

Hydraulic test- and pressure test unit

>HPS380S<



Developed for pressure test with Skydrol, flushing, particle counting and insufflation with compressed air for pipes of Airbus A380-sections 13 and 18/19.

Can be adapted for other aircraft types

- > Automatic test stand with predefined test sequences
- > Fully automatic control of the complex test runs and display of all necessary measuring parameters (flows, NAS Class, pressure, temperatures, electric-parameters, etc.) on the monitors
- > Use of dummy valves for the tests as replacement for the aircraft valves
- > Hydraulic supply with pressure-, flow- and temperature controlled medium (Skydrol)

GENERAL INFORMATION

- > Compressed air supply for the unit with high storage capacity
- > High versatility due to automotive ground trolley
- > Test trolley for selftest of the unit
- > Low length of lines and pipes due to a separate control trolley close to the UUT with radio transmission
- > Three filters for high exhaust air cleaning
- > 2 operation stations

TECHNICAL DATA

> Hydraulic parameters:

Hydraulic supply:

Medium: Skydrol LD4

Tank: approx. 500 liter (132.1USgal)

Radial-piston pump for high pressure circuit:

p_{max} : 500bar (7251.9psi)

Q_{max} : 10lpm (2.6USgpm)

Internal-gear pump for circulation circuit:

p_{max} : 5bar (72.5psi)

Q_{max} : 170lpm (44.9USgpm)

Two axial-piston pumps for circulation circuit:

p_{max} : 75bar (1087.8psi)

Q_{max} : each 80lpm (21.1USgpm)

Two particle counting devices for purity grade instruction according NAS

Compressed air supply:

Output pressure: 25bar (362.6psi)

Air flow: max. 4000lpm
(1056.7USgpm)

2 pressure tanks, capacity: 2000 liter
(528.3USgal)

> Measurement range:

Pressure: 0 - 100bar \pm 0,5% o.m.r.
(0 - 1450.4psi \pm 0,5% o.m.r.)
0 - 500bar \pm 0,5% o.m.r.
(0 - 7251.9psi \pm 0,5% o.m.r.)

Flow: 0 - 100lpm \pm 0,5% o.m.r.
(0 - 26.4USgpm \pm 0,5% o.m.r.)

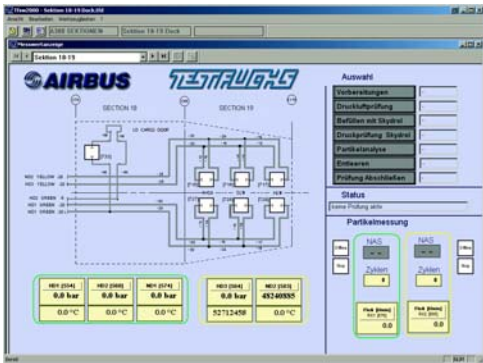
Temperature: 0 - 100°C \pm 1K
(0 - 212°F \pm 1K)

> Electrical parameters (requirements):

3/N/PE AC 50Hz 400V

Nominal current: 210A

Power: 145.5kVA



> User software:

- General survey of the test circuit
- Display of important parameters
- Choice of preassigned test sequences
- Printing of protocols



> Components of the pressure station with electrostatic-precipitator:

- Compressed air supply of the unit via on-site connection
- Humidity sensor in the inlet pipe



> Test trolley for the self test of the unit:

- Simulation of the resistance of the pipes of the aircraft sections
- Electric and pneumatic control of the dummy valves



> Control trolley and operation unit of the dummy valves:

- Enabling of the performance of test runs close to the UUT's

OPTIONS

Many options are possible for adaption, e.g. adaption to other aircraft types, different operation stations etc.

Technical data are subject to change!



TEST-FUCHS GmbH

Test-Fuchs Strasse 1-5
A-3812 Gross Siegharts
Tel. +43 (0)2847 9001-0
Fax +43 (0)2847 9001-299
office@test-fuchs.com



TEST - FUCHS

Ing. Fritz Fuchs GmbH
Albert Einstein Strasse 4
D- 85435 Erding
Tel. +49 (0)8122 89207-30
Fax +49 (0)8122 89207-37
tf-erding@test-fuchs.com



TEST - FUCHS

Ing. Fritz Fuchs GmbH
Tempowerkring 6
D- 21079 Hamburg
Tel. +49 (0)40 79012690
Fax +49 (0)40 79012695
tf-hamburg@test-fuchs.com



Test-Fuchs Ltd.

PO Box 287, Diss
IP22 4XR
Tel. +44 (0)1379 651605
Fax +44 (0)1379 651605
tf-uk@test-fuchs.com



Test-Fuchs S.r.l.

Fraz. S. Anna 57
I-14030 Rocca d'Arazzo (AT)
Tel. +39 0141 408488
tf-italy@test-fuchs.com