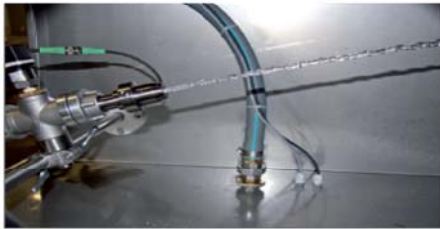


- Fine adjustment of the direction of the nozzle stream via a ball joint.
- Freely adjustable pivoting angle via the iTS controller.
- The pivoting elbow can be easily cleaned. Cleaning with compressed air is possible after the end of the test.
- Respectively differing sizes of pivoting elbows can be used in the splashing water chambers of the SPK series.



IP X5/X6

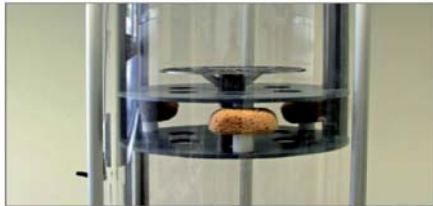
Simulates, e.g. cleaning with a jet of water – soft or powerful jet



- Rapid adjustment of the nozzle in the tunnel
- Automatic test start following entry of the water quantity in the ITS controller
- The test piece is located on the rotary plate in the splashing water chamber.
- This test is conducted depending on the test requirement with the attachable tunnel and the various jet nozzles.

IP X7/X8

Simulates brief immersion or continual submersion.



- Continuous observation of the test piece is possible.
- A cable control simplifies the immersion and emergence of the test piece
- Specifically designed weights compensate the buoyancy of the test piece
- Immersion tanks are available as an individual solution.

IP X9K

Simulates, e.g. cleaning with a pressure washer.



- 4 fixed lances or 1 pivoting lance can be optionally integrated in the SPK.
- Smart hot water supply enables fully continuous operation
- 4 fixed lances: individual switching of the nozzles via the ITS controller enables precise testing
- 1 pivoting lance: the test piece is impinged with water from any desired direction.



Since 1907

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