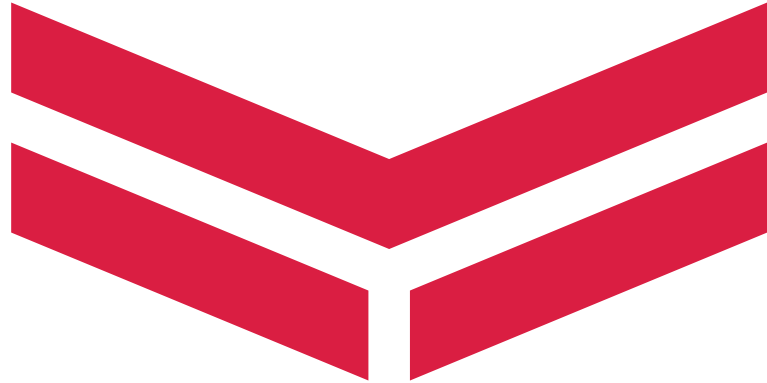




YANMAR

MARINE DIESEL ENGINE HIGH SPEED PRODUCTS GUIDE



YANMAR POWER TECHNOLOGY CO.,LTD.
Large Power Products Business

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TEL: +81-6-6489-8069 FAX: +81-6-6489-1082

yanmar.com/global/

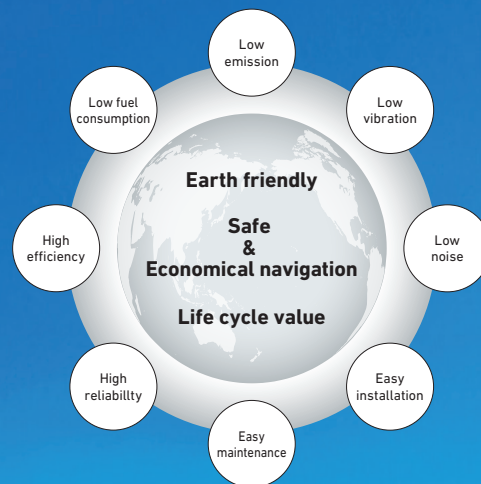
MARINE PROPULSION

POWER RANGE [8.8~1340kW]

MARINE AUXILIARY

GENERATOR CAPACITY [20~450kW_e]

Limitless Blue Skies and Oceans



CONTENTS

04P Environmental performance

06P Tsukaguchi factory

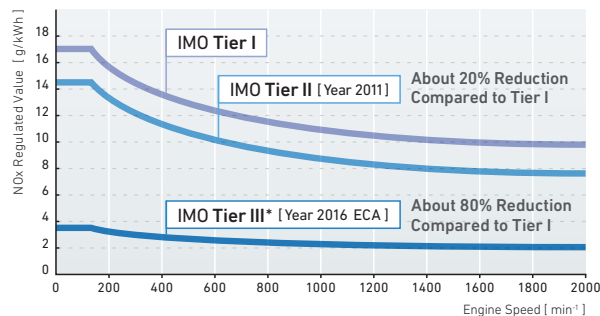
08P Marine propulsion diesel engine

56P Marine auxiliary diesel engine

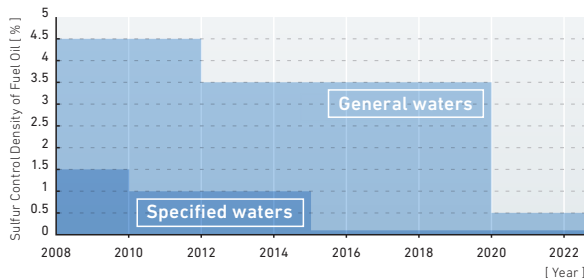
Clean and Reliable Technology

IMO Tier III* requires ships built from 2016 onwards in designated emission control areas (ECAs) to have an 80% Nox reduction from Tier I levels. By 2020, sulfur content of less than 0.5% will be required for all ships as well. Time and time again, YANMAR technology has proven itself to be reliable in a wide range of commercial marine engines. In addition to this, to stay a head of the game we are continually making new technology that meets tightening emissions regulations. In addition to providing our customers with the products they need, we also improve "Life Cycle Value" of our products. With a focus on harmony with nature, YANMAR delivers optimized solutions that support longer ship life.

IMO NOx Regulation



IMO SOx Regulation



* Tier III is applied in general waters

ECA = Emission Control Area

IMO = International Maritime Organization

NOx = Nitrogen Oxides

SOx = Sulfur Oxides

Global Hub Factory
for Marine Diesel Engines

Power Solution Business



Assembly Process [Cell]



Tsukaguchi Plant

The YANMAR Power Solution Business specializes in developing and producing small and medium-sized diesel engines mainly at the Tsukaguchi Plant. From processing of components for marine propulsion engines, marine auxiliary engines, land and industrial engines to assembly, rigging, and test runs, the Tsukaguchi Plant uses a consistent quality control system to produce a wide range of diesel engines. We deliver highly reliable products that thoroughly apply the technologies and expertise that we have fine-tuned over the years to markets in Japan and all over the world.

Certified by the seven major
classification societies.

The Tsukaguchi Plant has been certified by world's six most authoritative shipping classification societies,
LRS(Lloy'ds Register of Shipping),
ABS(American Bureau of Shipping), NK(Nippon Kaiji Kyokai),
BV(Bureau Veritas), RINA(Registro Italiano Navale) and
KR(Korean Register of Shipping). CCS(China Classification Society).



Certifications of 7 major shipping
classification societies

LRS [Lloy'ds Register of Shipping]
ABS [American Bureau of Shipping]
NK [Nippon Kaiji Kyokai]
BV [Bureau Veritas]
RINA [Registro Italiano Navale]
KR [Korean Register of Shipping]
CCS [China Classification Society]

The Certifications of shipping classification societies vary with the model of engine.
For more information, please contact us.

MARINE PROPULSION

DIESEL ENGINE
LINE-UP

Power Range

Model	Rating	Max Output
4JHYE	M-L	25.7~29.4kW
4CHE3	M-L	57.4~62.5kW
6CHE3	M-L	84.6~95.6kW
6CH-HTE3	M-L	125~140kW
6CH-WDTE	M-L	154~169kW
6CH-WUTE	M-L	188~206kW
6CXB-M-GT	H	265kW
	M	294kW
	L	341kW
	S	374kW [For planing hull]
6HA2M-WHT	H	204kW
	M	257kW
6HA2M-WDT	M	298kW
6HYM-WET	H	368kW
	M	441kW
	L	478kW
	S	515kW [For planing hull]
6AYM-WST	Cont.	485kW
6AYM-WET	Cont.	555kW
	M	610kW
6AYM-WGT	L	670kW
6AYEM-ST	Cont.	485kW [EPA TierIII, CHINA I&II]
6AYEM-ET	Cont.	555kW [IMO TierII]
	H	599kW [EPA TierIII, CHINA I&II]
	M	610kW [IMO TierII]
	L	670kW
6AYEM-GT	S	737~749kW
12AYM-WST	H	882~1030kW
12AYM-WET	H	1140kW
	M	1220kW
12AYM-WGT	L	1340kW

0 200 400 600 800 1000 1200 1400
[kW]

0 200 400 600 800 1000 1200 1400 1600 1800
[mhp]



- 4-cylinder, direct injection, heat exchanger cooling.
- Natural aspiration.
- Yanmar YX marine gear is standard.

Rating Conditions:

Ratings are based upon ISO 15550 reference conditions; air pressure of 100 kPa, air temperature 25°C [77°F], and 30% relative humidity.

S = For applications where use of rated power is less than 1.5 hours continuous out of every 5 hours and operation is less than 1000 hours per year.

When combined with a correctly matched propeller which allows the engine rated rpm to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 100-200 rpm of the rated speed.

L = For applications where use of rated power is less than 2 hours continuous out of every 5 hours and operation is less than 2500 hours per year.

When combined with a correctly matched propeller which allows the engine rated rpm to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 100-200 rpm of the rated speed.

M = For applications where use of rated power is less than 8 hours continuous out of every 12 hours and operation is less than 4000 hours per year.

When combined with a correctly matched propeller which allows the engine rated rpm to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 100-120 rpm of the rated speed.

H = For applications where use of rated power is less than 10 hours continuous out of every 12 hours and operation is less than 6000 hours per year.

When combined with a correctly matched propeller which allows the engine rated rpm to be achieved in a fully loaded vessel state, the reduced-power operation can be at or below 100-200 rpm of the rated speed.

C = This application is No limit in regard to annual maximum operation hours per year, continuous operation hours and load factor.

* Please ask Yanmar or local distributor for the detail of each model.

Fuel rates: Specific gravity 840g/liter, low calorific value 42700kJ/kg (10200kcal/kg), Cetane No.45.

Rating	Light Duty		Medium Duty	Heavy Duty	
	S-rating	L-rating	M-rating	H-rating	Continuous
Annual maximum operation hours/year	1000hrs or below	2500hrs or below	4000hrs or below	6000hrs or below	No Limit
Continuous operation hours	1.5hrs/5hrs or below	2hrs/5hrs or below	8hrs/12hrs or below	10hrs/12hrs or below	No Limit
Load factor	30% or below	40% or below	60% or below	80% or below	No Limit

Note: This rating definition apply for new engine that sold after 1st April 2015.

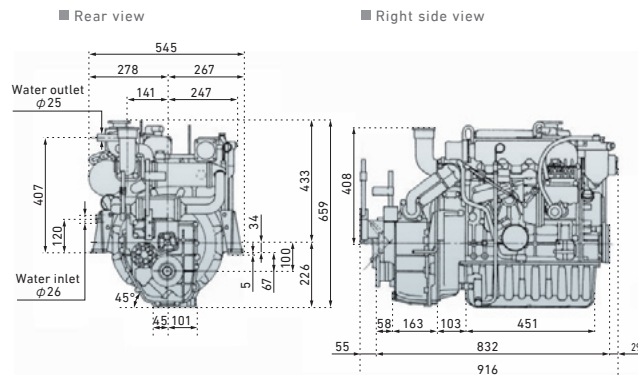
Note: All Data Subject to Change Without Notice.

Photograph may show optional equipment.

Specifications

Model	4JHYE
Number of cylinders	4 in-line
Bore × stroke	78 × 86
Displacement	1.644
Rated output	M : 25.7(35)/3400 L : 29.4(38)/3600
Combustion system	Direct injection
Aspiration	Natural aspirated
Starting system	Electric motor (12V 1.8kW)
Cooling system	Heat exchanger
Marine gear	Hydraulic
Dry mass	243 with YX-10
Dimensions [L×W×H]	916×545×659 with YX-10

Dimensions [mm]



4CHE3 / 6CHE3

M·L-rating 57.4~95.6kW [78~130mhp]

- Direct injection, heat exchanger cooling.
- Natural aspirated 4- and 6-cylinder.
- Durable hydraulic marine gear.



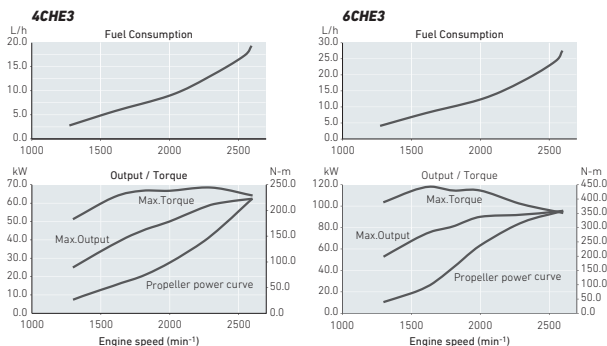
Specifications

Model	4CHE3	6CHE3
Number of cylinders	4 in-line	6 in-line
Bore × stroke	105 × 125	
Displacement	lit.	6.494
Rated output	M : 57.4[78]/2550 L : 62.5[85]/2600	M : 84.6[115]/2550 L : 95.6[130]/2600
Combustion system	Direct injection	
Aspiration	Natural aspirated	
Starting system	Electric starting motor [24V 4.0kW]	
Cooling system	Heat exchanger	
Marine gear	Hydraulic	
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.	
Dry mass	kg	700
Dimensions [L×W×H]	mm	1258×688×1022 with YX30

Marine gear specifications / Engine model : 4CHE3 · 6CHE3

Model	YX-30
Type	Hydraulic multi-disc clutch, wet type
Reduction ratio [Ahead]	2.03 2.55 2.96 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern
Dry weight	kg

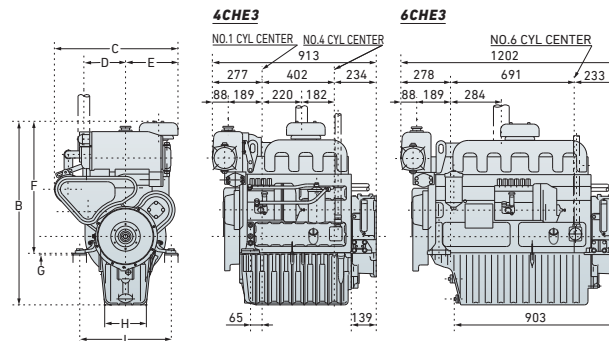
Performance curves



Dimensions [mm]

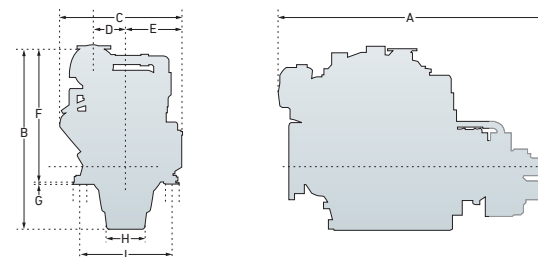
■ Engine only / Front view

■ Engine only / Left side view



■ With YX-30 gearbox / Rear view

■ With YX-30 gearbox / Left side view



Model	A	B	C	D	E	F	G	H	I
4CHE3×YX-30-2	1258	1022	688	232	292	735	9	232	510
6CHE3×YX-30-2	1496	1018	690	233	300	737	9	233	550

— Marine gear

6CH-HTE3

M·L-rating 125~140kW [170~190mhp]



- Direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- Durable hydraulic marine gear.

Specifications

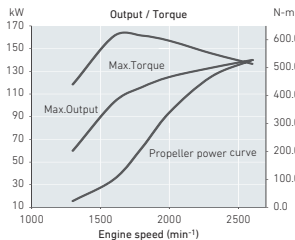
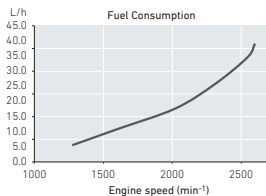
Model	6CH-HTE3	
Number of cylinders	6 in-line	
Bore × stroke	mm	105 × 125
Displacement	lit.	6.494
Rated output	M : 125[170]/2550 L : 140[190]/2600	
	kW[mhp]/rpm	
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 4.0kW]	
Cooling system	Heat exchanger	
Marine gear	Hydraulic	
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.	
Dry mass	kg	795 [YX-50S] • 895 [YX-71]
Dimensions [L×W×H]	mm	1575×736×1096 [YX-50S] • 1600×736×1096 [YX-71]

Marine gear specifications / Engine model : 6CH-HTE3

Model	YX-50S			YX-71
Type	Hydraulic multi-disc clutch, wet type			
Reduction ratio [Ahead]	2.03	2.48	2.88	3.53
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern			
Dry weight	kg			120
				220

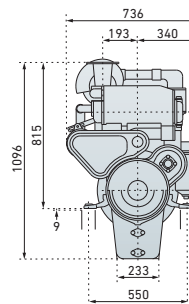
Performance curves

6CH-HTE3

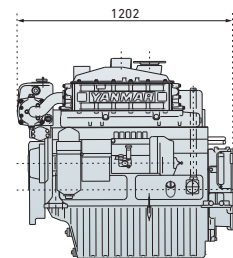


Dimensions [mm]

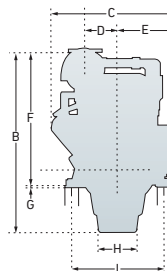
■ Engine only / Front view



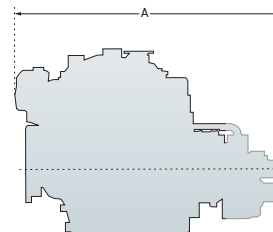
■ Engine only / Left side view



■ With gearbox / Rear view



■ With gearbox / Left side view



Model	A	B	C	D	E	F	G	H	I
6CH-HTE3×YX-50S	1575	1096	736	193	340	815	9	233	550
6CH-HTE3×YX-71	1600	1096	736	193	340	815	9	233	550

— Marine gear

6CH-WDTE

M•L-rating 154~169kW [209~230mhp]



- Direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- Durable hydraulic marine gear.
- 6CH-WDTE conform to IMO Tier II emissions regulations.

Specifications

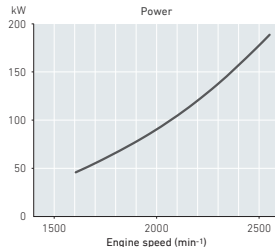
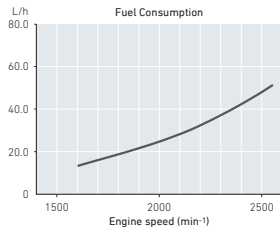
Model	6CH-WDTE	
Number of cylinders	6 in-line	
Bore × stroke	mm	105 × 125
Displacement	lit.	6.494
Rated output	M : 154[209]/2550 L : 169[230]/2600	
	kW[mhp]/rpm	
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 4.0kW]	
Cooling system	Heat exchanger	
Marine gear	Hydraulic	
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.	
Dry mass	kg	900
Dimensions [L×W×H]	mm	1600×736×1096

Marine gear specifications / Engine model : 6CH-WDTE

Model	YX-71
Type	Hydraulic multi-disc clutch, wet type
Reduction ratio [Ahead]	2.07 2.58 2.91 3.53
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern
Dry weight	kg 220

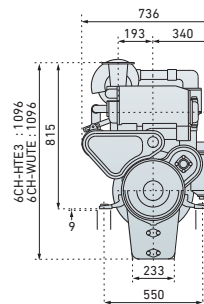
Performance curves

6CH-WDTE

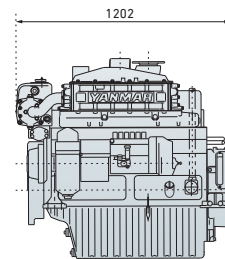


Dimensions [mm]

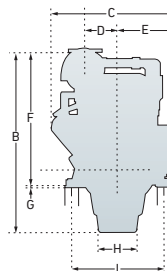
■ Engine only / Front view



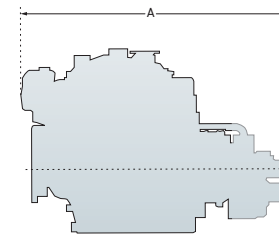
■ Engine only / Left side view



■ With gearbox / Rear view



■ With gearbox / Left side view



— Marine gear

Model	A	B	C	D	E	F	G	H	I
6CH-WDTE-YX-71	1600	1096	736	193	340	815	9	233	550

— Marine gear

6CH-WUTE

M·L-rating 188~206kW [255~280hp]



- Direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- Durable hydraulic marine gear.
- 6CH-WUTE conform to IMO Tier II emissions regulations.

Specifications

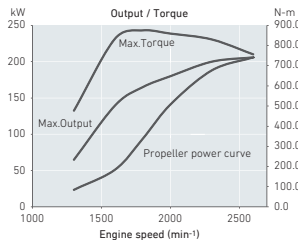
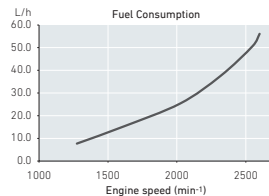
Model	6CH-WUTE	
Number of cylinders	6 in-line	
Bore × stroke	mm	105 × 125
Displacement	lit.	6.494
Rated output	M : 188[255]/2550 L : 206[280]/2600	
	kW[mhp]/rpm	
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 4.0kW]	
Cooling system	Heat exchanger	
Marine gear	Hydraulic	
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.	
Dry mass	kg	940
Dimensions [L×W×H]	mm	1600×736×1096

Marine gear specifications / Engine model : 6CH-WUTE

Model	YX-71	
Type	Hydraulic multi-disc clutch, wet type	
Reduction ratio [Ahead]	2.07 2.58 2.91 3.53	
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern	
Dry weight	kg	220

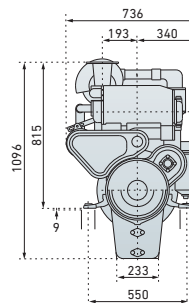
Performance curves

6CH-WUTE

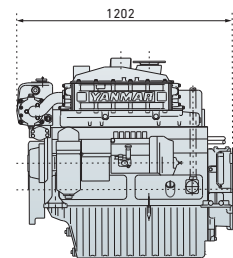


Dimensions [mm]

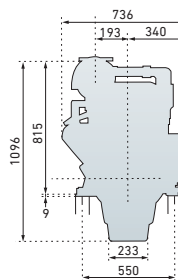
■ Engine only / Front view



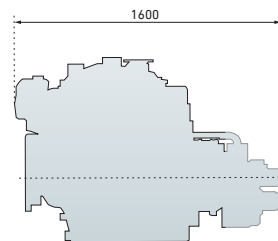
■ Engine only / Left side view



■ With gearbox / Rear view



■ With gearbox / Left side view



— Marine gear

6CXBM-GT

H-rating 265kW [360mhp]

M-rating 294kW [400mhp]



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

Specifications

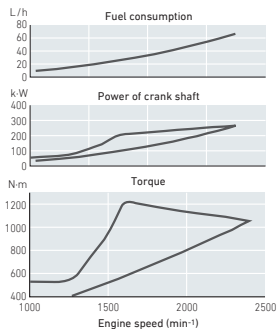
Model	6CXBM-GT	
Number of cylinders	6 in-line	
Bore × stroke	mm	110 × 130
Displacement	lit.	7.413
Rated output	H : 265[360]/2400 M : 294[400]/2500	
	kW[mhp]/rpm	
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 5.0kW]	
Cooling system	Heat exchanger	
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.	
Dry mass	kg	856
Dimensions [L×W×H]	mm	1390×901×989

Marine gear specifications / Engine model : 6CXBM-GT

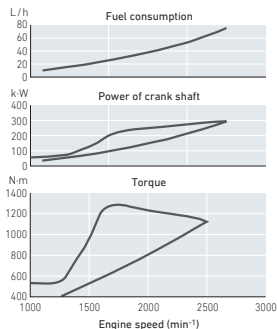
Model	YX-80		
Type	Hydraulic multi-disc clutch, wet type		
Reduction ratio [Ahead]	2.07	2.58	2.91
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern		
Dry weight	kg	204	

Performance curves

■ H-rating

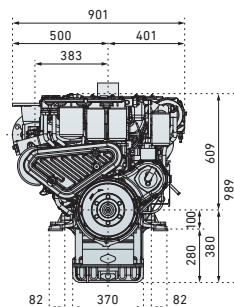


■ M-rating

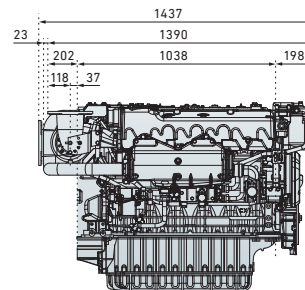


Dimensions [mm]

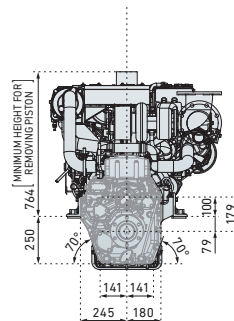
■ Engine only / Front view



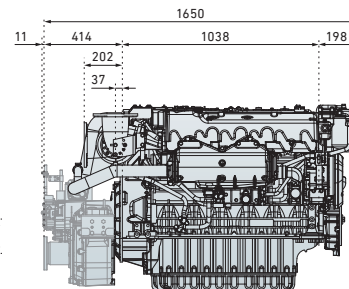
■ Engine only / Right side view



■ With YX80 gearbox / Rear view



■ With YX80 gearbox / Right side view



— Marine gear

6CXBM-GT

L-rating 341kW [464mhp]

S-rating 374kW [509mhp] (For planing hull)



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

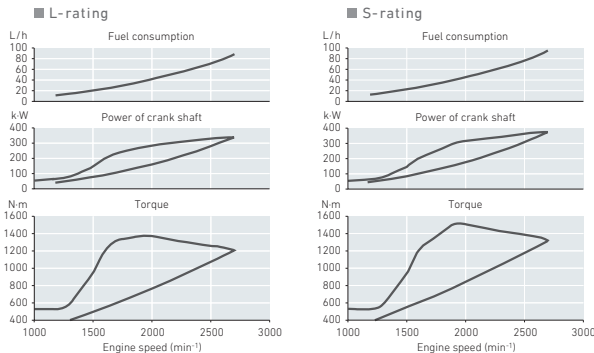
Specifications

Model	6CXBM-GT	
Number of cylinders	6 in-line	
Bore × stroke	mm	110 × 130
Displacement	lit.	7.413
Rated output	L : 341[464]/2700 S : 374[509]/2700	
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 5.0kW]	
Cooling system	Heat exchanger	
Size of flywheel housing and flywheel	SAE #3 and 11-1/2 in.	
Dry mass	kg	856
Dimensions [L×W×H]	mm	1390×901×989

Marine gear specifications / Engine model : 6CXBM-GT

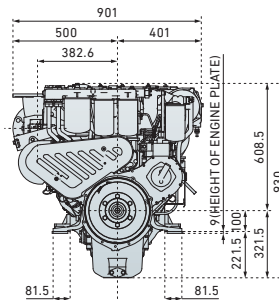
Model	YX-80		
Type	Hydraulic multi-disc clutch, wet type		
Reduction ratio [Ahead]	2.07	2.58	2.91
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern		
Dry weight	kg	204	

Performance curves

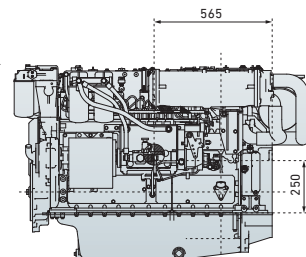


Dimensions [mm]

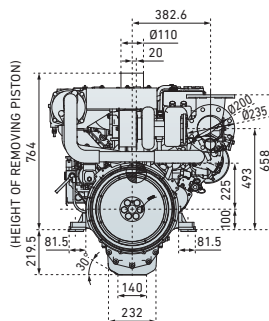
■ Engine only / Front view



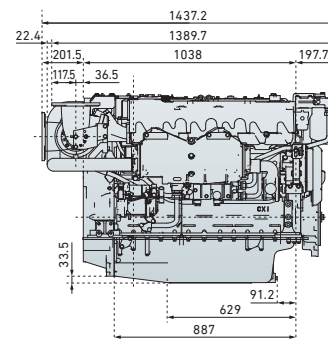
■ Engine only / Left side view



■ Engine only / Rear view



■ Engine only / Right side view



6HA2M-WHT

H-rating 204kW [278mhp]

M-rating 257kW [350mhp]



- 6-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler models.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

Specifications

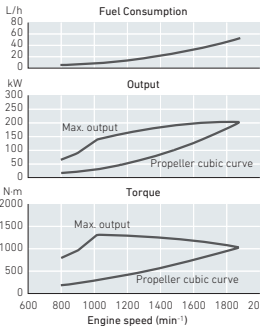
Model	6HA2M-WHT
Number of cylinders	6 in-line
Bore × stroke	130 × 165
Displacement	lit.
Rated output	H : 204[278]/1880 M : 257[350]/1950
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 6.0kW]
Cooling system	Heat exchanger
Size of flywheel housing and flywheel	SAE #1 and 14 in.
Dry mass	1455
Dimensions [L×W×H]	1598×1016×1260

Marine gear specifications / Engine model : 6HA2M-WHT

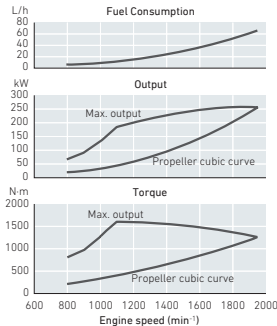
Model	YX-120	YX-120L
Type	Hydraulic multi-disc clutch, wet type	
Reduction ratio [Ahead]	2.03 2.57 3.04 3.55	4.00 4.59
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	315	411

Performance curves

■ H-rating

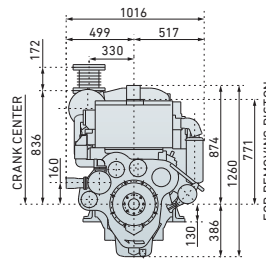


■ M-rating

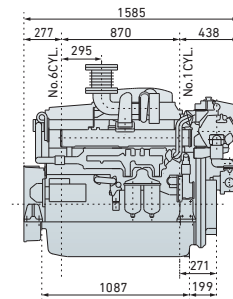


Dimensions [mm]

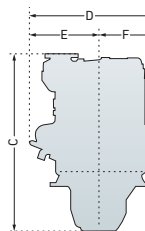
■ Engine only / Front view



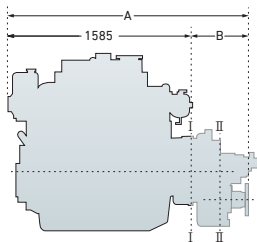
■ Engine only / Right side view



■ With YX120L gearbox / Front view



■ With YX120L gearbox / Left side view



Model	A	B	C	D	E	F
6HA2M-WHT×YX-120	2005	420	1272	1016	499	517
6HA2M-WHT×YX-120L	2039	454	1384	1016	499	517

– Marine gear

6HA2M-WDT

M-rating 298kW [405mhp]



- 4 valves per cylinder for higher combustion efficiency.
- Turbocharger + intercooler models.
- Available either with marine gear or without marine gear.
- Conform to IMO Tier II emissions regulations.

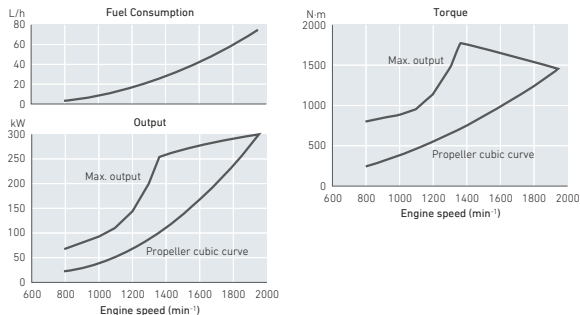
Specifications

Model	6HA2M-WDT	
Number of cylinders	6 in-line	
Bore × stroke	mm	130 × 165
Displacement	lit.	13.140
Rated output	kW[mhp]/rpm	M : 298[405]/1950
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 14 in.	
Dry mass	kg	1465
Dimensions [L×W×H]	mm	1585×1036×1260

Marine gear specifications / Engine model : 6HA2M-WDT

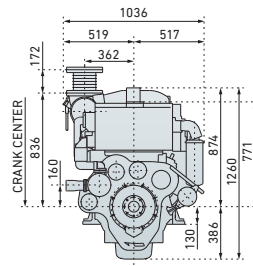
Model	YX-120	YX-120L
Type	Hydraulic multi-disc clutch, wet type	
Reduction ratio [Ahead]	2.03 2.57 3.04	3.46 4.00 4.59
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	kg	315 411

Performance curves

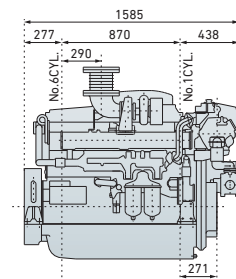


Dimensions [mm]

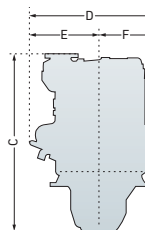
■ Engine only / Front view



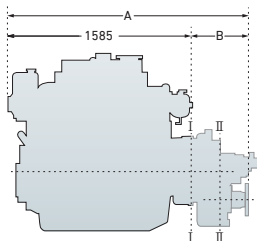
■ Engine only / Right side view



■ With YX120L gearbox / Front view



■ With YX120L gearbox / Left side view



Model	A	B	C	D	E	F
6HA2M-WDT×YX-120	2005	420	1272	1036	519	517
6HA2M-WDT×YX-120L	2039	454	1384	1036	519	517

– Marine gear

6HYM-WET

H-rating 368kW [500mhp]



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

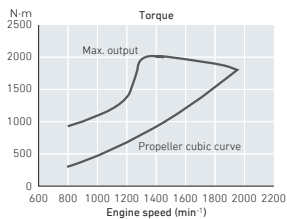
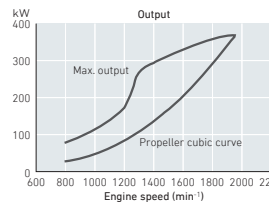
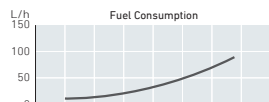
Specifications

Model	6HYM-WET H-rating	
Number of cylinders	6 in-line	
Bore × stroke	mm	132.9 × 165
Displacement	lit.	13.733
Rated output	kW[mhp]/rpm	368[500]/1950
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 14 in.	
Dry mass	kg	1385 [without marine gear]
Dimensions [L×W×H]	mm	1556×1014×1133

Marine gear specifications / Engine model : 6HYM-WET H-rating

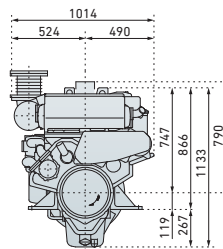
Model	YXH-160	YX-161L
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.97	3.65
	2.46	4.08
Direction of rotation [propeller shaft]	3.05	4.55
	Clockwise or counter-clockwise	
Dry weight	kg	620

Performance curves

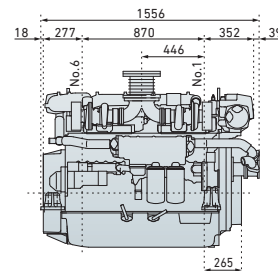


Dimensions [mm]

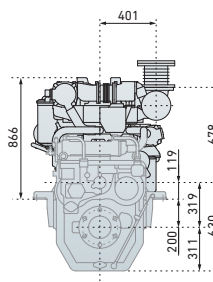
■ Engine only / Front view



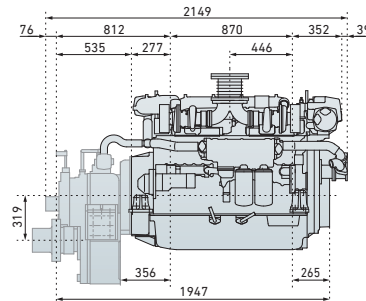
■ Engine only / Right side view



■ With YX161L gearbox / Rear view



■ With YX161L gearbox / Right side view



– Marine gear

6HYM-WET

M-rating **441kW [600mhp]**

L-rating **478kW [650mhp]**



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

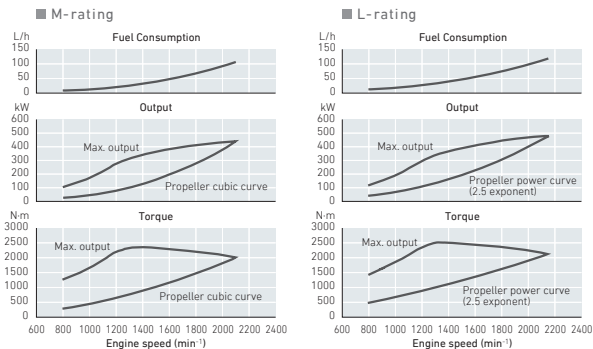
Specifications

Model	6HYM-WET	
Number of cylinders	6 in-line	
Bore × stroke	mm	132.9 × 165
Displacement	lit.	13.733
Rated output	kW[mhp]/rpm	M : 441[600]/2100 L : 478[650]/2150
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 14 in.	
Dry mass	kg	1385 [without marine gear]
Dimensions [L×W×H]	mm	1556×1014×1133

Marine gear specifications / Engine model : 6HYM-WET M-rating / L-rating

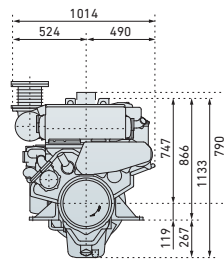
Model	YXH-160	YX-161L
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.97 2.46 3.05	3.65 4.08 4.55
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	kg	620

Performance curves

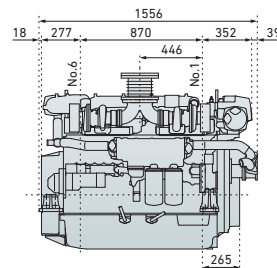


Dimensions [mm]

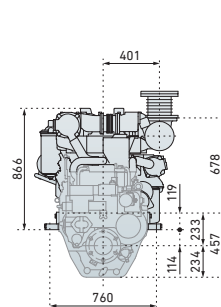
■ Engine only / Front view



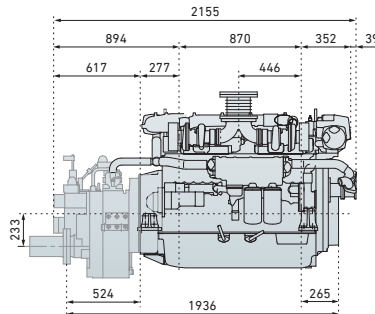
■ Engine only / Right side view



■ With YXH160 gearbox / Rear view



■ With YXH160 gearbox / Right side view



— Marine gear

6HYM-WET

S-rating 515kW [700mhp] (For planing hull)



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

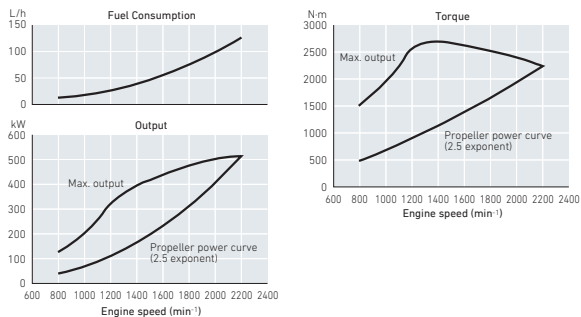
Specifications

Model	6HYM-WET S-rating	
Number of cylinders	6 in-line	
Bore × stroke	mm	132.9 × 165
Displacement	lit.	13.733
Rated output	kW[mhp]/rpm	515[700]/2200
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 14 in.	
Dry mass	kg	1385 [without marine gear]
Dimensions [L×W×H]	mm	1556×1014×1133

Marine gear specifications / Engine model : 6HYM-WET S-rating

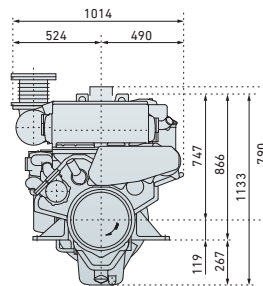
Model	YXH-160
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.97 2.46 3.05
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight	kg 396

Performance curves

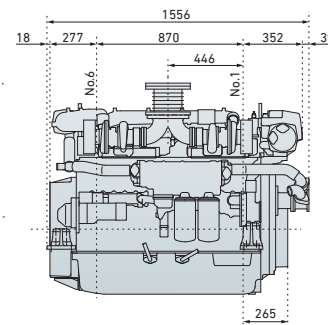


Dimensions [mm]

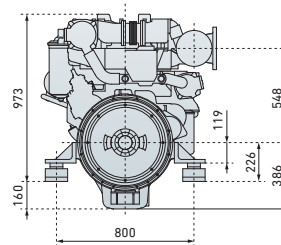
■ Engine only / Front view



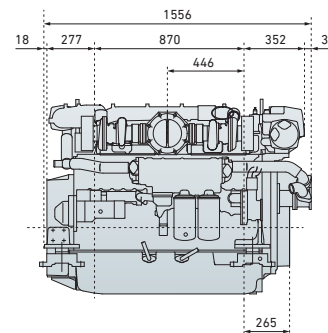
■ Engine only / Right side view



■ Engine only / Rear view



■ Engine only / Left side view



6AYM-WST

Continuous-rating 485kW [659mhp]



- 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.

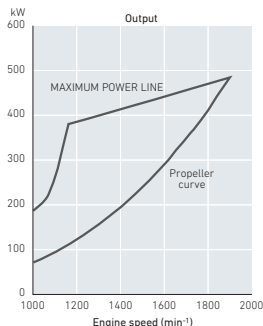
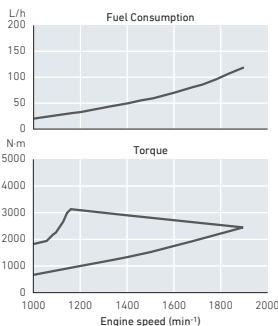
Specifications

Model	6AYM-WST C-rating	
Number of cylinders	6 in-line	
Bore × stroke	mm	155 × 180
Displacement	lit.	20.379
Rated output	kW[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 #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-WST C-rating

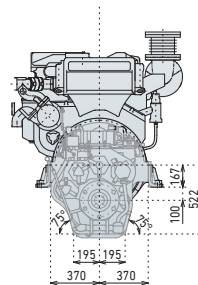
Model	YX-181	YX-180L	YXH-240L
Type	Hydraulic multi-disc clutch		
Reduction ratio [Ahead]	2.08 2.55 3.03	3.50 4.00 4.54	4.13 4.48 4.89 5.36 5.91 6.57 6.95
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise		
Dry weight	kg	560	680
			1240

Performance curves

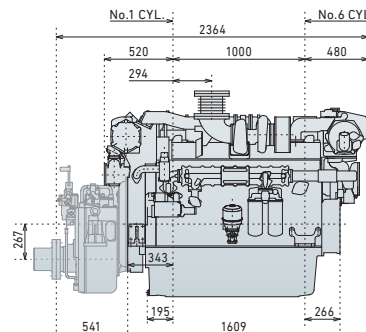


Dimensions [mm]

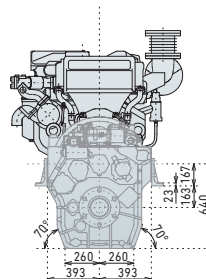
■ With YX181 gearbox / Rear view



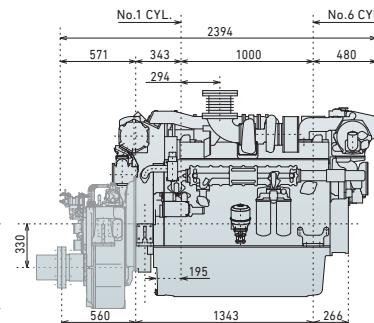
■ With YX181 gearbox / Right side view



■ With YX180L gearbox / Rear view



■ With YX180L gearbox / Right side view



— Marine gear

6AYM-WET

Continuous-rating 555kW [755mhp]



- 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.

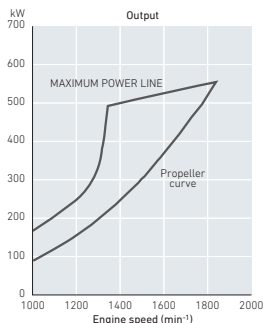
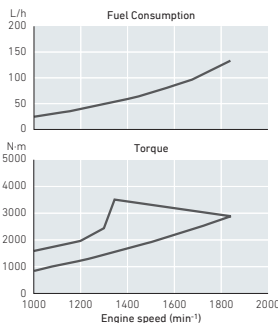
Specifications

Model	6AYM-WET C-rating	
Number of cylinders	6 in-line	
Bore × stroke	mm	155 × 180
Displacement	lit.	20.379
Rated output	kW[mhp]/rpm	C : 555[755]/1840
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-WET C-rating

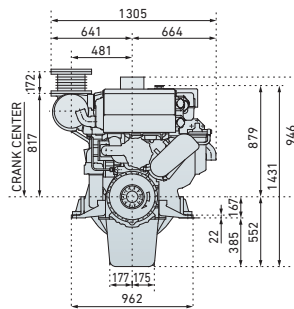
Model	YXH-240	YXH-240L
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.95 2.27 2.56	4.13 4.48 4.89 5.36
	3.03 3.48	5.91 6.57 6.95
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	kg	632 1240

Performance curves

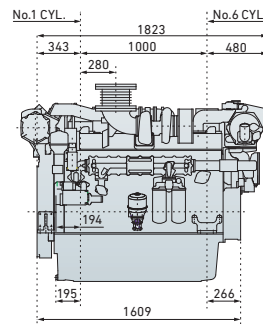


Dimensions [mm]

■ Engine only / Front view

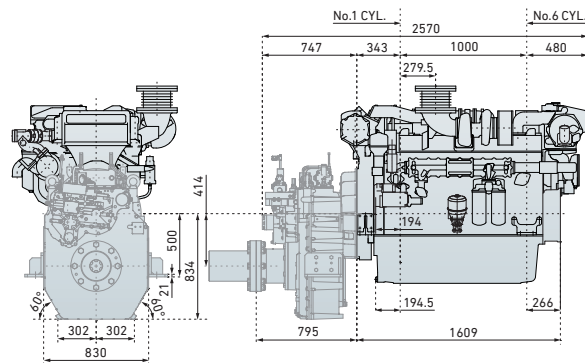


■ Engine only / Right side view



■ With YXH240L gearbox / Rear view

■ With YXH240L gearbox / Right side view



— Marine gear

6AYM-WET

M-rating 610kW [829mhp]



- 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.

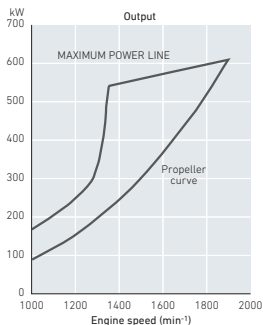
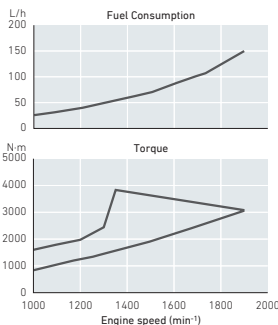
Specifications

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 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-WET M-rating

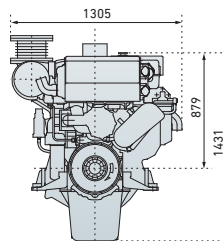
Model	YXH-240	YXH-240L
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48	4.13 4.48 4.89 5.36 5.91 6.57 6.95
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	kg	632

Performance curves

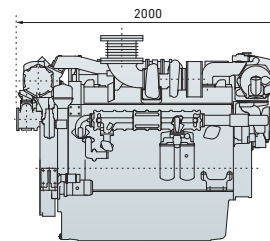


Dimensions [mm]

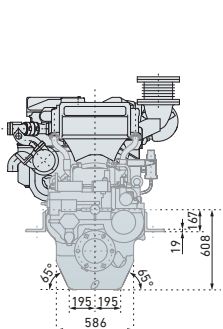
■ Engine only / Front view



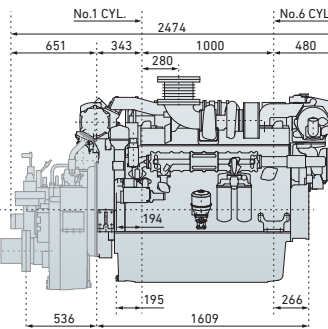
■ Engine only / Right side view



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



– Marine gear

6AYM-WGT

L-rating 670kW [911mhp]



- 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.

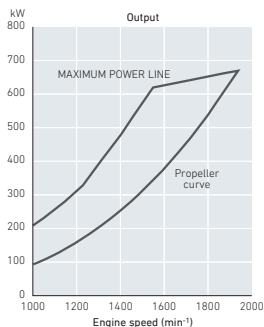
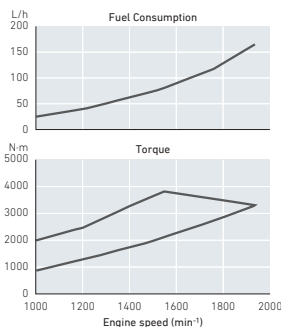
Specifications

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

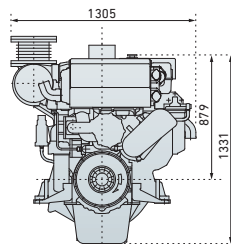
Model	YXH-240
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight	kg 632

Performance curves

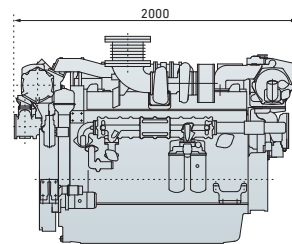


Dimensions [mm]

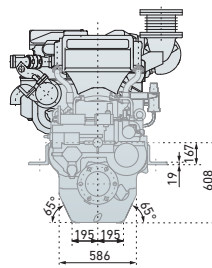
■ Engine only / Front view



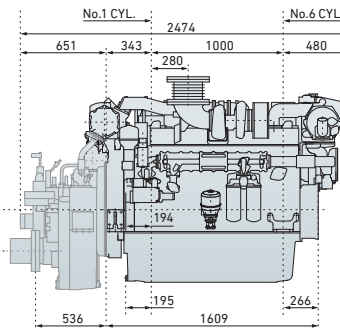
■ Engine only / Right side view [Shallow sump]



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



– Marine gear

6AYEM-ST [EPA TierⅢ] [China Marine Regulation, Stage I & II]

Continuous-rating **485kW [659mhp]**



- 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 TierⅢ emissions regulations.

Specifications

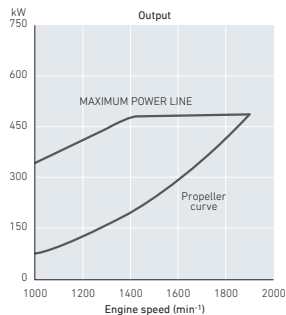
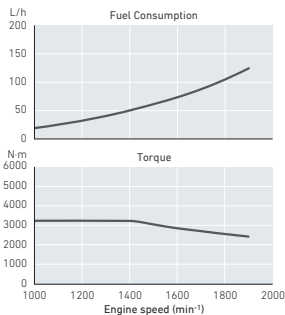
Model	6AYEM-ST	
Number of cylinders	6 in-line	
Bore × stroke	mm	155 × 180
Displacement	lit.	20.379
Rated output	kW[mhp]/rpm	C : 485[659]/1900
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 8.0kW]	
Cooling system	Heat exchanger	
Size of flywheel housing and flywheel	SAE #0 and 18 in.	
Dry mass	kg	2365 [without marine gear]
Dimensions [L×W×H]	mm	2000×1305×1531

Marine gear specifications / Engine model : 6AYEM-ST

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

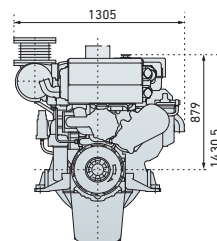
Performance curves

■ Continuous-rating

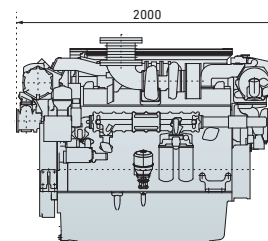


Dimensions [mm]

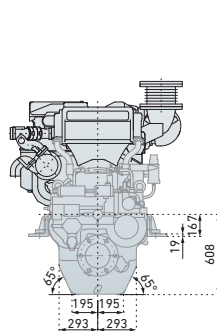
■ Engine only / Front view



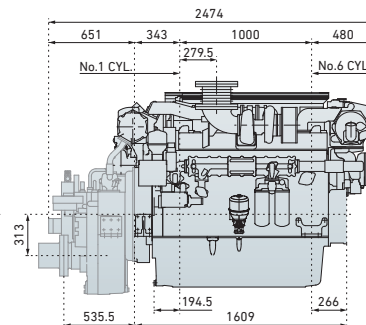
■ Engine only / Right side view



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



— Marine gear

6AYEM-ET [IMO TierⅢ]

Continuous-rating **555kW [755mhp]**

M-rating **610kW [829mhp]**



- 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

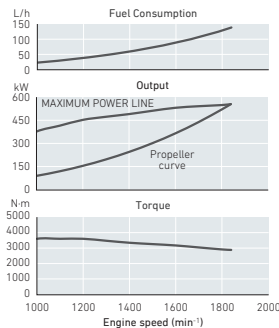
Model	6AYEM-ET
Number of cylinders	6 in-line
Bore × stroke	mm 155 × 180
Displacement	lit. 20.379
Rated output	kW[mhp]/rpm C : 555[755]/1840 M : 610[829]/1900
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW]
Cooling system	Heat 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

Marine gear specifications / Engine model : 6AYEM-ET

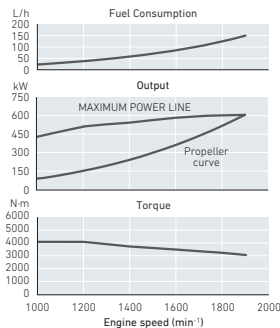
Model	YXH-240-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight	kg 632

Performance curves

■ Continuous-rating

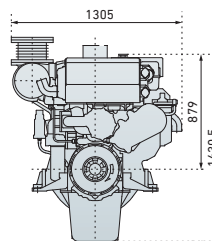


■ M-rating

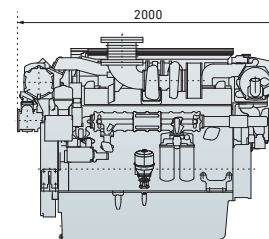


Dimensions [mm]

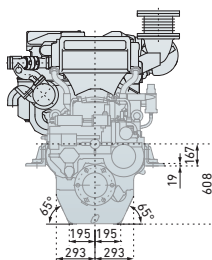
■ Engine only / Front view



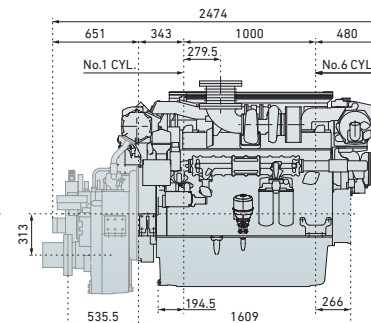
■ Engine only / Right side view



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



– Marine gear

6AYEM-ET [EPA TierⅢ] [China Marine Regulation, Stage I & II]

H-rating 599kW [814mhp]



- 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

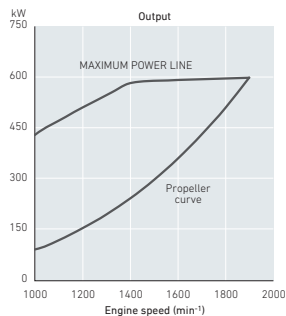
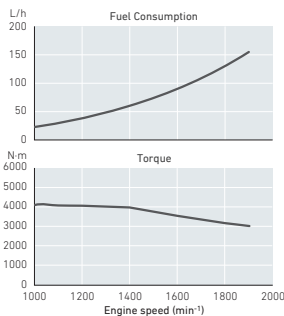
Model	6AYEM-ET	
Number of cylinders	6 in-line	
Bore × stroke	mm	155 × 180
Displacement	lit.	20.379
Rated output	kW[mhp]/rpm	H : 599[814]/1900
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor [24V 8.0kW]	
Cooling system	Heat exchanger	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

Marine gear specifications / Engine model : 6AYEM-ST

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

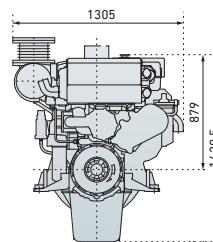
Performance curves

■ H-rating

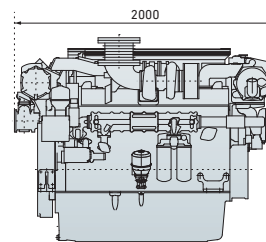


Dimensions [mm]

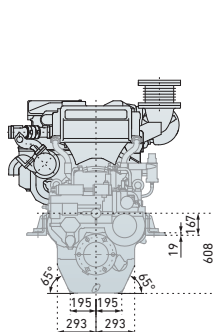
■ Engine only / Front view



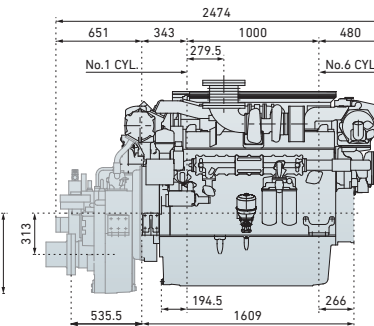
■ Engine only / Right side view



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



— Marine gear

6AYEM-GT

L-rating 670kW [911mhp] [IMO Tier III]

S-rating 737kW [1002mhp]

S-rating 749kW [1018mhp] [IMO Tier III] [EPA Tier 4]



- 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

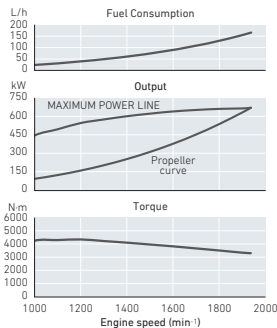
Model	6AYEM-GT
Number of cylinders	6 in-line
Bore × stroke	155 × 180
Displacement	lit. 20.379
Rated output	kW[mhp]/rpm L: 670[911]/1938 S: 737[1002]/2000, S: 749[1018]/2000
Combustion system	Direct injection
Aspiration	Turbocharger + intercooler
Starting system	Electric starting motor [24V 8.0kW]
Cooling 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

Marine gear specifications / Engine model : 6AYEM-GT

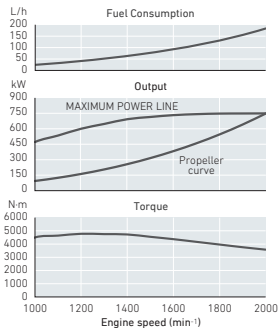
Model	YXH-240-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight	kg 632

Performance curves

L-rating

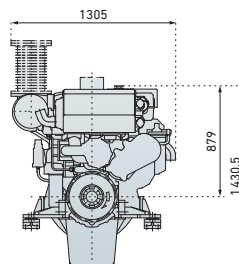


S-rating

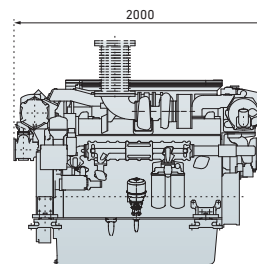


Dimensions [mm]

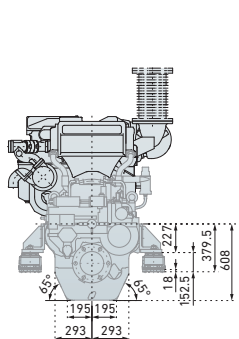
Engine only / Front view



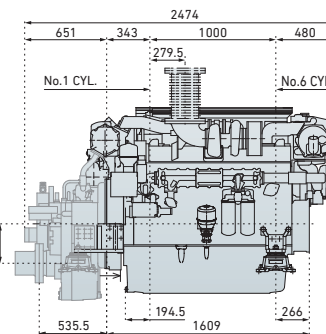
Engine only / Right side view [Shallow sump]



With YXH240 gearbox / Rear view



With YXH240 gearbox / Right side view



– Marine gear

12AYM-WST

H-rating 882kW [1199mhp]

H-rating 1030kW [1400mhp]



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

Specifications

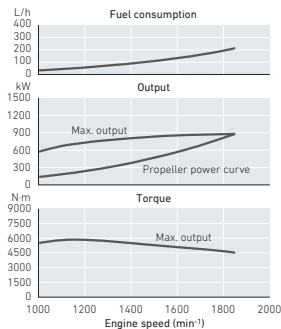
Model	12AYM-WST H-rating	
Number of cylinders	12 V-type	
Bore × stroke	mm	155 × 180
Displacement	lit.	40.76
Rated output	kW[mhp]/rpm	H : 882[1199]/1850 H : 1030[1400]/1900
Combustion system	Direct injection	
Aspiration	Turbocharger + intercooler	
Starting system	Electric starting motor (24V 8.0kW) × 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

Marine gear specifications / Engine model : 12AYM-WST H-rating

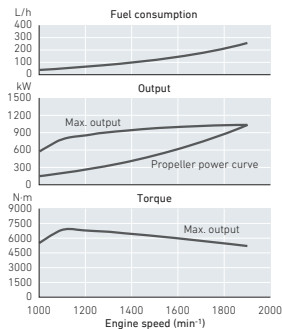
Model	YXH-500-1	YXH-500L-1
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	2.53 3.04 3.48	3.57 4.07 4.48 4.96
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	kg	1620
Live PTO	-	SAE B-B, B, C-C, C

Performance curves

■ H rating 882kW [1199mhp]



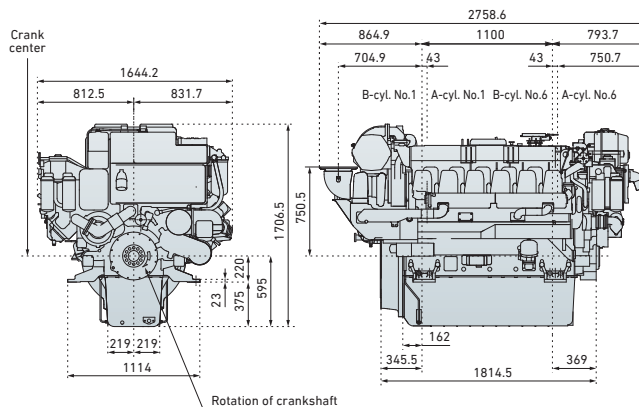
■ H rating 1030kW [1400mhp]



Dimensions [mm]

■ Engine only / Front view

■ Engine only / Right side view



12AYM-WET

H-rating 1140kW [1550mhp]

M-rating 1220kW [1659mhp]

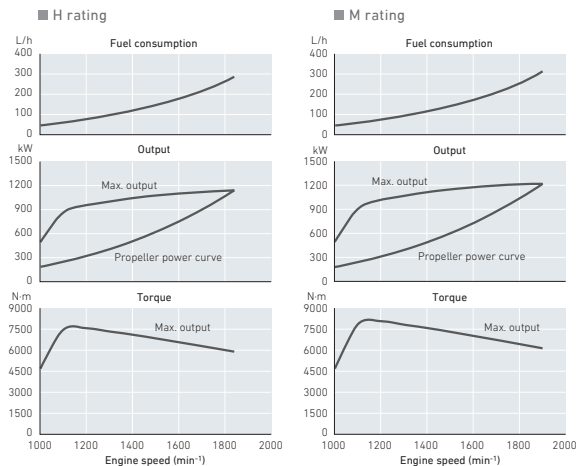


- V-type, 12-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.

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

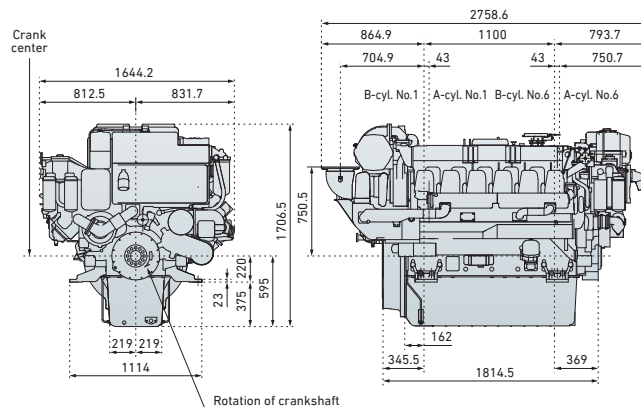
Performance curves



Dimensions [mm]

■ Engine only / Front view

■ Engine only / Right side view



12AYM-WGT

L-rating 1340kW [1822mhp]

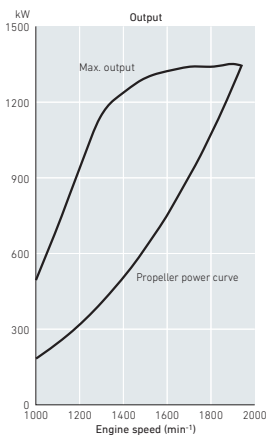
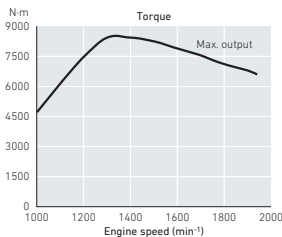
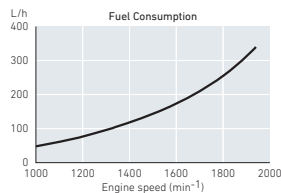


- V-type, 12-cylinder, direct injection, heat exchanger cooling.
- Turbocharger + intercooler.
- 4-valves per cylinder for higher combustion efficiency.
- Conform to IMO Tier II emissions regulations.

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

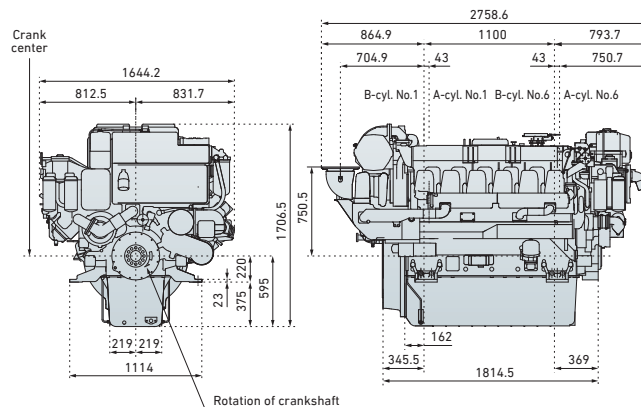
Performance curves



Dimensions [mm]

■ Engine only / Front view

■ Engine only / Right side view



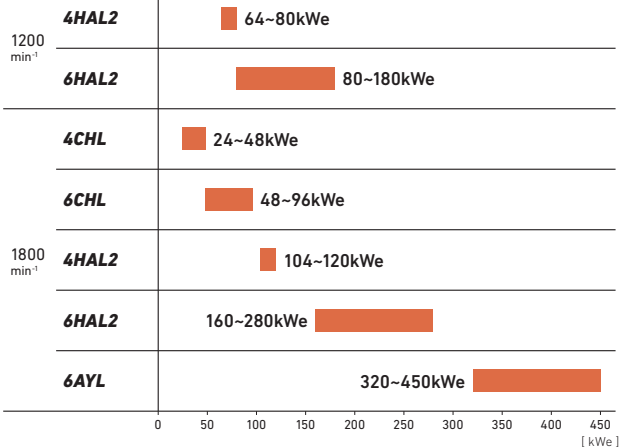
MARINE AUXILIARY

DIESEL ENGINE
LINE-UP

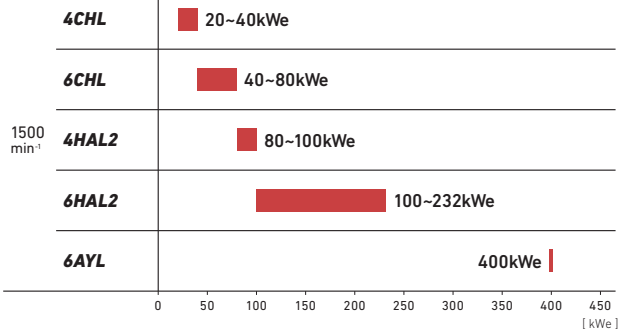


Generator Capacity

60Hz



50Hz



4CHL

Generator Capacity
20~48kWe



Specifications

Engine Model	4CHL-N				4CHL-TN		4CHL-TNA	
Type	Vertical, Water-cooled, 4-stroke Diesel							
No. of Cylinders	In-line 4							
Cylinder Bore × Stroke	mm 105×125							
Continuous Rated Output	27.9 [38]		36.8 [50]		36.8 [50]	45.6 [62]	45.6 [62]	54.4 [74]
Generator Capacity	kW[PS]							
	20 [25]	24 [30]	24 [30]	32 [40]	32 [40]	40 [50]	40 [50]	48 [60]
Engine Speed	min ⁻¹		1500		1800		1500	1800
Combustion system	Direct injection							
Starting system	Electric Starting or Air-motor starting							
Dry Weight	kg		500		520			
Total Weight [Gen.Set]	kg		940		990		1040	1090

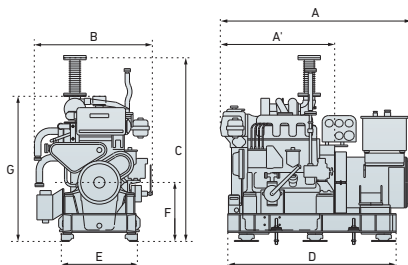
The engine dry weight may differ depending upon the specifications and attached accessories.
Above generator capacity will vary according to actual generator efficiency.

- In case of 4CHL-TNA, continuous load operation shall be 80% or below of rated power, and 100% load operation shall be within 2 hours per 12 hours.

Dimensions [mm]

Models	4CHL-N	4CHL-TN	4CHL-TNA
A	1552	1532	1572
A'	917	917	917
B	947	947	947
C	1350.5	1473	1473
D	1350	1350	1420
E	610	610	610
F	473	473	473
G	1164	1164	1164

Depending on the specifications or options that have been chosen,
your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

6CHL

Generator Capacity
40~96kWe



Specifications

Engine Model	6CHL-N		6CHL-TN		6CHL-TNA		6CHL-HTN		6CHL-HTNA	
Type	Vertical, Water-cooled, 4-stroke Diesel									
No. of Cylinders	In-line 6									
Cylinder Bore × Stroke	mm 105×125									
Continuous Rated Output	45.6	54.4	54.4	73.6	67.7	89.7	73.6	88.3	91.9	107
	[62]	[74]	[74]	[100]	[92]	[122]	[100]	[120]	[125]	[145]
Generator Capacity	40	48	48	64	60	80	64	80	80	96
	[50]	[60]	[60]	[80]	[75]	[100]	[80]	[100]	[100]	[120]
Engine Speed	min ⁻¹	1500	1800	1500	1800	1500	1800	1500	1800	1800
Combustion system	Direct injection									
Starting system	Electric Starting or Air-motor starting									
Dry Weight	kg	625	645		645		675		675	
Total Weight [Gen.Set]	kg	1220	1350		1350		1380		1540	

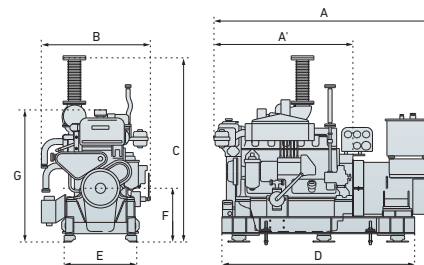
The engine dry weight may differ depending upon the specifications and attached accessories.
Above generator capacity will vary according to actual generator efficiency.

- In case of 6CHL-TNA / 6CHL-HTNA, continuous load operation shall be 80% or below of rated power, and 100% load operation shall be within 2 hours per 12 hours.

Dimensions [mm]

Models	6CHL-N	6CHL-TN	6CHL-TNA	6CHL-HTN	6CHL-HTNA
A	1861	1926	1926	1946	2051
A'	1206	1206	1206	1256	1256
B	962	962	962	962	962
C	1382	1624	1624	1624	1634
D	1650	1700	1700	1700	1900
E	640	640	640	640	640
F	474	474	474	474	484
G	1165	1165	1165	1165	1175

Depending on the specifications or options that have been chosen,
your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

4HAL2

Generator Capacity
64~120kWe



Specifications

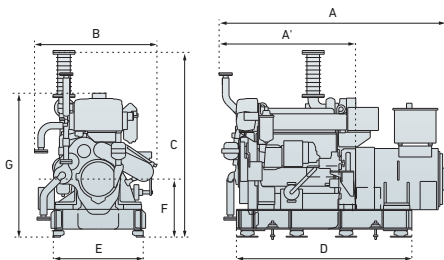
Engine Model	4HAL2-TN1			4HAL2-TN		4HAL2-WT
Type	Vertical, Water-cooled, 4-stroke Diesel					
No. of Cylinders	In-line 4					
Cylinder Bore × Stroke	mm 130×165					
Continuous Rated Output	72	89	116	90	115	135
kW[PS]	[98]	[121]	[157]	[122]	[156]	[183]
Generator Capacity	64	80	104	80	100	120
kWe[kVA]	[80]	[100]	[130]	[100]	[125]	[150]
Engine Speed	min ⁻¹ 1200	1500	1800	1200	1500	1800
Combustion system	Direct injection					
Starting system	Electric Starting or Air-motor starting					
Dry Weight	kg	1030				
Total Weight [Gen.Set]	kg	1855				

The engine dry weight may differ depending upon the specifications and attached accessories.
Above generator capacity will vary according to actual generator efficiency.

Dimensions [mm]

Models	4HAL2-TN1	4HAL2-TN	4HAL2-WT
A	2070	2070	2070
A'	1245	1245	1245
B	1117	1117	1117
C	1685	1685	1685
D	1600	1600	1600
E	820	820	820
F	529	529	529
G	1312	1312	1312

Depending on the specifications or options that have been chosen,
your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

6HAL2

Generator Capacity
80~280kWe



Specifications

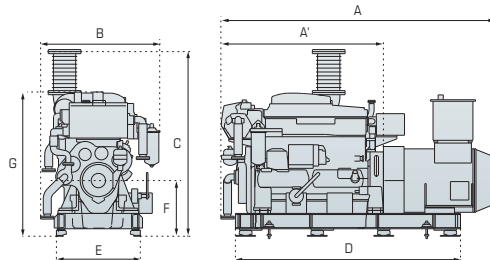
Engine Model	6HAL2-N		6HAL2-TN	6HAL2-WT	6HAL2-WHT		6HAL2-WDT					
Type	Vertical, Water-cooled, 4-stroke Diesel											
No. of Cylinders	In-line 6											
Cylinder Bore × Stroke	mm 130×165											
Continuous Rated Output	90	115	120	150	180	160	220	265	200	255	305	
	kw[PS]	[122]	[156]	[163]	[204]	[244]	[217]	[299]	[360]	[271]	[346]	[414]
Generator Capacity	80	100	104	136	160	144	200	240	180	232	280	
	kWe[kVA]	[100]	[125]	[130]	[170]	[200]	[180]	[250]	[300]	[225]	[290]	[350]
Engine Speed	min ⁻¹	1200	1500	1200	1500	1800	1200	1500	1800	1200	1500	1800
Combustion system	Direct injection											
Starting system	Electric Starting or Air-motor starting											
Dry Weight	kg	625		1422		1437		1447				
Total Weight [Gen.Set]	kg	1220		2410		2750		2850				

The engine dry weight may differ depending upon the specifications and attached accessories.
Above generator capacity will vary according to actual generator efficiency.

Dimensions [mm]

Models	6HAL2-N	6HAL2-TN	6HAL2-WT	6HAL2-WHT	6HAL2-WDT
A	2499	2499	2499	2574	2684
A'	1589	1589	1589	1589	1589
B	1164	1164	1164	1164	1164
C	1654	1774	1774	1804	1804
D	2100	2100	2100	2200	2200
E	820	820	820	820	820
F	544	544	544	544	544
G	1327	1327	1327	1327	1327

Depending on the specifications or options that have been chosen,
your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

6AYL [IMO TierⅢ]

Generator Capacity
320~450kWe



Specifications

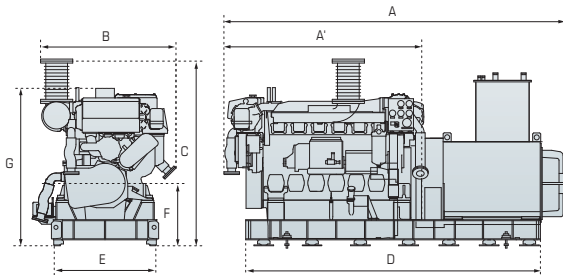
Engine Model	6AYL-WST		6AYL-WET	
Type	Vertical, Water-cooled, 4-stroke Diesel			
No. of Cylinders	In-line 4			
Cylinder Bore × Stroke mm	155×180			
Continuous Rated Output	353	438	491	
kW[PS]	[480]	[596]	[668]	
Generator Capacity	320	400	450	
kWe[kVA]	[400]	[500]	[562.5]	
Engine Speed min ⁻¹	1800	1500	1800	
Combustion system	Direct injection			
Starting system	Electric Starting or Air-motor starting			
Dry Weight kg	2475	2475		
Total Weight [Gen.Set] kg	4600	4750		

The engine dry weight may differ depending upon the specifications and attached accessories.
Above generator capacity will vary according to actual generator efficiency.

Dimensions [mm]

Models	6AYL-WST	6AYL-WET
A	2970	3040
A'	1860	1860
B	1445	1445
C	1836	1836
D	2540	2600
E	1030	1030
F	619	619
G	1565	1565

Depending on the specifications or options that have been chosen,
your model may differ slightly from the one in the photograph and outline.



G : Minimum Height for Removing Piston (Not included the dimension for bolt fitting to piston remove.)

• The various usage conditions, usage purposes, functions, terminology and expressions given in this catalogue are based on YANMAR CO., LTD. standards.

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