

## Oil Nozzles Test Stand

### >FLST5LH<



The test stand is developed to test engine and gearbox oil nozzles at various oil temperatures (up to a max. of 150°C (302°F)) at pressures varying from 0 to 10bar (0 to 145.0psi).

It is possible to adapt this test stand for engine oil and gearbox oil nozzles requiring different parameters.

- > The measurement accuracy is of the highest standard.
- > A measurement tank is provided to measure the exact weight of returned oil.
- > The test stand is operated by an easy to use touch screen. The measured data can be indicated in various units.
- > Testing is carried out automatically with predefined parameters (temperature, pressure, lead time as well as testing time for weight termination).
- > It is possible to set parameters for testing different nozzles via the touch screen.

## RANGE OF APPLICATION

Accessory Gearbox (AGB)	Inlet Gearbox (IGB)	Transfer Gearbox (TGB)	IGB Bearing and others
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## GENERAL INFORMATION

- > The test chamber exhaust air is first cleaned by an oil separator and then by an electrostatic oil vapour separator. This obviates the need for external ventilation.
- > The spacious test chamber is equipped with an extendible test bed, ventilation and lifting access door.
- > The test bed and its drain pan are so arranged as to ensure that any oil leakage is drained into the main tank.
- > The test stand is easy to maintain and made from stainless steel. Its doors enable easy access and sound insulation (max. 75dB(A)).
- > The insulated pipes are labelled to show flow and medium (hydraulic oil, refrigerant, compressed air, outflow air).

## TECHNICAL DATA

<p>&gt; <b>Electrical supply (requirements):</b></p> <p>Mains connection: 3/N/PE AC 50Hz 400V                  Nominal current: 33A                  Power: 22.9kVA                  Back-up fuse: 63A</p>	<p>&gt; <b>Hydraulic parameters:</b></p> <p><u>Medium:</u>                  Mobil Jet Oil II</p> <p><u>Supply pump:</u>                  max. 50lpm; max. 10bar                  (max. 13.2USgpm; max. 145.0psi)</p> <p><u>Return pump:</u>                  20lpm; 5bar                  (5.3USgpm; 72.5psi)</p> <p><u>Filter:</u>                  25 and 6mic</p> <p><u>Main tank:</u>                  265l (70USgal)                  Effective content: approx. 210l (55USgal)                  Stainless steel, thermically insulated                  6 heating elements (400V / 3kW)</p> <p><u>Measurement tank:</u>                  50l (13.2USgal)                  To measure the weight of returning medium                  max. 75kg (max. 165.3lb)</p>
<p>&gt; <b>Pneumatical supply (requirements):</b></p> <p>Pressure: 5 to 10bar                  (72.5 to 145.0psi)                  Volume: max. 100NI/min                  (3.5scfm)</p>	
<p>&gt; <b>Cooling water supply (requirements):</b></p> <p>Pressure: 1 to 6bar                  (14.5 to 87.0psi)                  Volume: max. 25lpm                  (max. 6.6USgpm)</p>	

## TECHNICAL DATA (Continuation)

> Measurement range:	> Dimensions and weight:
<p><u>Temperature sensor:</u> (3-off)                      Range: 0 to 150°C (32 to 302°F)                      Tolerance: ±2°C abs. (±3.6°F abs.)</p>	<p><u>Test stand:</u>                      Width: 3,000mm (9.8ft)                      Depth: 1,600mm (5.2ft)                      Height: 3,000mm (9.8ft)                      Weight: 1,850kg (4,080lb)</p>
<p><u>Pressure sensor:</u> (1-off)                      Range: 0 to 10bar (0 to 145.0psi)                      Tolerance: ±0.5% of full scale</p>	<p><u>Test chamber:</u>                      Width: 1,900mm (6.2ft)                      Depth: 900mm (3.0ft)                      Height: 900mm (3.0ft)</p>
<p><u>Flowmeter:</u> (1-off)                      Range: 0.4 to 80lpm (0.1 to 21.1USgpm)                      Tolerance: ±1% of full scale</p>	
<p><u>Weight:</u> (1-off)                      Range: 0 to 75kg (0 to 165.3lb)                      Tolerance: 0 to 1kg (0 to 2.2lb)                      ±15g abs. (±0.03lb abs.)                      1 to 75kg (2.2 to 165.3lb)                      ±1% of full scale</p>	

## OPTIONS

A wide range of options is available to fulfil our customers' requirements.  
 e.g.: Adaption for different engine and gearbox oil nozzles, etc.



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