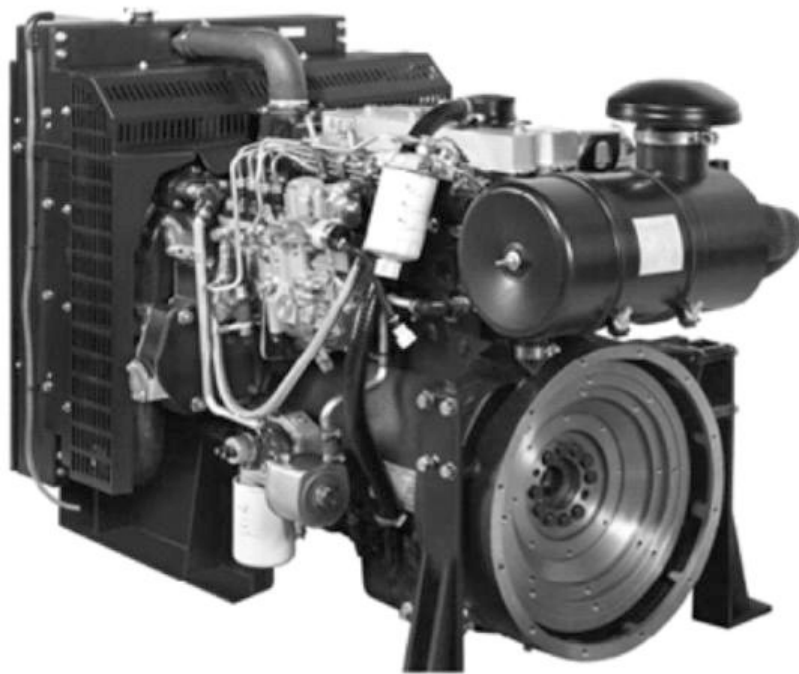




## DATA SHEET

Heavy Duty  
Diesel Engines

**1000 Series**



The LOVOL range of industrial diesel engines are of water cooled, in-line, 4 stroke, direct injection, dry cylinder liner design. They are designed for a wide range of prime mover applications, particularly for powering water pumps and generators.

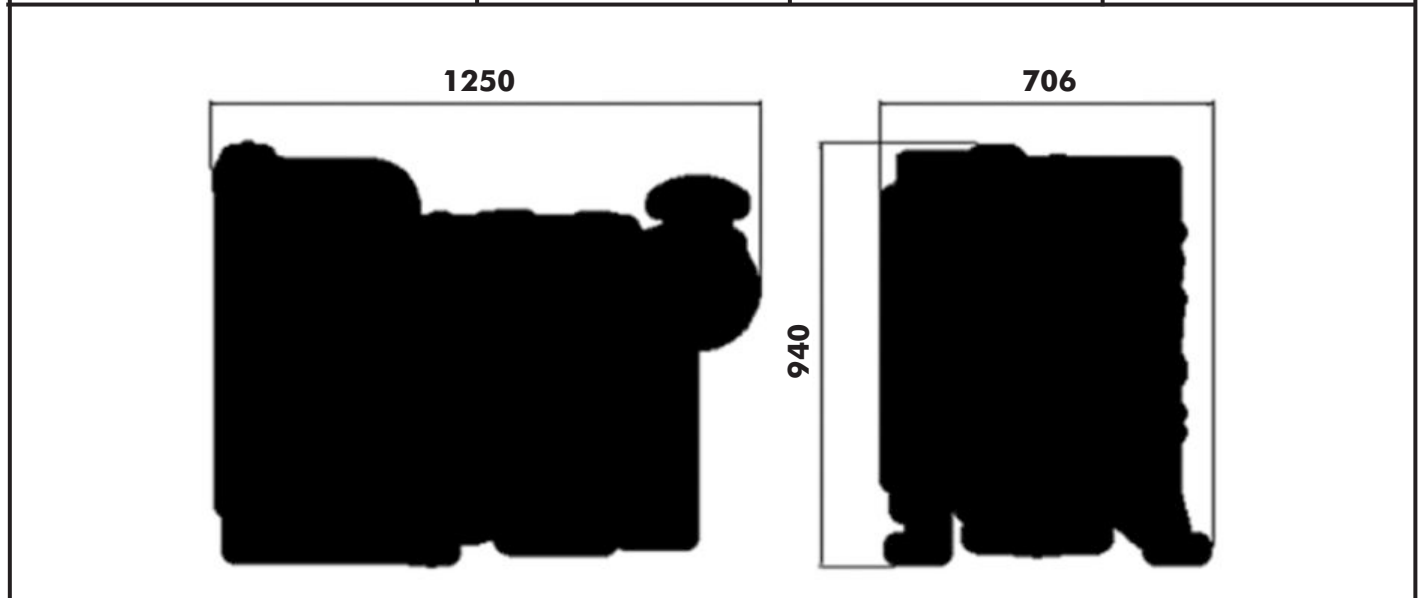
Based on Perkins technology, the efficient combustion system provides low fuel consumption, emissions and noise under varying conditions of load. Standard specification includes integral frame mounted radiator, cyclone type engine mounted air cleaner and 12V starter motor and charging alternator. Also included is an instrument panel which monitors engine speed, coolant temperature, oil pressure with relevant warnings for non-compliant conditions.

Two models of the basic engine are offered, naturally aspirated and turbo charged with the latter providing higher power outputs. Engines are specified for variable speed and can be operated between 1500 and 2200rpm.

LOVOL engines are of simple and robust design designed for continuous operation in all conditions and will provide efficient and reliable service in all prime mover applications.

## TECHNICAL FEATURES

| Engine Data                     |                 | 1004-4Z                           | 1004-4TZ      |
|---------------------------------|-----------------|-----------------------------------|---------------|
| Continuous Power Output kW(BHP) | 1500rpm         | 41(55)                            | 65(87)        |
|                                 | 1800rpm         | 46(62)                            | 72(97)        |
|                                 | 2200rpm         | 50(67)                            | 75(100)       |
| Fuel Consumption (l/hr)         | 1500rpm         | 11.3                              | 17.7          |
|                                 | 1800rpm         | 12.9                              | 18.7          |
|                                 | 2200rpm         | 14.5                              | 20.6          |
| Induction System                |                 | Natural                           | Turbo Charged |
| Cylinder No                     |                 | 4 In-line                         |               |
| Cylinder Capacity (L)           |                 | 3.99                              |               |
| Compression Ratio               |                 | 15.5:1                            | 17.5:1        |
| Lube Oil Capacity (L)           |                 | 8.5                               |               |
| Radiator Capacity (L)           |                 | 20.6                              |               |
| Direction of Rotation           |                 | Anti-clockwise viewed on flywheel |               |
| Flywheel Housing (")            |                 | SAE 3                             |               |
| Flywheel (")                    |                 | 11.5                              |               |
| Dimensions & Weights            | Length mm (A)   | 1250                              |               |
|                                 | Width mm (B)    | 706                               |               |
|                                 | Height mm(C)    | 940                               |               |
|                                 | Dry Weight (kg) | 540                               | 550           |



**DERATING:** Given outputs are sea level ratings. Engines altitude deration should be at 1% for every 100m above 100m and 1.5% for every 300m above 1000m for Naturally Aspirated and Turbo Charged engines respectively. Temperature deration is 2% for every 5°C above 20°C for both models.

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DY384A-08/17

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