

Hydraulic Pump-Load System

>HPLS300XWB<



Rear view with switch cabinet, operating and control units, plug panel and electrical connecting plug



Front view with tow bar, cooling water and UUT connections

The load system is developed as “Special to Project Test Equipment (SPTE)” for turbine tests of ROLLS-ROYCE.

The system simulates load on the Engine Driven Pump (EDP) during turbine tests.

It can be adapted for different engine types.

- > Supply of the EDP with hydraulic oil
- > Pressure and flow regulation in order to simulate load on the EDP
- > Regulation of the housing pressure
- > Measurement of all relevant parameters

GENERAL INFORMATION

- > Operation and control on the rear of the test device or optionally via the external control unit
- > Temperature, pressure and flow indication and potentiometers for set value parameters
- > Separate pump for comfortable tank filling and draining
- > Developed for transport by forklift (tow bar located on the front of the test device)
- > Appropriate for usage and storage outside
- > Transport by air freight possible

TECHNICAL DATA

<p>> Electrical supply (requirements):</p> <p>Mains connection: 3/PE AC 50/60Hz 400/415V Nominal current: 32A Short-circuit current: max. 1.26kA Performance: 22.2kVA</p>	<p>> Measurements:</p> <p>Pressure: 0 to 16bar (0 to 232.1psi) (2 pieces) ±0.5% of measuring range</p> <p>Pressure: 0 to 400bar (0 to 5,801.5psi) (1 piece) ±0.5% of measuring range</p> <p>Temperature: 20 to 110°C (68 to 230°F) (1 piece) ±1.5°C (2.7°F)</p> <p>Temperature: 0 to 150°C (32 to 302°F) (4 pieces) ±1.5°C (2.7°F)</p> <p>Flow: 10 to 250lpm (2.6 to 66.0USgpm) (1 piece) ±1.0% of full scale</p> <p>Flow: 10 to 50lpm (2.6 to 13.2USgpm) (1 piece) ±1.0% of full scale</p>
<p>> Cooling water supply (requirements):</p> <p>Temperature: max. 32°C (89.6°F) (supply) Flow: min. 125l/min (33.0USgpm)</p>	
<p>> Test medium:</p> <p>Type: HYJET IV-A PLUS (Skydrol of similar or higher quality) Filling amount: approx. 240l (63.4USgal)</p>	
<p>> Hydraulic parameters:</p> <p><u>High Pressure Circuit</u> Flow: max. 300l/min (79.3USgpm) Pressure: max. 345bar (5,003.8psi)</p> <p><u>Low Pressure Circuit</u> Flow: max. 300l/min (79.3USgpm) Pressure: max. 10bar (145.0psi)</p> <p><u>Case Drain</u> Flow: max. 50l/min (13.2USgpm) Pressure: max. 10bar (145.0psi)</p>	<p>> Dimensions and weight:</p> <p>Width: approx. 1,350mm (53.1in)</p> <p>Length: approx. 2,450mm (96.5in) tow bar folded up approx. 3,250mm (128.0in) tow bar folded down</p> <p>Height: approx. 1,650mm (65.0in)</p> <p>Weight: approx. 1,400kg (3,086.5lb) without test medium</p>