



Marine Diesel Engine MD196TI

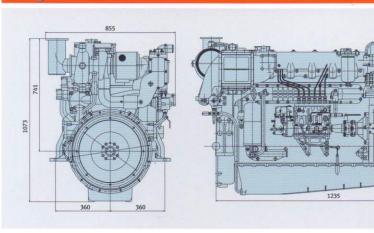
- Compact Design
- Excellent Performance
- Low Fuel Consumption
- Easy Maintenance



Main Specification Units **MD196TI** Model 4cycle, In line, direct-injection, watercooled Engine type with wet turbo charger & inter - cooler 320(235)/2,000 Rating output PS(kW) / rpm Displacement 11,051 CC Cylinder number - bore × stroke 6 - 123×155 mm Low idling rpm rpm 750 ± 50 No load max. rpm below 2,200 rpm Compression ratio 16.5:1 Firing order 1-5-3-6-2-4 Governor type of injection pump Mechanical variable speed (R.Q.V) g / PS.h 158 Fuel consumption(only Ref.) Lit/h 61 Starting system Electric Starting by starter motor 24 - 6.0 V-kW Starter motor capacity Alternator capacity V - A 24 - 50 V - Ah Battery Cooling system Indirect sea water cooling with heat exchanger Max. / Min. lit 24 / 19 Cooling water capacity Centrifugal type, driven by gear Fresh water pump type Rubber impeller type driven by gear Sea water pump type lit Max: 25, Min: 19 (Engine total: 27) Lubricating oil(Engine) Pan capacity Crankshaft Counter clockwise viewed from stern side Direction of revolution Engine Size(L×W×H) Without M/G 1,235×855×1,073 mm Without M/G Engine dry weight kg 1,009

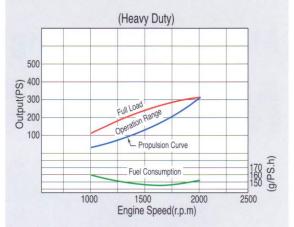
* H : Heavy Duty, M : Medium Duty, L : Light Duty

Engine Dimension



Performance Curve

· Heavy duty: 235kW(320PS)@2,000rpm



Marine rating to ISO 3046

(1) Heavy Duty

Operation hours are unlimited per year, at average load is up to 90 %, at full load is up to 80 % Typical gearbox ratio: 2.5 ~ 6 (Fishing trawler, Tug boat, Pushing vessel, Cargo boat, Freighter, Ferry)

(2) Medium Duty

Operation hours are up to 3,000 per year, at average load is up to 70 %

At full load is (up to 30 % / 4hrs per 12 hour operation period)

Typical gearbox ratio: 2 ~ 3.5

(Fishing boat, Pilot boat, Escort boat, Passenger boat, Ferry, Cruising vessel)

(3) Light Duty

Operation hours are up to 1,000 per year, at average load is up to 50 %

At full load is (up to 20 % / 2hrs per 12 hour operation period)

Typical gearbox ratio: 1 ~ 2.5

(Light weight fishing boat, Yacht, Coastguard boat, Fast boat, Fire pump, Navy)

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Web site

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* Specifications are subject to change without prior notice.