

MK6 MARINE PUMP TEST BENCH



The **Merlin MK6** series are designed for the calibration of larger, single and multi-cylinder fuel injection pumps as fitted in marine, rail and heavy duty industrial applications.

The Thyristor—controlled DC motor provides an infinitely variable stepless drive in both directions, with pre-selection of speeds. Zero drop from maximum to minimum load provides an accurate governor setting.

There are two 2.5 Kw heater elements fitted in the test oil tank. Also fitted with a

microprocessor-based digital controller with thermo-couple.

A selection of mobile injector mount/calibration units, cam-boxes and fuel pump mounting brackets are available.

Also available with either integral or free standing remote control unit and is fully compatible with Merlin's mobile calibration rig (C415) and injector rig (R415).



INJECTION

Injection is via the R415 Mobile Cylinder Injector Mounting Unit.

- The unit will accept standard 'T', 'S' and orifice plate test injectors for multi-cylinder fuel pumps.
- A heavy duty damper and valve selector system is incorporated for testing single cylinder fuel pumps.
- Single cylinder test injectors are positioned remotely on a universal fixture mounted on the test bench bed.
- 1000mm³
- 7000mm³
- Electronic shot count unit range 1 to 9999 adjustable in single selectable increments, display indicates decreasing Count down.

Full Acoustic enclosure can be provided.

TEST EQUIPMENT - Tel: +44 (0) 1772 694185

UK SALES - Tel: +44 (0) 1772 694130

EXPORT SALES - Tel: +44 (0) 1772 694133

EMAIL: testequipment@merlindiesel.com



www.merlindiesel.com



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MK6 Specifications

DRIVE MOTOR:	60hp (45kw)
SPEED RANGE:	30-1600rpm
DISPLAY:	LED & Gauge
MEASURING RANGE:	R Series injector mounting unit
TEST OIL SUPPLY PUMP:	1320 litres/hr
TEST OIL FEED PRESSURE:	363 litres/hr
FLYWHEEL:	Inertia of 63 kgm ²
FLOWMETER:	C Series calibration units
TACHOMETER:	± 1 rpm with 0.5 second updates
WATER SUPPLY:	Water cooled heat exchanger
TEMPERATURE CONTROL:	0-60°C ± 1°C at 40°C
ELECTRICAL SUPPLY:	400v, /3 phase/ 50Hz (customer specification) 220v/ 3 phase/ 60Hz (customer sepcification)
CALIBRATION FLUID:	Shell Calibration Fluid 4113, now S9365.
WORK TABLE:	300 mm Centre height
DIMENSIONS	
HEIGHT:	1760mm
LENGTH:	3000mm
WIDTH:	1785mm
WEIGHT:	2032kg

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