

YOUR CONNECTION TO THE RIGHT MACHINE

ABOUT US



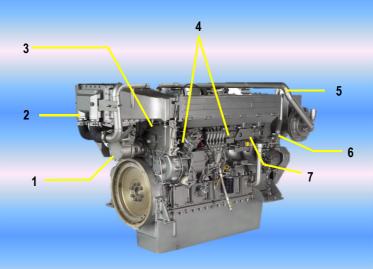
XMH has been in the business of dealing Mitsubishi marine engines for over 50 years.

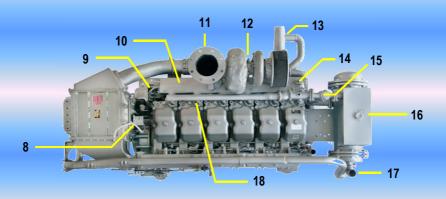
In our continuous drive to provide value to our customers, we now offer XMH Engines, a cost competitive solution to meet customer's specific repowering needs. XMH Engine uses Mitsubishi base engine with auxiliary subsystems / components that are carefully sourced to meet overall performance / quality expectations at a cost competitive level.

OUR VERY OWN BRAND OF XMH ENGINE M6AC-TK



MARINISED ENGINE COMPONENTS





ITEM NO.	NAME OF PART	ITEM NO.	NAME OF PART	ITEM NO.	NAME OF PART		
1	Seawater Pump c/w Inlet + Outlet Pipes	7	Stop Solenoid c/w Bracket	13	Freshwater Pump + Pulley & Belt c/w Inlet + Outlet Pipes c/w Bracket		
2	Intercooler Seawater Pipes Inlet + Outlet	8	Boost Pressure Stay	14	Exhaust Coolant Pipe Manifold to Heat Exchanger		
3	Speed Control Bracket	9	Exhaust Coolant Pipe Engine to Manifold	15	Thermostat (externally located) c/w Bypass Pipe		
4	Speed Control System Bracket Linkages	10	Exhaust Manifold	16	Heat Exchanger c/w Bracket		
5	Seawater Pipe Intercooler to Heat Exchanger	11	Exhaust Gas Pipe	17	Seawater Outlet Pipe For Heat Exchanger		
6	Mist Extractor	12	Lubrication Oil Pipes Linked to Turbocharger Assembly	18	Freshwater Pipe		
*	Control Panel + Engine Harness						
*	Additional Spacer Element between Turbocharger Assembly & Exhaust Manifold						

XIN MING HUA PTE LTD.

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Engine Ratings (In accordance with ISO 15550)

Rating	Typical Operation	Typical Vessel	
Heavy Duty	Allowable Load Factor < 100% Rated Power Allowable Cruising Speed < 100% Rated Speed Operating Hours is unlimited per year	Fishing Boats Cargo Boats Pusher Boats	
Medium Duty	Allowable Load Factor up to 83% Rated Power Allowable Cruising Speed up to 94% Rated Speed 100% of Rated Power is available intermittently for 8hr per every 24hr operation Operating Hours < 6000hr per year	Fishing Boats Bay Area Tug Boats Working Boats Ferry Boats	
Light Duty	Allowable Load Factor up to 75% Rated Power Allowable Cruising Speed up to 91% Rated Speed 100% of Rated Power is available intermittently for 1hr per every 6hr operation Operating Hours < 3000hr per year	Fishing Boats Yachts Patrol Boats Fire Fighting Boats	

General Engine Data

Туре	4 Cycle, Water Cooled		
Aspiration	Turbocharged, Intercooler		
	(Raw Water to Cooler)		
Cylinder Arrangement	Inline		
No. of Cylinders	6		
Bore (mm)	150		
Stroke (mm)	175		
Displacement (liter)	18.56		
Compression Ratio	14.5 : 1		
Dry Weight (kg)	1900		
Wet Weight (kg)	2030		
Idling Speed (rpm)	600~650		
Maximum Overspeed	2195		
Capacity (rpm)			
Dimensions (mm)	2319(L) x 1313(B) x		
	1149(H)		

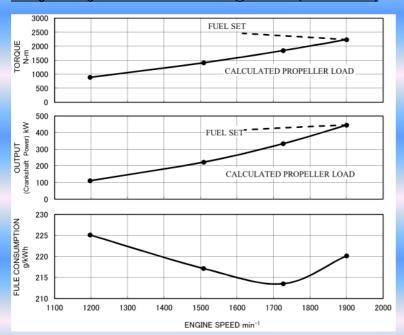
Engine Rating
A: Light Duty **B: Medium Duty** C:Heavy Duty

ITEM	UNIT	PROPULSION USE		
ITEM		Α	В	С
Engine Speed	rpm	1960	1900	1840
Brake Horse Power	kW	490	445	405
	(HP)	(657)	(597)	(543)
Brake Mean Effective Pressure	MPa	1.62	1.52	1.42
	(psi)	(235)	(220)	(206)
Mean Piston Speed	m/s	11.4	11.1	10.7
Max. Regenerative Power Absorption Capacity	kW	63	59	56
	(HP)	(84)	(79)	(79)
Intake Air Flow	m³/min	44	40	35
	(CFM)	(1554)	(1412)	(1236)
Exhaust Gas Flow	m³/min	116	105	93
	(CFM)	(4096)	(3708)	(3284)
Coolant Flow	liter/min	635	620	590
	(U.S. GPM)	(168)	(164)	(156)
Coolant (Jacket water) Pressure (water pump outlet)	MPa	0.16	0.15	0.14
	(psi)	(23)	(22)	(21)
Coolant Flow to Intercooler	liter/min	120	120	120
	(U.S. GPM)	(32)	(32)	(32)
Oil Flow	liter/min	270	263	255
	(U.S. GPM)	(71)	(69)	(67)
Radiated Heat to Ambient	kJ/hr	69008	62706	55643
	(BTU/min)	(1090)	(991)	(879)
Heat Rejection to Coolant (include water cooled manifold)	kJ/hr	1127132	1024197	908836
	(BTU/min)	(17809)	(16182)	(14360)
Heat Rejection to Intercooler	kJ/hr	184022	167216	148381
	(BTU/min)	(2908)	(2642)	(2344)
Heat Rejection to Exhaust	kJ/hr	1456304	1323308	1138695
	(BTU/min)	(23010)	(20908)	(17991)
Maximum No Load Governed Speed	rpm	2107	2043	1978

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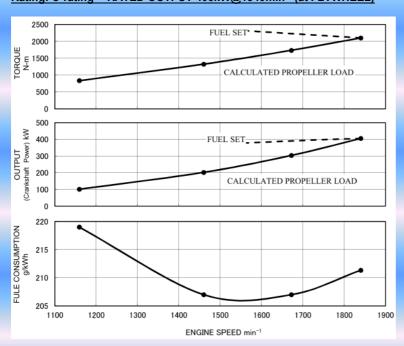
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Rating: B-rating RATED OUTPUT: 445kW@1900min-1 (at FLYWHEEL)



- 1st Indicated Point 25% Loading
- 2nd Indicated Point 50% Loading
- 3rd Indicated Point 75% Loading
- 4th Indicated Point 100% Loading

Rating: C-rating RATED OUTPUT 405kW@1840min-1 (at FLYWHEEL)



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