



# Marine Diesel Engine

## L136TI

Daewoo Heavy Industries has made a fresh start as **Doosan Infracore**.

- *Compact Design*
- *Excellent Performance*
- *Super Low Fuel Consumption*
- *Easy Maintenance*



- Continuous Rating (BHP)
  - 169kW (230PS)
- Displacement
  - 8,071cc
- Dimension (L×W×H)
  - 1,182×825×925mm
  - Without Reduction Gear

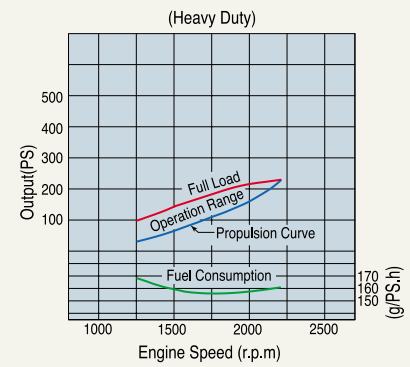


Infracore

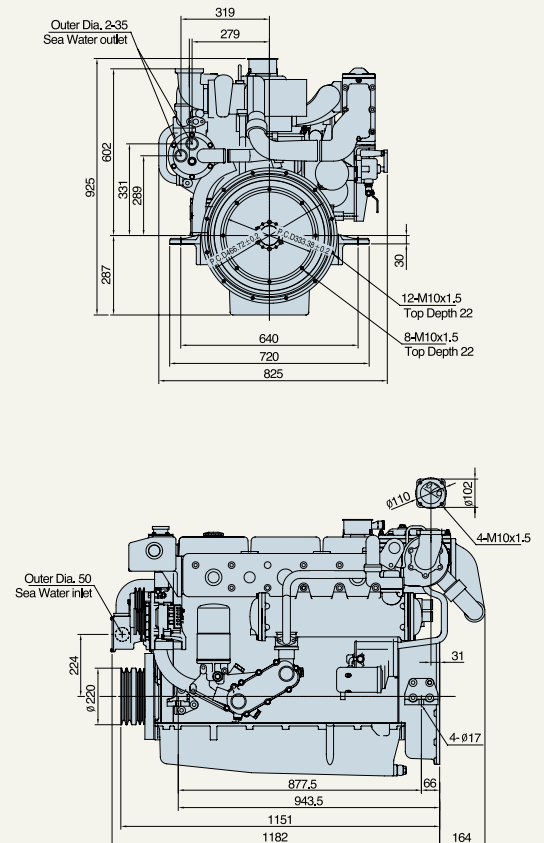
## Main Specification

| Model                               |              | Units                | L136TI  |
|-------------------------------------|--------------|----------------------|---|
| Engine type                         |              |                      | 4cycle, In line, direct-injection, watercooled, with turbo-inter cooler |
| Rating output (B.H.P)               |              | KW(PS)/rpm           | 169(230) / 2,200  |
| Displacement                        |              | cc                   | 8,071   |
| Cylinder number - bore (φ) × stroke |              | mm                   | 6 - φ 111 × 139   |
| Valve clearance at cold             | In / Ex      | mm                   | 0.3 / 0.3   |
| Low idling rpm                      |              | rpm                  | 725 ± 25  |
| No load max. rpm                    |              | rpm                  | below 2,400   |
| Mean effective pressure             |              | kg / cm <sup>2</sup> | 11.66   |
| Mean piston speed                   |              | m / sec.             | 10.19   |
| Compression ratio                   |              |                      | 16.7 : 1  |
| Firing order                        |              |                      | 1 - 5 - 3 - 6 - 4 - 2   |
| Compression pressure                | At 200rpm    | kg / cm <sup>2</sup> | 28 (Initial condition)  |
| Governor type of injection pump     |              |                      | Mechanical all speed (R.S.V)  |
| Fuel consumption                    |              | g / PS.h             | 162   |
|                                     |              | Lit/h                | 45  |
| Injection timing(B.T.D.C)           |              | deg                  | 14° ± 1°  |
| Fuel inj. nozzle opening pressure   |              | kg / cm <sup>2</sup> | 214+8   |
| Starting system                     |              |                      | Electric Starting by starter motor                                      |
| Starter motor capacity              |              | V - kW               | 24 - 4.5  |
| Alternator capacity                 |              | V - A                | 24 - 50   |
| Battery                             |              | V - Ah               | 24 - 120  |
| Cooling system                      |              |                      | Indirect sea water cooling with heat exchanger                          |
| Cooling water capacity              | Max. / Min.  | lit                  | 27 / 25   |
| Fresh water pump type               |              |                      | Centrifugal type, driven by V-belt                                      |
| Sea water pump type                 |              |                      | Rubber impeller type, driven by gear                                    |
| Lubricating oil (Engine)            | Pan capacity | lit                  | Max : 23, Min : 17 (Engine total : 25)                                  |
|                                     | Pressure     | kg / cm <sup>2</sup> | Full : 3.5, Idle : 1.2  |
| Marine gear                         | Gear ratio   |                      | 1.77 2.09 2.42 2.82 3.19  |
| Direction of revolution             | Crankshaft   |                      | Counter clockwise viewed from stern side                                |
|                                     | Propeller    |                      | Clockwise viewed from stern side  |
| Engine Size (L×W×H)                 | Without M/G  | mm                   | 1,182×825×925   |
|                                     | With M.gear  | mm                   | 1,552×825×1,001   |
| Engine dry weight                   | Without M/G  | kg                   | 773   |
|                                     | With M.gear  | kg                   | 994   |

## Performance Curve



## Engine Dimension



**Infracore**

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AUTHORIZED DEALER

\* Specifications are subject to change without prior notice.

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