

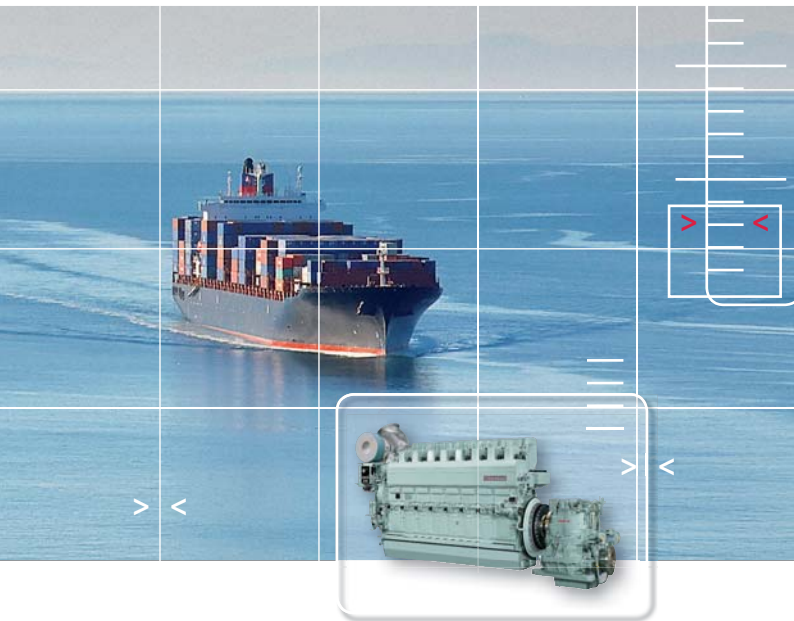


YANMAR

MARINE PRODUCT HANDBOOK

MEDIUM SPEED DIESEL ENGINES

368 - 3530 kW [500 - 4800 ps]



Call for Yanmar solutions



A large, fluffy white heart-shaped cloud is the central focus of the sky. The sky is a vibrant blue with scattered smaller white clouds. Below the horizon line, the ocean is a deep blue with gentle ripples. A small, dark boat is visible on the horizon. The text is overlaid on the sky and ocean.

We wish for **Blue Sky,**
Blue Ocean.

Heart of YANMAR, for the People, for the Earth.

YANMAR Power Solution,
for Good Mileage and Good Environmental Goals



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YANMAR Power Solution contributes to work “ Life Cycle Value ” and “ Harmony with the environment ”

Harmony with the Environment — IMO Emission Limits —

IMO NOx Emission Limits

The pollution of the atmosphere by hazardous substances released from marine diesel engines has become a major global issue. The release of hazardous substances into the atmosphere by ships is regulated by the International Convention for the Prevention of Pollution from Ships (MARPOL 73/78). Annex VI: Prevention of Air Pollution from Ships was later passed in September 1997. As a result, the regulation of NOx emission levels began for marine diesel engines with a power of above 130kW on vessels built on or after January 1, 2000. A further amendment was passed in October, 2008 and engines mounted in vessels built on or after January 1, 2011 face even stricter Tier II regulations.

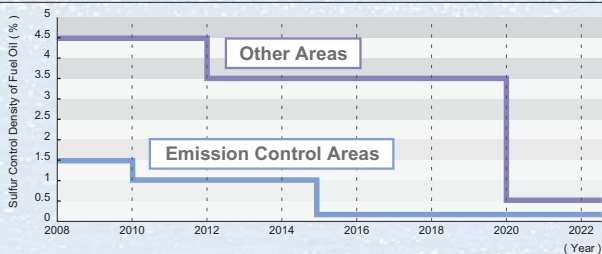
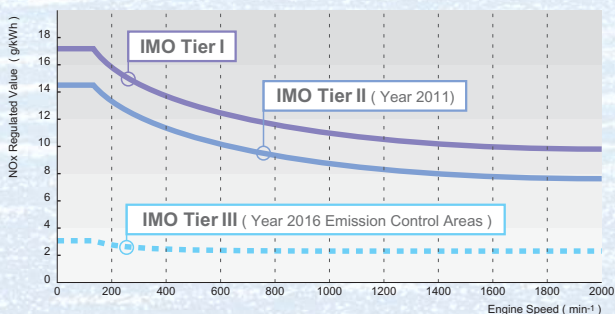
Technological solutions have been developed to overcome these regulatory challenges including engine technologies, supplementary technologies and post processing technologies. YANMAR is addressing the stricter IMO Tier II regulation NOx limits with improvements to combustion technologies of engine.

IMO SOx Emission Limits

The regulations on NOx and SOx emissions continue to grow stricter. In special "Emission Control Areas" established by various countries, the sulphur content of fuel oil used must be 0.1% or below after 2015. The limit of 0.1% sulphur content in fuel oil has already been in effect within the EU for vessels anchoring within a bay or traversing inland waterways since January 1, 2010.

YANMAR EcoDiesel has been modified to correspond to low sulfur (low viscosity, low lubricity) fuels through alterations to the fuel and other systems.

As almost every human social activity can be a cause of further deterioration of environment by air pollution and global warming, the search for solutions naturally requires broad international cooperation. YANMAR is developing all our engines in harmony with the environment by reducing NOx, CO₂, SOx and other emissions, and taking antipollution measures. Furthermore, YANMAR has been dedicated to developing its own leading-edge technologies and products in pursuit of resource and energy efficiency. We have pursued the continuous improvement of Life Cycle Value for the customer throughout a long product life by developing products that embody reliability, durability and low-cost operation. YANMAR Power Solution, it's all for your business and the world of tomorrow.



YANMAR EcoDiesel is addressing the stricter IMO Tier II regulation NOx limits with improvements to combustion technologies of engine.

In general, when NOx emissions are reduced, the fuel consumption and smoke generation will increase, adversely affecting both environment and management. As a solution to this, YANMAR has employed "the ASSIGN Combustion System", which is an innovative state-of-the-art technology, and "the High Pressure Miller Cycle System".

These systems improve the fuel consumption and smoke generation in addition to reducing NOx emissions.

YANMAR marine diesel engines already comply with IMO Tier II emission requirement and meet the needs of our customers.

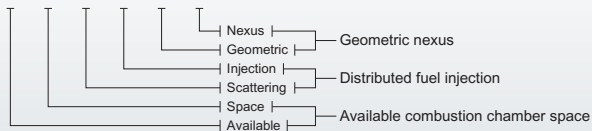


Lower fuel consumption
Lower NOx emissions



ASSIGN Combustion System

A S S I G N

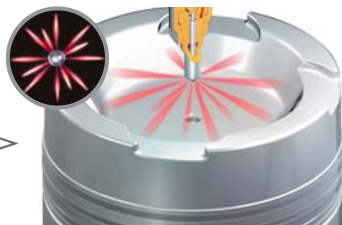


■ Staggered Layout Multi-Hole Nozzle

By staggering the layout and using multiple injection holes, this design achieves sufficient total injection area and improves air utilization.



Conventional Injection System

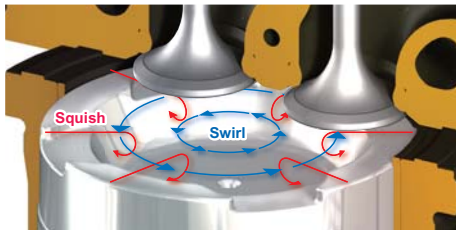


Staggered Layout Injection System

■ Air Flow Motion

The optimally shaped air intake port generates a suitable swirl (vortex flow) in the combustion chamber as well as a squish in the compression stroke.

This promotes fuel / air mixing, improving combustion efficiency.



Intake Swirl and Squish

High Pressure Miller Cycle System

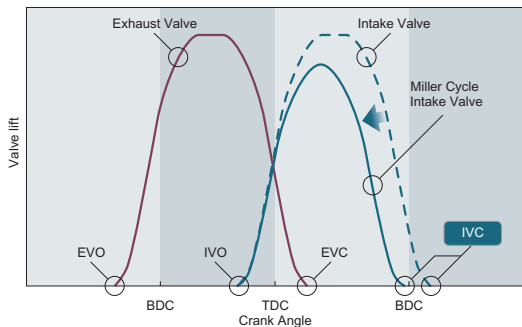
■ Miller Type Cam

Reduced air temperature before combustion → Decreasing NOx

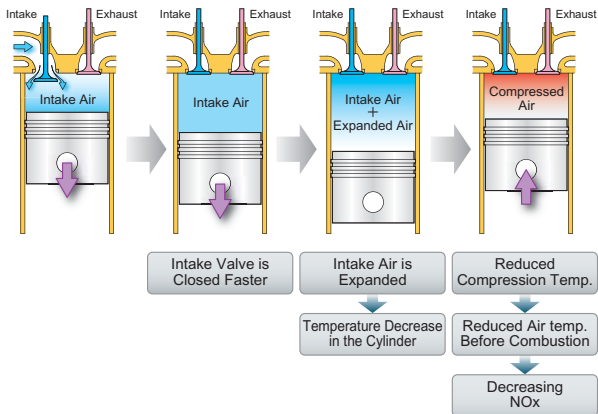
With the miller type cam in its intake stroke, the miller cycle closes the intake valve earlier than conventional combustion.

By finishing the intake stroke earlier, the intake air expands and temperature in the cylinder decreases, and by reducing air temperature before combustion in the next compression stroke, the NOx emission is reduced.

Intake / Exhaust Valve Lift Diagram



EVO: Exhaust Valve Open IVO: Intake Valve Open
EVC: Exhaust Valve Close IVC: Intake Valve Close

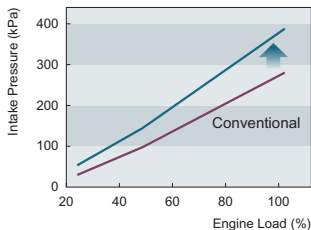
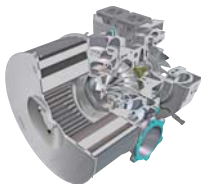


High Pressure Ratio Turbocharger

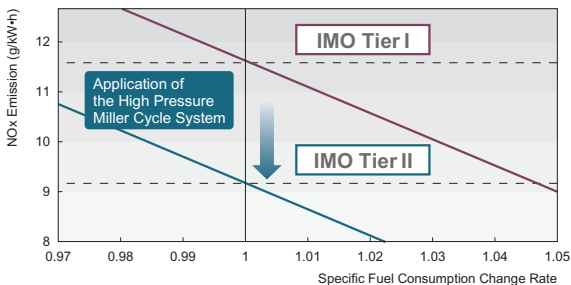
Recovery of pressure in the cylinder → **Improved fuel consumption**

Using the method of finishing the intake stroke earlier alone decreases the air quantity charged in the cylinder, resulting in decreasing the cylinder pressure and worsening the specific fuel consumption.

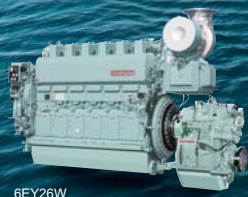
Increasing the intake pressure by high pressure ratio turbocharger during the short intake stroke ensures the quantity of charged air and fixes the cylinder pressure to restrain the increase of the specific fuel consumption.



Relationship between Specific Fuel Consumption and NO_x Emission

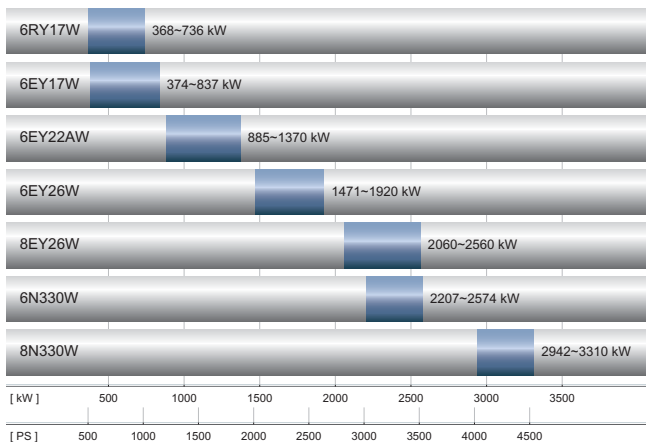


Marine Propulsion Diesel Engine Line-up



6EY26W

Power Range



6EY17W

Power

374~837kW
■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 170 mm
 Piston Stroke 230 mm
 Mean Effective Pressure 1.06 - 2.21 MPa
 Piston Speed 10.35 / 11.12 m/s

■ Rated Power

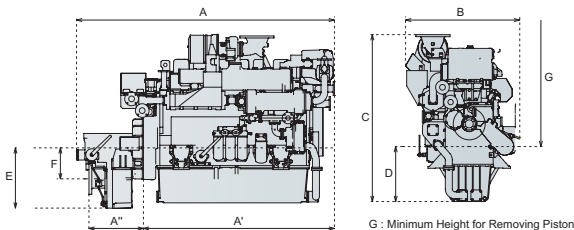
Engine Model	6EY17W				
Continuous Rated Power kW (PS)	374 (508)	480 (653)	590 (802)	749 (1018)	837 (1138)
Rated Engine Speed min ⁻¹	1350	1350	1350	1350	1450
Engine Dry Weight kg	3880	3880	3880	3880	3880

■ Standard Marine Gear

Propeller Type	for F.P.P.			
Marine Gear Model	Offset	YXH-500		YXH-500L
Reduction Gear Ratio (Ahead)	Offset	2.53, 3.04, 3.48		3.57, 4.07, 4.48, 4.96
Marine Gear Dry Weight kg	Offset	700		1667

■ Dimensions [mm] / Weights [kg]

Engine Model	Marine Gear	Dimensions [mm]									Total Dry Weight with Marine Gear [kg]
		A	A'	A''	B	C	D	E	F	G	
6EY17W (374kW) (480kW) (590kW)	YXH-500	2908	2154	615	1305	1813	620	682	349	1300	4580
	YXH-500L	3092	2154	795	1305	1813	620	862	429	1300	5547
6EY17W (749kW) (837kW)	YXH-500	2908	2154	615	1305	1882	620	682	349	1300	4580
	YXH-500L	3092	2154	795	1305	1882	620	862	429	1300	5547



6EY22AW

Power

885~1370kW

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 220 mm
 Piston Stroke 320 mm
 Mean Effective Pressure 1.62 - 2.50 MPa
 Piston Speed 9.60 m/s

■ Rated Power

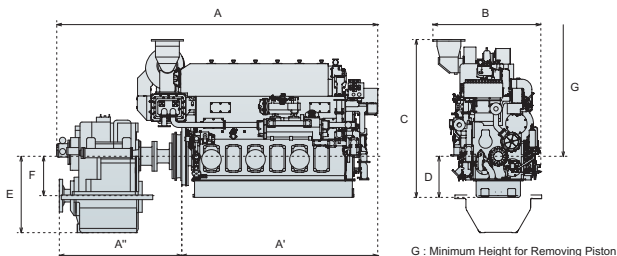
Engine Model	6EY22AW				
Continuous Rated Power kW (PS)	885 (1203)	1030 (1400)	1180 (1604)	1330 (1808)	1370 (1863)
Rated Engine Speed min ⁻¹	900	900	900	900	900
Engine Dry Weight kg	10000	10000	10000	10000	10000

■ Standard Marine Gear

Propeller Type		for F.P.P.			
Marine Gear Model	Offset	YX-1000		YXH-2000	
	Co-Axial	YX-1000C		YXH-2000C	
Reduction Gear Ratio (Ahead)	Offset	2.03, 2.36, 2.78, 3.32		2.23, 2.58, 2.79, 3.03	
	Co-Axial	2.03, 2.36, 2.78, 3.32		2.23, 2.58, 2.79, 3.03	
Marine Gear Dry Weight kg	Offset	2400		4700	
	Co-Axial	2550		5000	

■ Dimensions [mm] / Weights [kg]

Engine Model	Marine Gear	A	A'	A''	B	C	D	E	F	G	Total Dry Weight with Marine Gear
6EY22AW (885kW) (1030kW)	YX-1000	4144	2947	1197	1618	2366	616	885	435	1922	12550
	YX-1000C	4577	2947	1630	1618	2366	616	450	-	1922	12770
6EY22AW (1180kW) (1330kW) (1370kW)	YXH-2000	4799	2947	1852	1618	2366	616	1145	590	1922	14900
	YXH-2000C	4969	2947	2022	1618	2366	616	555	-	1922	15200



6EY26W

Power

1471~1920kW
■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 260 mm
 Piston Stroke 385 mm
 Mean Effective Pressure 1.92 - 2.50 MPa
 Piston Speed 9.63 m/s

■ Rated Power

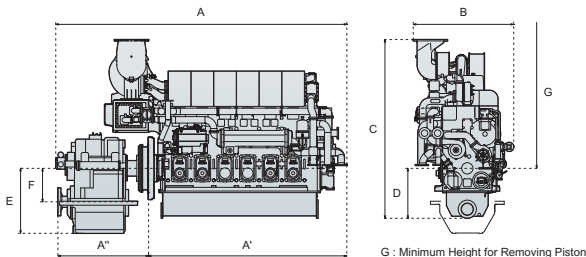
Engine Model	6EY26W		
Continuous Rated Power kW (PS)	1471 (2000)	1620 (2203)	1920 (2610)
Rated Engine Speed min ⁻¹	750	750	750
Engine Dry Weight kg	18500	18500	18500

■ Standard Marine Gear

Propeller Type		for C.P.P.	for F.P.P.	for C.P.P.	for F.P.P.
Marine Gear Model	Offset	YXH-2000M	YXH-2000	YXH-2500M	YXH-2500
	Co-Axial	YXH-2000MC	YXH-2000C	YXH-2500MC	YXH-2500C
Reduction Gear Ratio (Ahead)	Offset	2.23, 2.58, 2.79, 3.03		2.23, 2.58, 2.79, 3.03	
	Co-Axial	2.23, 2.58, 2.79, 3.03		2.23, 2.58, 2.79, 3.03	
Marine Gear Dry Weight kg	Offset	3900	4700	3950	4750
	Co-Axial	4300	5000	4400	5100

■ Dimensions [mm] / Weights [kg]

Engine Model	Marine Gear	A	A'	A''	B	C	D	E	F	G	Total Dry Weight with Marine Gear
6EY26W (1471kW)	YXH-2000M	5702	3563	1882	1804	3112	842	1145	590	1900	22549
	YXH-2000MC	5880	3563	2322	1804	3112	842	555	-	1900	22949
	YXH-2000	5483	3563	1882	1804	3112	842	1145	590	1900	23349
	YXH-2000C	5601	3563	2070	1804	3112	842	555	-	1900	23649
6EY26W (1620kW) (1920kW)	YXH-2500M	5710	3563	1890	1804	3112	842	1145	590	1900	22640
	YXH-2500MC	5880	3563	2320	1804	3112	842	555	-	1900	23090
	YXH-2500	5491	3563	1890	1804	3112	842	1145	590	1900	23440
	YXH-2500C	5601	3563	2070	1804	3112	842	555	-	1900	23790



8EY26W

Power

2060~2560kW

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 8
 Cylinder Bore 260 mm
 Piston Stroke 385 mm
 Mean Effective Pressure 2.02 - 2.50 MPa
 Piston Speed 9.63 m/s

■ Rated Power

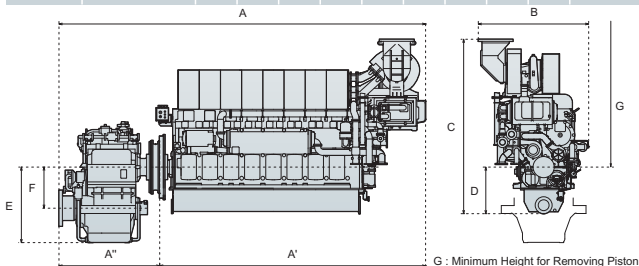
Engine Model	8EY26W			
Continuous Rated Power kW (PS)	2060 (2801)	2210 (3005)	2360 (3209)	2560 (3481)
Rated Engine Speed min ⁻¹	750	750	750	750
Engine Dry Weight kg	24500	24500	24500	24500

■ Standard Marine Gear

Propeller Type		for C.P.P.	for F.P.P.
Marine Gear Model	Offset	YX-3500M	YX-3500
	Co-Axial	YX-3500MC	YX-3500C
Reduction Gear Ratio (Ahead)	Offset	2.55, 2.80, 3.09, 3.31	2.55, 2.80, 3.09, 3.31
	Co-Axial	2.31, 2.54, 2.80, 3.00	2.31, 2.54, 2.80, 3.00
Marine Gear Dry Weight kg	Offset	8700	8700
	Co-Axial	9300	9300

■ Dimensions [mm] / Weights [kg]

Engine Model	Marine Gear	A	A'	A''	B	C	D	E	F	G	Total Dry Weight with Marine Gear
8EY26W (2060kW) (2210kW) (2360kW)	YX-3500M	6912	5022	1890	2085	3257	842	1427	777	1900	33428
	YX-3500MC	7481	5022	2459	2085	3257	842	730	80	1900	33128
	YX-3500	6836	5022	1814	2085	3542	1127	1427	777	1900	33428
	YX-3500C	6898	5022	1876	2085	2845	430	730	80	1900	33128
8EY26W (2560kW)	YX-3500M	6925	5022	1903	2085	3257	842	1427	777	1900	33485
	YX-3500MC	7494	5022	2472	2085	3257	842	730	80	1900	33185
	YX-3500	6849	5022	1827	2085	3542	1127	1427	777	1900	33485
	YX-3500C	6911	5022	1889	2085	2845	430	730	80	1900	33185



G : Minimum Height for Removing Piston

6N330W

Power

2207~2574kW
■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 330 mm
 Piston Stroke 440 mm
 Mean Effective Pressure 1.89 - 2.21 MPa
 Piston Speed 9.09 m/s

■ Rated Power

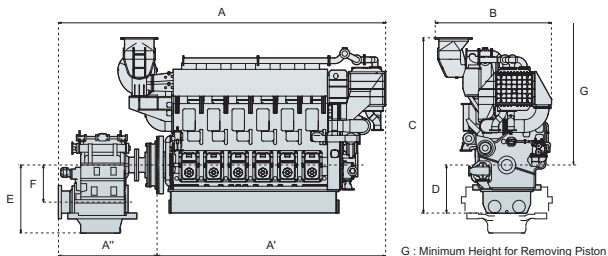
Engine Model	6N330-UW	6N330-SW	6N330-EW
Continuous Rated Power	2207 (3000)	2427 (3300)	2574 (3500)
kW (PS)			
Rated Engine Speed min ⁻¹	620	620	620
Engine Dry Weight kg	34000	34000	34000

■ Standard Marine Gear

Propeller Type		for C.P.P.	for F.P.P.
Marine Gear Model	Offset	YX-3500M	YX-3500
	Co-Axial	YX-3500MC	YX-3500C
Reduction Gear Ratio (Ahead)	Offset	2.55, 2.80, 3.09, 3.31	2.55, 2.80, 3.09, 3.31
	Co-Axial	2.31, 2.54, 2.80, 3.00	2.31, 2.54, 2.80, 3.00
Marine Gear Dry Weight kg	Offset	8700	9400
	Co-Axial	8400	9100

■ Dimensions [mm] / Weights [kg]

Engine Model	Marine Gear	A	A'	A''	B	C	D	E	F	G	Total Dry Weight with Marine Gear
6N330-UW	YX-3500M	6957	4784	2173	2432	3667	1006	1427	777	2348	42985
6N330-SW	YX-3500MC	7756	4784	2972	2432	3667	1006	730	80	2348	42685
	YX-3500	6836	4784	2052	2432	3667	1006	1427	777	2348	43685
	YX-3500C	7178	4784	2394	2432	3667	1006	730	80	2348	43385
6N330-EW	YX-3500M	6968	4784	2184	2432	3667	1006	1427	777	2348	43038
	YX-3500MC	7767	4784	2983	2432	3667	1006	730	80	2348	42738
	YX-3500	6847	4784	2063	2432	3667	1006	1427	777	2348	43738
	YX-3500C	7189	4784	2405	2432	3667	1006	730	80	2348	43438



6N21AW

Power

662~956kW
■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 210 mm
 Piston Stroke 290 mm
 Mean Effective Pressure 1.65 - 2.24 MPa
 Piston Speed 7.73 / 8.22 m/s

■ Rated Power

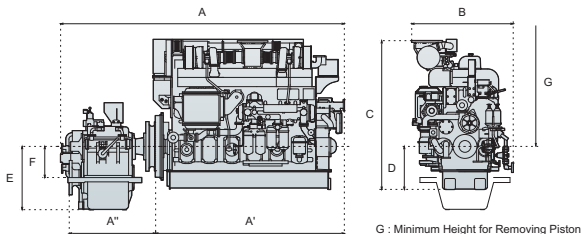
Engine Model	6N21A-DW	6N21A-UW	6N21A-SW	6N21A-EW
Continuous Rated Power	662 (900)	736 (1000)	883 (1200)	956 (1300)
kW (PS)				
Rated Engine Speed min ⁻¹	800	800	850	850
Engine Dry Weight kg	8000	8000	8000	8000

■ Standard Marine Gear

Propeller Type		for F.P.P.			
Marine Gear Model	Offset	Y-850		YX-1000	
	Co-Axial	YC-850		YX-1000C	
Reduction Gear Ratio (Ahead)	Offset	1.84, 2.07, 2.35, 2.68		2.03, 2.36, 2.78, 3.32	
	Co-Axial	1.84, 2.07, 2.35, 2.68		2.03, 2.36, 2.78, 3.32	
Marine Gear Dry Weight kg	Offset	1950		2400	
	Co-Axial	2400		2500	

■ Dimensions [mm] / Weights [kg]

Engine Model	Marine Gear	A	A'	A''	B	C	D	E	F	G	Total Dry Weight with Marine Gear
6N21A-DW	Y-850	3920	2729	1157	1420	2081	601	814	359	1802	10128
	YC-850	4051	2729	1288	1420	2081	601	455	-	1802	10228
6N21A-UW	YX-1000	4053	2729	1199	1420	2081	601	885	435	1802	10478
	YX-1000C	4086	2729	1232	1420	2081	601	450	-	1802	10628
6N21A-SW	YX-1000	4059	2729	1205	1420	2081	601	885	435	1802	10494
6N21A-EW	YX-1000C	4092	2729	1238	1420	2081	601	450	-	1802	10644



6RY17W

Power

368~736kW

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 165 mm
 Piston Stroke 219 mm
 Mean Effective Pressure 1.05 - 2.09 MPa
 Piston Speed 10.95 m/s

■ Rated Power

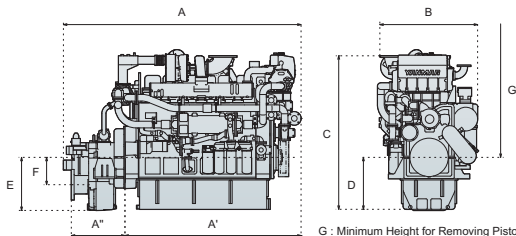
Engine Model	6RY17W			6RY17P-EW	6RY17P-GW
Continuous Rated Power kW (PS)	368 (500)	478 (650)	552 (750)	625 (850)	736 (1000)
Rated Engine Speed min ⁻¹	1500	1500	1500	1500	1500
Engine Dry Weight kg	3939	3939	3939	3972	3981

■ Standard Marine Gear

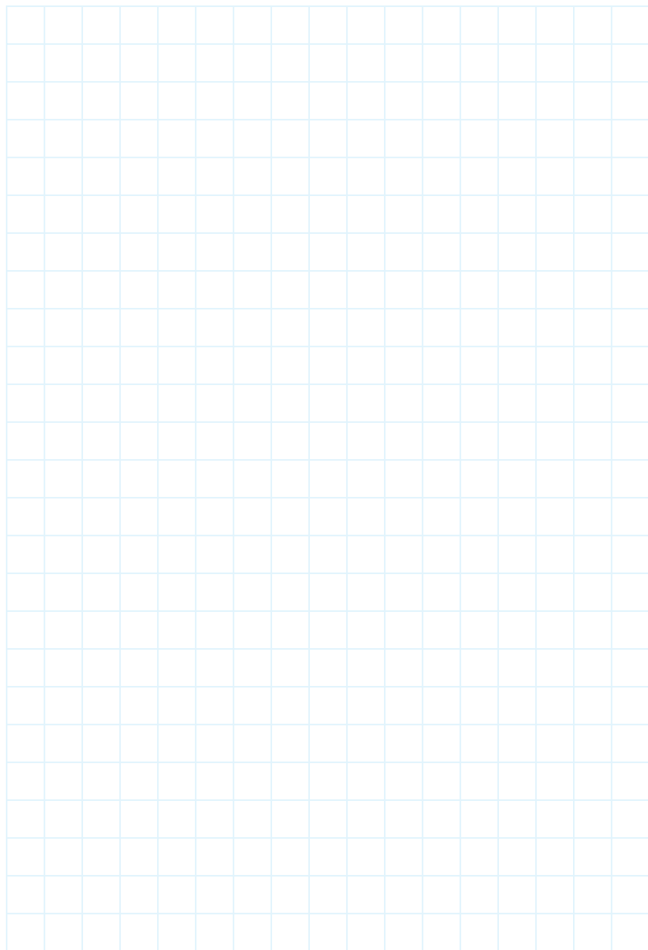
Propeller Type		for F.P.P.			
Marine Gear Model	Offset	YXH-240-1		YXH-250L	
Reduction Gear Ratio (Ahead)	Offset	2.56, 3.03, 3.48		3.82, 4.30, 4.68, 5.12	
Marine Gear Dry Weight	kg	609		1371	

■ Dimensions [mm] / Weights [kg]

Engine Model	Marine Gear	A	A'	A''	B	C	D	E	F	G	Total Dry Weight with Marine Gear
6RY17W	YXH-240-1	2723	2018	615	1147	1759	595	608	313	1250	4548
6RY17P-EW	YXH-240-1	2723	2018	615	1147	1769	595	608	313	1250	4581
6RY17P-GW	YXH-240-1	2723	2018	615	1152	1779	595	608	313	1250	4590
	YXH-250L	2773	2018	795	1152	1779	595	834	414	1250	5352



Notes

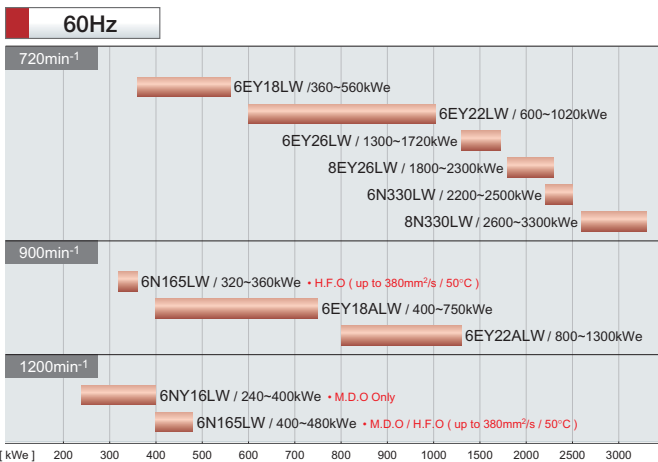


Marine Auxiliary Diesel Engine Line-up

Marine auxiliary diesel engine [Bore: 160-330mm]



Generator Capacity



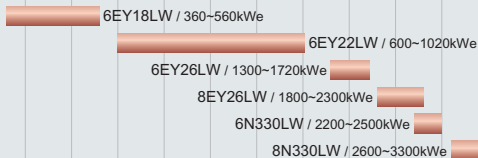


6EY22(A)LW

Fuel Oil : M.D.O / H.F.O (up to 700mm²/s / 50°C)

50Hz

750min⁻¹



1000min⁻¹



[kW] 200 300 400 500 600 700 800 900 1000 1500 2000 2500 3000

6NY16LW

Generator Capacity

180~400kWe
■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 160 mm
 Piston Stroke 200 mm
 Engine Speed 1000 / 1200 min⁻¹
 Mean Effective Pressure 1.00 - 1.83 MPa
 Piston Speed 6.7 / 8.0 m/s

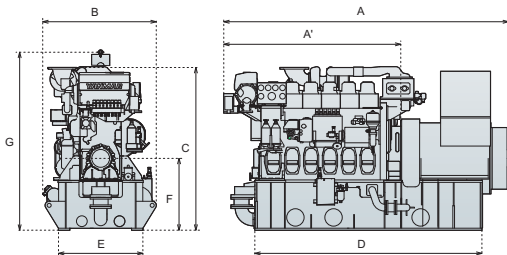
■ Rated Power

Engine Model	60Hz		50Hz	
	1200min ⁻¹		1000min ⁻¹	
	Eng [kW (PS)]	Gen [kWe]	Eng [kW (PS)]	Gen [kWe]
6NY16L-HW	265 (360)	240	200 (272)	180
6NY16L-DW	310 (421)	280	245 (333)	220
6NY16L-UW	355 (483)	320	270 (367)	240
6NY16L-SW	400 (544)	360	310 (421)	280
6NY16L-EW	441 (600)	400	353 (480)	320

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen.Set
6NY16L-HW (200/265kW)	3097	1972	1265	1813	2530	940	800	1983	2880	5500
6NY16L-DW (245/310kW)	3097	1972	1265	1813	2530	940	800	1983	2880	5500
6NY16L-UW (270/355kW)	3137	1972	1265	1813	2530	940	800	1983	2880	5500
6NY16L-SW (310/400kW)	3112	1972	1265	1813	2530	940	800	1983	2880	5500
6NY16L-EW (353/441kW)	3172	1972	1265	1813	2530	940	800	1983	2880	5500



G : Minimum Height for Removing Piston

6N165LW

Generator Capacity
320~480kWe

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 165 mm
 Piston Stroke 232 mm
 Engine Speed 900 / 1000 / 1200 min⁻¹
 Mean Effective Pressure 1.42 - 1.78 MPa
 Piston Speed 7.0 / 7.7 / 9.3 m/s

■ Rated Power

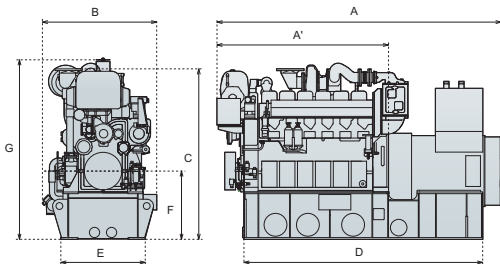
Engine Model	60Hz		50Hz	
	900min ⁻¹		1000min ⁻¹	
	Eng [kW (PS)]	Gen [kWe]	Eng [kW (PS)]	Gen [kWe]
6N165L-UW	-	-	353 (480)	320
6N165L-SW	353 (480)	320	397 (540)	360
6N165L-EW	397 (540)	360	441 (600)	400
	1200min ⁻¹			
	Eng [kW (PS)]	Gen [kWe]		
6N165L-UW	441 (600)	400		
6N165L-SW	485 (660)	450		
6N165L-EW	530 (720)	480		

Above generator capacity will vary according to actual generator efficiency.

- 900min⁻¹: for HFO Application Only.
- 1000min⁻¹: for MDO Application Only.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen.Set
6N165L-UW (353/441kW)	3182	1982	1341	1999	2700	990	800	2105	3860	6410
6N165L-SW (353kW) (397/485kW)	3332	2012	1557	1999	2800	990	800	2105	4020	7160
	3332	2012	1341	1999	2800	990	800	2105	4020	7160
6N165L-EW (397kW) (441/530kW)	3332	2012	1557	1999	2800	990	800	2105	4020	7160
	3332	2012	1341	1999	2800	990	800	2105	4020	7160



G : Minimum Height for Removing Piston

The engine dry weight and outline may differ depending upon the specifications and attached accessories.

6EY18(A)LW

Generator Capacity
360~750kWe

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 180 mm
 Piston Stroke 280 mm
 Engine Speed 720 / 750, 900 / 1000 min⁻¹
 Mean Effective Pressure 1.28 - 2.50 MPa
 Piston Speed 6.7 - 9.3 m/s

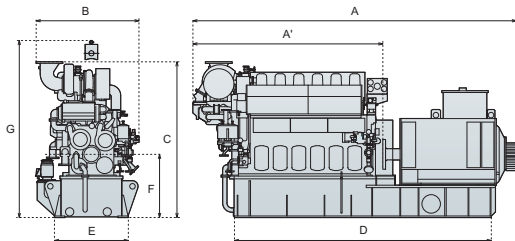
■ Rated Power

Engine Model	60Hz		50Hz	
	720min ⁻¹		750min ⁻¹	
	Eng [kW (PS)]	Gen [kWe]	Eng [kW (PS)]	Gen [kWe]
6EY18LW	400 (544)	360	400 (544)	360
	450 (612)	400	450 (612)	400
	500 (680)	450	500 (680)	450
	550 (748)	500	550 (748)	500
	615 (836)	560	615 (836)	560
6EY18ALW	900min ⁻¹		1000min ⁻¹	
	Eng [kW (PS)]	Gen [kWe]	Eng [kW (PS)]	Gen [kWe]
	455 (619)	400	455 (619)	400
	500 (680)	450	500 (680)	450
	550 (748)	500	550 (748)	500
	615 (836)	560	615 (836)	560
	660 (897)	600	660 (897)	600
	680 (925)	620	680 (925)	620
	745 (1013)	680	745 (1013)	680
	800 (1088)	750	800 (1088)	750

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen.Set
6EY18LW (400~615kW)	4441	2751	1489	2255	3620	1070	915	2564	6600	11200
6EY18ALW (455~615kW)	4391	2751	1489	2255	3620	1070	915	2564	6600	11200
	(660~800kW)	4680	2751	1489	2255	3720	1070	915	2564	6600



G : Minimum Height for Removing Piston

6EY22(A)LW

Generator Capacity

600~1300kW_e

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 220 mm
 Piston Stroke 320 mm
 Engine Speed 720 / 750, 900 / 1000 min⁻¹
 Mean Effective Pressure 1.45 - 2.50 MPa
 Piston Speed 7.7 - 10.7 m/s

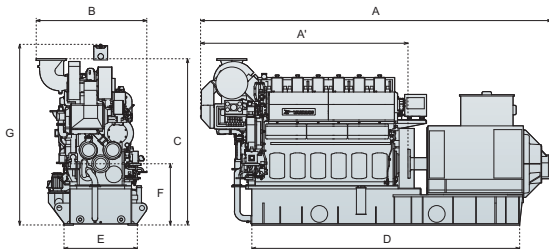
■ Rated Power

Engine Model	60Hz		50Hz	
	720min ⁻¹		750min ⁻¹	
	Eng [kW (PS)]	Gen [kW _e]	Eng [kW (PS)]	Gen [kW _e]
6EY22LW	660 (897)	600	660 (897)	600
	745 (1013)	680	745 (1013)	680
	800 (1088)	740	800 (1088)	740
	880 (1197)	800	880 (1197)	800
	970 (1319)	900	970 (1319)	900
	1080 (1468)	1020	1080 (1468)	1020
6EY22ALW	900min ⁻¹		1000min ⁻¹	
	Eng [kW (PS)]	Gen [kW _e]	Eng [kW (PS)]	Gen [kW _e]
	880 (1197)	800	880 (1197)	800
	970 (1319)	900	970 (1319)	900
	1020 (1387)	950	1020 (1387)	950
	1100 (1496)	1000	1100 (1496)	1000
	1180 (1604)	1100	1180 (1604)	1100
	1300 (1768)	1200	1300 (1768)	1200
	1370 (1863)	1300	1370 (1863)	1300

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen.Set
6EY22LW (660~1080kW)	5452	3337	1678	2630	4120	1180	985	2907	11200	18500
6EY22ALW (880~1370kW)	5647	3337	1782	2675	4310	1180	985	2907	10500	18100



G : Minimum Height for Removing Piston

The engine dry weight and outline may differ depending upon the specifications and attached accessories.

6EY26LW

Generator Capacity

1300~1720kW_e

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 260 mm
 Piston Stroke 385 mm
 Engine Speed 720 / 750 min⁻¹
 Mean Effective Pressure 1.83 - 2.50 MPa
 Piston Speed 9.2 / 9.6 m/s

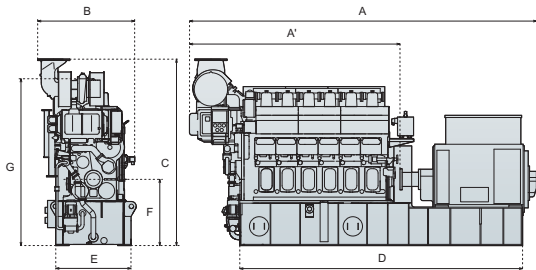
■ Rated Power

Engine Model	60Hz		50Hz	
	720min ⁻¹		750min ⁻¹	
	Eng [kW (PS)]	Gen [kW _e]	Eng [kW (PS)]	Gen [kW _e]
6EY26LW	1400 (1903)	1300	1400 (1903)	1300
	1620 (2203)	1500	1620 (2203)	1500
	1730 (2352)	1600	1730 (2352)	1600
	1840 (2502)	1720	1840 (2502)	1720

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen.Set
6EY26LW (1400~1620kW)	6474	3974	1832	3520	5270	1420	1250	3150	18500	29800
									(1730~1840kW)	6774



G : Minimum Height for Removing Piston

8EY26LW

Generator Capacity

1800~2300kWe
■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 8
 Cylinder Bore 260 mm
 Piston Stroke 385 mm
 Engine Speed 720 / 750 min⁻¹
 Mean Effective Pressure 1.86 - 2.50 MPa
 Piston Speed 9.2 / 9.6 m/s

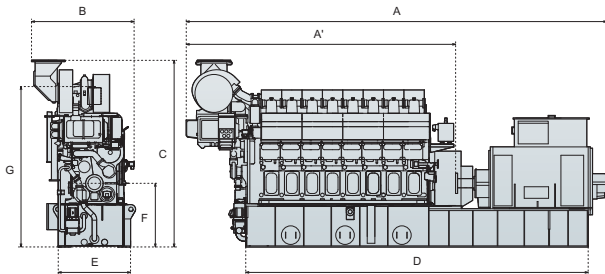
■ Rated Power

Engine Model	60Hz		50Hz	
	720min ⁻¹		750min ⁻¹	
	Eng [kW (PS)]	Gen [kWe]	Eng [kW (PS)]	Gen [kWe]
8EY26LW	1900 (2583)	1800	1900 (2583)	1800
	2030 (2760)	1900	2030 (2760)	1900
	2130 (2896)	2000	2130 (2896)	2000
	2245 (3052)	2100	2245 (3052)	2100
	2450 (3331)	2300	2450 (3331)	2300

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight										
									Engine	Gen.Set									
8EY26LW (1900-2130kW)	8258	5290	2015	3665	6720	1420	1250	3150	24500	40000									
									(2245kW)	8358	5290	2015	3665	6800	1420	1250	3150	24500	40200
									(2450kW)	8418	5290	2015	3665	6840	1420	1250	3150	24500	45000



G : Minimum Height for Removing Piston

The engine dry weight and outline may differ depending upon the specifications and attached accessories.

6N330LW

Generator Capacity

2200~2500kWe
■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 330 mm
 Piston Stroke 380 mm
 Engine Speed 720 / 750 min⁻¹
 Mean Effective Pressure 1.93 - 2.26 MPa
 Piston Speed 9.1 / 9.5 m/s

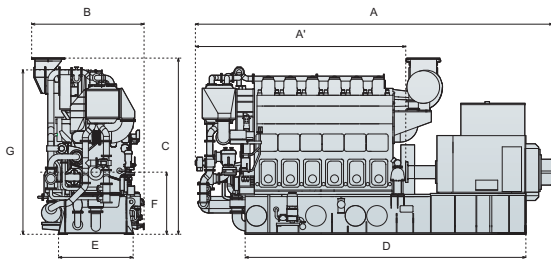
■ Rated Power

Engine Model	60Hz		50Hz	
	720min ⁻¹		750min ⁻¹	
	Eng [kW (PS)]	Gen [kWe]	Eng [kW (PS)]	Gen [kWe]
6N330L-EW	2354 (3200)	2200	2354 (3200)	2200
6N330L-GW	2648 (3600)	2500	2648 (3600)	2500

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen.Set
6N330L-EW (2354kW)	7651	4817	2622	4111	6740	1740	1450	3835	35000	52000
6N330L-GW (2648kW)	7651	4817	2622	4111	6740	1740	1450	3835	35000	52000



G : Minimum Height for Removing Piston

8N330LW

Generator Capacity

2600~3300kWe
■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 8
 Cylinder Bore 330 mm
 Piston Stroke 380 mm
 Engine Speed 720 / 750 min⁻¹
 Mean Effective Pressure 1.72 - 2.26 MPa
 Piston Speed 9.1 / 9.5 m/s

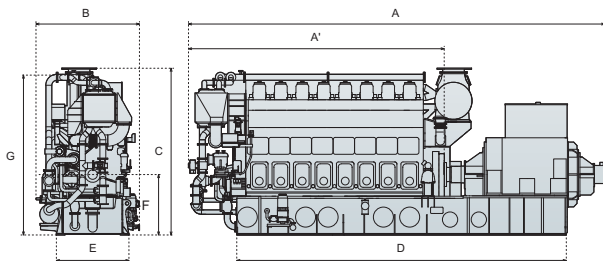
■ Rated Power

Engine Model	60Hz		50Hz	
	720min ⁻¹		750min ⁻¹	
	Eng [kW (PS)]	Gen [kWe]	Eng [kW (PS)]	Gen [kWe]
8N330L-UW	2795 (3800)	2600	2795 (3800)	2600
8N330L-SW	2942 (4000)	2750	2942 (4000)	2750
8N330L-EW	3089 (4200)	2900	3089 (4200)	2900
8N330L-GW	3530 (4800)	3300	3530 (4800)	3300

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen.Set
8N330L-UW (2795kW)	9550	5975	2480	4000	7900	1740	1450	3835	45000	71000
8N330L-SW (2942kW)	9550	5975	2480	4000	7900	1740	1450	3835	45000	71000
8N330L-EW (3089kW)	9550	5975	2480	4000	7900	1740	1450	3835	45000	71000
8N330L-GW (3530kW)	9550	5975	2480	4000	7900	1740	1450	3835	45000	71000



G : Minimum Height for Removing Piston

The engine dry weight and outline may differ depending upon the specifications and attached accessories.

6N21(A)LW

Generator Capacity

560~940kWe

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 210 mm
 Piston Stroke 290 mm
 Engine Speed 720 / 750, 900 / 1000 min⁻¹
 Mean Effective Pressure 1.48 - 2.26 MPa
 Piston Speed 7.0 - 9.7 m/s

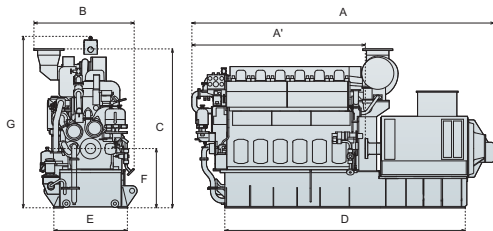
■ Rated Power

Engine Model	60Hz		50Hz	
	720min ⁻¹		750min ⁻¹	
	Eng [kW (PS)]	Gen [kWe]	Eng [kW (PS)]	Gen [kWe]
6N21L-DW	615 (836)	560	615 (836)	560
6N21L-UW	660 (897)	600	660 (897)	600
6N21L-SW	745 (1013)	680	745 (1013)	680
6N21L-EW	800 (1088)	740	800 (1088)	740
	900min ⁻¹		1000min ⁻¹	
	Eng [kW (PS)]	Gen [kWe]	Eng [kW (PS)]	Gen [kWe]
	6N21AL-DW	745 (1013)	680	745 (1013)
6N21AL-UW	800 (1088)	740	800 (1088)	740
6N21AL-SW	880 (1197)	800	880 (1197)	800
6N21AL-EW	970 (1319)	900	970 (1319)	900
6N21AL-GW	1020 (1387)	940	1020 (1387)	940

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen.Set
6N21L-DW (615kW)	4683	2783	1544	2410	3860	1180	950	2752	9100	14900
6N21L-UW (660kW)	4683	2783	1544	2410	3860	1180	950	2752	9100	14900
6N21L-SW (745kW)	4683	2783	1544	2410	3860	1180	950	2752	9100	14900
6N21L-EW (800kW)	4683	2783	1544	2410	3860	1180	950	2752	9100	14900
6N21AL-DW (745kW)	4853	2783	1544	2410	3860	1180	950	2752	8800	14700
6N21AL-UW (800kW)	4853	2783	1544	2410	3860	1180	950	2752	8800	14700
6N21AL-SW (880kW)	4853	2783	1584	2550	3860	1180	950	2752	8800	14700
6N21AL-EW (970kW)	4853	2783	1584	2550	3860	1180	950	2752	8800	14700
6N21AL-GW (1020kW)	4853	2783	1584	2550	3860	1180	950	2752	8800	14700



G : Minimum Height for Removing Piston

4HAL2

Generator Capacity
64~120kW

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 4
 Cylinder Bore 130 mm
 Piston Stroke 165 mm
 Engine Speed 1200 / 1500 / 1800 min⁻¹
 Mean Effective Pressure 0.81 - 1.05 MPa
 Piston Speed 6.6 / 8.3 / 9.9 m/s

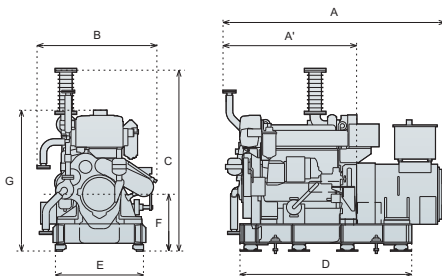
■ Rated Power

Engine Model	60Hz		50Hz	
	1200min ⁻¹		1500min ⁻¹	
	Eng [kW (PS)]	Gen [kW _e]	Eng [kW (PS)]	Gen [kW _e]
4HAL2-TN1	72 (98)	64	89 (121)	80
4HAL2-TN	90 (122)	80	115 (156)	100
4HAL2-WT	-	-	-	-
	1800min ⁻¹			
	Eng [kW (PS)]	Gen [kW _e]		
	4HAL2-TN1	116 (157)	104	
4HAL2-TN	-	-		
4HAL2-WT	135 (183)	120		

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen.Set
4HAL2-TN1 (72~116kW)	2070	1245	1117	1685	1600	820	529	1312	1030	1855
4HAL2-TN (90~115kW)	2070	1245	1117	1685	1600	820	529	1312	1030	1855
4HAL2-WT (135kW)	2070	1245	1117	1685	1600	820	529	1312	1030	1855



G : Minimum Height for Removing Piston

The engine dry weight and outline may differ depending upon the specifications and attached accessories.

6HAL2

Generator Capacity
80~280kW

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 130 mm
 Piston Stroke 165 mm
 Engine Speed 1200 / 1500 / 1800 min⁻¹
 Mean Effective Pressure 0.68 - 1.55 MPa
 Piston Speed 6.6 / 8.3 / 9.9 m/s

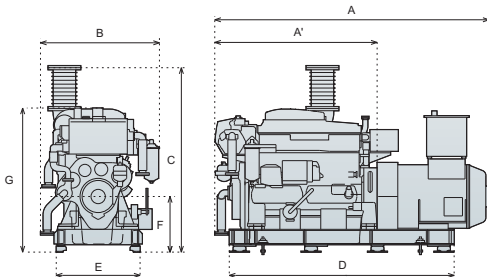
■ Rated Power

Engine Model	60Hz		50Hz	
	1200min ⁻¹		1500min ⁻¹	
	Eng [kW (PS)]	Gen [kW _e]	Eng [kW (PS)]	Gen [kW _e]
6HAL2-N	90 (122)	80	115 (156)	100
6HAL2-TN	120 (163)	104	-	-
6HAL2-WT	-	-	150 (204)	136
6HAL2-WHT	160 (217)	144	220 (299)	200
6HAL2-WDT	200 (271)	180	255 (346)	232
	1800min ⁻¹			
	Eng [kW (PS)]	Gen [kW _e]		
6HAL2-N	-	-		
6HAL2-TN	-	-		
6HAL2-WT	180 (244)	160		
6HAL2-WHT	265 (360)	240		
6HAL2-WDT	305 (414)	280		

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen. Set
6HAL2-N (90~115kW)	2499	1589	1164	1654	2100	820	544	1327	1380	2360
6HAL2-TN (120kW)	2499	1589	1164	1774	2100	820	544	1327	1422	2410
6HAL2-WT (150~180kW)	2499	1589	1164	1774	2100	820	544	1327	1422	2410
6HAL2-WHT (160~265kW)	2574	1589	1164	1804	2200	820	544	1327	1437	2750
6HAL2-WDT (200~305kW)	2684	1589	1164	1804	2200	820	544	1327	1447	2850



G : Minimum Height for Removing Piston

The engine dry weight and outline may differ depending upon the specifications and attached accessories.

6AYL

Generator Capacity
320~450kWe

■ Main Data

Type 4-stroke, Diesel
 No. of Cylinders In-line 6
 Cylinder Bore 155 mm
 Piston Stroke 180 mm
 Engine Speed 1500, 1800 min⁻¹
 Mean Effective Pressure 1.15 - 1.72 MPa
 Piston Speed 9.0 / 10.8 m/s

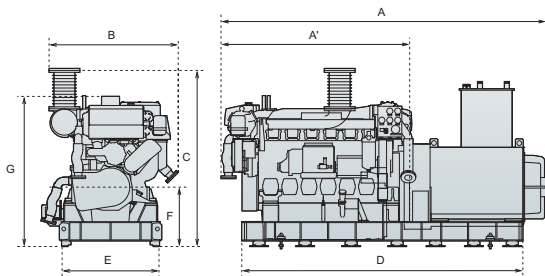
■ Rated Power

Engine Model	60Hz		50Hz	
	1800min ⁻¹		1500min ⁻¹	
	Eng [kW (PS)]	Gen [kWe]	Eng [kW (PS)]	Gen [kWe]
6AYL-WST	353 (480)	320	-	-
6AYL-WET	491 (668)	450	438 (596)	400

Above generator capacity will vary according to actual generator efficiency.

■ Dimensions [mm] / Weights [kg]

Engine Model	A	A'	B	C	D	E	F	G	Dry Weight	
									Engine	Gen.Set
6AYL-WST (353kW)	2970	1860	1445	1836	2540	1030	619	1565	2475	4600
6AYL-WET (438~491kW)	3040	1860	1445	1836	2600	1030	619	1565	2475	4750



G : Minimum Height for Removing Piston

The engine dry weight and outline may differ depending upon the specifications and attached accessories.

Marine Compressor C series

The Water-Cooled, Vertical, 2-Stage Compression

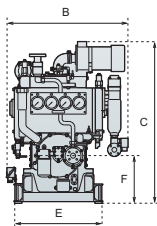
■ Specifications

Model	No. of Cyls	Pressure [MPa]	Rev [min ⁻¹]	Air Capacity [FA (m ³ /h)]	Motor Output [kW]
C185	1	2.45 / 2.94	1200	85 / 80	18.5
C220	1	2.45 / 2.94	1200	110 / 105	22
C300	1	2.45 / 2.94	1200	140 / 135	30
C370	2	2.45 / 2.94	1200	170 / 160	37
C450	2	2.45 / 2.94	1200	220 / 215	45
C550	2	2.45 / 2.94	1200	275 / 270	55

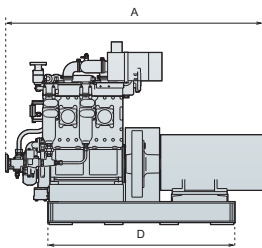
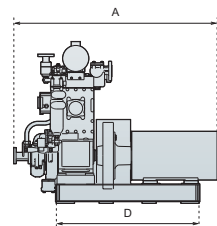
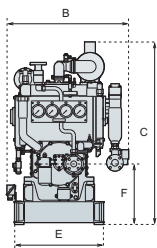
■ Dimensions [mm] / Weights [kg]

Model	A	B	C	D	E	F	Dry Weight	
							Comp.	Set
C185	1467	892	1160	1040	640	343	415	775
C220	1467	892	1160	1040	640	343	435	775
C300	1587	892	1160	1040	640	343	435	810
C370	1855	892	1250	1350	650	437	700	1170
C450	1875	892	1250	1350	650	437	740	1220
C550	1936	892	1250	1350	650	437	740	1365

**C185
C220
C300**

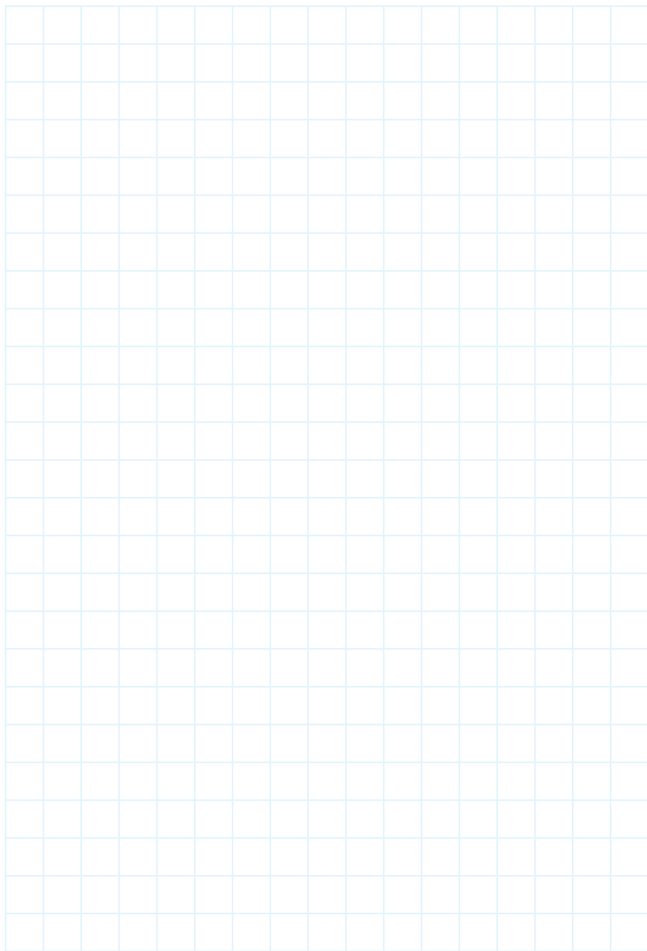


**C370
C450
C550**



The compressor dry weight and outline may differ depending upon the specifications and attached accessories. The dimensions and weight for motor set are reference value, the value may differ depending on the motor manufactures. Depending on the specifications or options that have been chosen, your model may differ slightly from the one in the outline.

Notes



Large Power Products Operations Division Amagasaki Plant

Development and Production of World-class Quality Large Diesel Engines

The Large Power Products Operations Division has a long history among YANMAR's wide variety of businesses. The Amagasaki Plant was the first plant to open in 1936 as the world's first practical small diesel engine plant. In time, the plant started mass-producing diesel engines and gas engines for ship propulsion, power generation, land application, and general use. The plant also started producing gas turbines in 1983. YANMAR is the only integrated manufacturer producing all of these products and other products by itself. In addition, we also promote automation and energy saving with the use of own high-performance specialized machines and state-of-the-art machines. We produce superior products through the establishment of an order entry system that suits the characteristics of products, and a superior quality control system.



Large Diesel Engine Assembly Process



Outfitting Process



Design using 3D-CAD



Amagasaki plant

The Amagasaki Plant has been certified by the world's 10 major ship classification societies.

Its voluntary inspection program was certified by the 10 ship classification societies for the first time in the world



Operation Process

Internationally Certified Quality Control and Environmental Response

In July 1992, the Large Power Products Operations Division was certified under ISO 9001⁻¹ by a certification authority in England, Lloyd's Register Quality Assurance Limited (LRQA). and in June 1997 under ISO 14001⁻² for the first time as a plant producing large land and marine diesel engines. In addition, we also met IMO emissions control regulations (with NOx emission values) (Tier I in 2000 and Tier II in 2011) for the first time as a Japanese engine manufacturer. Our advanced technological capabilities for environmental conservation are highly recognized worldwide.



⁻¹) ISO 9001: International Quality Control System Standard of the International Standardization Organization, (Certification No.912208)



⁻²) ISO 14001: International Environmental Management System Standard of the International Standardization Organization, (Certification No.:770250)

- NK [Nippon Kaiji Kyokai]
- ABS [American Bureau of Shipping]
- LR [Lloyd's Register of Shipping]
- DNV [Det Norske Veritas]
- RINA [Registro Italiano Navale]
- BV [Bureau Veritas]
- KR [Korean Register of Shipping]
- CCS [China Classification Society]
- GL [Germanischer Lloyd]
- IRS [Indian Register of Shipping]



Certifications of 10 major shipping classification associations

Worldwide Service Network



HEAD OFFICE / PLANT

JAPAN Country Code * 81 *

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Kita-ku, Osaka, Japan 530-8311
Web: www.yanmar.co.jp/en

- ◆ Yanmar (Tokyo) Export Dept.
Marine
1-1, 2-Chome, Yaesu, Chuo-ku,
Tokyo, Japan 104-8486
Tel: 3-3275-4909 Fax: 3-3275-4969

- ◆ Yanmar (Amagasaki Plant)
1-1,1-Chome, Nagasu Higashi-dori,
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Tel: 6-6489-8017 Fax: 6-6488-4009

Yanmar Engineering Co., Ltd.

- ◇ Yanmar Engineering (Head Office)
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Amagasaki, Hyogo, Japan 660-8585
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Web: www.yanmar.co.jp/ye/
• Overseas Engineering Division.
Tel: 6-6489-8048 Fax: 6-6481-6101

EUROPE

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- Ⓐ Yanmar Europe B.V. (YEU)
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Web: www.yanmar.nl/
- Nicoverken Holland B.V.
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The Netherlands
Tel: 10-2380999 Fax: 10-2380990
E-mail: shiprepair@nicoverken.nl
Web: www.nicoverken.nl
- Fuji Trading (Marine) B.V.
Kortenoord 2-8 3087 AR Rotterdam,
The Netherlands
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GREECE Country Code * 30 *

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Tel: 210-922-2481 Fax: 210-922-2484
E-mail: yanmargr@tee.gr / yanmar@weboffice.gr

U.K. Country Code * 44 *

- Shipaid Diesel Services Ltd
Units, 1&2, Plot 10, Westminster Trading Estate,
Westminster Road,
North Hykeham, Lincoln, LN6 3QY, U.K.
Tel: 1522-696642 Fax: 1522-695153

GERMANY Country Code * 49 *

- Nippon Diesel Service
Herman-Blohm-Strasse 1 D-20457
Hamburg, Germany
Tel: 40-3177100 Fax: 40-311598

ICELAND Country Code * 354 *

- Maras E.H.F
Akralind 2 201 Kópavogur Iceland
Tel: 555-6444 Fax: 565-7230
E-mail: maras@maras.is

RUSSIA Country Code * 7 *

- Elite Intercontinental Shipping
1 Gapsalskaya 709 ,Area Code 198035 ,
St.Petersburg ,Russia
Tel: 911-916-9495(24/7)/812-680-1713
Fax: 812-680-1702
E-mail: yanmar@elit-engine.ru
Web: www.elit-engine.ru

SPAIN Country Code * 34 *

- Skandiaverken, S.L.
Pol. Torrelarragoiti Parcela P7M,
Pabellón 1 y 2, 48170 Zamudio Bizkaia Spain
Tel: 94-452-0816 Fax: 94-452-0510
E-mail: skv@skvbermeo.com

TURKEY Country Code * 90 *

- Arasmak Deniz Endüstrisi
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Registered Tax No : 072 046 6424
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Istanbul, Turkey 34903
Tel: 216-493-4876 Fax: 216-493-6341
E-mail: aras@arasmak.com

AFRICA

SOUTH AFRICA Country Code * 27 *

- Seascape Marine Services (Pty) Ltd.
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Paarden Eiland 7405,
P.O. Box 63 Paarden Eiland 7420 South Africa
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P.O. Box 214831, Dubai, U.A.E.
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E-mail: ymrdubai@eim.ae
- Albwardy Marine Engineering
(L.L.C)
Al Jadaf Ship Docking Yard P.O.Box 6515,
Dubai, U.A.E.
Tel: 4-324-1001, 324-1561 Fax: 4-324-1005
Web: www.albwardymarine.com

- Goltens Co. Ltd. Dubai Branch
Al Jadaf Ship Docking Yard P.O. Box 2811,
Dubai, U.A.E
Tel: 4-324-1642 Fax: 4-324-1963
Web: www.goltens.com

ARAB REPUBLIC OF EGYPT

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- **Mapso-Alexandria Office**
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ASIA

CHINA Country Code * 86 *

- **(B)** Yanmar Engine (Shanghai) Co., Ltd.
10F, E-Block POLY PLAZA, No.18 Dongfang Road,
Pudong Shanghai, China P.R.C 200120
Tel: 21-6880-5090 Fax: 21-6880-8090
Web: www.yanmar-sha.com
- Goltens Shanghai Co., Ltd
Block No.5, No.533 Yuanzhong Road,
Nanhui Industrial Zone,
Nanhui District, Shanghai, China
Tel: 21-58186628 Fax: 021-58186633
E-mail: shanghai@goltens.com
- Tianjin Port Tug-Boat &
Lighter Company /
Yanmar Engine Service Center
No.383 Yongtai Road,
Tanggu District, Tianjin, China
Tel: 22-2570-7510 Fax: 22-2570-7510
- Dalian Wanfang Marine
Technology Co., Ltd
No.40 Aixian Street, Qixianling,
Dalian High-Tech Industrial Zone, China
Tel: 411-84799000 Fax: 411-84795678
E-mail: wf@china-wf.com
- Zhoushan Imc-Yy Shipyard &
Engineering Co., Ltd.
28, Mazhi West Road, Shenjiamen,
Putuo, Zhoushan, China, 316100
Tel: 580-3690896/3690518/3690577/3690882
Fax: 580-3690580
Web: www.imc-yy.com

INDIA Country Code * 91 *

- C** Yanmar India Private Limited
707 Real Tech Park, Sector 30/A,
Vashi, Navi Mumbai
Tel: 22-3969-4400 Fax: 22-3969-4410
- Ind-Aust Maritime Pvt Ltd.
C-6/2, T.T.C, M.I.D.C. Pawane, Turbhe,
Navi Mumbai
400 705, Maharashtra, India
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SINGAPORE Country Code * 65 *

- D** Yanmar Asia (Singapore)
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Web: www.yanmar.co.jp/yasc
- Chong Lee Leong Seng Co.,
(Pte) Ltd.
23 Tuas Avenue 2, Singapore 639454
Tel: 6264-2922 Fax: 6861-8785

HONG KONG Country Code * 852 *

- C** Yanmar Engineering (HK)
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Tel: 2833-9032 Fax: 2904-7783
E-mail: yanmarhk@yanmarhk.com.hk
- Cistar Tech HK Ltd
3/F., 81 Hing Wah Street West Lai Chi Kok,
Kowloon Hong Kong, China
Tel: 2775-0161 Fax: 2772-6054
E-mail: info@cistarkh.com
Web: www.cistarkh.com

PHILIPPINES Country Code * 63 *

- d** Yanmar Engineering Co., Ltd.
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Bldg 3, Berthaphil South, Bayanihan St.,
Jose Abad Santos Avenue,
Clark Freeport Zone 2023 Pampanga Philippines.
Tel: 45-499-1541/1542 Fax: 45-499-1543
- Seapowers Trading &
Industrial Services
316-A Mamatid Cabuyao, Laguna, Philippines
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E-mail: seapowers@pltdtsl.net

TAIWAN Country Code * 886 *

- e** Yanmar Engineering Co., Ltd.
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- f** Yanmar Engineering Co., Ltd.
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E-mail: yanmar-service@umail.hinet.net

- Yee Foo Marine Industrial Co., Ltd.
6F-3, No.369 Fusing North Road, Taipei,
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- Seikoh Co., Ltd.
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Kaohsiung, Taiwan
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KOREA Country Code * 82 *

- Hwa Ill Trading Co., Ltd.
#93, 2-GA, Namhang Dong,
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Tel: 51-412-6385 Fax: 51-414-8752
E-mail: hwaill@hwaill.co.kr
- Plus Service Co.
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Tel: 51-745-8200~1 Fax: 51-745-8203
E-mail: plusbusan@hanafos.com
- Chiba Marine Korea Co., Ltd.
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MALAYSIA Country Code * 60 *

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Tel: 84-333366 Fax: 84-314555
- Chong Lee Leong Seng
Enterprise Sdn Bhd
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THAILAND Country Code * 66 *

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103-107 Damronglatpipat Road
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Bangkok Thailand 10110
Tel: 2-249-8023 Fax: 2-249-7985
- Star Marine Engineering Co., Ltd
2 / 5 M11 Tumbol Bangphueng Phrapradaeng,
Samutprakarn, Thailand 10130
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E-mail: info@starmarineeng.com

MYANMAR Country Code * 95 *

- Umg Myanmar
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E-mail: sale-div@winstrategic.com.mm
- United Engineering Co., Ltd
UE Office Complex
UE Building : Corner of Wayzayantar & Yadanar
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Web: www.united-engineering.net

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Jalan Ir. H. Juanda, No.40-42 Jakarta 10120,
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- P.T. Pioneer
Jalan Ir. H. Juanda, No.40-42 Jakarta 10120,
Indonesia (P.O. Box 2502-Jakarta 10025)
Tel: 21-344-8486 Fax: 21-384-8995

OCEANIA

AUSTRALIA Country Code * 61 *

- Fogacs Cairncross Dockyard
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- Waterside Engineering Pty Ltd.
48-50 Export Drive, Brooklyn 3025,
Victoria Australia
Tel: 3-9314-3722 Fax: 3-9314-3799
E-mail: waterside@waterside-eng.com
- Jaitco
10199 Kurraba Road, Neutral Bay, N.S.W. 2089,
Australia
Tel: +81-89-956-8927 Fax: +81-89-956-8927
- Japan Marine Engineering Co.,Ltd
475 Warrigal Road Moorabbin Victoria Australia
3189
Tel: 3-9555-5277 Fax: 3-9555-5344
E-mail: sales@jmeaust.com.au

PAPUA NEW GUINEA

Country Code * 675 *

- Lutheran Shipping
P.O. Box 1459 Lae, Papua New Guinea
Tel: 42-6190 Fax: 42-5806 Telex: NE 44172

NORTH AMERICA

U.S.A. Country Code * 1 *

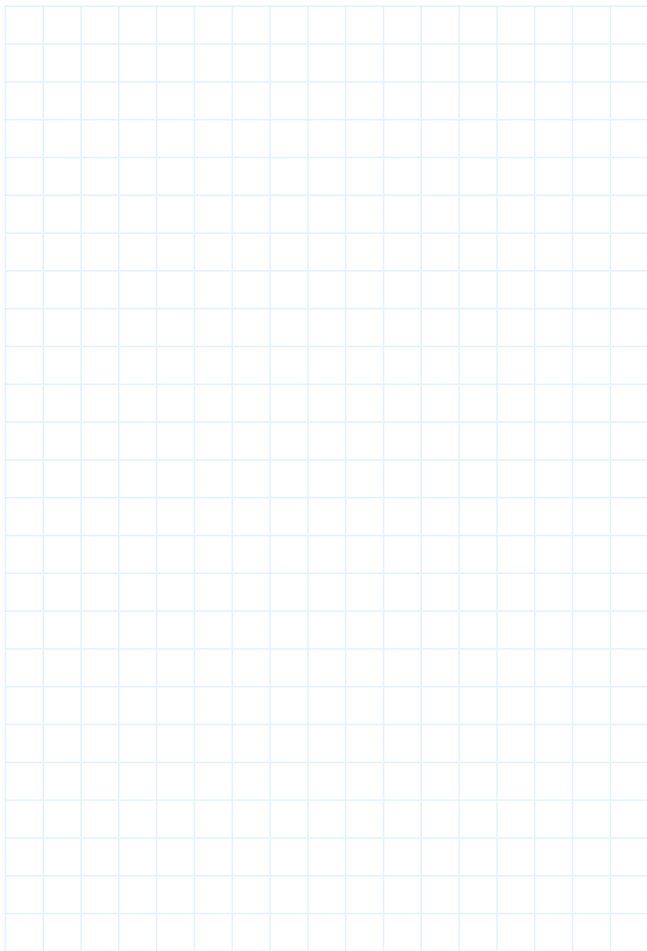
- Yanmar America Corp. (YA)
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101 International Parkway, Adairsville, GA 30103,
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Tel: 770-877-9894 Fax: 770-877-9009
Web: www.yanmar.com
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New York Branch
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NJ 07024 U.S.A.
Tel: 201-592-8500
- Marine Turbo & Diesel Inc.
1090 7th Street Richmond, Ca 94801, U.S.A.
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- Goltens New York Corp.
160 Van Brunt Street, Brooklyn, NY 11231, U.S.A.
Tel: 718-855-7200 Fax: 718-802-1147
- Goltens Miami Co. Inc.
2323 N.E.Miami Court Miami, Florida 33137 U.S.A.
Tel: 305-576-4410 Fax: 305-576-3827
- Transmarine Propulsion System, Inc
5434 West Crenshaw Tampa, Florida, 33634 U.S.A.
Tel: 813-830-9180 Fax: 813-830-9181
- United World Enterprise, Inc
6310 Winfree Houston, Texas 77087 U.S.A.
Tel: 713-641-1915 Fax: 713-641-2717

SOUTH AMERICA

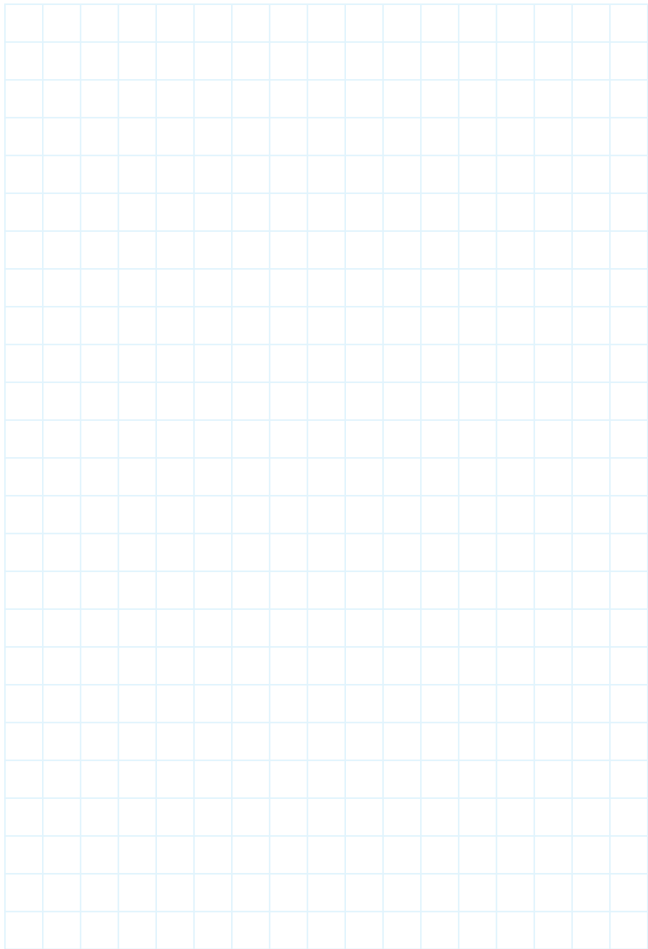
BRAZIL Country Code * 55 *


- Metalock do Brasil Ltda
Rua Visconde do Rio Branco 20/26, 11013-030,
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- Naproservice Offshore
Estaleiros do Brasil Ltda
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Notes



Notes





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