

# COMBINATION TESTER

## DNCRT-COMBI.1204

Combination tester for Common rail test  
and Diesel fuel injection pump test



## Features

### Common rail test

- Testing for injector injection quantity
- Testing for injection figures
- Testing for injector injection returns
- Testing for various high pressure pump discharge rate (Bosch, Delphi, Denso)
- Testing for various common rail high pressure input
- All kinds of common rail simulation testing

### Diesel fuel injection pump test

The testing bench is a experimental equipment and it is used to repair and remove the defects of injection pump in diesel engine of automotive, marine, etc. It can control all kinds of diesel injection pump.

- Control test of the injection time
- Timer angle test
- Control test of the injection amount
- Supply pressure and amount test of feed pump
- Overflow amount test
- Control test of each part
- Air boost and pneumatic governor test
- Rack position adjusting test(Digital rack scale)

### Monitor control box

- Display injection amount and common rail pressure by engine R.P.M

### Standard accessories & tools

- DND-103W standard accessories 77kinds
- High pressure pipe for high pressure pump and rail supply : 1 EA (3 Ø x 8Ø x 600)
- High pressure pipe for injector spray : 4EA (2 Ø x 6Ø x 600)
- Zig for injector for Bosch, Delphi, Denso : 4 EA per each
- Injector power connector : 2 sets
- Pressure sensor connector : 1 EA
- Ring bracket for Bosch H.P pump : 1 EA & connecting bracket for Bosch H.P pump : 1EA
- Ring bracket for Delphi H.P pump : 1 EA & connecting bracket for Delphi H.P pump : 1EA
- Ring bracket for Denso H.P pump : 1 EA & connecting bracket for Denso H.P pump : 1EA
- H.P pump mounting bracket : 1EA
- Rotation safety cover : 1EA
- Measuring glass : 150 cc (6EA), 32 cc (12EA)
- T bolt (2EA) and others

## Technical Data

Specifications may vary for performance and quality

Model	DNCRT-COMBI.1204	
High Pressure pump drive motor	AC 220V/380V/3PH/60HZ(control by inverter), 4 cylinders / 7.5KW(10HP)	
Low pressure pump drive motor	AC 220V/380V/3PH/60HZ 200W(1/3HP)	
Low pressure pump	Output pressure 0~7 kg/cm <sup>2</sup> , Max. output flow 7 ℓ / min	
Fuel tank	45ℓ	
Temperature control	0~100°C	
Measuring glass	150cc(6ea), 32cc(12ea) - both sides	
Stroke counter	0~1,050turns	
Engine RPM	600~4,100 (600,650m,700...4,100) Digit	
High pressure pump RPM	0~4,000(4 digit 0~9999 rpm indication)	
Low pressure analog gauge	100 Ø 6kg/cm <sup>2</sup>	
Low pressure regulator	0~6kg/cm <sup>2</sup> supply pressure control	
High pressure analog gauge	100 Ø 2000kg/cm <sup>2</sup>	
High pressure regulator	0~2000kg/cm <sup>2</sup> (2000bar)pressure control	
High pressure pump output	measuring valve	
Fuel cooling device	400x400(mm)	
Fan for cooling(motor with 40W)	300x300(mm)	
Fuel filter for line	30 Microns	
Testing time setting timer	0~60min.	
High pressure pump RPM	220x35x600(WxDxH) / T groove type	
Drive Motor	AC 220-380V/3Ph/50-60Hz, 4pole induction motor(Control by inverter)	
Speed range	0~3600rpm, in both directions	
Pump Motor	AC 3ph 0.75KW(1HP) 4 pole induction motor	
Pump	Max output pressure 50kg/cm <sup>2</sup> (Working pressure : 25kg/cm <sup>2</sup> )	
	Max output flow 7.7ℓ/min Vane pump	
Heater	AC 220-380V, 1KW PT 1" tank heater	
Speed control	Manual / Auto(It can be operate 9 steps in auto mode)	
Glass	200cc and 45cc both sides	
Stroke Counter	0, 100, 200~1,000 / 0, 150, 250...1,050turns	
RPM Counter	4 digit 7 segment LED display(0-9999 rpm indication)	
VM.VE(Rotary) Fuel control valve	0-2kg/cm <sup>2</sup> supply pressure control	
LOW(PE.In-line) Fuel control valve	0-6kg/cm <sup>2</sup> supply pressure control	
PE-A(In-line) pressure Gauge	Ø 100x6kg/cm <sup>2</sup>	
VM.VE(Rotary) pressure gauge	Ø 60x2kg/cm <sup>2</sup>	
Transfer pressure gauge	Ø 100x15kg/cm <sup>2</sup>	
Overflow pressure gauge	Ø 60x2kg/cm <sup>2</sup>	
High pressure gauge	Ø 60x50kg/cm <sup>2</sup>	
Governor pressure gauge	-760mmHG~1100mmHG(Digital type)	
Vacuum Regulator & Air Regulator(1set)	For Vacuum Regulator:-760mmHg ( *1Bar= 0.999 kg/cm2=14.22 psi), For air regulator : 0~1500mmHg	
Air compressor	Motor capacity	AC220/380V3ph0.37kw(1/2HP)
	Compressor	1HP
Air tank	Capacity	40ℓ
	Pressures witch	10kg/cm <sup>2</sup>
Rack Scale	0~50mm with 0.05mm	
Packing Dimensions(mm)	2100mm(W)x1440mm(L)x2100mm(H), 900mm(W)x950mm(L)x2050mm(H)	
Net Weight / Gross weight	1200kg / 2050kg	