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MABOUT US

iTS GmbH is an innovative family business in its second generation. We are specialised in the development and manufacture of systems for environmental simulation and IP testing. Our iTS systems are used to test products all over the world - wherever dust and water resistance are essential

You benefit from our flexible modular system, which enables us to customise test equipment precisely to your specific requirements. Whether individual devices such as swivelling tubes for IPX3/4 tests or complex chamber and room solutions - we supply the right solution for every test challenge:

- ✓ Planning and production of new systems
- ✓ Maintenance and calibration of iTS test systems
- ✓ Expansions and retrofits of existing test systems

We are continuously developing our test systems - a constant process to offer you the best: Optimised processes, simple operation and automatic documentation.

Since 2021, we have been producing in a state-of-the-art building complex. This investment underlines our commitment to quality and innovation. The first-class equipment in our production facility allows us to optimally support our employees while achieving outstanding results for our customers.

At iTS, we combine family tradition with technological excellence. We are your partner in environmental simulation and IP testing.





DUST TEST CHAMBER SK

Dust-protected and dust-tight are the most important classifications to ensure that your products also perform perfectly under real conditions after an environmental simulation. iTS dust chambers from the SK series are used worldwide for these IP tests or other dust-tightness tests.

Our SK dust test chambers provide reproducible and reliable test results. We achieve this through optimally harmonised mechanics, sensors and control technology. Sensors with optional calibration - iTS factory calibration or by a DAkkS partner - including the corresponding certificates also support your quality management.

The dust test chamber SK can be operated from a userfriendly interface on the touch panel. You can either start preset standard tests automatically or realise tests according to your own specifications. The easy-to-understand iTS Companion app records and documents all relevant data. You can also customise the test report according to your requirements.

Our base SK series starting with the SK 500 for small test specimens to the flexible SK 2000 right to the walk-in XL chamber, which can be customised to your specific space and test situation.

The innovative SK series from iTS is available in 4 basic sizes:

SK Series	Test room size W x D x H [mm]
SK 500	500 x 500 x 1000
SK 1000	1000 x 1000 x 1000
SK 2000	2000 x 1000 x 1000
SK XL	2600 x 2250 x 2000





FUNCTIONS

- ✓ Dust circulation via fan
- ✓ Return transport of the test dust to the fan using pneumatic knockers or sliders (for SK XL)
- ✓ Fully automatic vacuum device incl. electronic vacuum and flow measurement
- ✓ Integration of up to 4 vacuum devices possible
- ✓ Dust chamber easy to position in the room on castors

SENSOR CALIBRATION

- ✓ Factory or DAkkS calibration incl. certificate for sensors
- √ Sensor adjustment to optimum operating point

CONTROL PANEL

- √ 7" touch panel for easy operation via PLC control
- ✓ Manual and automatic mode and display of all values during the test
- ✓ Data recording and evaluation via iTS Companion App

SK 500 / SK 1000

- ✓ Compact test systems for dust tests of small test specimens
- ✓ Efficient operation with a small footprint
- ✓ Test specimen weight: up to 50 / 100 kg

SK 2000

- ✓ Transverse or longitudinal chamber design (SK 2000 Q / SK 2000 L)
- ✓ SK 2000 D as double chamber (2x test chamber with 1000 x 1000 x 1000 mm each)
- ✓ SK 2000 QD with removable partition wall:

 Use as a double chamber but also as a large single chamber
- ✓ Test specimen weight: up to 100 kg

SKXL

- ✓ Fixed chamber installation on site
- ✓ Chamber depth can be extended in the size grid
 (750 mm)
- ✓ For very large test specimens such as battery packs for electric vehicles (EVs)
- ✓ Test specimen weight: up to 800 kg









The iTS water test chambers of the SPK series are used for IP tests and other tests that check your products for water ingress protection. From dripping water, spray water, splash water and jet water as well as hot high-pressure water: everything is possible in ONE water test chamber SPK from iTS.

With our flexible module system, you can configure the water test chamber SPK to suit your individual requirements. And you can upgrade it at any time if your testing demands increase.

The basis is a high-quality stainless-steel chamber. The large test chamber door allows user-friendly access to your DUT, which are positioned on the integrated turntable. Pumps, sensors, pipework and control technology are cleverly installed. Depending on the expansion stage, additional modules are required, such as the tunnel with water jets for IP X5/6/6K tests.

The SPK is operated comfortably via a large touch panel. Via an intuitive user interface, you can control the water test chamber. Stored standard tests can be started automatically or tests can be performed according to your own test settings. All data is recorded and documented with the user-friendly iTS Companion app. The test protocol can be individually configured.

The innovative SPK system is currently available in 4 different sizes. You will find suitable test equipment for larger DUT in our modular room solutions.

SPK series	Test chamber size W x D x H [mm]
SPK R200	960 x 960 x 900
SPK R400	1180 x 1180 x 1500
SPK R600	1500 x 1500 x 1500
SPK R800	2000 x 2000 x 2000











The iTS splash water chambers of the SWK series simulate situations such as driving through a puddle for the automotive industry. Intensive product tests as tough as the reality: The combination of a test chamber with a temperature of up to 160°C and the maximum 4°C cold water splash, which abruptly cools the DUT in recurring cycles, is what makes the difference. In addition, Arizona dust can be added to the splash medium to create even more authentic test conditions.

The SWK can be equipped with up to 4 standard-compliant, coolable nozzles in the test chamber. These can either be fixed in the side wall or flexibly aligned to achieve the optimum coverage of different DUT sizes. The splash water tank is located in a pull-out drawer for easy access. Cooling is provided by an air-cooled refrigeration system to ensure

that an ice-cold splash medium is always available. The splash function is realised by a controlled water pump, which ensures precise and effective water distribution.

The large 15" touch panel on the SWK allows you to set up the tests intuitively and monitor the test process. Together with the iTS Companion app, data is reliably recorded and documented.

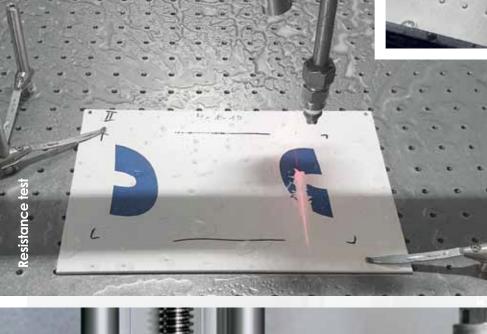
The SWK series is available in the following sizes:

Splash Water Chamber	Test chamber size W x D x H [mm]
SWK 100-100-75	1000 x 1000 x 750
SWK 125-100-75	1250 x 1000 x 750
SWK 125-125-125	1250 x 1250 x 1250
SWK 200-150-100	2000 x 1500 x 1000
SWK XL	3000 x 3600 x 2000















STEAM JET TESTER DWT

The iTS steam jet testers of the DWT series are used for testing the coating quality of test specimens or small test pieces using a defined pressurised water jet. The test lance with the flat jet nozzle is aligned by a line laser. From the measured flat jet nozzle, water at a temperature of up to 85°C and a maximum pressure of 120 bar is applied to the scribed sample.

After preparing the sample, you intuitively set up the tests with the DWT using the large touch panel. All test values and parameters are displayed while running the test. With the iTS Companion App, the data is recorded, analysed and then documented as you wish.

With the DWT, tests can be carried out in ac-

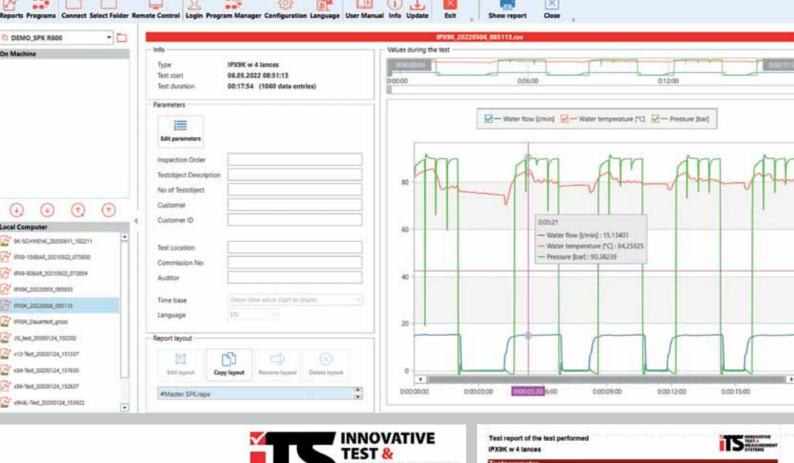
cordance with international standards as well as specifications from the automotive industry. Many standards are already stored in the control system. It is also easy to add your own test specifications.

The quality of coatings is a key factor in the automotive industry. They not only protect the surfaces, but also the functions of the components. An attractive and durable appearance is just as important. For this reason, pressurised water jet testing is an essential part of quality assurance.

The DWT series is available in 2 test chamber sizes:

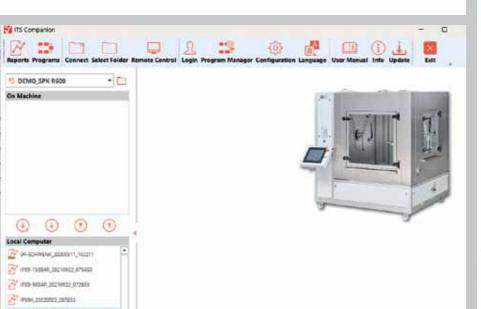
Steam Jet Tester DWT	Test Chamber Size W x D x H [mm]
DWT 500	900 x 900 x 1000
DWT 1000	1180 x 1180 x 1500





ITS Companion





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ITS COMPANION APP

The iTS Companion App is more than the reliable control system with the stored test programs and many configuration settings for iTS test systems. The Companion App offers a powerful solution for analysing and documenting test data that can be easily integrated into your quality management system.

The Companion App allows you to record and analyse all relevant testing data. This includes zooming into the graphical evaluation, highlighting areas and complete recording of the testing process.

The Companion App is the key to transparent and effective quality management, which is essential for

audits and certifications. And for a sustainable improvement in your product quality.

The iTS Companion App is available in 3 versions - available for all iTS systems:

	iTS Companion App	Functions
	Basic	Analysis & automatic test report via CSV data
	Pro	Ethernet interface for integration into the customer network
		Remote connection via VNC for monitoring and control
	Pro Plus	Customisation of protocols via editor



