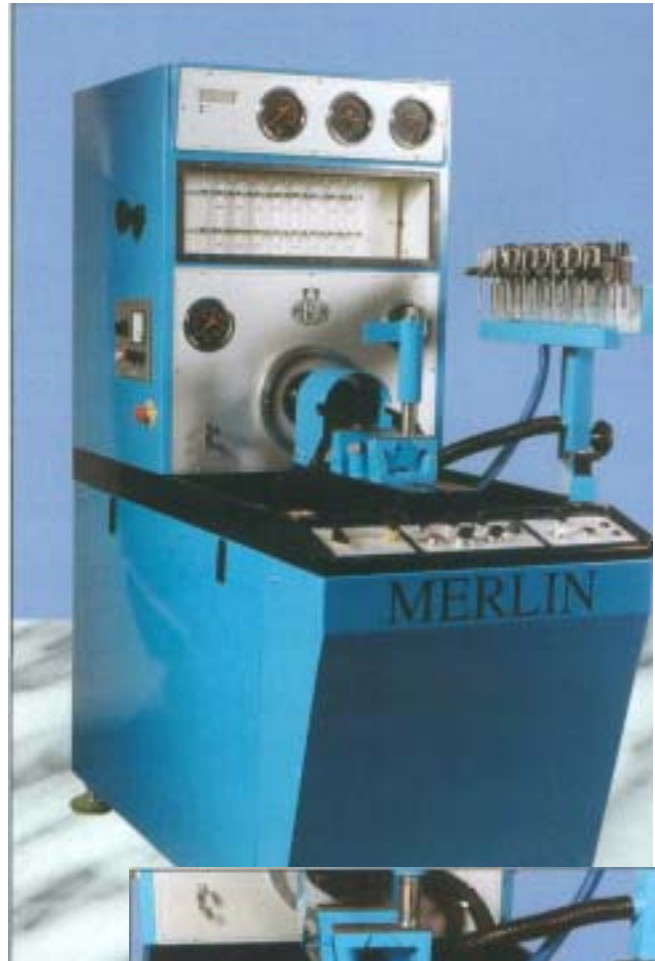


The new Merlin MM range of test stands are now of direct drive configuration and utilize an AC variable frequency control system.

All models are supplied complete with fuel heater, heat exchanger (cooler), electronic shot-count/tachometer, ISO4010 test injectors and anti-backlash coupling.

Models are available in either 8 or 12 cylinder versions and offer a choice of three different drives: -

7.5hp	(5.5kW)
10.0hp	(7.5kW)
15.0hp	(11.0kW)



Optional equipment: -

Variable DC supply

Lube oil supply

O/plate injector adaptors

MERLIN DIESEL SYSTEMS LTD

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Parts Dept.

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Test Equipment Dept.

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DRIVE

Motor: 7.5, 10 & 15hp (5.5, 7.5 & 11kW) AC Variable frequency control system
 Speed range: 0-4100rpm. (Full load minimum speed: 75rpm)
 Speed control: Potentiometer
 Acceleration rate: 333 rpm per second to pre-set speed.
 Deceleration rate: 250 rpm per second to zero speed

FLYWHEEL

Inertia value: 0.25 kgm² (for 7.5hp model)

WORKTABLE

Centre height: 125mm

CALIBRATION SYSTEM

Closed displacement system incorporating ISO 4010 nozzles as standard.

Test injectors are fitted into clear acrylic monoblock giving visual, indication start and end of injection for governor test.

The injectors incorporate vent valves for rapid high pressure phasing and pump venting.

The calibrating head is pivot mounted for right/left hand operation.

TEST TUBES:

8/12	x	0 - 21 cc capacity
8/12	x	0 - 100cc capacity
1	x	0 - 100cc DPA, Back Leak, Bosch overflow valves.

SHOT COUNT/TACHOMETER DISPLAY

A solid state electronic shot counter with a range of 1 - 9999 strokes in increments of one, incorporating manual interrupter, is combined with a digital tachometer display accuracy to within ±1 rpm. updates every 0.5 seconds.

GAUGES

All gauges are grouped on one panel and face the control panel for ease of reading. A compound pressure/vacuum gauge indicates feed pressure or vacuum as required.

Pressure/vacuum	0-60 psi /0-30"hg	(4 bar-1 bar)	(4 kg/cm ²)
Pressure Phasing	0-600 psi	(42 bar)	(42 kg/cm ²)
Temperature	1-140°F	(60°C)	
Auxiliary Gauge	0-200 psi	(14 bar)	(14 kg/cm ²)

FUEL SUPPLY PUMP

Independent motor driven supply pump with a 90 gph (435 litres) capacity at 30 psi and generates a maximum pressure of 550 psi (controlled) for high pressure phasing.

FUEL FILTER

Filtration is by a large capacity "spin on" cartridge element of 5 micron rating, plus tank strainers on suction connections.

FUEL TANK

Capacity 7.25 imperial gallons (33 litres)

HEATER

Fuel (Test oil) Heater of 1050 watts rating

HEATER EXCHANGER (COOLER)

Tube stack type heat exchanger, requires minimum of 160 litres/hour (35 gallons per hour) mains water supply

SUPPLIED COMPLETE WITH

ISO4010 test injectors and anti-backlash coupling

Basic in-line and rotary drive mounting kits and o/plate injector adaptors are available at additional cost.

Optional factory fitted equipment: -

- Variable DC supply
- Lube oil supply



Variable DC supply

SHIPPING SPECIFICATION

