DOOSAN DAEWOO Marine Diesel Engine

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

MD196TI

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

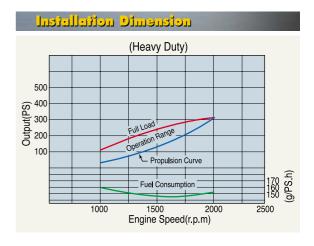


- Continuous Rating (BHP)235kW (320PS)
- Displacement
 - · 11,051cc
- Dimension (L×W×H)
 - · 1,695×854×1,155mm
 - · Including Reduction Gear

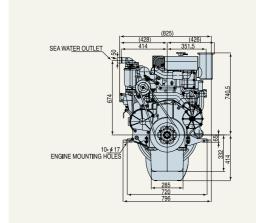
DOOSAN

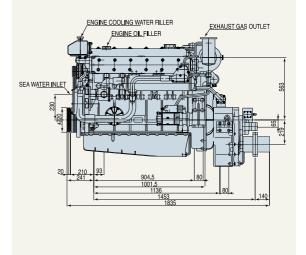
Infracore

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Model		Units	MD196TI		
Engine type			4cycle, In line, direct-injection, watercooled, with wet turbo charger & inter - cooler		
Rating output (B.H.P)		kW(PS)/rpm	235(320)/2,000		
Displacement		СС	11,051		
Cylinder number - bore (∮)×stroke		mm	6 - Ø 123×155		
Valve clearance at cold	In / Ex	mm	0.3 / 0.3		
Low idling rpm		rpm	750 ± 25		
No load max. rpm		rpm	below 2,200		
Mean effective pressure		kg / cm²	13.03		
Mean piston speed		m / sec.	10.33		
Compression ratio			16.5 : 1		
Firing order			1 - 5 - 3 - 6 - 4 - 2		
Max. firing pressure of cylinder		kg / cm²	105		
Compression pressure	At 200rpm	kg / cm²	28 (Initial condition)		
Governor type of injection pump			Hydraulic mechanical all speed (R.Q.V)		
Fuel consumption		g / PS.h	158		
		Lit/h	61		
Injection timing(B.T.D.0	C)	deg	12° ±1°		
Fuel inj. nozzle opening pressure		kg / cm²	1st : 160, 2nd : 200		
Starting system			Electric Starting by starter motor		
Starter motor capacity		V - kW	24 - 6.0		
Alternator capacity		V - A	24 - 50		
Battery		V - Ah	24 - 150		
Cooling system			Indirect sea water cooling with heat exchanger		
Cooling water capacity	Max. / Min.	lit	24 / 19		
Fresh water pump type			Centrifugal type, driven by V-belt		
Sea water pump type			Bronze impeller type driven by V-belt		
Lubricating oil	Pan capacity	lit	Max : 25, Min : 19 (Engine total : 27)		
(Engine)	Pressure	kg / cm²	Full : 3.5, Idle : 1.2		
Marine gear	Gear ratio		1.97 2.53 3.04 3.42		
Direction of revolution	Crankshaft		Counter clockwise viewed from stern side		
	Propeller		Clockwise viewed from stern side		
Engine Size	Without M/G	mm	1,242×854×1,073		
$(L \times W \times H)$	With M.gear	mm	1,695×854×1,155		
Engine dry weight	Without M/G	kg	1,009		
g	With M.gear	kg	1,329		



Performance durve





MD196TI(July/05)



Infracore

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	AUTHORIZED DEALER	1
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