



## Hydraulic Test Equipment Product Overview



**Manufacturers of hydraulic components and test equipment  
for the Mobile, Industrial and Agricultural Industries**

### Testing hydraulic systems

For anyone who has experienced a hydraulic component failure when they could least afford it, the Webtec range of test equipment holds the answer.

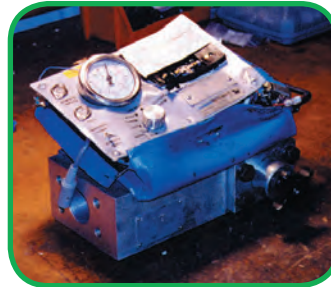
If your system is down and oil is collecting around your feet, the downtime is costing you £K's a day. You need to quickly identify which component has failed, fix it, test the system and get back to work.

A Webtec portable tester will allow you, even if you are working alone, to easily and safely simulate operating conditions using the built-in load valve to help pinpoint the fault. The illustration below demonstrates a DHCR tester being used with two flow meters and a phototach to measure flow, pressure, temperature and speed.

For safety, Webtec testers include the unique INTERPASS<sup>(R)</sup> protection system. In the event of over-pressurisation, burst discs built-in to the load valve will safely bypass oil internally through the valve and back to tank. NOT externally into the environment or onto you.

Webtec has a policy of innovation and continuous improvement that has led to the range you see here with unique features such as the bi-directional pressure balanced load valve, internal burst discs and simplified controls.

### Webtec Service Centre



#### Service required?

We specialise in re-calibration of all hydraulic test equipment, whether from the Webtec range or another manufacturer's. Our centre is equipped for electronic and mechanical repair work with flow, pressure and temperature calibration facilities.

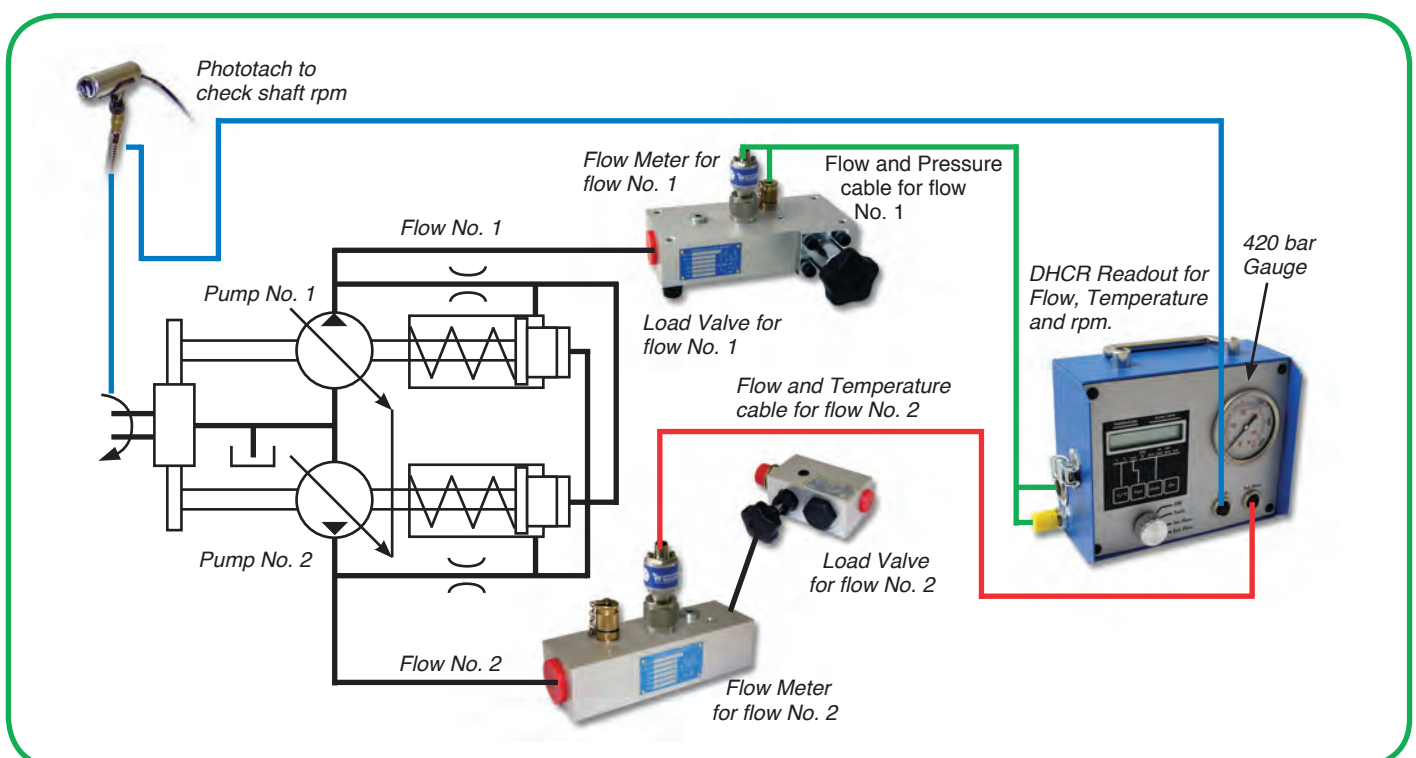
#### Quality

We operate in accordance with ISO 9001 and all of our test references are traceable to national & international standards.

As a manufacturing company Webtec Products Ltd is ideally suited to servicing and repairing both hydraulic components and test equipment.

#### Further information

Please see contact details on back page.



# Flow Condition Monitoring

## Analogue and digital flow indicators

**Accuracy:** See below  
**Pressure:** Up to 420 bar  
**Ports:** BSP / NPT  
**Applications:**  
 Hydraulic condition monitoring and test stands

**Flow:** Up to 550 lpm  
**Type:** Unidirectional/  
 Reversible

**Accuracy:** 4% FSD  
**Pressure:** Up to 420 bar  
**Ports:** BSP / SAE  
**Applications:**  
 Hydraulic condition monitoring and test stands

**Flow:** Up to 400 lpm  
**Type:** See below

### Low pressure flow indicators



WPC Series

- Ideal for tank line monitoring
- From 0.2 up to 110 lpm at 70 bar
- Available in aluminium for oil
- Low cost, accuracy 5% FS

### High pressure flow indicators



FI 750 Series

- Unidirectional, up to 180 lpm and 420 bar
- Optional relay switch
- Optional thermometer
- Available in aluminium for oil, or brass for water

### Medium pressure flow indicators



WPB Series

- Economical solution, accuracy 4% FS
- From 0.5 up to 550 lpm at 240 bar
- Switches and analogue output available
- Suitable for oil, water-glycol & phosphate ester



FI 1500 Series

- Unidirectional, up to 400 lpm and 350 bar
- Optional relay switch
- Optional thermometer
- Available in aluminium for oil, or brass for water

### FlowHUB digital monitoring solution



FlowHUB Series

- Flow and temperature monitoring - Measure, display, switch, transmit
- Low cost of ownership, accuracy 3% FS
- 5 flow sizes cover range 1 - 360 lpm, option of 210 / 420 bar
- Optional switches and analogue output (mA, V)



RFI 1000 Series

- Reversible, up to 200 lpm and 420 bar
- Built-in thermometer
- Available in aluminium for oil

# Diagnostic Test Equipment

## Portable hydraulic testers

**Accuracy:** 4% FSD  
**Pressure:** Up to 420 bar  
**Ports:** BSP / SAE  
**Applications:**  
 Agricultural, small-medium mobile machinery

**Flow:** Up to 200 lpm  
**Use:** See below

**Accuracy:** See below  
**Pressure:** Up to 480 bar  
**Ports:** BSP / SAE  
**Applications:**  
 Mobile machinery and large fixed installations

**Flow:** Up to 800 lpm  
**Use:** Bidirectional

### Pressure test kits



PT100 Series

- Complete kits for pressure testing
- Assembled to customer specification
- Fit test points wherever required in the circuit
- Kit includes gauges, hoses and test points

### Simplified digital testers



DHT '1' Series

- Measure flow (1% FS), pressure and temperature
- Simple 'On / Off' control
- Simulate machine performance using loading valve
- INTERPASS<sup>(R)</sup> protected

### Mechanical testers



RFIK Series

- Improved design, low pressure drop
- Measure flow (reversible), pressure and temperature
- Built-in loading valve, INTERPASS<sup>(R)</sup> protected
- No batteries required

### Digital hydraulic multimeter



DHM '3' Series

- All digital display
- Measure flow (1% IR), pressure, peak and temperature
- Calculate power and volumetric efficiency
- Easy to use, three standard screens
- Measure hydraulic pump efficiency with P-Q test
- Simulate machine performance using loading valve
- INTERPASS<sup>(R)</sup> protected

### Separate loading valve



HV Series

- Simulate machine performance (Bidirectional)
- Five models: up to 1500 lpm
- Safe and clean to use, INTERPASS<sup>(R)</sup> protected
- Use separately or with LT / CT flow meters



P-Q Test  
 Volumetric Efficiency

# Diagnostic Test Equipment

## Portable hydraulic testers

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**Accuracy:** 1% IR  
**Pressure:** Up to 480 bar  
**Ports:** BSP / SAE  
**Applications:**  
 Mobile machinery and large fixed installations

**Flow:** Up to 1500 lpm  
**Use:** Bidirectional

**Accuracy:** 1% FS  
**Pressure:** Up to 480 bar  
**Ports:** BSP / SAE  
**Applications:**  
 Mobile machinery and large fixed installations

**Flow:** Up to 800 lpm  
**Use:** Bidirectional

### Digital testers with remote inputs



DHT '2' Series

- Measure flow, pressure and temperature
- Secondary flow and speed inputs
- Simulate machine performance using loading valve
- INTERPASS<sup>(R)</sup> protected

### Analogue testers with remote input



HT '2' Series

- Measure flow, pressure and temperature
- External speed input
- Simulate machine performance using loading valve
- INTERPASS<sup>(R)</sup> protected



DHCR Series

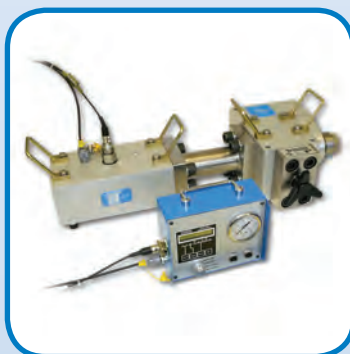
- Remote readout for use with LT / LTR Series
- Measure flow, pressure and temperature
- Secondary flow and speed inputs

### OEM test kits



- Custom test kits built to your specification
- Ideal tool kits for service engineers
- OEM branding and marketing solutions available
- Used by major mobile machinery OEMs worldwide

### Digital test kit (up to 1500 lpm)



DHCR1500R Kit

- Measure flow, pressure, temperature and optional speed
- Kit designed for hydraulic testing of very large mobile machinery
- Optional load valve rated to 1500 lpm and 420 bar to simulate machine load



OEMs worldwide

# Diagnostic Test Equipment

## Hand held hydraulic dataloggers and readouts

### Sensor Recognition (SR):

Sensors can be plugged into any input of an HPM readout, automatic recognition of the type, range and calibration of the sensor. No user input.

**Application:** Mobile hydraulic system testing

### Intelligent Digital (ID):

Digital sensors (CAN protocol) with automatic sensor recognition, connect in-line with one another using shorter cables. Uniquely identified by the datalogger.

**Application:** In-depth hydraulic system fault-finding

### Hand held readouts



HPM110/420

- Digital pressure gauge with peak capture
- 2 input readout with 2 line display
- Peak capture and dP calculation
- Rechargeable battery

### Hydraulic dataloggers (SR)



HPM540

- 4 input data loggers with multi-line display
- High speed data capture and storage
- Rechargeable battery
- USB connectivity

### Flow meters (SR & ID)



CT/CTR Series

- Precision turbine flow meters (1% IR)
- 9 models cover range 1 - 750 lpm, up to 480 bar
- Additional top ports
- With or without built-in loading valve

### Hydraulic dataloggers (SR & ID)



HPM6000

- 3 models, offering between 16 & 26 inputs
- Connect Intelligent Digital (ID) and Sensor Recognition (SR) sensors
- Full colour 5.7" display, USB, Ethernet
- Wide range of datalogging options

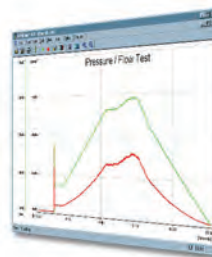
### Sensors (SR & ID)



TTP & PTT

- Pressure transducers rated up to 1000 bar
- Temperature sensor
- Speed sensor
- Current & voltage input converters for custom sensors

### PC software



HPMComm software

- PC compatible analysis software
- Analyse data fast and accurately
- Produce reports and graphs
- Display with multiple Y-axes

# Test Stand Instrumentation

## Flow, pressure, temperature speed sensors

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### 4 - 20 mA sensors:

On-board electronics to optimise accuracy. Industry standard 4 - 20 mA output. Fast and simple to install. Other analogue outputs available.

### Applications:

Condition monitoring, hydraulic test stands, control systems, remote monitoring

### CT flow meters



CT-mA Series

- Precision turbine flow meters (1% IR)
- 8 models cover range 1 - 1500 lpm, up to 480 bar
- Additional top ports for pressure and temperature
- Other outputs available (mA, V, pulse)

### C2000 hydraulic data-acquisition system



C2000 Series

- Complete hydraulic test stand solution
- Includes sensors, hardware, software and training (optional)
- Up to 64 inputs. Choice of mA and frequency
- Display, datalog and produce test certificates

### Pressure transducers



MPT Series

- Models cover pressure range 1 - 1000 bar
- Accurate to 0.25% full scale
- Fast response time
- Other outputs available (mA, V)

### Speed sensors



SP-TTL Series

- Speed sensor with TTL output
- 0 - 2 kHz magnetic pickup
- Ideal for measuring pump/motor speed
- Connects directly into C2000

### Temperature sensors



TP Series

- Scaled up to 150°C
- Rated to 480 bar
- Fast response time
- Other outputs available (mA, V)

### Flow meters - special applications



LG Series

- Precision gear type flow meters (1% FS)
- Flow range 0.1 - 16 lpm, up to 200 bar
- Unidirectional

# Want to know more about our product range? Then try our **new** fully searchable multi-language website

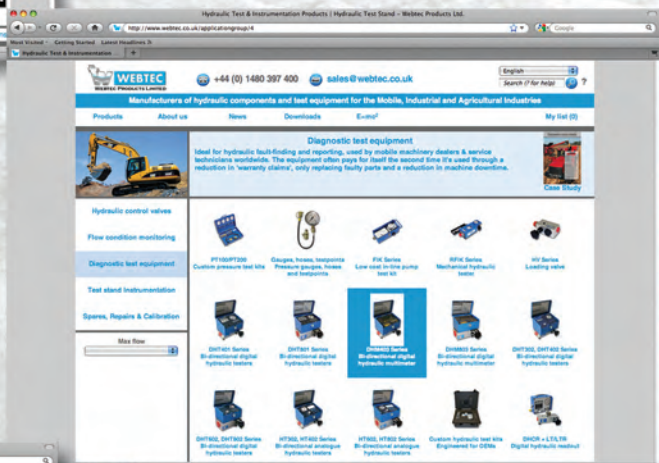


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**WEBTEC PRODUCTS LIMITED**

Nuffield Road, St. Ives, Cambridgeshire, PE27 3LZ, UK  
Tel: +44(0)1480 397400 Fax: +44(0)1480 466555

E-mail: [sales@webtec.co.uk](mailto:sales@webtec.co.uk)  
See us at: [www.webtec.co.uk](http://www.webtec.co.uk)

Your Webtec Products representative:



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