

L136 MARINE ENGINE

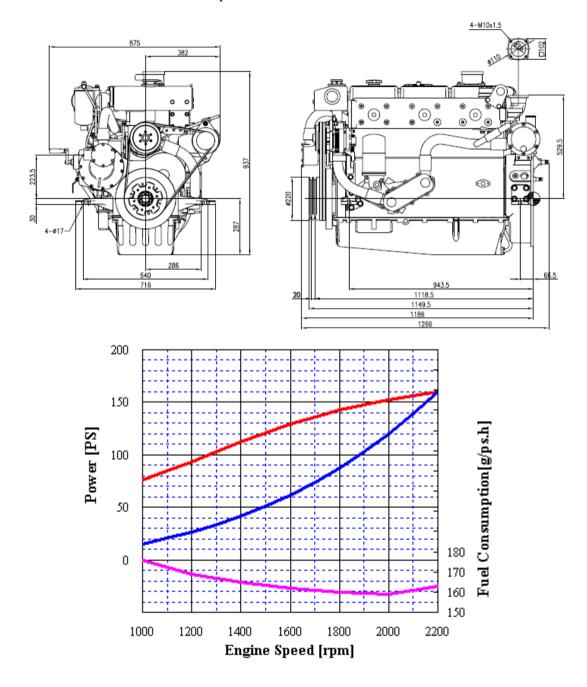


POWER RATING

Production	tolerance	+ 3%
FIOGUCUON	tolerance	1 7 %0

MODEL	CONDITIONS	POWER	rpm	Base Engine
L136	HEAVY DUTY	160PS (118kW)	2200	D1146

Note : 1) No reduction in rating for intake air temperature is up to 45 $^{\circ}$ C (318K) and sea water temperature is up to 32 $^{\circ}$ C (305K) , relative humidity is up to 60 % all data are based on operation to ISO 3046.



• **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)



L136 MARINE ENGINE



Engine Specification					
Model		Units	L136		
Engine type			4 cycle, In line, direct- injection, water cooled, aspirated naturally		
Rating output (B.H.P)	Rating output (B.H.P)		160(118)/2200		
Displacement		сс	8,071		
Cylinder number - bore(φ) x stroke		mm	6 - \$\phi11 x 139		
Valve clearance at cold	In / Ex	mm	0.3 / 0.3		
Low idling rpm		rpm	725 ± 25		
No load max. rpm		rpm	below 2,420		
Mean effective pressure		kg/cm ²	8.07		
Mean piston speed		m/sec.	10.19		
Compression ratio			17.6:1		
Firing order			1-5-3-6-2-4		
Compression pressure	at 200 rpm	kg/cm ²	28 (Initial Condition)		
Governor type of injection	pump		Mechanical all speed (R.S.V)		
Eval consumption			165		
Fuel consumption		lit / h	32		
Injection timing (B.T.D.C)		Deg	22° ± 1°		
Fuel inj. nozzle opening pressure		kg/cm ²	224		
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 - 100		
Cooling system			Indirect sea water cooling with heat exchanger		
Cooling water capacity	Max. / Min.	lit	25 / 23		
Fresh water pump type	1		Centrifugal type, driven by V- belt		
Sea water pump type			Rubber impeller type driven by gear		
Lubricating Oil	pan capacity	lit	Max: 23 , Min: 17 (Engine total: 25)		
(Engine)	pressure	kg/cm ²	Full: 3.5 , Idle: 1.5		
Marine gear	Model	Ü	DMT90AF (Dong-I)		
	Gear ratio		1.61 2.06 2.45 2.82 3.12 3.46		
Direction of revolution	crankshaft		Counter clockwise viewed from stern side		
	propeller		Clockwise viewed from stern side		
Engine size	without M/G	mm	1,266 x 875 x 937		
(L x W x H)	with M. gear	mm	1,542 x 875 x 963		
Engine dry weight	without M/G	kg	743		
	with M. gear	kg	928		

 $psi = kg/cm^2 x 14.22$ lb/ft. = N.m x 0.737kW = 0.2388 kcal/s lb= kg x 2.205 lb/PS.h = g/kW.h x 0.00162 cfm = m^3 /min x 35.3 hp = PS x 0.98635 U.S gal. = liter x 0.264

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***** Specifications are subject to change without prior notice.