

6AYM-WET

M-rating 610kW [829mhp]



PRINCIPAL DATA

- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger+ intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

SPECIFICATIONS

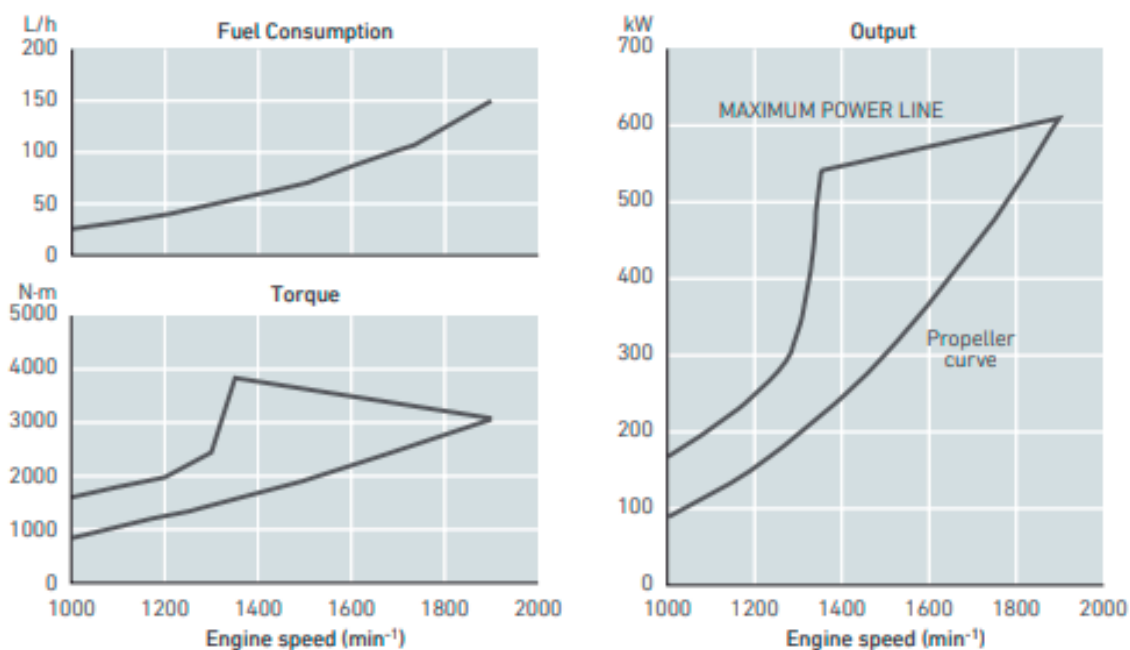
MODEL		6AYM-WET M-RATING
Number of cylinders		6 in-line
Bore × stroke	mm	155 × 180
Displacement	lit.	20.379
Rated output	kW[mhp]/rpm	M : 610[829]/1900
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 6.0kW]
Cooling system		Heat exchanger
Size of flywheel housing and flywheel		SAE #1 and 18 in
Dry mass	kg	2365 [without marine gear]
Dimensions [L×W×H]	mm	2000×1305×1431

MARINE GEAR SPECIFICATIONS

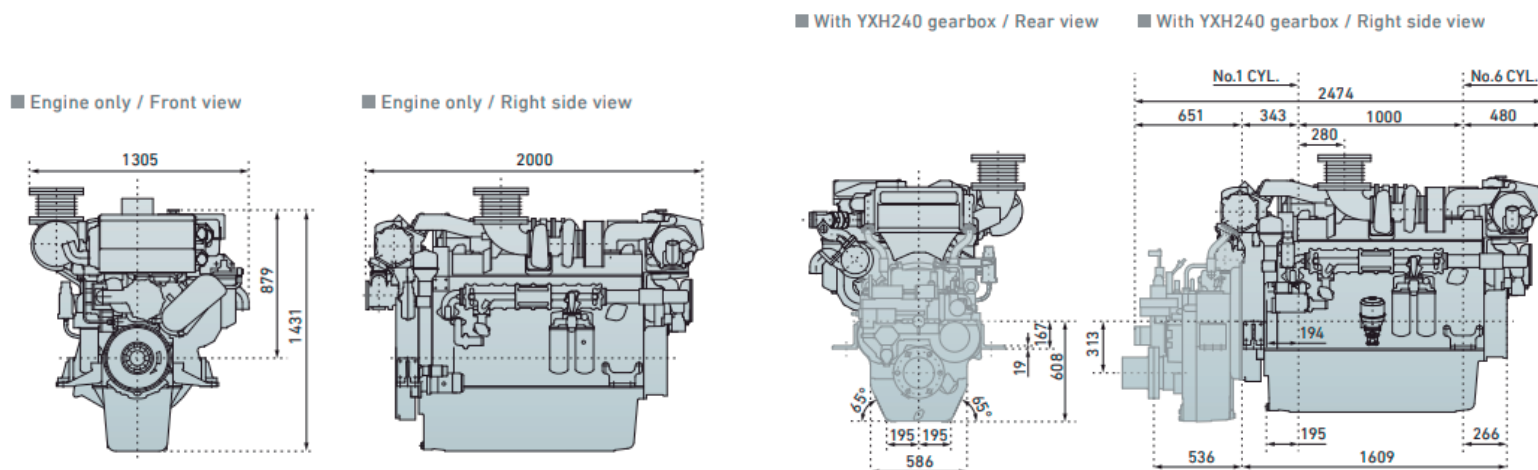
Engine model : 6AYM-WET M-rating

MODEL		YXH-240					YXH-240L						
Type		Hydraulic multi-disc clutch											
Reduction ratio [Ahead]		1.95	2.27	2.56	3.03	3.48	4.13	4.48	4.89	5.36	5.91	6.57	6.95
Direction of rotation [propeller shaft]		Clockwise or counter-clockwise											
Dry weight	kg	632					632						

PERFORMANCE CURVES



DIMENSIONS



L-rating 670kW [911mhp]



PRINCIPAL DATA

- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger+ intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

SPECIFICATIONS

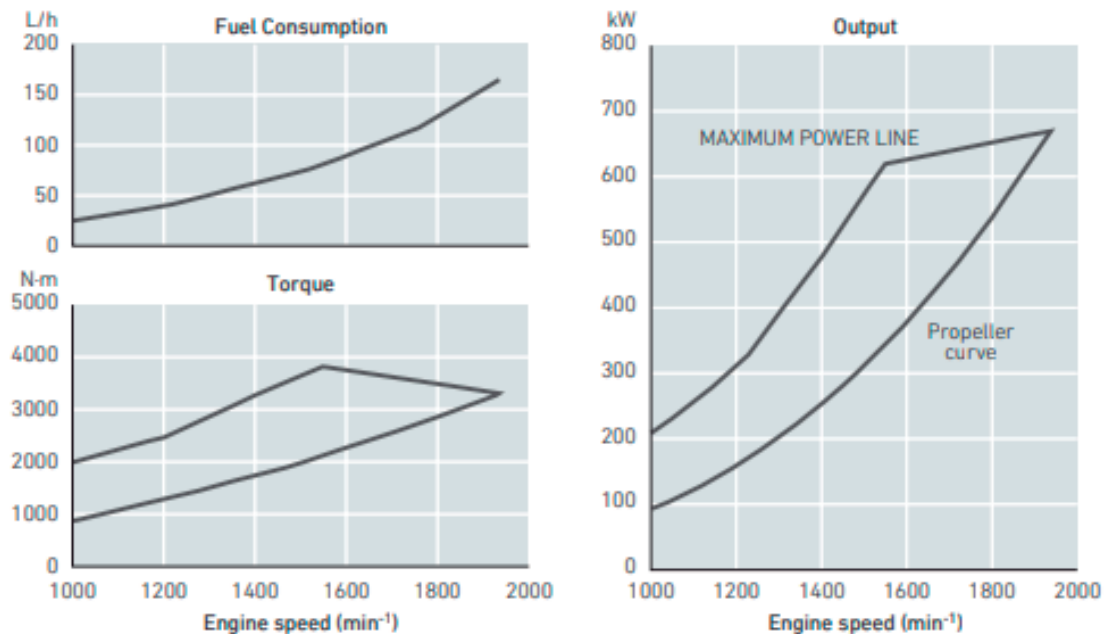
MODEL		6AYM-WGT L-RATING
Number of cylinders		6 in-line
Bore × stroke	mm	155 × 180
Displacement	lit.	20.379
Rated output	kW[mhp]/rpm	L : 670[911]/1938
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 7.0kW]
Cooling system		Heat exchanger
Size of flywheel housing and flywheel		SAE #1 and 18 in
Dry mass	kg	2365 [without marine gear]
Dimensions [L×W×H]	mm	2000×1305×1431

MARINE GEAR SPECIFICATIONS

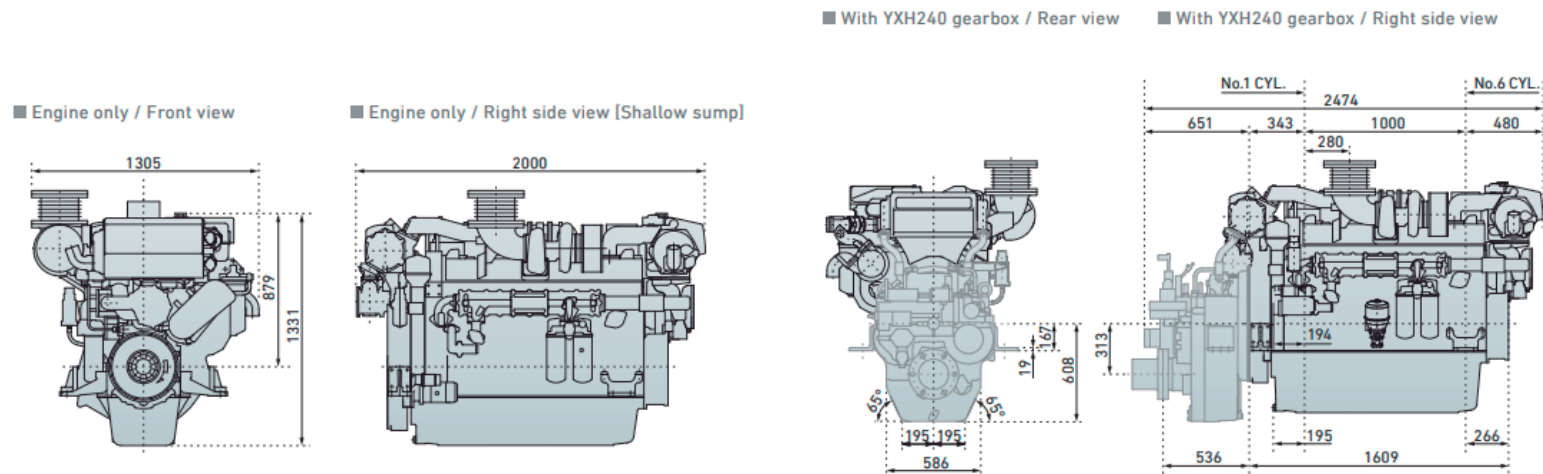
Engine model : 6AYM-WGT L-rating

MODEL	YXH-240
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight kg	632

PERFORMANCE CURVES



DIMENSIONS



6AYEM-ST [EPA TierIII] [China Marine Regulation, StageII]

Continuous-rating 485kW [659mhp]



PRINCIPAL DATA

- Common Rail system
- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger+ intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to EPA Tier III emissions regulations.

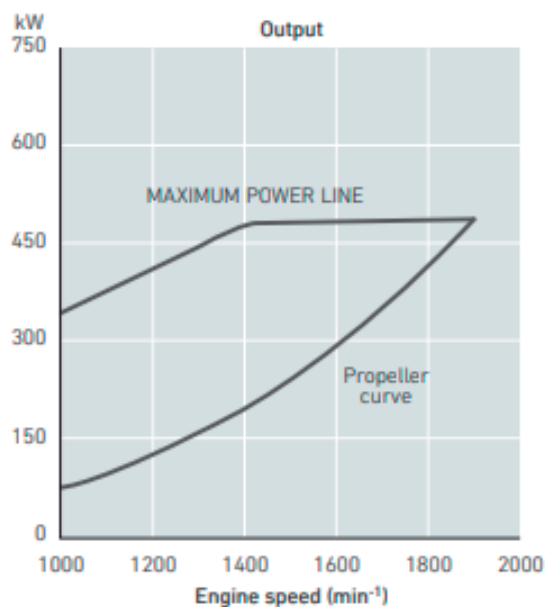
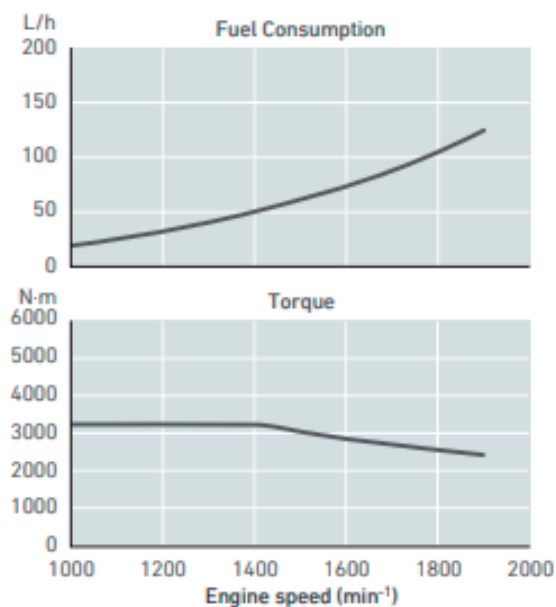
SPECIFICATIONS

MODEL	6AYEM-ST
Number of cylinders	6 in-line
Bore × strokemm	155 × 180
Displacementlit.	20.379
Rated outputkW[mhp]/rpm	C : 485[659]/1900
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 7.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #0 and 18 in
Dry masskg	2365 [without marine gear]
Dimensions [L×W×H]mm	2000×1305×1531

MODEL	YXH-240-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight kg	632

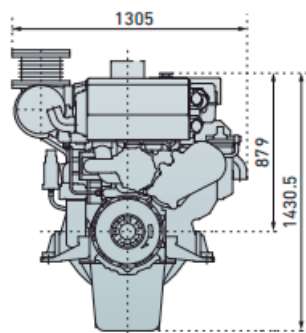
PERFORMANCE CURVES

■ Continuous-rating

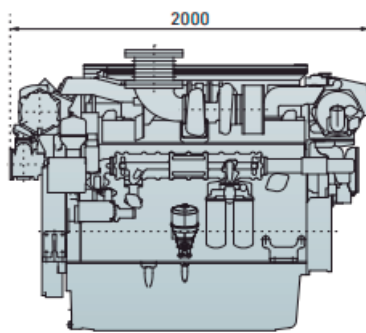


DIMENSIONS

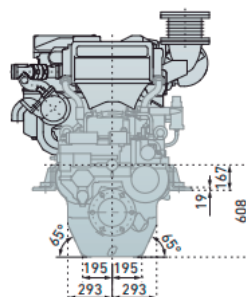
■ Engine only / Front view



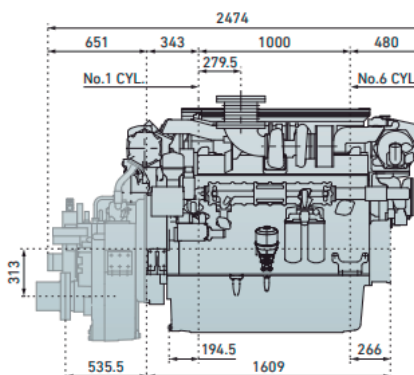
■ Engine only / Right side view



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



6AYEM-ET [IMO TierIII]

Continuous-rating 555kW [755mhp]

M-rating 610kW [829mhp]



PRINCIPAL DATA

- Common Rail system
- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger+ intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

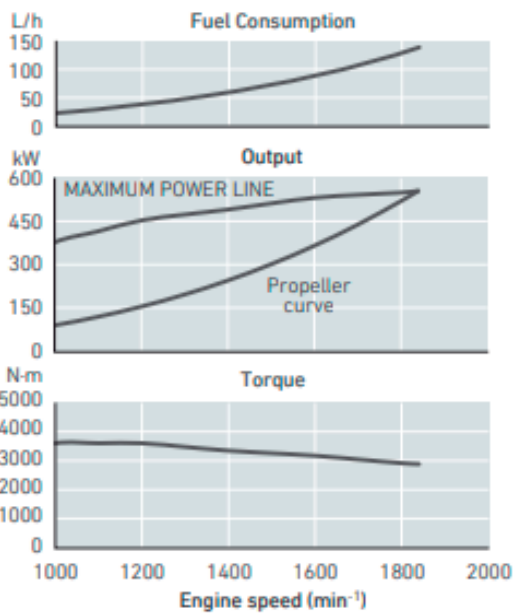
SPECIFICATIONS

MODEL	6AYEM-ET
Number of cylinders	6 in-line
Bore × stroke mm	155 × 180
Displacement lit.	20.379
Rated output kW[mhp]/rpm	C : 555[755]/1840 M : 610[829]/1900
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #0 and 18 in
Dry mass kg	2418 [without marine gear]
Dimensions [L×W×H] mm	2000×1305×1531

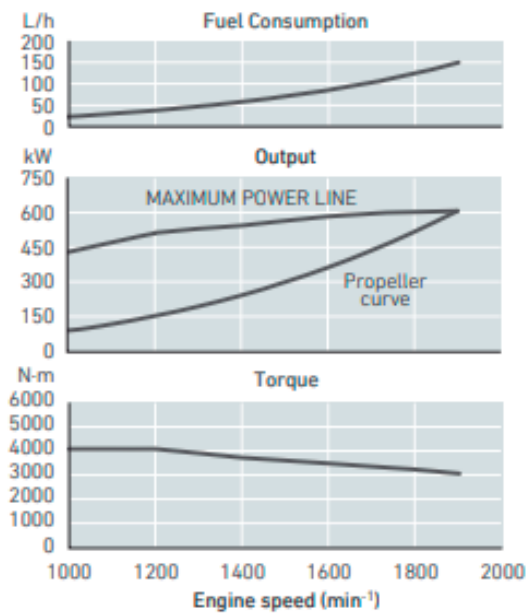
MODEL	YXH-240-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight kg	632

PERFORMANCE CURVES

■ Continuous-rating

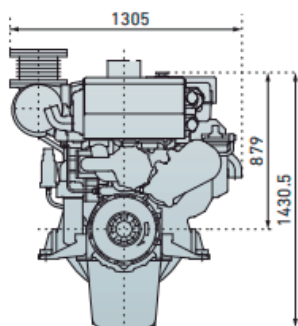


■ M-rating

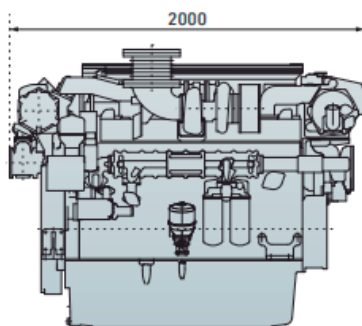


DIMENSIONS

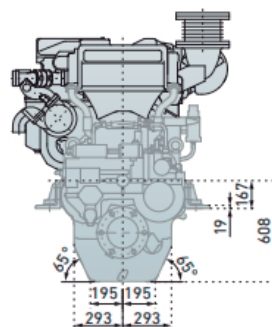
■ Engine only / Front view



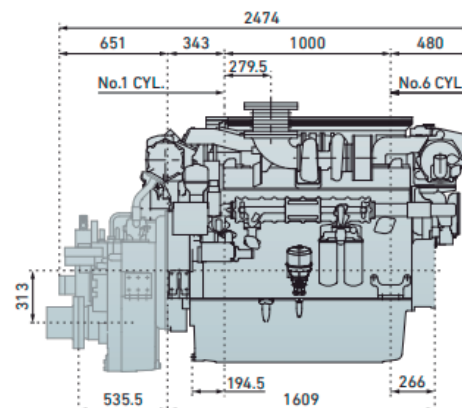
■ Engine only / Right side view



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



**6AYEM-ET [EPA TierIII]
[China Marine Regulation, StageII]**

H-rating 599kW [814mhp]



PRINCIPAL DATA

- Common Rail system
- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger+ intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to EPA Tier III emissions regulations.

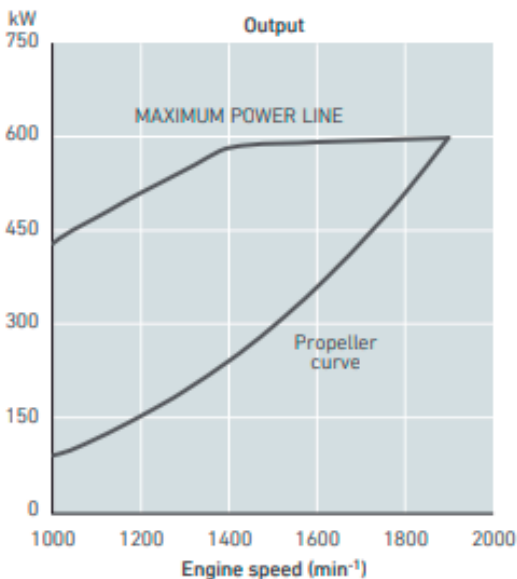
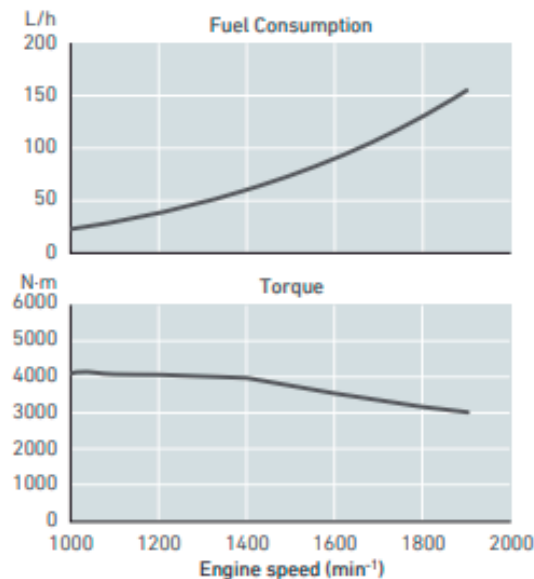
SPECIFICATIONS

MODEL	6AYEM-ET
Number of cylinders	6 in-line
Bore × strokemm	155 × 180
Displacementlit.	20.379
Rated outputkW[mhp]/rpm	H : 599[814]/1900
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #0 and 18 in
Dry masskg	2418 [without marine gear]
Dimensions [L×W×H]mm	2000×1305×1531

MODEL	YXH-240-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight	kg 632

PERFORMANCE CURVES

■ H-rating



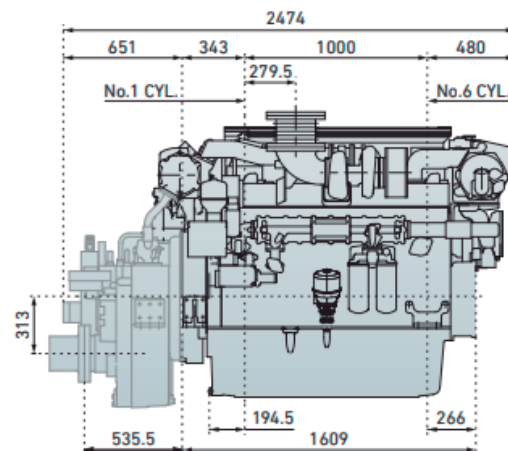
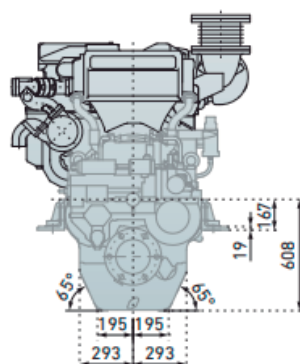
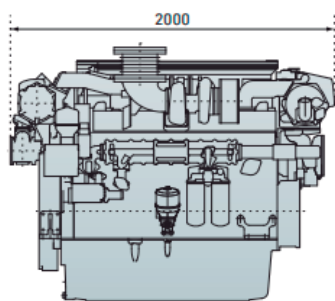
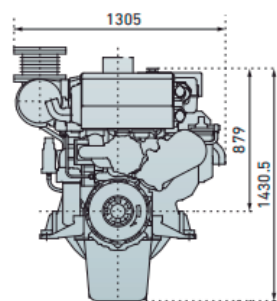
DIMENSIONS

■ With YXH240 gearbox / Rear view

■ With YXH240 gearbox / Right side view

■ Engine only / Front view

■ Engine only / Right side view



6AYEM-GT

L-rating 670kW [911mhp] [IMO TierIII]

S-rating 737kW [1002mhp]

S-rating 749kW [1018mhp] [IMO TierIII] [EPA Tier4]



PRINCIPAL DATA

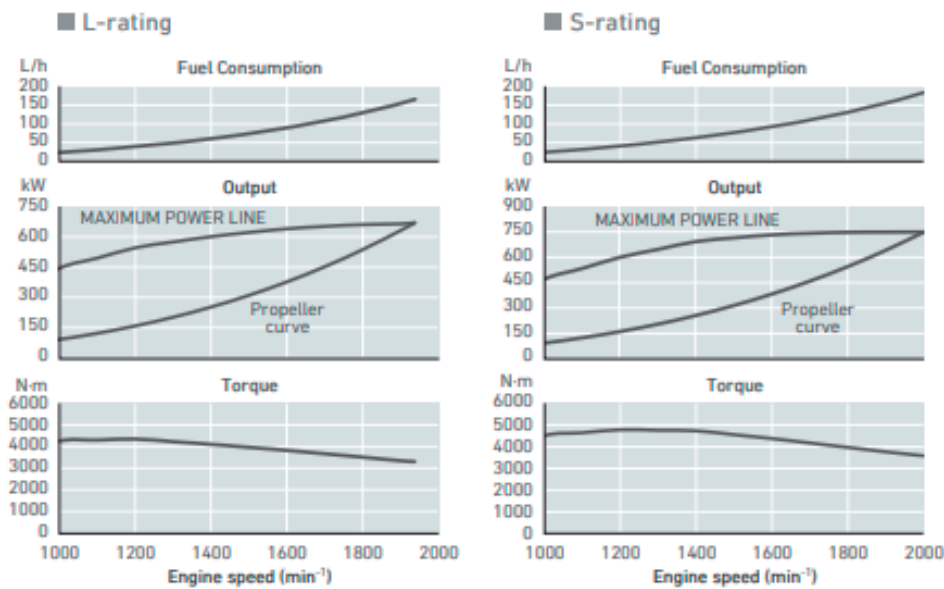
- Common Rail system
- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger+ intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Available either with marine gear or without marine gear.
- Conform to EPA Tier III emissions regulations.

SPECIFICATIONS

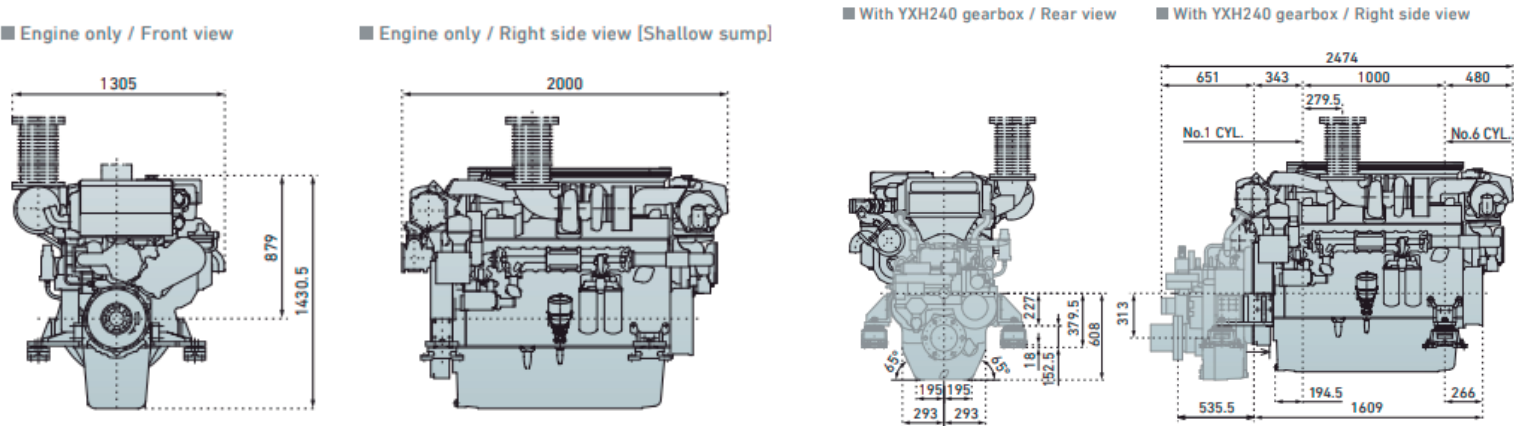
MODEL	6AYEM-ET
Number of cylinders	6 in-line
Bore × stroke mm	155 × 180
Displacement lit.	20.379
Rated output kW[mhp]/rpm	L : 670[911]/1938 S : 737[1002]/2000, S : 749[1018]/2000
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #0 and 18 in
Dry mass kg	2418 [without marine gear]
Dimensions [L×W×H] mm	2000×1305×1531

MODEL	YXH-240-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight	kg632

PERFORMANCE CURVES



DIMENSIONS



12AYM-WST

H-rating 882kW [1199mhp]
H-rating 1030kW [1400mhp]



PRINCIPAL DATA

- V-type, 12-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.

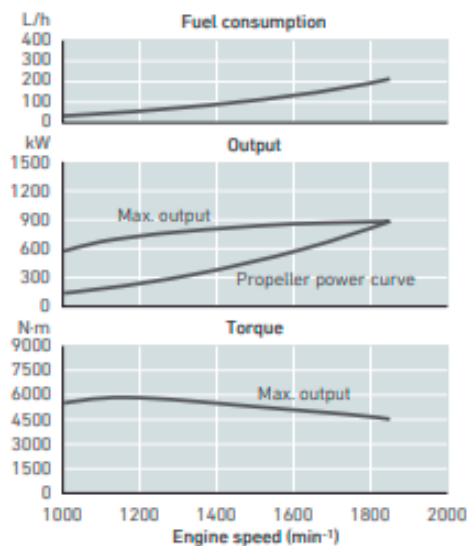
SPECIFICATIONS

MODEL	12AYM-WST H-RATING
Number of cylinders	12 V-type
Bore × stroke mm	155 × 180
Displacement lit.	40.76
Rated output kW[mhp]/rpm	H : 882[1199]/1850 H : 1030[1400]/1900
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW] × 2 or air motor × 2
Cooling system	Constant high temperature cooling system
Size of flywheel housing and flywheel	SAE #00 and 21 in.
Dry mass kg	4950 [without marine gear]
Dimensions [L×W×H] mm	2759×1644×1707

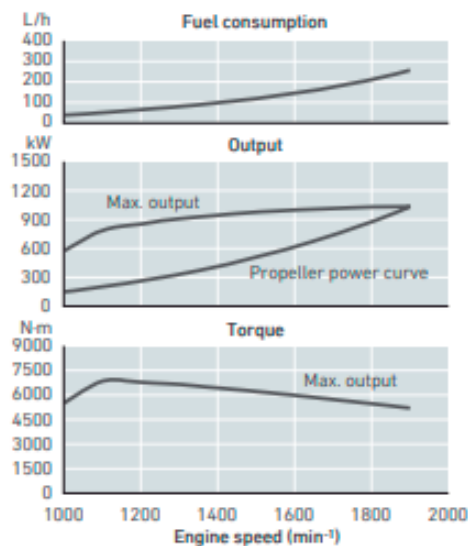
MODEL		YXH-500-1			YXH-500L-1			
Type		Hydraulic multi-disc clutch						
Reduction ratio [Ahead]		2.53	3.04	3.48	3.57	4.07	4.48	4.96
Direction of rotation [propeller shaft]		Clockwise or counter-clockwise						
Dry weight	kg	970			1620			
Live PTO					SAE B-B, B, C-C, C			

PERFORMANCE CURVES

■ H rating 882kW [1199mhp]

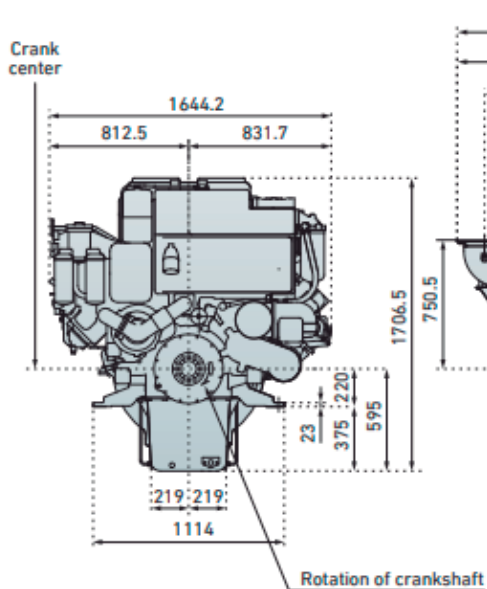


■ H rating 1030kW [1400mhp]

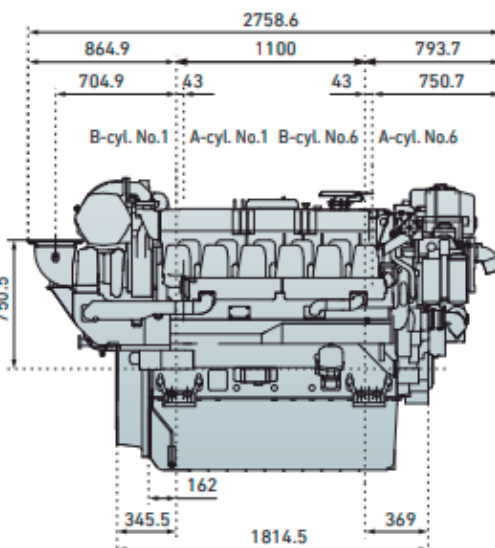


DIMENSIONS

■ Engine only / Front view



■ Engine only / Right side view



12AYM-WET

H-rating 1140kW [1550mhp]

M-rating 1220kW [1659mhp]



PRINCIPAL DATA

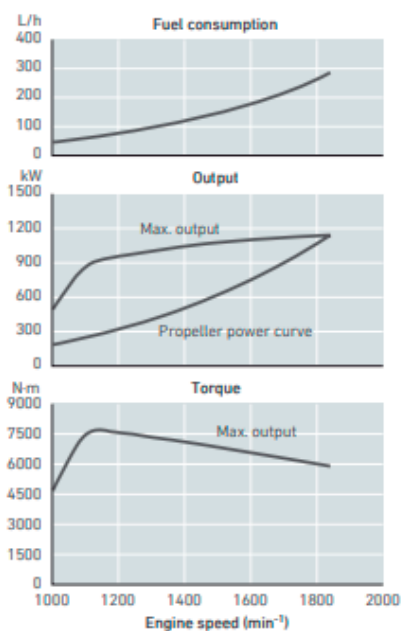
- V-type, 12-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.

SPECIFICATIONS

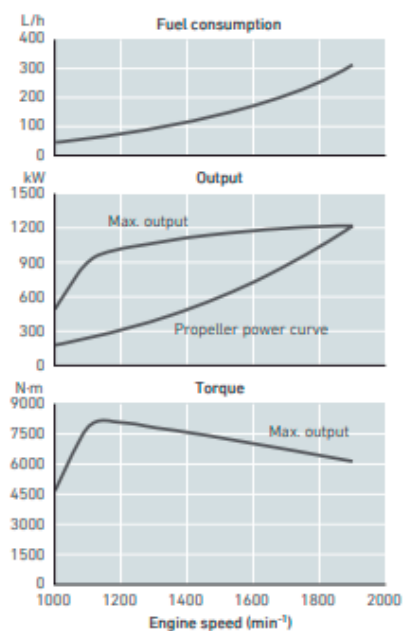
MODEL	12AYM-WET H-RATING / M-RATING
Number of cylinders	12 V-type
Bore × stroke mm	155 × 180
Displacement lit.	40.76
Rated output kW[mhp]/rpm	H : 1140[1550]/1840 M : 1220[1659]/1900
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW] × 2 or air motor × 2
Cooling system	Constant high temperature cooling system
Size of flywheel housing and flywheel	SAE #00 and 21 in.
Dry mass kg	4950 [without marine gear]
Dimensions [L×W×H] mm	2759×1644×1707

PERFORMANCE CURVES

■ H rating

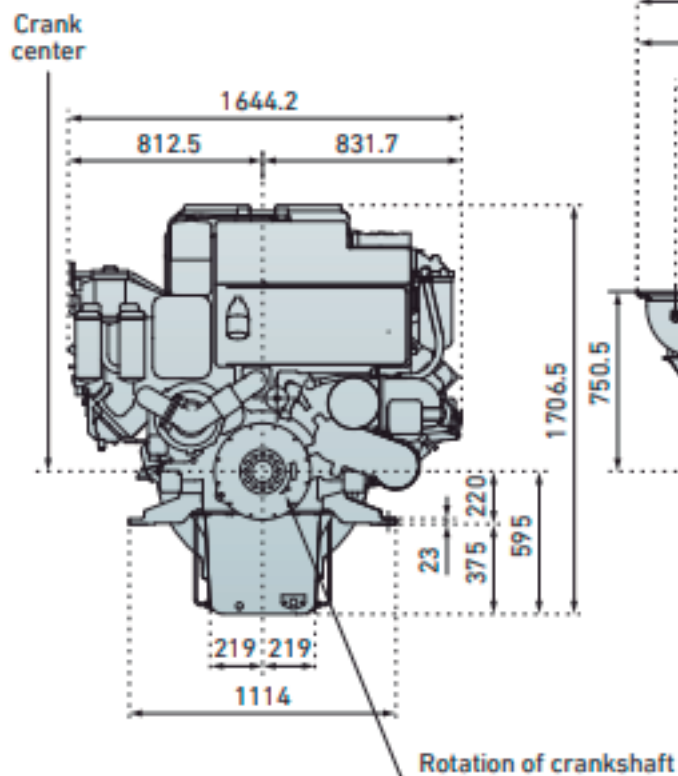


■ M rating

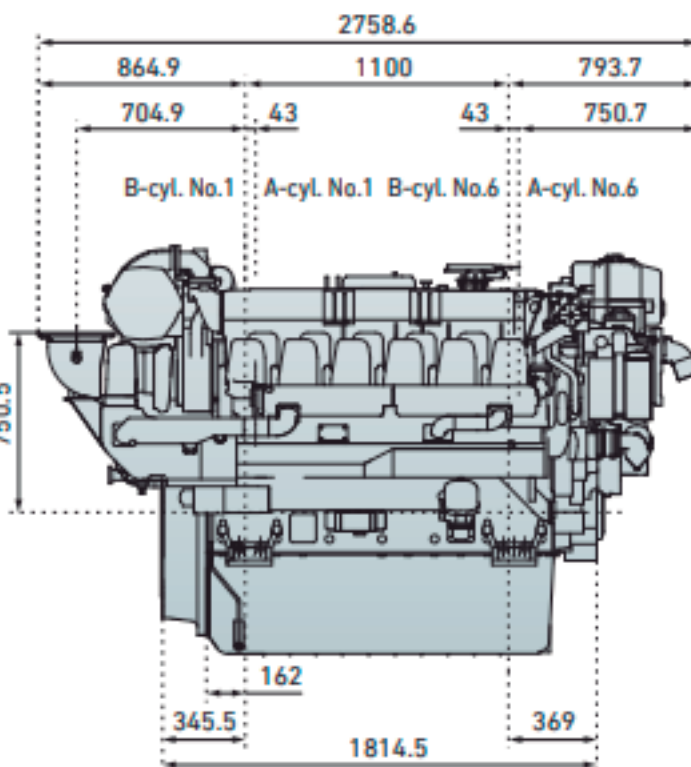


DIMENSIONS

■ Engine only / Front view



■ Engine only / Right side view



12AYM-WGT

L-rating 1340kW [1822mhp]



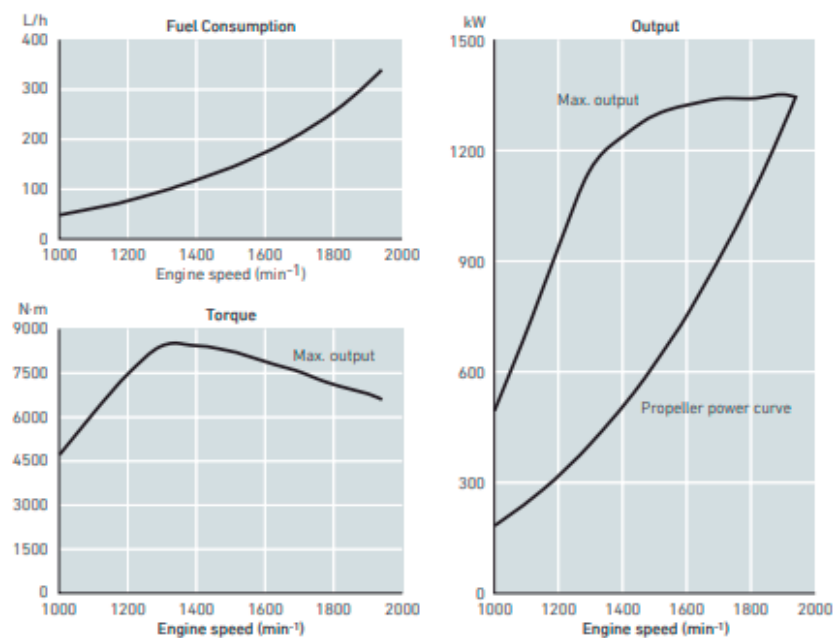
PRINCIPAL DATA

- V-type, 12-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.

SPECIFICATIONS

MODEL	12AYM-WGT L-RATING
Number of cylinders	12 V-type
Bore × stroke mm	155 × 180
Displacement lit.	40.76
Rated output kW[mhp]/rpm	L : 1340[1822]/1940
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW] × 2 or air motor × 2
Cooling system	Constant high temperature cooling system
Size of flywheel housing and flywheel	SAE #00 and 21 in.
Dry mass kg	4950 [without marine gear]
Dimensions [L×W×H] mm	2759×1644×1707

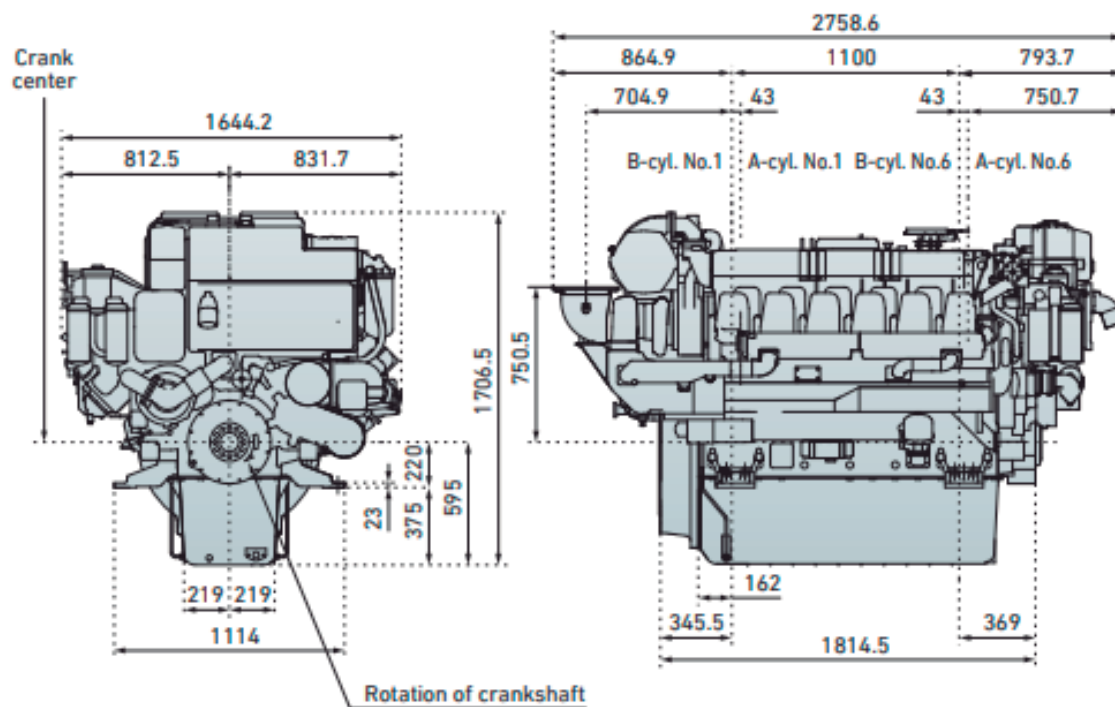
PERFORMANCE CURVES



DIMENSIONS

■ Engine only / Front view

■ Engine only / Right side view



6AYEM-ET/6AYEM-ST

803mhp 599kW

- Cammon Rail
- EPA Tier III Compliant



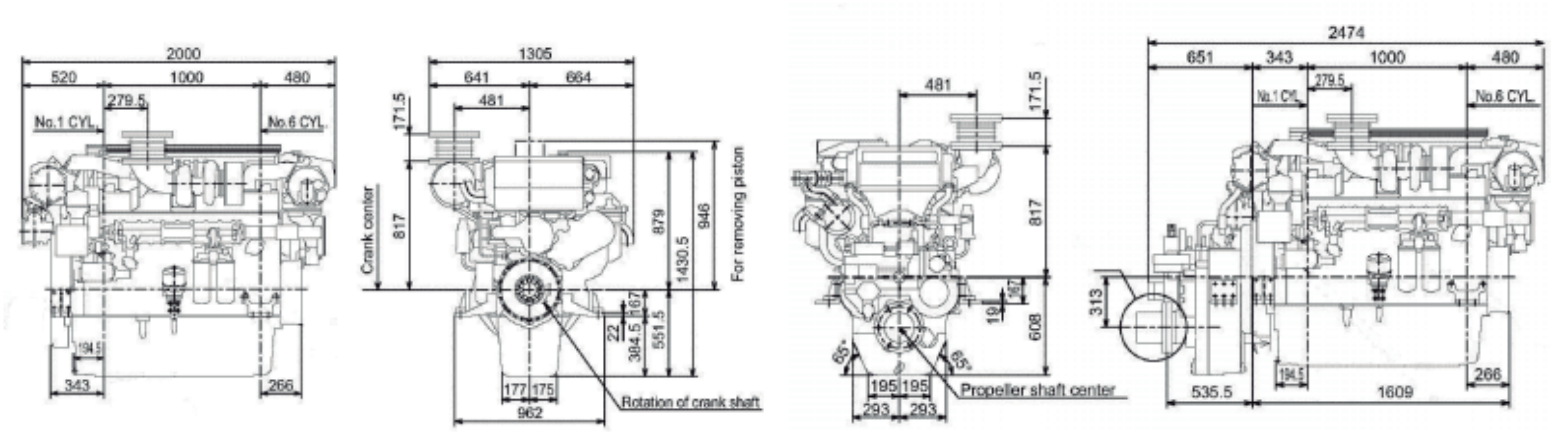
SPECIFICATIONS

MODEL	6AYEM-ET	6AYEM-ST
Type	4-cycle, Vertical, Turbo-charged with sea water cooled inter cooler diesel engine	
No.of cylinders, Bore×Stroke mm	6 in-line, 155x180	
Displacement lit.	20.38	
Rated output kW(mhp) /min ⁻¹	599(803) / 1900	485 / 1900
Emission	EPA Tier III	
Fuel consumption gr/ kW·hr	215 ^{+5%}	214 ^{+5%}
Direction of rotation	Counterclockwise	
Combustion system	Direct Injection	
Cooling system	Constant High temperature cooling system [Optional]Dual circuit keel cooling system	
Cooling water capacity lit	35(engine only) [optional HE:68]	
Lubricating system	Forced lubrication with gear pump	
Lubricating oil capacity lit	Normal type: 91, Shallow type: 53	
Lubricating oil grade	SAE40 or SAE15W-40	
Starting system	Electric start(DC24C-8kW) [Optional Air starting]	
Flywheel housing size inch	SAE#0 and 18	
Dry weight kg	2418	

MARINE GEAR SPECIFICATIONS

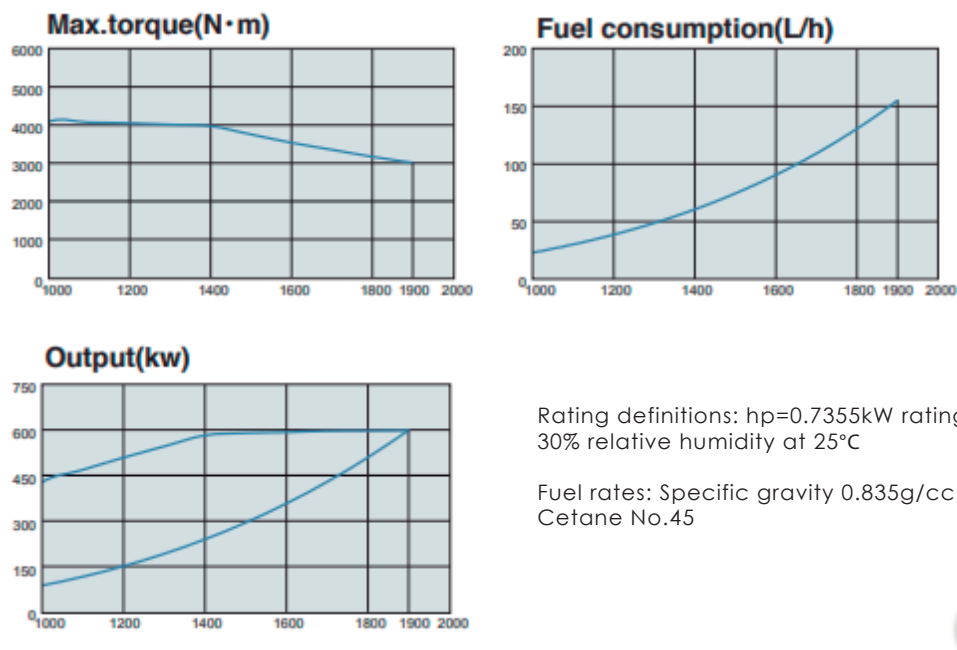
MODEL	YXH-240-7					
Type	Hydraulic multi-disc clutch					
Reduction ratio	Ahead	1.95	2.27	2.56	3.03	3.48
	Astern	1.95	2.27	2.56	3.03	3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise					
Dry weight kg	632					

DIMENSIONS [UNIT : MM (IN.)]



PERFORMANCE CURVES

EPA(599kW / 1900min⁻¹)



Rating definitions: hp=0.7355kW ratings are based on conditions of 100kPa, 30% relative humidity at 25°C

Fuel rates: Specific gravity 0.835g/cc, low calorific value 42700kj/kg(10200kcal/kg), Cetane No.45

6AYEM-GT/6AYEM-ET

1018mhp 749kW

- Common Rail
- IMO TierII Compliant



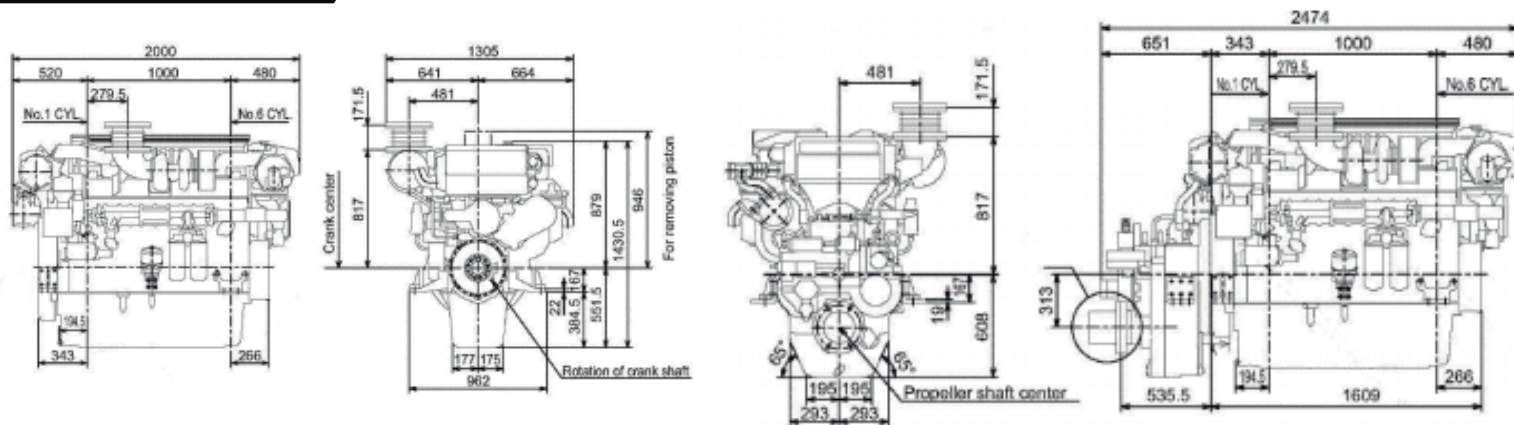
SPECIFICATIONS

MODEL	6AYEM-GT			6AYEM-ET	
Type	4-cycle, Vertical,Turbo-charged with sea water cooled inter cooler diesel engine				
No.of cylinders, Bore×Stroke mm	6 in-line, 155x180				
Displacement lit.	20.38				
Rated output kW(mhp) /min ⁻¹	749(1018)/2000	737(1002)/2000	670(911)/1938	610(829)/1900	555(755)/1840
Emission	EPA Tier III				
Fuel comsumption gr/ kW•hr	206 ^{+5%}				
Direction of rotation	Counterclockwise				
Combution system	Direct Injection				
Cooling system	Constant High temperature cooling system				
	[Optional]Dual circuit keel cooling system				
Cooling water capacity lit	35(engine only) [optional HE:68]				
Lubricating system	Forced lubrication with gear pump				
Lubricating oil capacity lit	Normal type: 91, Shallow type: 53				
Lubricating oil grade	SAE40 or SAE15W-40				
Starting system	Electric start(DC24C-8kW) [Optional Air starting]				
Flywheel housing size inch	SAE#0 and 18				
Dry weight kg	2418				

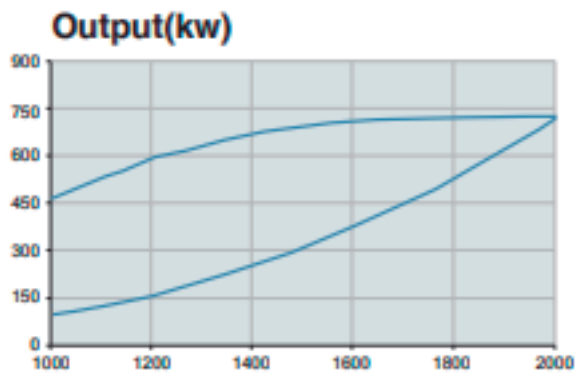
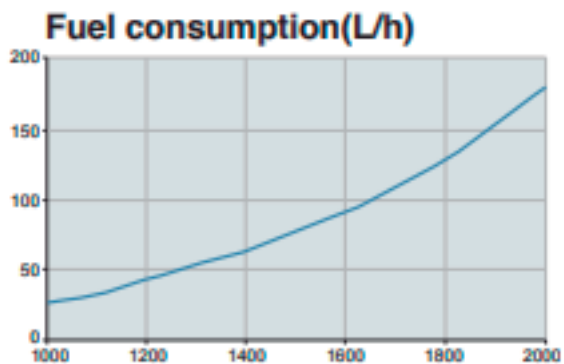
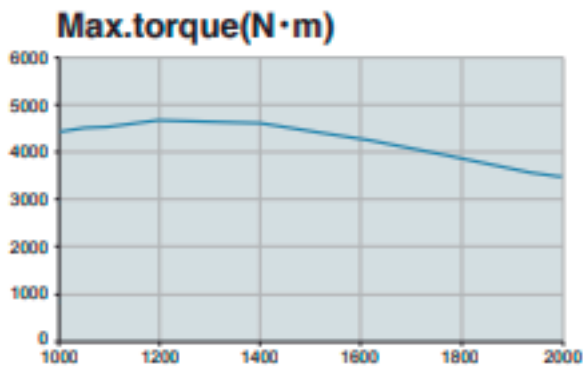
MARINE GEAR SPECIFICATIONS

MODEL	YXH-240-7					
Type	Hydraulic multi-disc clutch					
Reduction ratio	Ahead	1.95	2.27	2.56	3.03	3.48
	Astern	1.95	2.27	2.56	3.03	3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise					
Dry weight kg	632					

DIMENSIONS [UNIT : MM (IN.)]



PERFORMANCE CURVES

IMO(749kW / 2000min⁻¹)

Rating definitions: hp=0.7355kW ratings are based on conditions of 100kPa, 30% relative humidity at 25°C

Fuel rates: Specific gravity 0.835g/cc, low calorific value 42700kj/kg(10200kcal/kg), Cetane No.45

