YANMAR

MARINE DIESEL ENGINE
HIGH SPEED PRODUCTS GUIDE

MARINE PROPULSION

POWER RANGE [25.7~1340kW]

MARINE AUXILIARY

GENERATOR CAPACITY [20~450kWe]

YANMAR

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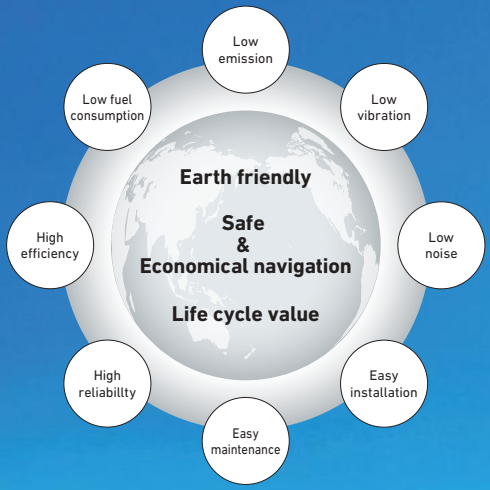
Limitless Blue Skies and Oceans



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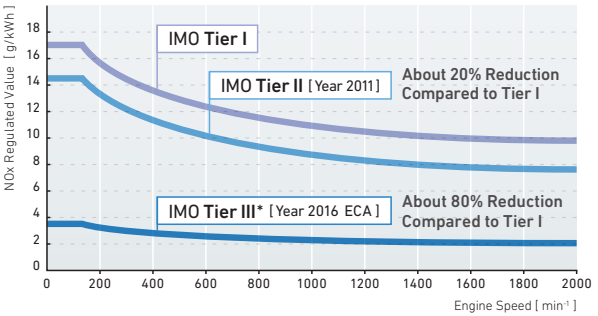
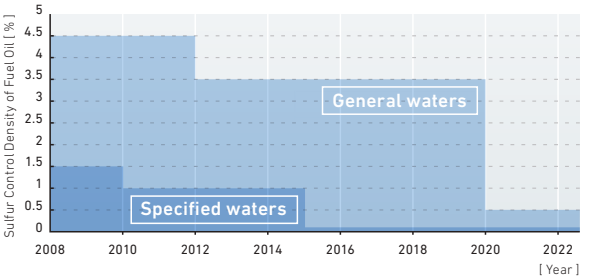
Clean and Reliable Technology

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

Large Power Products Business

Assembly Process [Cell]

Tsukaguchi Plant

The YANMAR Large Power Products 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.

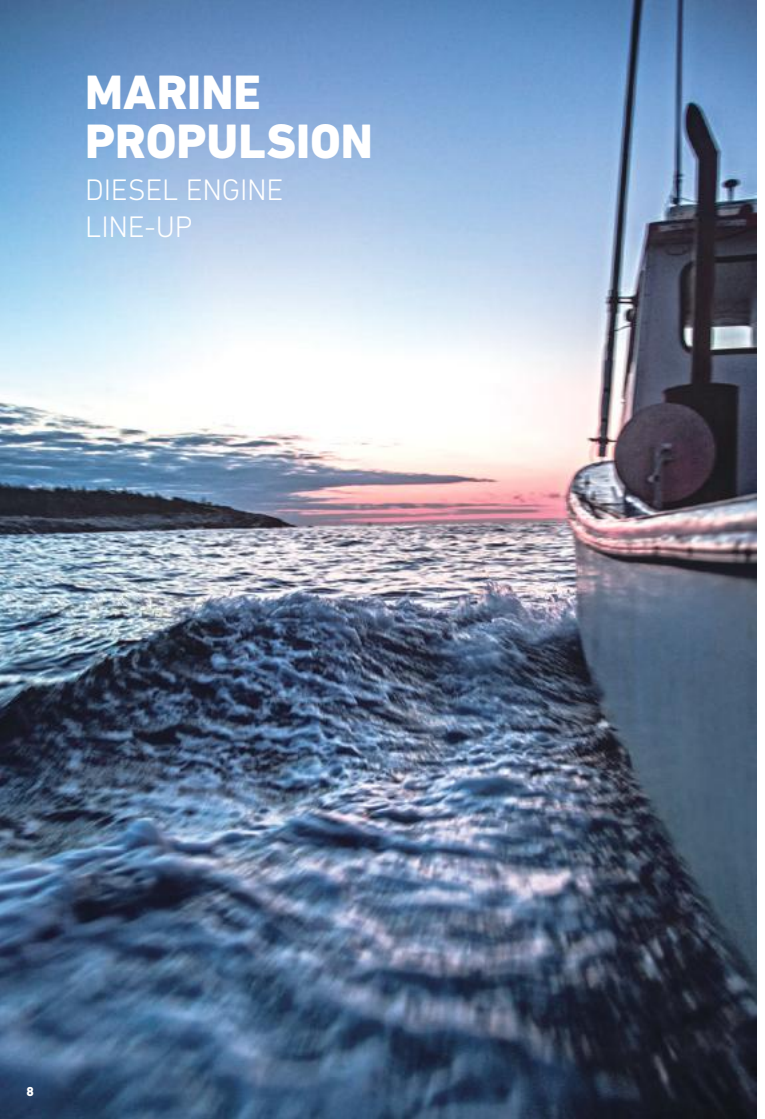
Certified by the seven major classification societies.

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

Certifications of 7 major shipping classification societies

LR [Lloyd's 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	Raiting	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
6CXBM-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
6AYAM-ET	Cont.	555kW [EPA TierIII]
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]
6AYEM-GT	L	670kW
	S	737~749kW
12AYM-WST	H	882~1030kW
12AYM-WET	H	1140kW
	M	1220kW
12AYM-WGT	L	1340kW
12AYEM-ST	Cont.	1030kW
12AYEM-ET	H	1140kW
	M	1220kW
12AYEM-GT	L	1340kW

0 200 400 600 800 1000 1200 1400 [kW]

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

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		Mediuam Duty	Heavy Duty	
	S-rating	L-rating	M-rating	H-rating	Continuous
Aunal maximum operation hours/year	1000hrs or below	2500hrs or below	4000hrs or below	6000hrs or below	No Limit
Continuois 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 difinition apply for new engine that sold after 1st April 2015.

Note : All Data Subject to Change Without Notice.
Photograph may show optional equipment.

4JHYE

M•L-rating **25.7~29.4kW [35~38mhp]**

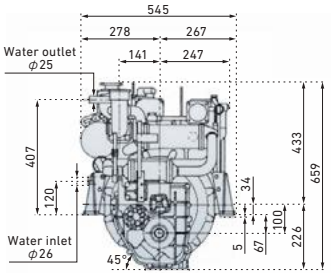
- 4-cylinder, direct injection, heat exchanger cooling.
- Natural aspiration.
- Yanmar YX marine gear is standard.

Specifications

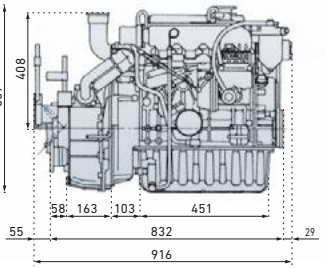
Model		4JHYE
Number of cylinders		4 in-line
Bore × stroke	mm	78 × 86
Displacement	lit.	1.644
Fuel stop output	kW(mhp)/rpm	M : 25.7(35)/3400 L : 29.4(38)/3600
Combustion system		Direct injection
Aspiration		Natural aspirated
Starting system		Electric motor (12V 1.8kW)
Cooling system		Heat exchanger
Marine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

Dimensions [mm]

Rear view



Right side view



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.

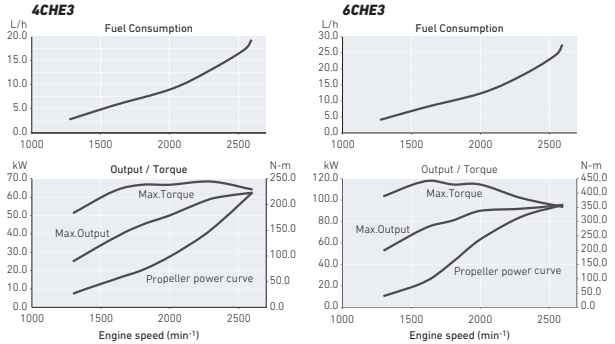
Specifications

Model		*4CHE3*	*6CHE3*
Number of cylinders		4 in-line	6 in-line
Bore × stroke	mm	105 × 125	
Displacement	lit.	4.330	6.494
Fuel stop output	kW[mhp]/rpm	M : 57.4[78]/2550	M : 84.6[115]/2550
		L : 62.5[85]/2600	L : 95.6[130]/2600
Combustion system		Direct injection	
Aspiration		Natural aspirated	
Starting system		Electric starting motor [24V 4.5kW]	
Cooling system		Heat exchanger	
Marine gear		Hydraulic	
Size of flywheel housing and flywheel		SAE #3 and 11-1/2 in.	
Dry mass	kg	570	700
Dimensions [L×W×H]	mm	1258×688×1022 with YX30	1496×690×1018 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	70

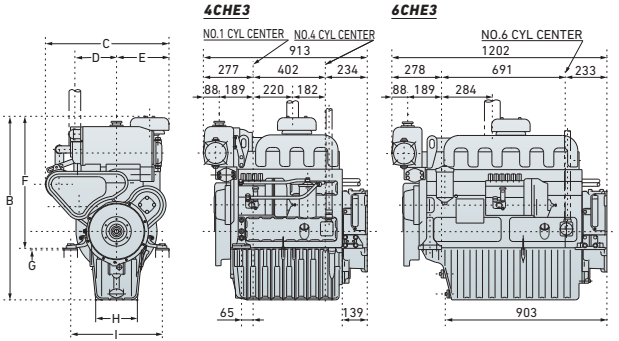
Performance curves



Dimensions [mm]

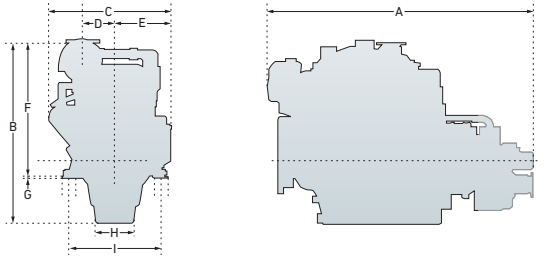
■ Engine only / Front view

■ 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

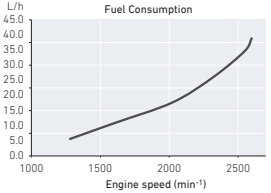
Model		6CH-HTE3
Number of cylinders		6 in-line
Bore × stroke	mm	105 × 125
Displacement	lit.	6.494
Fuel stop output		M : 125[170]/2550
	kW[mhp]/rpm	L : 140[190]/2600
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 4.5kW]
Cooling 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]

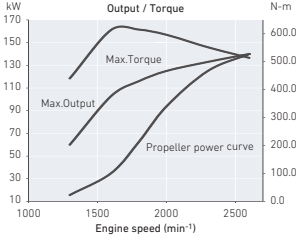
Marine gear specifications / Engine model : 6CH-HTE3

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

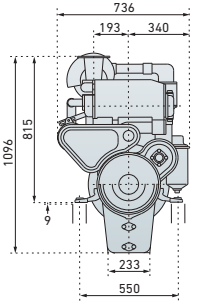
6CH-HTE3



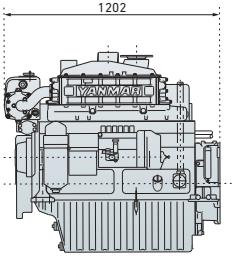


Dimensions [mm]

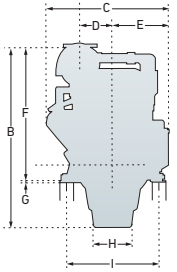
■ Engine only / Front view



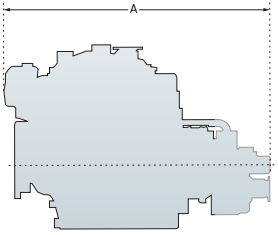
■ Engine only / Left side view



■ 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 ll emissions regulations.

Specifications

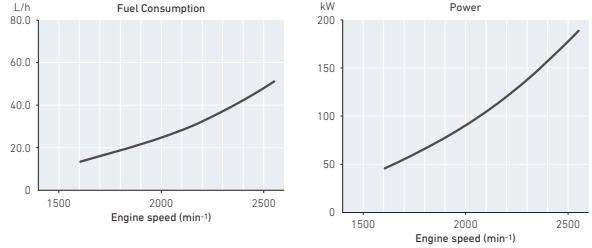
Model		6CH-WDTE
Number of cylinders		6 in-line
Bore × stroke	mm	105 × 125
Displacement	lit.	6.494
Fuel stop output	kW[mhp]/rpm	M : 154[209]/2550 L : 169[230]/2600
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 4.5kW]
Cooling system		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

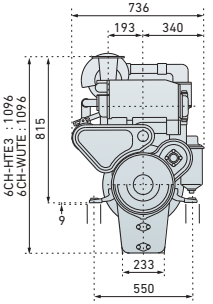
Performance curves

6CH-WDTE

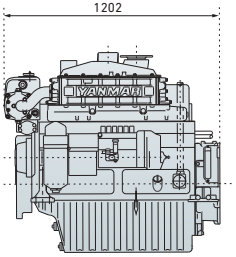


Dimensions [mm]

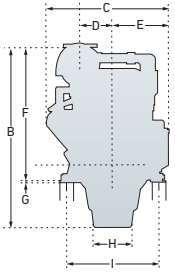
■ Engine only / Front view



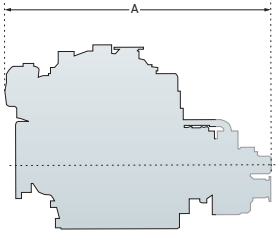
■ Engine only / Left side view



■ 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 [255~280mhp]

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

Specifications

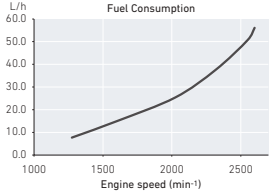
Model		*6CH-WUTE*
Number of cylinders		6 in-line
Bore × stroke	mm	105 × 125
Displacement	lit.	6.494
Fuel stop output	kW[mhp]/rpm	M : 188[255]/2550 L : 206[280]/2600
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 4.5kW]
Cooling 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

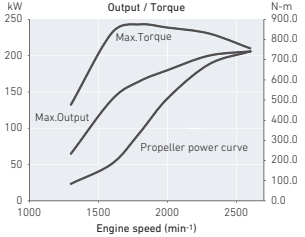
Marine gear specifications / Engine model : *6CH-WUTE*

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

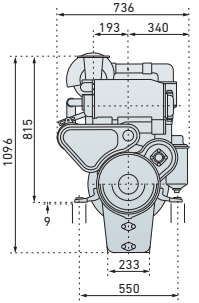
6CH-WUTE



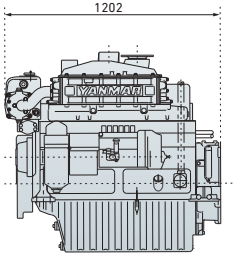


Dimensions [mm]

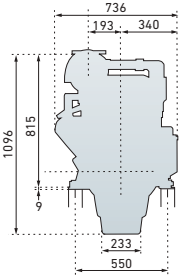
■ Engine only / Front view



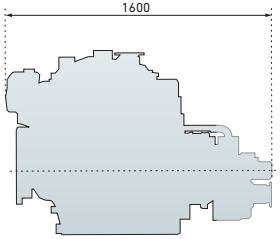
■ Engine only / Left side view



■ 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.

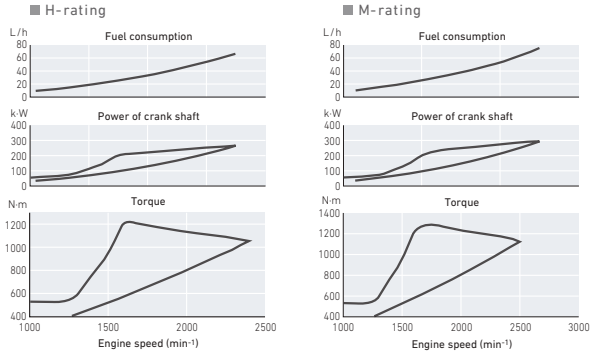
Specifications

Model		6CXBM-GT
Number of cylinders		6 in-line
Bore × stroke	mm	110 × 130
Displacement	lit.	7.413
Rated output	kW[mhp]/rpm	H : 265[360]/2400 M : 294[400]/2500
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

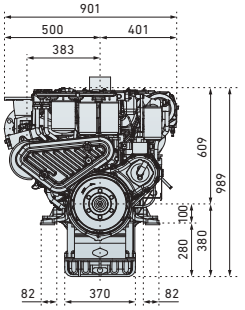
Model	YX-80
Type	Hydraulic multi-disc clutch, wet type
Reduction ratio [Ahead]	2.07 2.58 2.91
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern
Dry weight kg	204

Performance curves

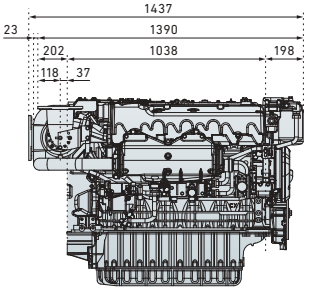


Dimensions [mm]

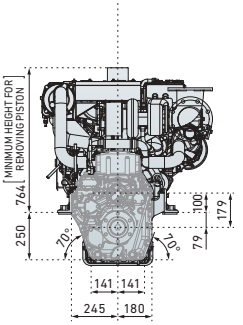
Engine only / Front view



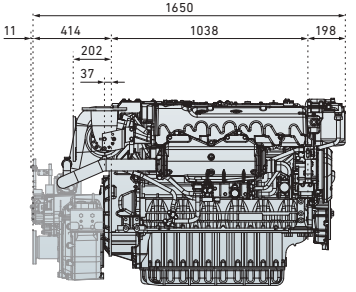
Engine only / Right side view



With YX80 gearbox / Rear view



With YX80 gearbox / Right side view



– Marine gear

6CXBM-GT

L-rating **341kW [464mhp]**

S-rating **374kW [508mhp]** (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.

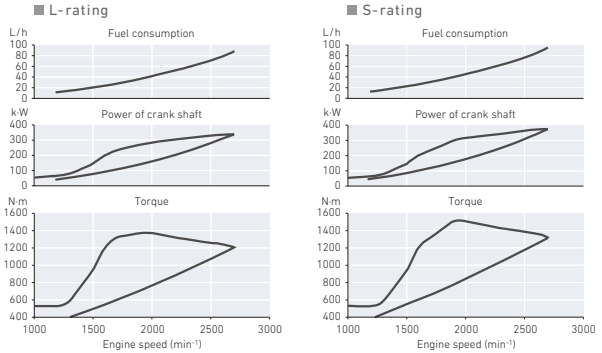
Specifications

Model		6CXBM-GT
Number of cylinders		6 in-line
Bore × stroke	mm	110 × 130
Displacement	lit.	7.413
Rated output	kW[mhp]/rpm	L : 341[464]/2700 S : 374[508]/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*

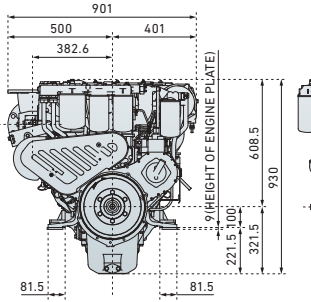
Model	YX-80
Type	Hydraulic multi-disc clutch, wet type
Reduction ratio [Ahead]	2.07 2.58 2.91
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise viewed from stern
Dry weight kg	204

Performance curves

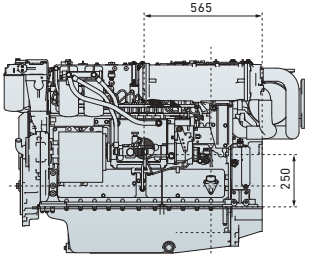


Dimensions [mm]

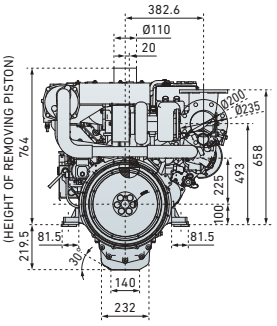
Engine only / Front view



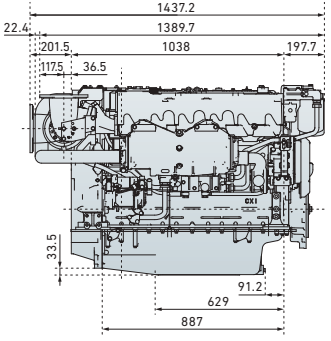
Engine only / Left side view



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 ll emissions regulations.

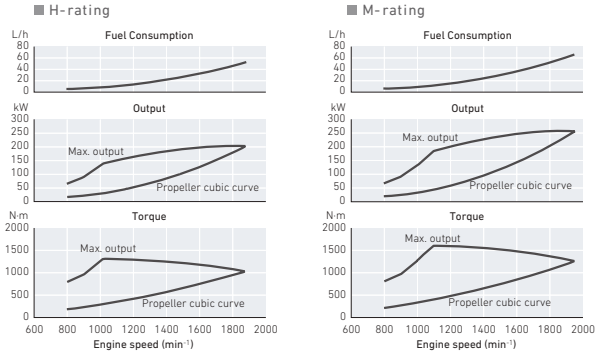
Specifications

Model		6HA2M-WHT
Number of cylinders		6 in-line
Bore × stroke	mm	130 × 165
Displacement	lit.	13.140
Rated output	kW[mhp]/rpm	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	kg	1455
Dimensions [L×W×H]	mm	1585×1016×1260

Marine gear specifications / Engine model : 6HA2M-WHT

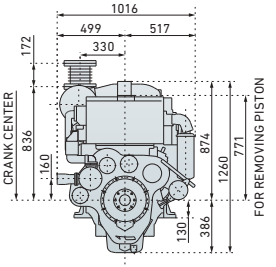
Model	YX-120	YX-120L
Type	Hydraulic multi-disc clutch, wet type	
Reduction ratio [Ahead]	2.03 2.57 3.04 3.55	4.00 4.59
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight kg	315	411

Performance curves

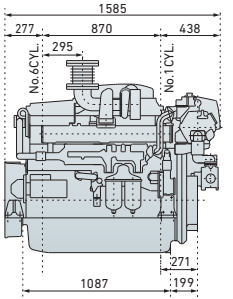


Dimensions [mm]

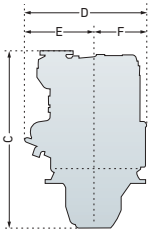
Engine only / Front view



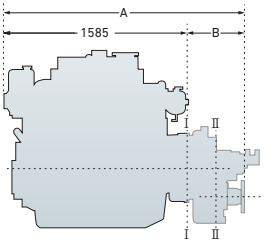
Engine only / Right side view



With YX120L gearbox / Front view



With YX120L gearbox / Left side view



Model	A	B	C	D	E	F
6HA2M-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 ll emissions regulations.

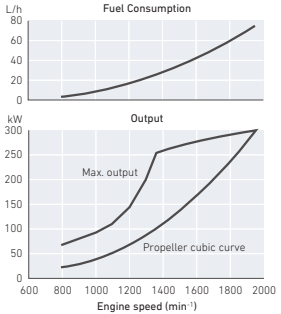
Specifications

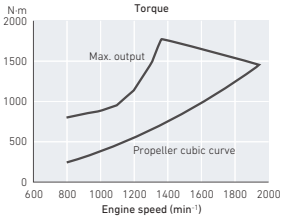
Model		6HA2M-WDT
Number of cylinders		6 in-line
Bore × stroke	mm	130 × 165
Displacement	lit.	13.140
Rated output	kW[mhp]/rpm	M : 298[405]/1950
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 6.0kW]
Cooling system		Heat exchanger
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

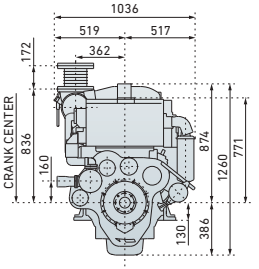
Performance curves



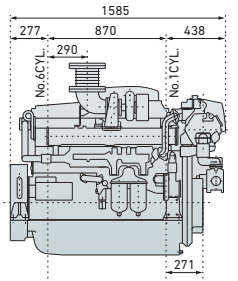


Dimensions [mm]

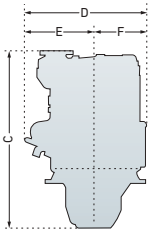
■ Engine only / Front view



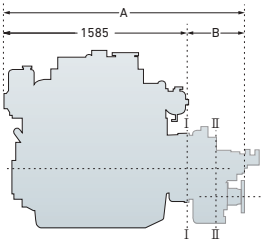
■ Engine only / Right side view



■ 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 ll emissions regulations.

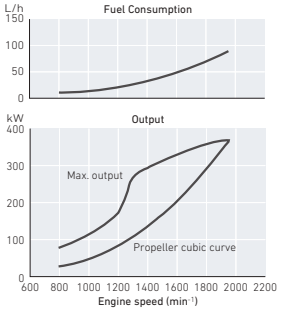
Specifications

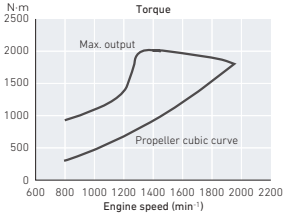
Model		*6HYM-WET H-rating*
Number of cylinders		6 in-line
Bore × stroke	mm	132.9 × 165
Displacement	lit.	13.733
Rated output	kW[mhp]/rpm	368[500]/1950
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 6.0kW]
Cooling system		Heat exchanger
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 2.46 3.05	3.65 4.08 4.55
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight kg	396	620

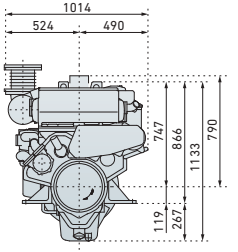
Performance curves



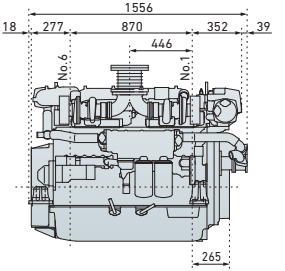


Dimensions [mm]

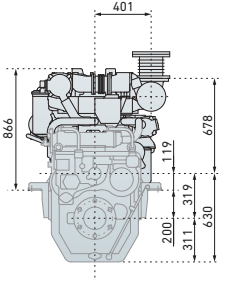
■ Engine only / Front view



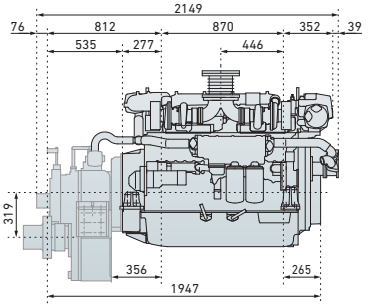
■ Engine only / Right side view



■ 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 ll emissions regulations.

Specifications

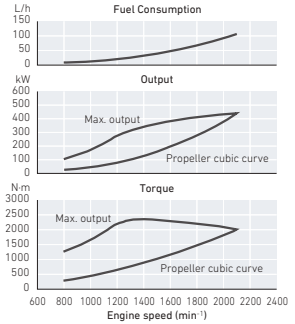
Model		6HYM-WET
Number of cylinders		6 in-line
Bore × stroke	mm	132.9 × 165
Displacement	lit.	13.733
Rated output	kW[mhp]/rpm	M : 441[600]/2100 L : 478[650]/2150
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 6.0kW]
Cooling system		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*

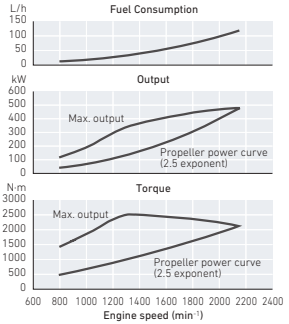
Model	YXH-160	YX-161L
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.97 2.46 3.05	3.65 4.08 4.55
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight kg	396	620

Performance curves

■ M-rating

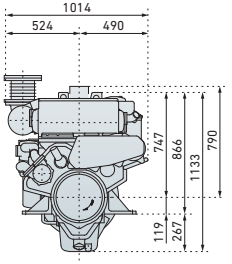


■ L-rating

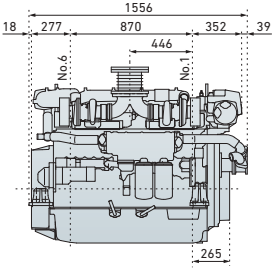


Dimensions [mm]

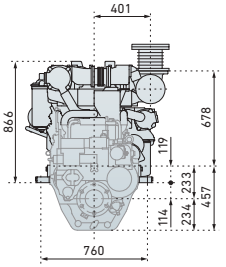
■ Engine only / Front view



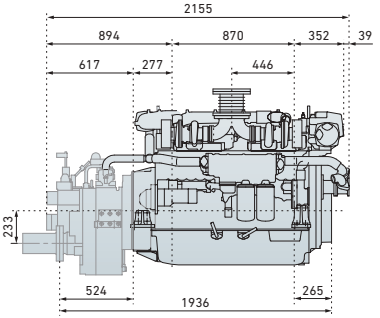
■ Engine only / Right side view



■ 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 ll emissions regulations.

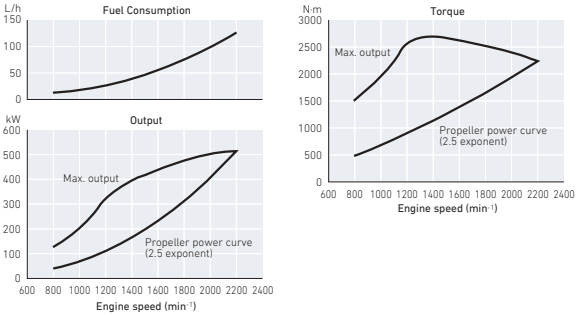
Specifications

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*

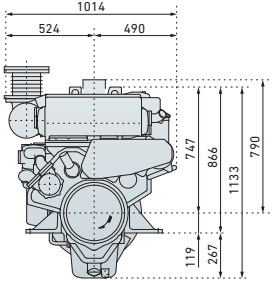
Model	*YXH-160*
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.97 2.46 3.05
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight kg	396

Performance curves

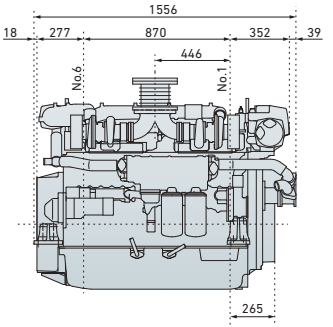


Dimensions [mm]

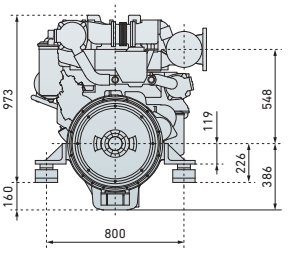
■ Engine only / Front view



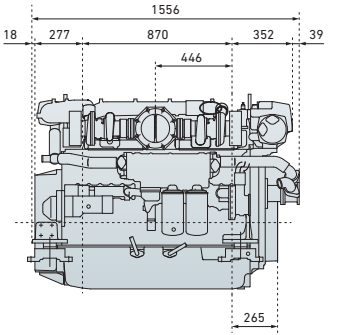
■ Engine only / Right side view



■ Engine only / Rear view



■ Engine only / Left 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 ll emissions regulations.

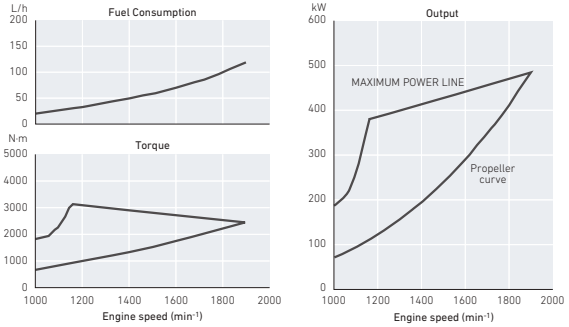
Specifications

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 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	2000×1305×1431

Marine gear specifications / Engine model : *6AYM-WST C-rating*

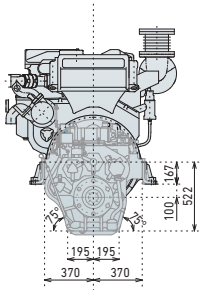
Model	*YX-181*	*YX-180L*	*YXH-240L*
Type	Hydraulic multi-disc clutch		
Reduction ratio [Ahead]	2.08 2.55 3.03	3.50 4.00 4.54	4.13 4.48 4.89 5.36 5.91 6.57 6.95
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise		
Dry weight kg	560	680	1240

Performance curves

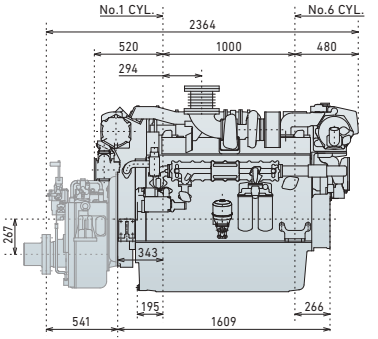


Dimensions [mm]

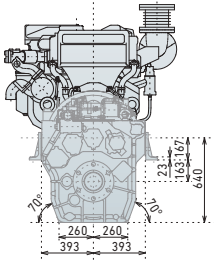
■ With YX181 gearbox / Rear view



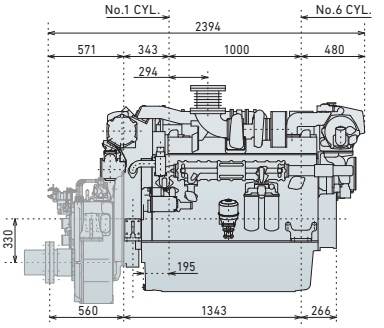
■ With YX181 gearbox / Right side view



■ 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 ll emissions regulations.

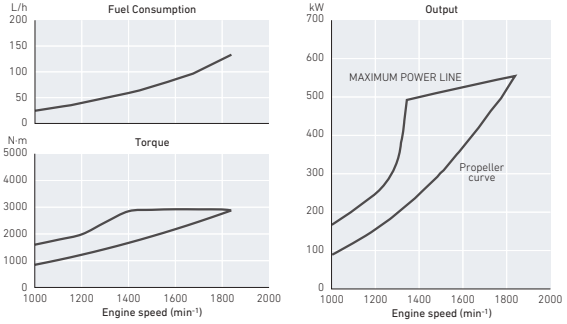
Specifications

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 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	2000×1305×1431

Marine gear specifications / Engine model : *6AYM-WET C-rating*

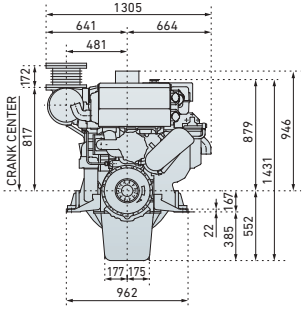
Model	*YXH-240*	*YXH-240L*
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48	4.13 4.48 4.89 5.36 5.91 6.57 6.95
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight kg	632	1240

Performance curves

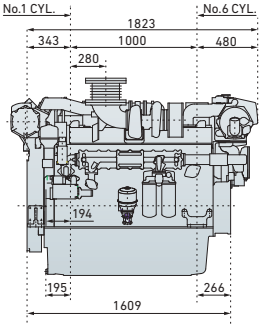


Dimensions [mm]

■ Engine only / Front view

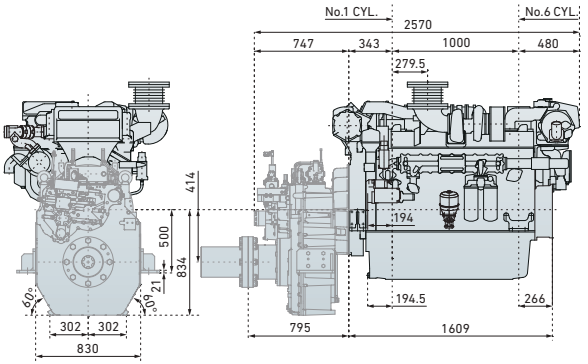


■ Engine only / Right side view



■ 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 ll emissions regulations.

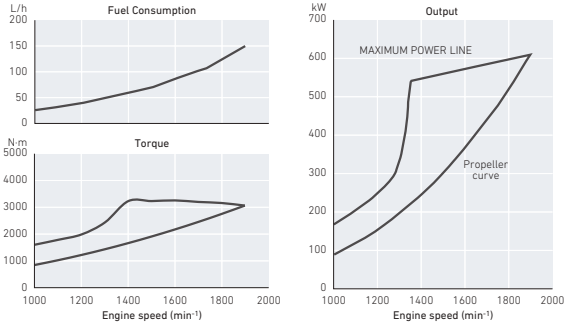
Specifications

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 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	2000×1305×1431

Marine gear specifications / Engine model : *6AYM-WET M-rating*

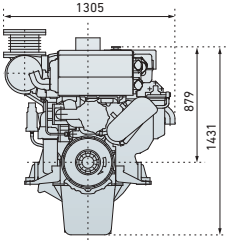
Model	*YXH-240*	*YXH-240L*
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48	4.13 4,48 4.89 5.36 5.91 6.57 6.95
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight kg	632	1240

Performance curves

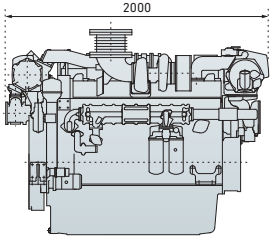


Dimensions [mm]

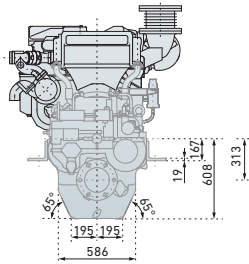
■ Engine only / Front view



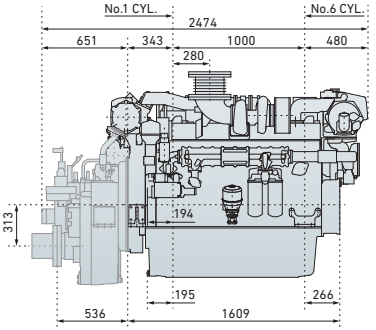
■ Engine only / Right side view



■ 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 ll emissions regulations.

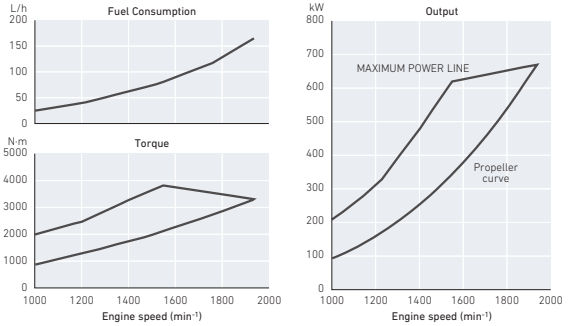
Specifications

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 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	2000×1305×1431

Marine gear specifications / Engine model : *6AYM-WGT L-rating*

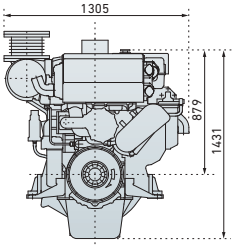
Model	*YXH-240*
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight kg	632

Performance curves

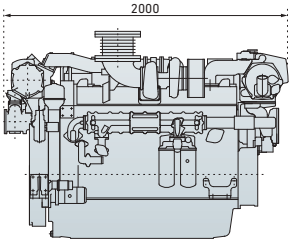


Dimensions [mm]

■ Engine only / Front view

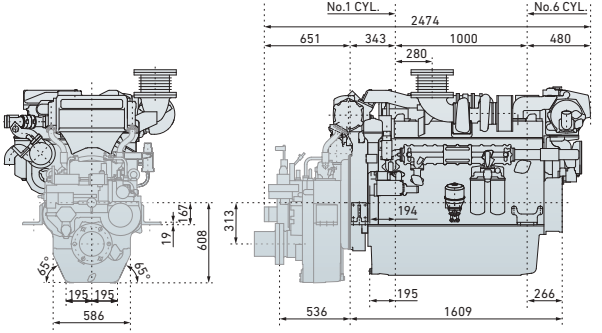


■ Engine only / Right side view [Shallow sump]



■ With YXH240 gearbox / Rear view

■ With YXH240 gearbox / Right side view



– Marine gear

6AYAM-ET

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

- 6-cylinder, direct injection, keel 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.

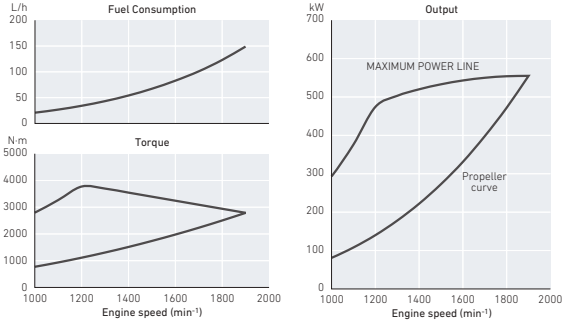
Specifications

Model		*6AYAM-ET 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]/1900
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 8.0kW]
Cooling system		Keel cooling [optional Heat exchanger]
Size of flywheel housing and flywheel		SAE #0 and 18 in.
Dry mass	kg	2295 [without marine gear]
Dimensions [L×W×H]	mm	1949×1274×1544

Marine gear specifications / Engine model : *6AYAM-ET C-rating*

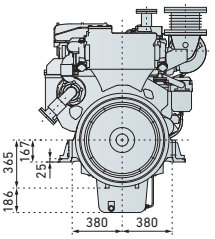
Model	*YXH-240*	*YXH-240L*
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48	4.89 5.36 5.91 6.57 6.95
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight	632	1240

Performance curves

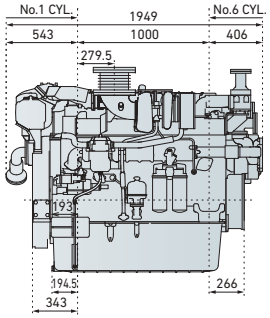


Dimensions [mm]

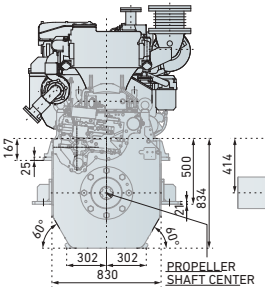
■ Engine only / Front view



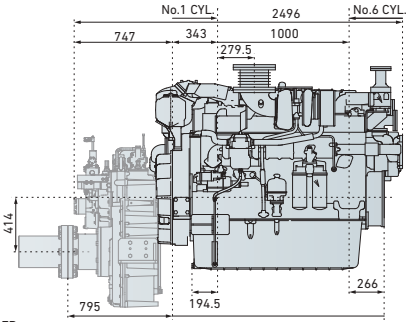
■ Engine only / Right side view



■ With YXH240L gearbox / Rear view



■ With YXH240L gearbox / Right side view



– Marine gear

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

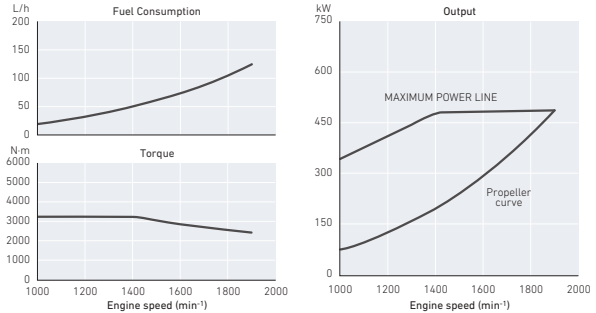
Model		*6AYEM-ST*
Number of cylinders		6 in-line
Bore × stroke	mm	155 × 180
Displacement	lit.	20.379
Rated output	kW[mhp]/rpm	C : 485[659]/1900
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 8.0kW]
Cooling system		Heat exchanger
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

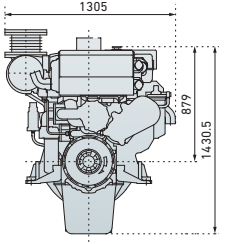
Performance curves

■ Continuous-rating

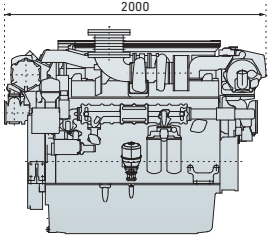


Dimensions [mm]

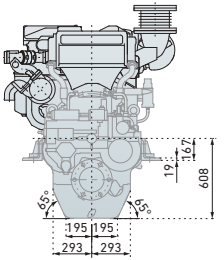
■ Engine only / Front view



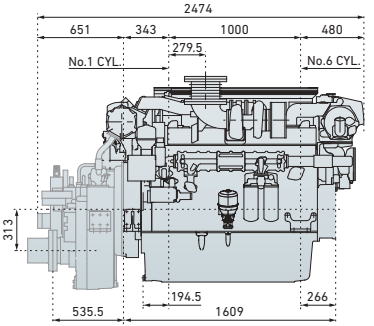
■ Engine only / Right side view



■ 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

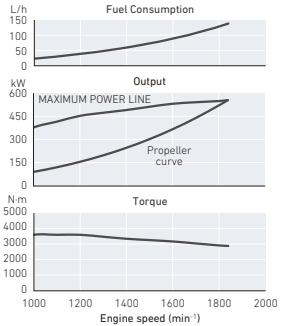
Model		6AYEM-ET
Number of cylinders		6 in-line
Bore × stroke	mm	155 × 180
Displacement	lit.	20.379
Rated output	kW[mhp]/rpm	C : 555[755]/1840 M : 610[829]/1900
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 8.0kW]
Cooling system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

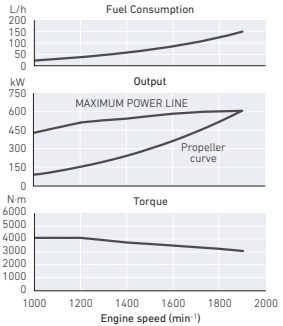
Model	YXH-240-7
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight kg	632

Performance curves

■ Continuous-rating

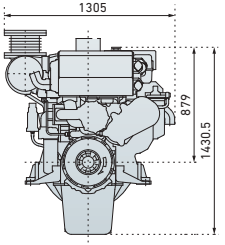


■ M-rating

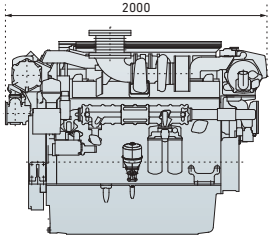


Dimensions [mm]

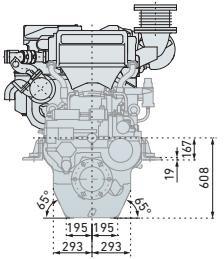
■ Engine only / Front view



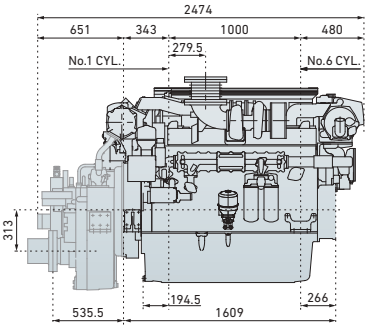
■ Engine only / Right side view



■ 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 TierⅢ emissions regulations.

Specifications

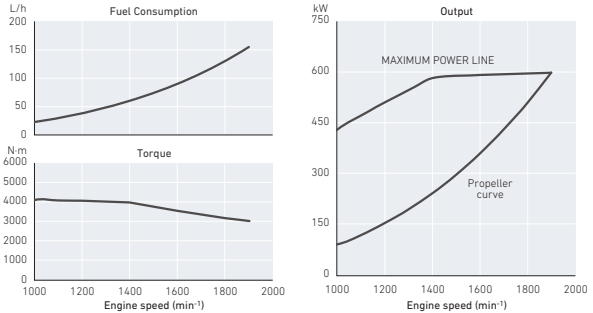
Model		*6AYEM-ET*
Number of cylinders		6 in-line
Bore × stroke	mm	155 × 180
Displacement	lit.	20.379
Rated output	kW[mhp]/rpm	H : 599[814]/1900
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 8.0kW]
Cooling system		Heat exchanger
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

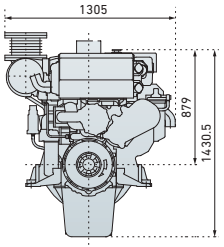
Performance curves

■ H-rating

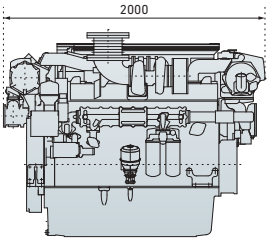


Dimensions [mm]

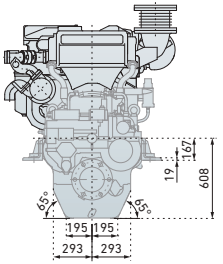
■ Engine only / Front view



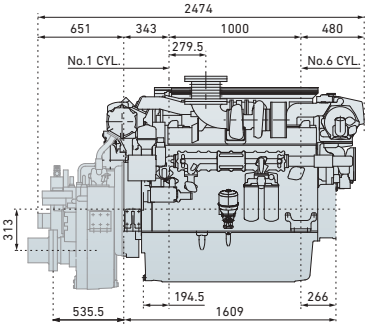
■ Engine only / Right side view



■ With YXH240 gearbox / Rear view



■ With YXH240 gearbox / Right side view



– Marine gear

6AYEM-GT

L-rating 670kW [911mhp] **[IMO TierⅢ]**
S-rating 737kW [1002mhp]
S-rating 749kW [1018mhp] **[IMO TierⅢ] [EPA Tier4]**

- 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 TierⅡ emissions regulations.

Specifications

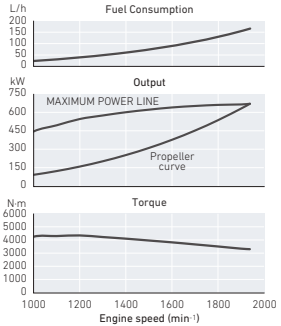
Model		*6AYEM-GT*
Number of cylinders		6 in-line
Bore × stroke	mm	155 × 180
Displacement	lit.	20.379
Rated output	kW[mhp]/rpm	L : 670[911]/1938 S : 737[1002]/2000, S : 749[1018]/2000
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V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

Marine gear specifications / Engine model : *6AYEM-GT*

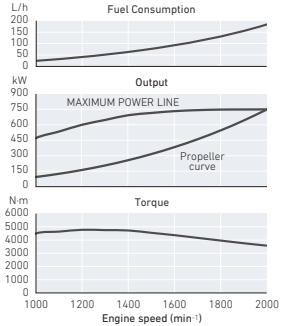
Model	*YXH-240-7*
Type	Hydraulic multi-disc clutch
Reduction ratio [Ahead]	1.95 2.27 2.56 3.03 3.48
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise
Dry weight kg	632

Performance curves

■ L-rating

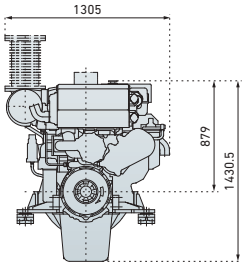


■ S-rating

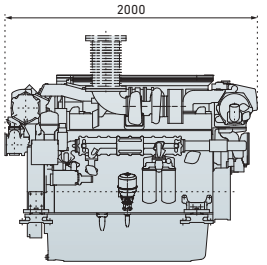


Dimensions [mm]

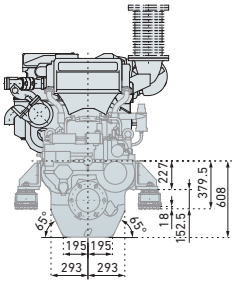
■ Engine only / Front view



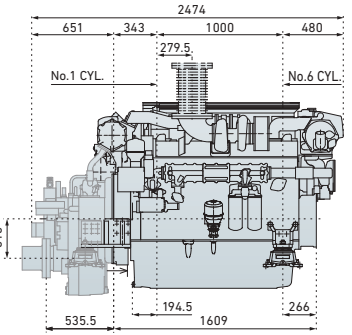
■ Engine only / Right side view [Shallow sump]



■ 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 Tier II emissions regulations.

Specifications

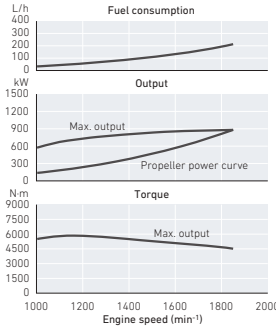
Model		*12AYM-WST H-rating*
Number of cylinders		12 V-type
Bore × stroke	mm	155 × 180
Displacement	lit.	40.76
Rated output	kW[mhp]/rpm	H : 882[1199]/1850 H : 1030[1400]/1900
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 8.0kW] × 1 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*

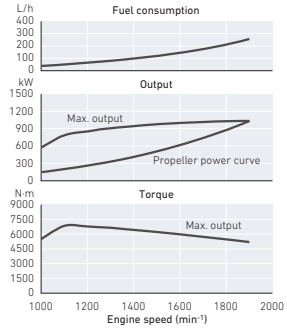
Model	*YXH-500-1*	*YXH-500L-1*
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	2.53 3.04 3.48	3.57 4.07 4.48 4.96
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight kg	970	1620
Live PTO	-	SAE B-B, B, C-C, C

Performance curves

■ H rating 882kW [1199mhp]



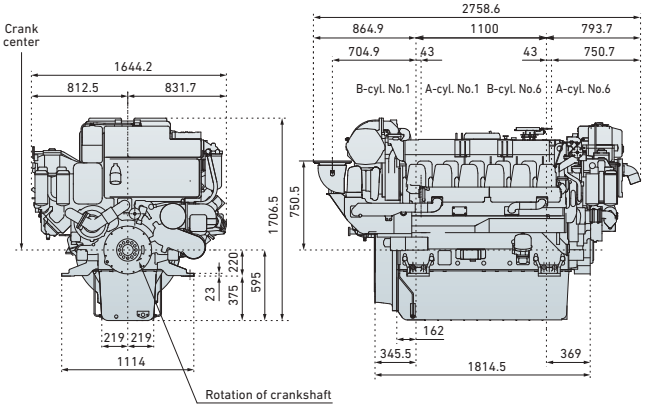
■ H rating 1030kW [1400mhp]



Dimensions [mm]

■ Engine only / Front view

■ Engine only / Right side view



12AYM-WET

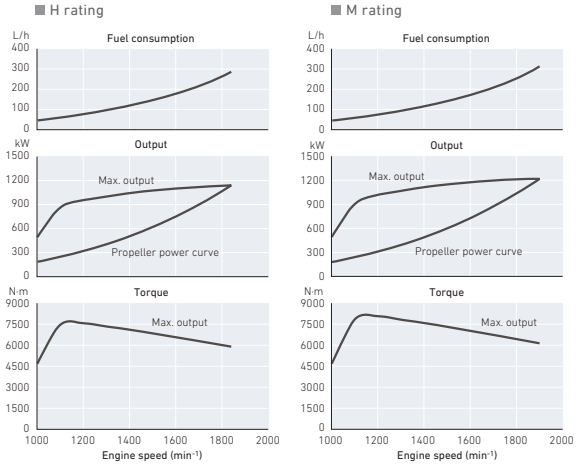
H-rating **1140kW [1550mhp]**
M-rating **1220kW [1659mhp]**

- 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] × 1 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

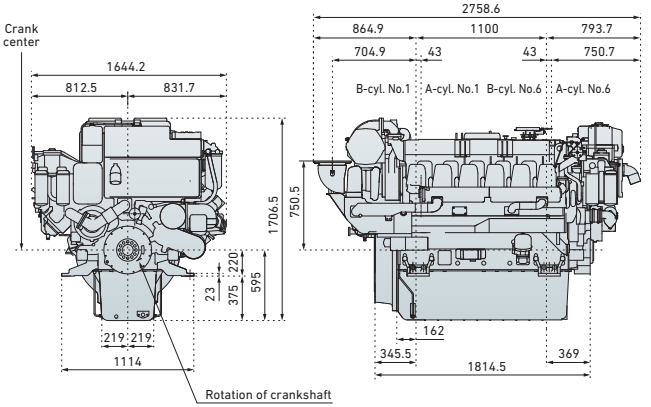
Performance curves



Dimensions [mm]

Engine only / Front view

Engine only / Right side view



12AYM-WGT

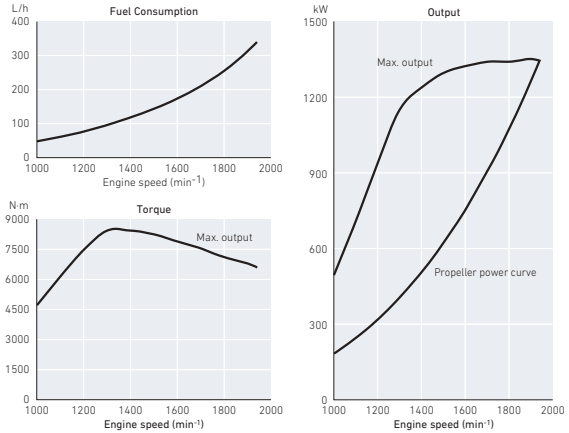
L-rating 1340kW [1822mhp]

- 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] × 1 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

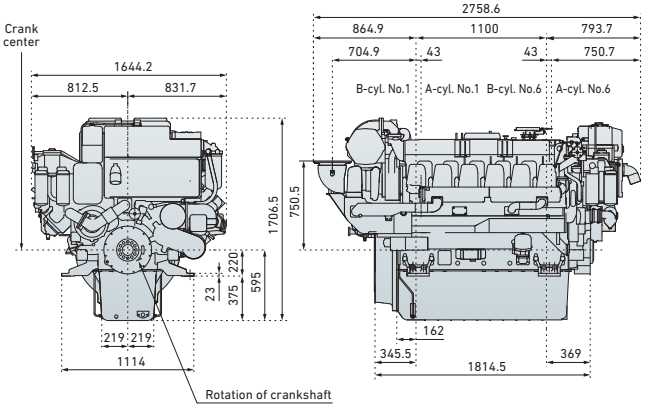
Performance curves



Dimensions [mm]

■ Engine only / Front view

■ Engine only / Right side view



12AYEM-ST

Continuous-rating **1030kW [1400mhp]**

- V-type, 12-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, China2 emissions regulations.

The picture above shows the 12AY model, which is different from the 12AYE.

Specifications

Model		*12AYEM-ST C-rating*
Number of cylinders		12 V-type
Bore × stroke	mm	155 × 180
Displacement	lit.	40.76
Rated output	kW[mhp]/rpm	C : 1030[1400]/1800
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 8.0kW] × 1
Cooling system		Constant high temperature cooling system
Size of flywheel housing and flywheel		SAE #00 and 21 in.
Dry mass	kg	4780 [without marine gear]
Dimensions [L×W×H]	mm	2743×1650×1707

Marine gear specifications / Engine model : *12AYEM-ST C-rating*

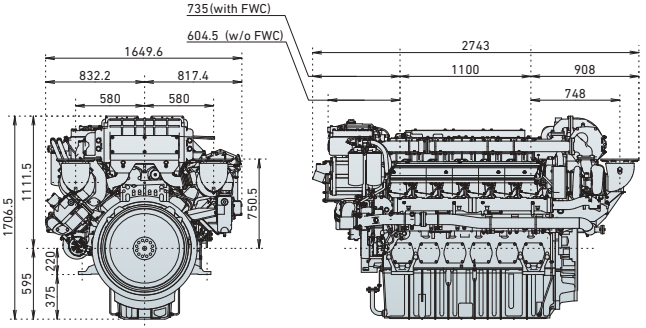
Model	*YXH-500-3*	*YXH-500L-3*
Type	Hydraulic multi-disc clutch	
Reduction ratio [Ahead]	2.53 3.04 3.48	3.57 4.07 4.48 4.96
Direction of rotation [propeller shaft]	Clockwise or counter-clockwise	
Dry weight kg	970	1620
Live PTO	-	SAE B-B, B, C-C, C

Performance curves

Dimensions [mm]

■ Engine only / Front view

■ Engine only / Right side view



12AYEM-ET

H-rating **1140kW [1550mhp]**
M-rating **1220kW [1659mhp]**

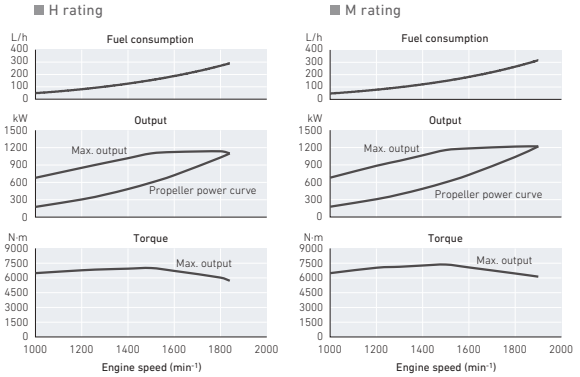
The picture above shows the 12AY model, which is different from the 12AYE.

- V-type, 12-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, China2 emissions regulations.

Specifications

Model		*12AYEM-ET 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[1840]/1840 M : 1220[1659]/1900
Combustion system		Direct injection
Aspiration		Turbocharger + intercooler
Starting system		Electric starting motor [24V 8.0kW] × 1
Cooling system		Constant high temperature cooling system
Size of flywheel housing and flywheel		SAE #00 and 21 in.
Dry mass	kg	4780 [without marine gear]
Dimensions [L×W×H]	mm	2743×1650×1707

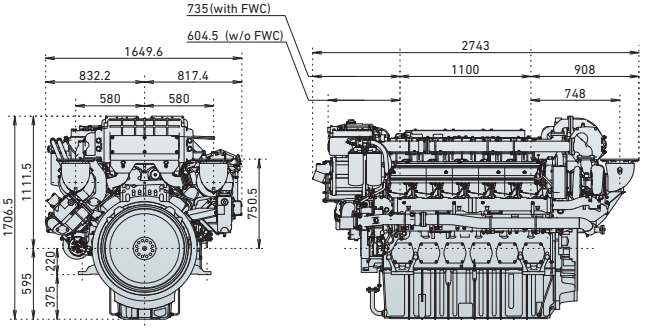
Performance curves



Dimensions [mm]

Engine only / Front view

Engine only / Right side view



12AYEM-GT

L-rating **1340kW [1822mhp]**

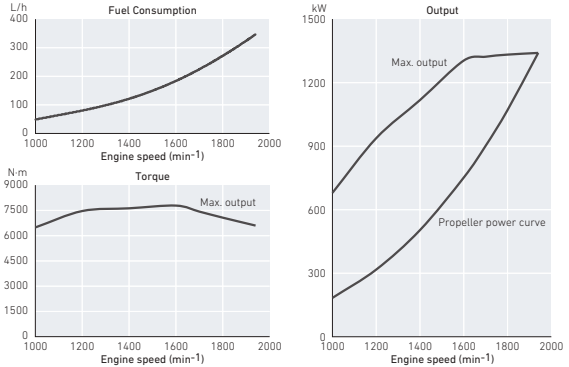
The picture above shows the 12AY model, which is different from the 12AYE.

- V-type, 12-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, China2 emissions regulations.

Specifications

Model		*12AYEM-ET C-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] × 1
Cooling system		Constant high temperature cooling system
Size of flywheel housing and flywheel		SAE #00 and 21 in.
Dry mass	kg	4780 [without marine gear]
Dimensions [L×W×H]	mm	2743×1650×1707

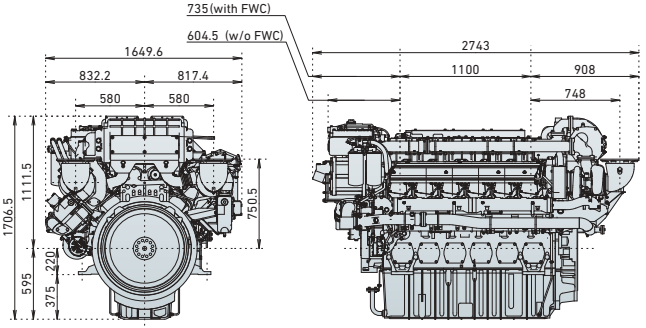
Performance curves

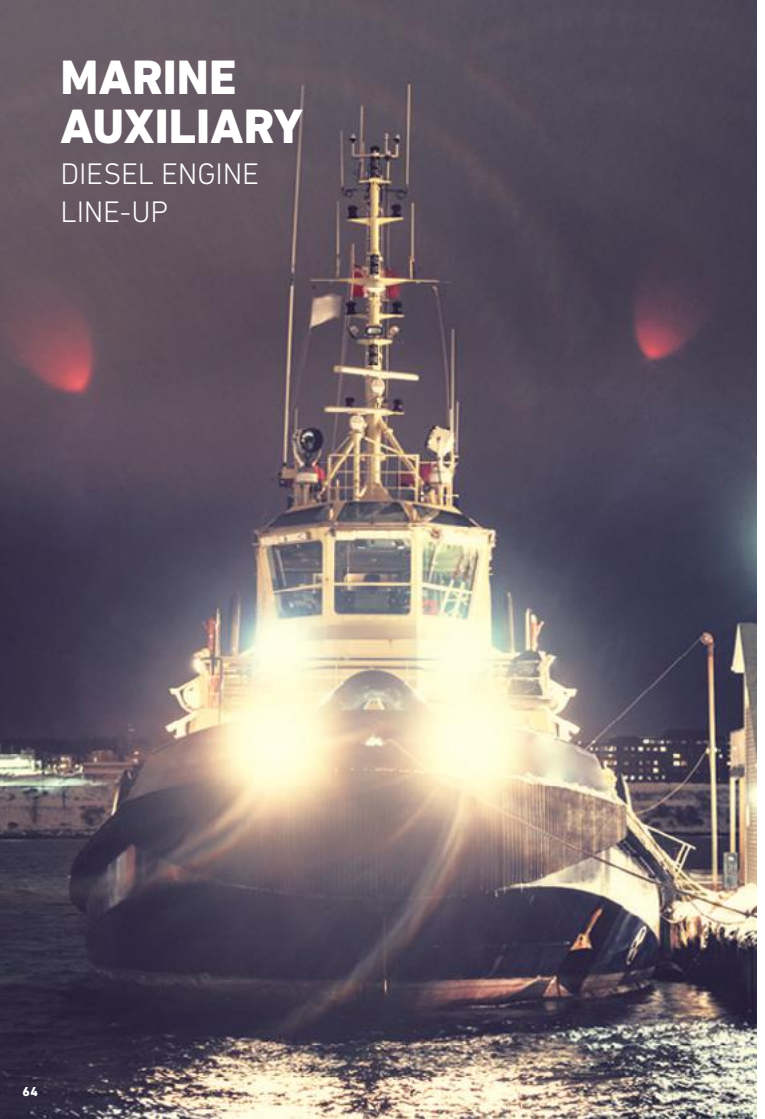


Dimensions [mm]

■ Engine only / Front view

■ Engine only / Right side view

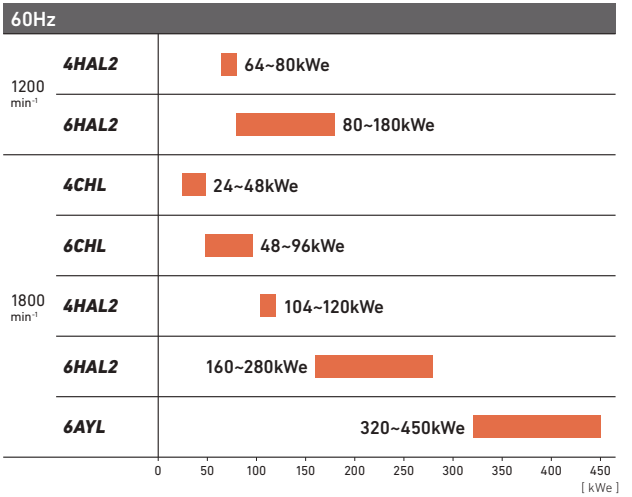


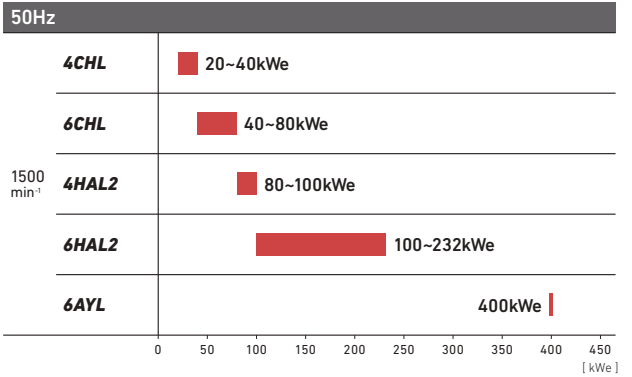


MARINE AUXILIARY

DIESEL ENGINE LINE-UP

Generator Capacity





4CHL

Generator Capacity

20~48kWe

Specifications

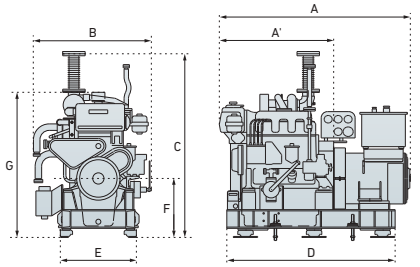
Engine Model	4CHL-N				4CHL-TN		4CHL-TNA	
Type	Vertical, Watar-cooled, 4-stroke Diesel							
No. of Cylinders	In-line 4							
Cylinder Bore × Stroke mm	105×125							
Continuous Rated Output kW[PS]	27.9 [38]		36.8 [50]		36.8 [50]	45.6 [62]	45.6 [62]	54.4 [74]
Generator Capacity kWe[kVA]	20 [25]	24 [30]	24 [30]	32 [40]	32 [40]	40 [50]	40 [50]	48 [60]
Engine Speed min⁻¹	1500		1800		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

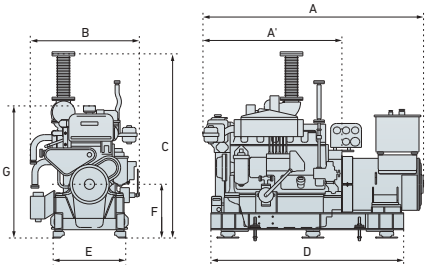
Engine Model	6CHL-N		6CHL-TN		6CHL-TNA		6CHL-HTN		6CHL-HTNA	
Type	Vertical, Watar-cooled, 4-stroke Diesel									
No. of Cylinders	In-line 6									
Cylinder Bore × Stroke mm	105×125									
Continuous Rated Output kW[PS]	45.6 [62]	54.4 [74]	54.4 [74]	73.6 [100]	67.7 [92]	89.7 [122]	73.6 [100]	88.3 [120]	91.9 [125]	107 [145]
Generator Capacity kWe[kVA]	40 [50]	48 [60]	48 [60]	64 [80]	60 [75]	80 [100]	64 [80]	80 [100]	80 [100]	96 [120]
Engine Speed min⁻¹	1500	1800	1500	1800	1500	1800	1500	1800	1500	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

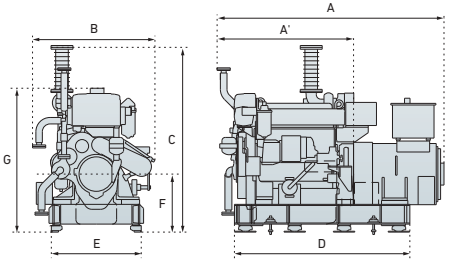
Engine Model	4HAL2-TN1			4HAL2-TN		4HAL2-WT
Type	Vertical, Watar-cooled, 4-stroke Diesel					
No. of Cylinders	In-line 4					
Cylinder Bore × Stroke mm	130×165					
Continuous Rated Output kW[PS]	72 [98]	89 [121]	116 [157]	90 [122]	115 [156]	135 [183]
Generator Capacity kWe[kVA]	64 [80]	80 [100]	104 [130]	80 [100]	100 [125]	120 [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

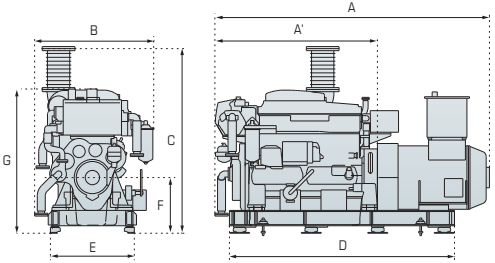
Engine Model	6HAL2-N		6HAL2-TN	6HAL2-WT		6HAL2-WHT		6HAL2-WDT		
Type	Vertical, Watar-cooled, 4-stroke Diesel									
No. of Cylinders	In-line 6									
Cylinder Bore × Stroke mm	130×165									
Continuous Rated Output kW[PS]	90 [122]	115 [156]	120 [163]	150 [204]	180 [244]	160 [217]	220 [299]	265 [360]	200 [271]	255 [346]	305 [414]
Generator Capacity kWe[kVA]	80 [100]	100 [125]	104 [130]	136 [170]	160 [200]	144 [180]	200 [250]	240 [300]	180 [225]	232 [290]	280 [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	1430		1422	1437		1447					
Total Weight [Gen.Set] kg	2230		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

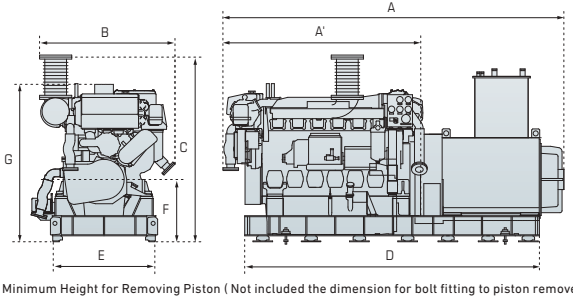
Engine Model	6AYL-WST	6AYL-WET	
Type	Vertical, Watar-cooled, 4-stroke Diesel		
No. of Cylinders	In-line 6		
Cylinder Bore × Stroke mm	155×180		
Continuous Rated Output kW[PS]	353 [480]	438 [596]	491 [668]
Generator Capacity kWe[kVA]	320 [400]	400 [500]	450 [562.5]
Engine Speed min⁻¹	1800	1500	1800
Combustion 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 standards.

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