

Engine Driven Hydraulics Pumps Loading System

>HPLS400<



The loading system is developed for use with the AIRBUS A400M engine (TP400-D6) test stand.

It is possible to adapt this loading system for other aircraft engines.

- > The equipment supplies the engine driven pump with hydraulic oil.
- > The pump can be loaded by controlling the flow.
- > Cooling of hydraulic oil is ensured.
- > The return pressure of hydraulic oil is controlled.

MISCELLANEOUS

- > The system is operated and controlled using an external control unit.
- > The temperature is controlled by the engine test stand.
- > The test bench has an ergonomic and compact design.
- > The test bench can be transported by fork lift truck or by crane.

TECHNICAL DATA

<p>> Electrical connected loads:</p> <p><u>Power supply:</u> 3/N/PE AC 50Hz 400V Nominal current: 25A</p> <p><u>“Control unit supply”:</u> 2/DC/24V Nominal current: 1.4A</p>	<p>> Control range:</p> <p>Temperature: 0 to 100°C (32 to 212°F) (required values can be set manually or from the engine test stand)</p> <p>Flow: 10 to 250lpm (2.6 to 66USgpm) (required values can be set manually or from the engine test stand)</p>
<p>> Hydraulical parameters:</p> <p>Input pressure: max. 250bar (3,626psi) Flow: max. 250lpm (66USgpm) Main reservoir: 60l (15.9USgal) Filtration level: 3µ filter</p>	<p>> Measurement range:</p> <p>Pressure: 0 to 400bar ±0.5% (0 to 5,802psi)</p> <p>Flow: 10 to 250lpm ±1% (2.6 to 66USgpm)</p> <p>Temperature: 0 to 100°C ±1.5°C (32 to 212°F) (±2.7°F)</p>
<p>> Compressed air supply:</p> <p>Pressure: 4.5 to 10bar (65.3 to 145psi) Flow: 220lpm (58USgpm) Nominal diameter: 3/8"</p>	<p>> Dimensions and weight:</p> <p><u>“TEST BENCH <HPLS400+1>”:</u> Width: 1,970mm (6.5ft) Depth: 1,130mm (3.7ft) Height: 1,280mm (4.2ft) Weight: 830kg (1,830lb)</p> <p><u>“CONTROL UNIT <HPLS400+2>”:</u> Width: 250mm (0.8ft) Depth: 330mm (1.1ft) Height: 125mm (0.4ft) Weight: 4.8kg (10.6lb)</p>
<p>> Cooling water supply:</p> <p>Pressure: 3 to 16bar (43.5 to 232psi) Flow: 20lpm (5.3USgpm) Nominal diameter: 1 1/4"</p>	
<p>> Medium:</p> <p>SKYDROL Type IV and V</p>	

Technical data are subject to change!