

# New hydraulic data logger **HPM540 with USB**



The HPM540 is ideal for use as a portable display and data logger as well as for permanent installation on small hydraulic test benches.

### Applications

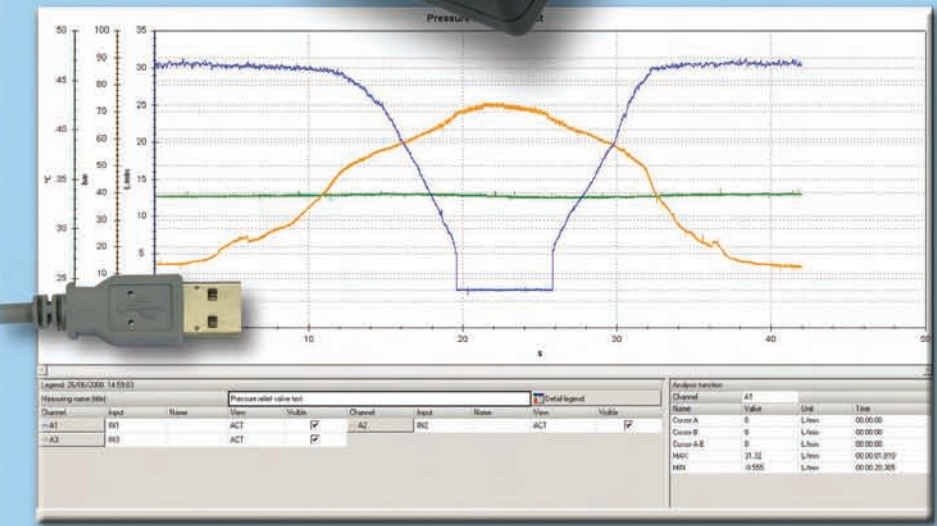
- On-site diagnostic testing
- Pre-dispatch inspection
- Production and service testing

### Analysis

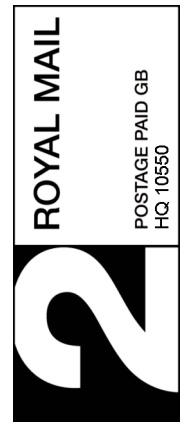
- Transfer data to a PC easily and quickly using USB 2.0
- Free HPMcomm software
- Produce test certificates for your customers

### Measure

- Flow, press, temperature, speed (Sensor Recognition)
- Differential and peak pressures
- DC current and voltage signals



Plot a graph and analyse the results



## Fax back

I would like to know more about...

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HPM datalogger kits	Webtec hydraulic components overview	Webster test equipment overview	RFIK mechanical hydraulic tester
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
180 series directional control valve			

I would like to receive e-shots: (e-mail).....



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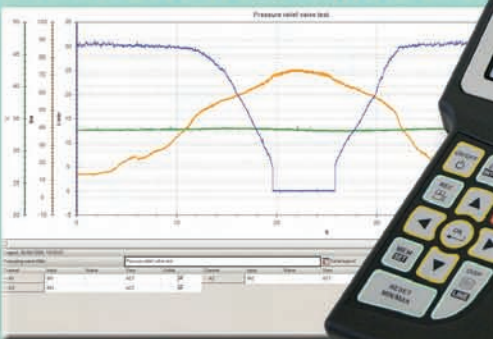
## Inside this issue



Webtec help JCB keep the military on the move...



### HPM540 data logger goes USB



Plus more...

Webtec Summer 2008 Update

Issue 5



and **WEBTEC**  
WEBTEC PRODUCTS LIMITED

# keep the Military on the move!

Today, JCB is the world's third largest manufacturer of construction equipment, and has manufacturing bases in the UK, US, Brazil, Germany, India and China. They employ over 8000 people, have operations in 150 countries and are committed to social responsibility - sending machines to help out after natural disasters worldwide. With a range of more than 279 products, JCB are dedicated to providing innovative solutions with the best back-up network in the business.



Since 1984, JCB has supplied over 3,000 vehicles to the military forces of 45 countries, where they are used for engineering and logistics operations in support of military and civil defence operations. In response to changing military operational requirements, JCB has recently introduced a range of High-Speed, High-Mobility vehicles.

A lot of the military's supplies are moved around in containers, so for the latest contract the MOD (Army) have taken delivery of two models of telescopic handler as a replacement for their existing JCB 410Ms, which are being phased out after over 23 years of service around the world. Part of the specification was for new equipment with rough terrain capability that can be deployed in any military environment.

In response, JCB have supplied a total of 424 RTFL's (Rough Terrain Telescopic Lift Trucks) to Amey Lex Consortium, (ALC), a joint venture with Vosper Thornycroft, (a private finance initiative) who now supply all of the MOD (Army) construction equipment. These vehicles deliver superb performance and productivity to support all military operations.

Two model variants, the 524-50 (2.4 tonne, 5m reach) and the larger 541-70, (4 tonne, 7m reach) models have been supplied; the 524-50 in both standard and sideshift guise and the 540-70 in just

sideshift. In addition, some of both models have been supplied in a "winterised" format, capable of operating in temperatures as low as minus 40 degrees centigrade for conditions commonly found in Northern Norway during dark winter months.

### So how do Webtec fit in?

Well, as part of the Military Integrated Logistic Support (ILS) methodology required by the UK MoD and the US DoD, providing for a full 'in service' repair and machine capability when on operations and training, these vehicles require full support in the form of an STTE (Special tools & test equipment) package in each region that they operate in.

The STTE kit supports level 2 & 3 service requirements, (engineer in the field and back to base, level 1 being operator maintenance). In every STTE kit is a Webtec RFIK200ABOT and a PT100-5 pressure test kit, used to service and maintain the hydraulic systems, steering and transmissions. These tools were chosen by the ILS team within JCB Government and Defence for their robustness, durability, reliability, and in the case of the RFIK, operational safeguards, (INTERPASS protection).

A certain amount of customisation was required; the pressure test kit to make it compatible with JCB's test point systems, the RFIK featuring a lanyard attachment to the cover and OEM manual and both in OEM livery. They have now been assigned NATO part numbers.

The RFIK200ABOT covers all of the JCB equipment in use by the MoD, (Army), which is supported by ALC. ALC supply Category C (construction) vehicles to the MoD and have their own facilities embedded within military depots in the U.K, Germany and Cyprus. Training of ALC engineers in the correct use of the tools was undertaken by JCB at the JCB training centre at Rocester. It is envisaged that any forthcoming

equipment orders, outside of the USA would be supported by these tools, so looking forward, the recently announced HMEE and HMRTF, (High Mobility Engineer Excavator and High Mobility Rough Terrain Forklift), may present future opportunity for further sales.



Photographs courtesy of:  
Defence School of Transport Normandy Barracks,  
Leconfield,

## Near-zero-leak Directional Control Valve

Product  
focus



**Material:**  
Steel components in aluminium body

**Weight:**  
1.13 kg

**Mounting:**  
Pipe or manifold in any position

### Features

This versatile near-zero-leak directional control valve is widely used both on fixed and mobile machinery with the design having been improved over many years.

The 180 series valves are ideal for use in many high-pressure applications where oil flow needs to be switched on / off or the direction reversed while at operating at pressures up to 700 bar. Many inferior designs exhibit high leakage across the valve when used at high pressure, while the 180 design benefits from optically flat rotors that give near-zero leakage.

There are over 200 different configurations available with models rated up to 38 lpm at 200bar and up to 15 lpm at 700 bar.

### Specifications

**Maximum Working Pressure:**  
700 bar

**Flow ranges:**  
15, 26.5, 38 lpm

- Pressure loaded seats working against optically flat rotors automatically compensated for valve wear to assure near zero leakage even after more than 500,000 cycles.

- Customer can select from numerous variations including 7 flow patterns, 3 flow ratings, many porting configurations, ball or offset ball operating handles, spring centring and detents.

- Valves may be in-line, panel or manifold mounted.

- High pressure cap available (max pressure 250 bar) enables valve to be used in series without drain.

### Symbol for 183 version

