

STEAM JET TESTER DWT



FULFILLED STANDARDS AND REGULATIONS –DWT SERIES

The iTS steam jet tester from the DWT series enable standard-compliant testing of the resistance of coatings to pressure water-jetting. Depending on the test component or standard, options may be required. Further test specifications according to OEM specifications can be integrated (e.g. TPJLR Jaguar / Land Rover).

Standards and regulations	Included	Optional	Option
DIN EN ISO 16925:2014	X		
DBL 5416	X		
BMW AA-0136 (comply with DIN EN ISO 16925)	X		
Scania STD4234		X	DWT.OP-010
Ford FLTM BO 160-04		X	DWT.OP-020
VW PV 1503	X	X	DWT.OP-303 DWT.OP-304

STANDARD SCOPE OF DELIVERY – DWT SERIES

The steam jet tester DWT is a self-contained system and can be easily positioned in the test room via castors. After connecting the system, reproducible tests can be carried out repeatedly. The necessary equipment for this is included in the test chamber.

DWT - series	DWT 500	DWT 1000
Internal test chamber W x D x H [mm]	900 x 900 x 1000	1180 x 1180 x 1500
Door cut-out W x H [mm]	795 x 790	1000 x 1000
Number of doors	1	1
Size viewing window W x H [mm]	630x 690	890 x 840
External test chamber W x D x H [mm]	1350 x 920 x 2300 D without control panel H incl. exhaust air fan	1600 x 1200 x 2400 D without control panel H incl. exhaust air fan
Test chamber lighting	Yes / LED	
Position of control panel	right	
Painting	Cladding sheets: RAL 7035 (light grey)	
Edelstahlflächen	polished surface	
Weight [kg]	500	650

GENERAL REQUIREMENTS ON SITE – DWT SERIES

Climatic conditions	DWT 500 / DWT 1000
Ambient temperature [°C]	10 - 30
Relative humidity max. [%] - non condensing	70

Electrical power supply	DWT 500 / DWT 1000
Power supply	3 x 400 Volt /50Hz N/PE
Power consumption up to [kW]	22
Installed load max. [A]	32
Electrical connection via	Direct wiring / connection via CEE plug
Ethernet (Optional)	RJ 45 socket

- **Note: If connected via a CEE socket outlet, this must be protected by a separate residual current device (RCD) of TYPE B (AC/DC sensitive).**

Compressed air supply	DWT 500 / DWT 1000
Compressed air [bar]	3-6, max. 40 l/min
Compressed air quality	ISO 8573-1:2010 [3:3:4]
Compressed air connection	Via quick-release coupling NW 7,2

- **Note: The adapter for the connection is included in the scope of delivery.**

GENERAL REQUIREMENTS ON SITE – DWT SERIES

Water supply	DWT 500 / DWT 1000
Water quality	Municipal water with a minimum conductivity of 30 µS/cm
Water filter (customer supply) micronage [µm]	100
Max. water pressure [bar]	3
Water connection	Via hose connection for hose 13 mm inside
Max. water hardness [dH]	6

- Note:** The test water for this test should not exceed a water hardness of 6°dH, as otherwise increased limescale precipitation will occur during heating. This increased limescale precipitation leads to a significantly shorter service life of the high-pressure pump and the heating rods in the hot water tank. To increase the service life of the nozzle, we recommend the use of demineralised water or a softening system (see options).

Waste water connection	DWT 500 / DWT 1000
Max. waste water temperature [°C]	70
Waste water junction	Hose connection NW 13

- Note:** The waste water is actively pumped (up to max. 1.3 m). Otherwise, the test chamber is emptied via a manual drain valve.

All connections are located on the back of the water jet tester.



DWT 500 with connections in the lower area

(here: compressed air / water supply / waste water / electricity / network)

OVERVIEW: OPTIONS - DWT SERIES

Options number	Option	Checkbox
DWT.OP-010 (11780)	Pendulum stroke for water jet (Scania STD 4234)	<input type="checkbox"/>
DWT.OP-020 (11779)	Parallel slides for the sample (Ford BO 160-04)	<input type="checkbox"/>
DWT.OP-030 (11778)	Container (20l) for calibrating according to ISO 16925	<input type="checkbox"/>
DWT.OP-040 (11781)	DAkkS calibration of sensors	<input type="checkbox"/>
DWT.OP-050 (11782)	Factory calibration of sensors	<input type="checkbox"/>
DWT.OP-060 (11783)	Measuring device for the force progression of the nozzle	<input type="checkbox"/>
DWT.OP-200 (12302)	Data recording incl. ITS Companion App – Basic	<input type="checkbox"/>
DWT.OP-210 (12301)	Ethernet interface for data storing incl. ITS Companion App - Pro	<input type="checkbox"/>
DWT.OP-212 (14685)	ITS Companion App – Pro Plus	<input type="checkbox"/>
DWT.OP-300 (14688)	Flat spray nozzle according to DIN EN 16925	<input type="checkbox"/>
DWT.OP-301 (14689)	Flat spray nozzle according to DBL 5416	<input type="checkbox"/>
DWT.OP-302 (14690)	Flat spray nozzle according to Ford BO 160-04	<input type="checkbox"/>
DWT.OP-303 (14691)	Flat spray nozzle according to VW PV 1503-A	<input type="checkbox"/>
DWT.OP-304 (14692)	Flat spray nozzle according to VW PV 1503-B/C	<input type="checkbox"/>
DWT.OP-305 (14693)	Flat spray nozzle according to Scania STD 4234-MEG	<input type="checkbox"/>
DWT.OP-306 (14694)	Flat spray nozzle according to Scania STD 4234-PMEG	<input type="checkbox"/>
DWT.OP-700 (14695)	Water softening unit	<input type="checkbox"/>

The individual options are described below.

NOTE

We reserve the right to make design and technical changes in the interests of further technical development. This applies to the entire technical description.

ITS GmbH

INNOVATIVE TEST
& MEASUREMENT SYSTEMS

Industriestraße 18
47589 Uedem / Germany

Internet: www.its-gmbh.de/
Email: info@its-gmbh.de

Tel.: +49 2825 - 30798-0
Fax: +49 2825 - 30798-20