

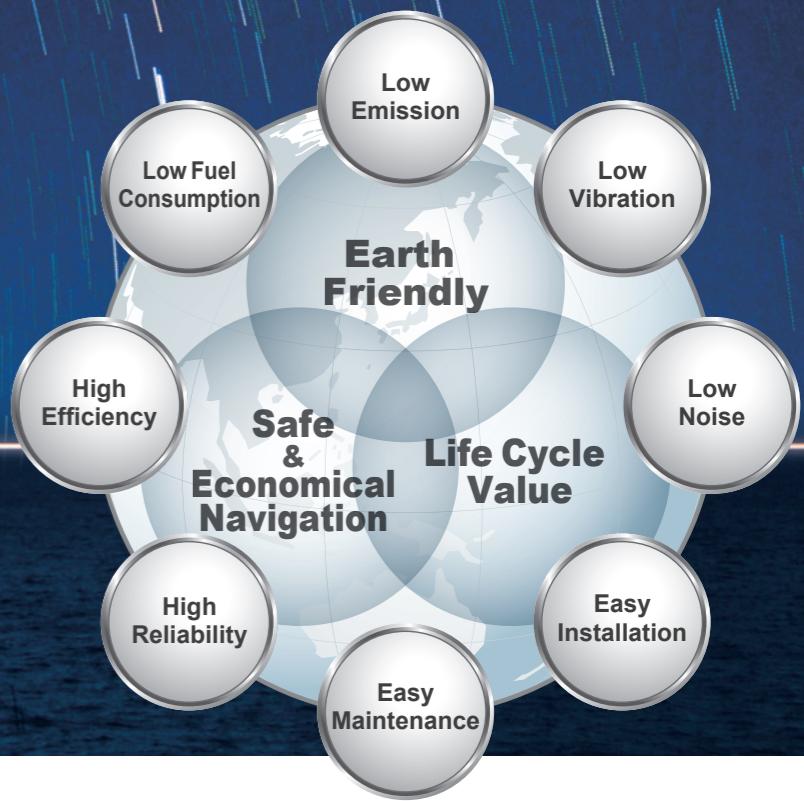
MARINE DIESEL ENGINE

Marine Propulsion | Power Range [368~3310 kW]

Marine Auxiliary | Generator Capacity [180~3300 kWe]



Where the stars always shine brightest.



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

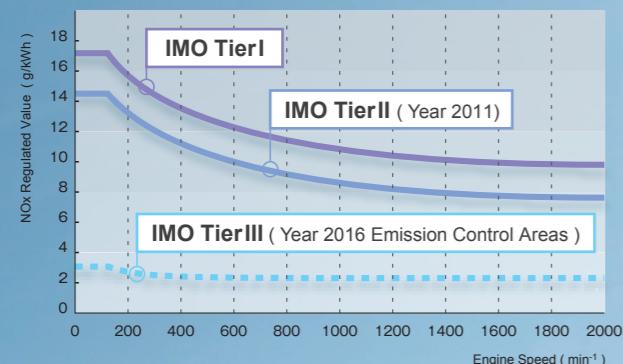
- YANMAR Power Solution, for Good Mileage and Good Environmental Goals -

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

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.

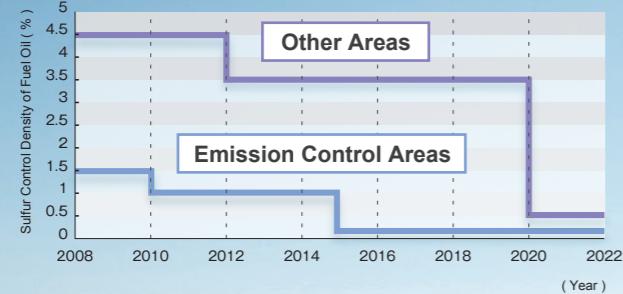
Harmony with the Environment – IMO Emission Limits –

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.

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.

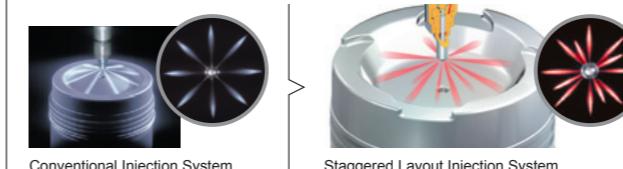
YANMAR marine diesel engines already comply with IMO Tier II emission requirement and meet the needs of our customers.

ASSIGN Combustion System



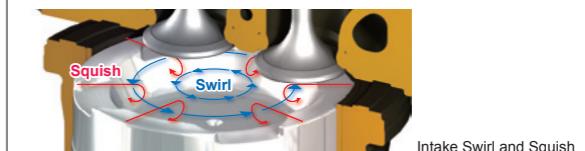
■ Staggered Layout Multi-Hole Nozzle

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



■ 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.



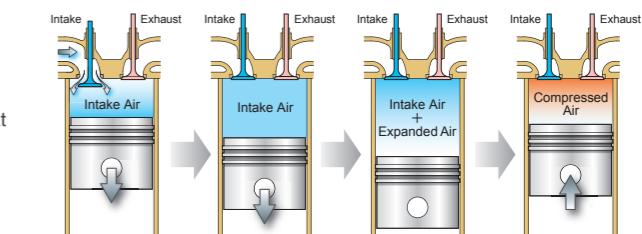
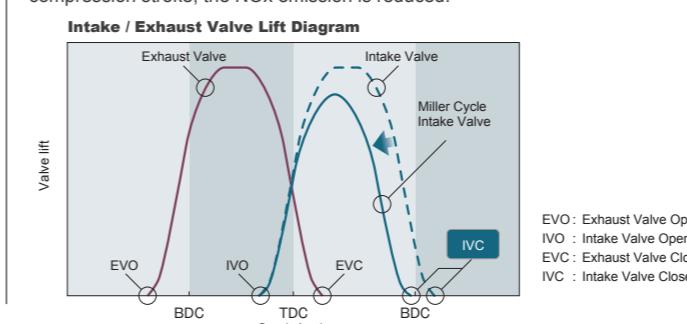
* Some models do not employ these technologies.

High Pressure Miller Cycle System

■ Miller Type Cam

Reduced air temperature before combustion → Decreasing NOx

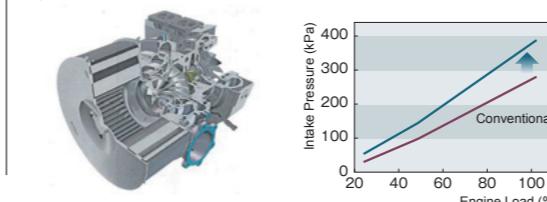
With the miller type cam in its intake stroke, the miller cycle closes the intake valve earlier than conventional combustion. By finishing the intake stroke earlier, the intake air expands and temperature in the cylinder decreases, and by reducing air temperature before combustion in the next compression stroke, the NOx emission is reduced.



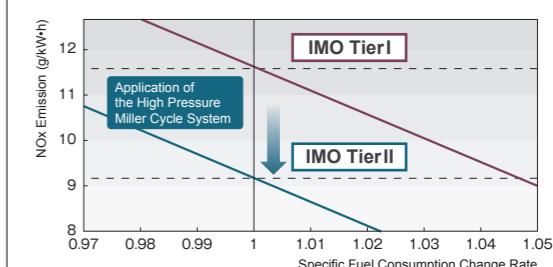
■ High Pressure Ratio Turbocharger

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 NOx Emission

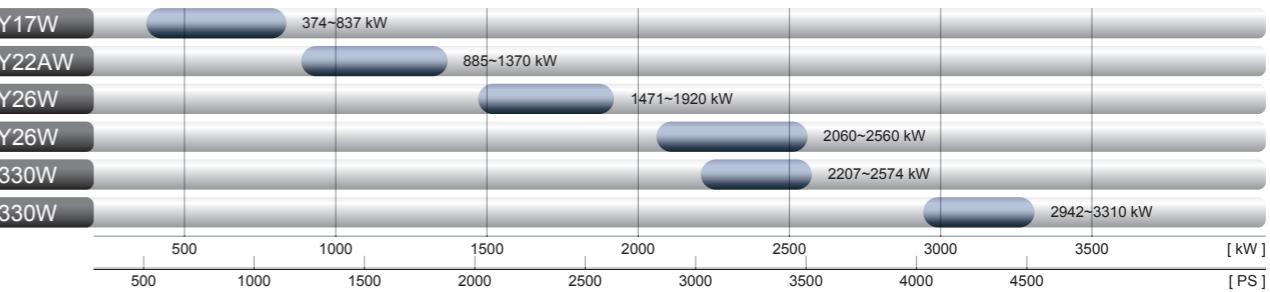


* Some models do not employ these technologies.

Marine Propulsion Diesel Engine Line-up



Power Range



Series	Models	Output (kW)						Gear	Dimensions (mm)										
		Engine Speed (min ⁻¹)																	
		620	750	800	900	1350	1450	1500	A	A1	A2	A3	B	C	D	E	F	G	
6EY17W	6EY17W				374				YXH-500	2908	2410	2154	615	1305	1813	620	682	349	1300
					480				YXH-500L	3091	2410	2154	794	1305	1813	620	862	429	1300
					590				YXH-500	2908	2410	2154	615	1305	1882	620	682	349	1300
						749	837		YXH-500L	3091	2410	2154	794	1305	1882	620	862	429	1300
6EY22AW	6EY22AW				885				YX-1000	4574	3647	2965	1488	1618	2416	666	885	435	1922
						1030			YX-1000C	4687	3647	2965	1601	1618	2416	666	450	-	1922
					1180				YX-1000	4603	3647	2965	1517	1618	2416	666	885	435	1922
					1330				YX-1000C	4636	3647	2965	1550	1618	2416	666	450	-	1922
6EY26W	6EY26W				1471				YXH-2000	4810	3647	2965	1807	1618	2416	666	1145	590	1922
						1620			YXH-2000C	4960	3647	2965	1957	1618	2416	666	555	-	1922
					1920				YXH-2000M	5702	4271	3563	1882	1804	3112	842	1145	590	1900
									YXH-2000MC	5880	4271	3563	2322	1804	3112	842	555	-	1900
8EY26W	8EY26W				2060				YXH-2000	5483	4271	3563	1882	1804	3112	842	1145	590	1900
					2210				YXH-2000C	5601	4271	3563	2070	1804	3112	842	555	-	1900
						2360			YXH-2500M	5710	4271	3563	1890	1804	3112	842	1145	590	1900
					2560				YXH-2500MC	5880	4271	3563	2320	1804	3112	842	555	-	1900
6N330W	6N330-UW				2060				YX-3500M	6912	5090	5022	1890	2085	3257	842	1427	777	1900
					2210				YX-3500MC	7481	5090	5022	2459	2085	3257	842	730	80	1900
	6N330-SW					2207			YX-3500	6836	5090	5022	1814	2085	3542	1127	1427	777	1900
					2472				YX-3500C	6898	5090	5022	1876	2085	2845	430	730	80	1900
6N330W	6N330-EW				2207				YX-3500M	6925	5090	5022	1903	2085	3257	842	1427	777	1900
					2474				YX-3500MC	7767	5600	4784	2983	2432	3667	1006	730	80	2348
	6N330-EW					2574			YX-3500	6847	5600	4784	2063	2432	3667	1006	1427	777	2348
									YX-3500C	7189	5600	4784	2405	2432	3667	1006	730	80	2348
8N330W	8N330-UW				2942				MGR8044V96	8275	6640	5826	2449	1943	3557	1006	1730	860	2348
					3163				MGN8044V96	8275	6640	5826	2449	1943	3557	1006	1730	860	2348
					3310														
6RY17W	6RY17W					368			YXH-240-1	2723	2170	2018	615	1147	1759	595	608	313	1250
	6RY17P-EW					478			YXH-240-1	2723	2170	2018	615	1147	1769	595	608	313	1250
						552			YXH-240-1	2723	2170	2018	615	1152	1779	595	608	313	1250
6N21AW	6N21A-DW				662				Y-850	3920	2776	2733	1158	1420	2081	601	814	359	1802
									YC-850	4051	2776	2733	1289	1420	2081	601	455	-	1802
	6N21A-UW				736				YX-1000	4053	2776	2733	1199	1420	2081	601	885	435	1802
6N21AW	6N21A-SW				883*				YX-1000	4059	2776	2733	1205	1420	2081	601	885	435	1802
					956*				YX-1000C	4092	2776	2733	1238	1420	2081	601	450	-	1802

* 850min⁻¹

**Marine Propulsion Diesel Engine
6EY17W**

• Power : 374~837kW

Dimensions

G : Minimum Height for Removing Piston

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications		6EY17W				
Engine Model						
No. of Cylinders		6				
Cylinder Bore×Stroke	mm	170×230				
Rated Output	kW(PS)	374 (508)	480 (653)	590 (802)	749 (1018)	837 (1138)
Engine Speed	min ⁻¹	1350				1450
Dry Weight	kg	3880				
Propeller Type		for F.P.P.				
Marine Gear Model	Offset	YXH-500				
	Co-Axial	YXH-500L				
Reduction Gear Ratio (Ahead)	Offset	2.53, 3.04, 3.48				
	Co-Axial	3.57, 4.07, 4.48, 4.96				
Marine Gear Dry Weight	kg	700				
	Offset	1667				
Total Dry Weight with Marine Gear	kg	4580				
	Offset	5547				

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

**Marine Propulsion Diesel Engine
6EY22AW**

• Power : 885~1370kW

Dimensions

G : Minimum Height for Removing Piston

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications		6EY22AW				
Engine Model						
No. of Cylinders		6				
Cylinder Bore×Stroke	mm	220×320				
Rated Output	kW(PS)	885 (1203)	1030 (1400)	1180 (1604)	1330 (1808)	1370 (1863)
Engine Speed	min ⁻¹	900				
Dry Weight	kg	10000				
Propeller Type		for F.P.P.				
Marine Gear Model	Offset	YX-1000				
	Co-Axial	YX-1000C				
Reduction Gear Ratio (Ahead)	Offset	2.03, 2.36, 2.78, 3.32				
	Co-Axial	2.03, 2.36, 2.78, 3.32				
Marine Gear Dry Weight	kg	2400				
	Offset	4750				
Total Dry Weight with Marine Gear	kg	2565				
	Offset	5050				
	Co-Axial	14861				
	Offset	15161				

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

**Marine Propulsion Diesel Engine
6EY26W**

• Power : 1471~1920kW

Dimensions

G : Minimum Height for Removing Piston

This Photograph Shows Model 6EY26. (IMO Tier I).

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications		6EY26W				
Engine Model						
No. of Cylinders		6				
Cylinder Bore×Stroke	mm	260×385				
Rated Output	kW(PS)	1471 (2000)	1620 (2203)	1920 (2610)		
Engine Speed	min ⁻¹	750				
Dry Weight	kg	18500				
Propeller Type		for C.P.P.	for F.P.P.	for C.P.P.	for F.P.P.	for C.P.P.
Marine Gear Model	Offset	YXH-2000M	YXH-2000	YXH-2500M	YXH-2500	YXH-2500
	Co-Axial	YXH-2000MC	YXH-2000C	YXH-2500MC	YXH-2500C	YXH-2500C
Reduction Gear Ratio (Ahead)	Offset	2.23, 2.58, 2.79, 3.03				
	Co-Axial	2.23, 2.58, 2.79, 3.03				
Marine Gear Dry Weight	kg	3900	4750	3950	4800	3950
	Offset	4300	5050	4400	5150	4400
Total Dry Weight with Marine Gear	kg	22549	23349	22640	23490	22640
	Offset	22949	23649	23090	23840	23090
	Co-Axial	22949	23649	23090	23840	23090

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

**Marine Propulsion Diesel Engine
8EY26W**

• Power : 2060~2560kW

Dimensions

G : Minimum Height for Removing Piston

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications		8EY26W				
Engine Model						
No. of Cylinders		8				
Cylinder Bore×Stroke	mm	260×385				
Rated Output	kW(PS)	2060 (2801)	2210 (3005)	2360 (3209)	2560 (3481)	
Engine Speed	min ⁻¹	750				
Dry Weight	kg	24500				
Propeller Type		for C.P.P.	for F.P.P.	for C.P.P.	for F.P.P.	for C.P.P.
Marine Gear Model	Offset	YX-3500M	YX-3500	YX-3500M	YX-3500	YX-3500M
	Co-Axial	YX-3500MC	YX-3500C	YX-3500MC	YX-3500C	YX-3500MC
Reduction Gear Ratio (Ahead)	Offset	2.55, 2.80, 3.09, 3.31				
	Co-Axial	2.31, 2.54, 2.80, 3.00				
Marine Gear Dry Weight	kg	8700	9400	8700	9400	8700
	Offset	8400	9100	8400	9100	8400
Total Dry Weight with Marine Gear	kg	33428	34128	33428	34128	33428
	Offset	33128	33828	33128	33828	33128
	Co-Axial	33128	33828	33128	33828	33128

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

**Marine Propulsion Diesel Engine
6N330W**

• Power : 2207~2574kW

Dimensions

G : Minimum Height for Removing Piston

This Photograph Shows Model 6N330. (IMO Tier I).

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications		Engine Model	6N330-UW	6N330-SW	6N330-EW
No. of Cylinders			6		
Cylinder Bore×Stroke		mm	330×440		
Rated Output	kW(PS)	2207 (3000)	2427 (3300)	2574 (3500)	
Engine Speed	min ⁻¹		620		
Dry Weight	kg		34000		
Propeller Type		for C.P.P.	for F.P.P.	for C.P.P.	for F.P.P.
Marine Gear Model	Offset	YX-3500M	YX-3500	YX-3500M	YX-3500
	Co-Axial	YX-3500MC	YX-3500C	YX-3500MC	YX-3500C
Reduction Gear Ratio (Ahead)		Offset	2.55, 2.80, 3.09, 3.31		
		Co-Axial	2.31, 2.54, 2.80, 3.00		
Marine Gear Dry Weight	Offset	8700	9400	8700	9400
	kg	8400	9100	8400	9100
Total Dry Weight with Marine Gear		Offset	42985	43685	42985
		kg	42685	43385	42685
The engine dry weight and outline may differ depending upon the specifications and attached accessories.					

**Marine Propulsion Diesel Engine
6RY17W**

• Power : 368~736kW

Dimensions

G : Minimum Height for Removing Piston

This Photograph Shows Model 6RY17. (IMO Tier I).

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications		Engine Model	6RY17W	6RY17P-EW	6RY17P-GW
No. of Cylinders			6		
Cylinder Bore×Stroke		mm	165×219		
Rated Output	kW(PS)	368 (500)	478 (650)	552 (750)	625 (850)
Engine Speed	min ⁻¹		1500		
Dry Weight	kg	3939	3972	3981	
Propeller Type		for F.P.P.			
Marine Gear Model	Offset	YXH-240-1			
	Co-Axial	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	
Total Dry Weight with Marine Gear		kg	4548	4581	4590
The engine dry weight and outline may differ depending upon the specifications and attached accessories.					

**Marine Propulsion Diesel Engine
8N330W**

• Power : 2942~3310kW

Dimensions

G : Minimum Height for Removing Piston

This Photograph Shows Model 8N330. (IMO Tier I).

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications		Engine Model	8N330-UW	8N330-SW	8N330-EW
No. of Cylinders			8		
Cylinder Bore×Stroke		mm	330×440		
Rated Output	kW(PS)	2942 (4000)	3163 (4300)	3310 (4500)	
Engine Speed	min ⁻¹		620		
Dry Weight	kg	43000			
Propeller Type		for C.P.P.	for F.P.P.	for C.P.P.	for F.P.P.
Marine Gear Model	Offset	MGR8044V96	MGN8044V96	MGR8044V96	MGN8044V96
	Co-Axial				
Reduction Gear Ratio (Ahead)		Offset	2.53, 3.03, 3.55, 4.00, 4.46		
Marine Gear Dry Weight		kg	14200	13700	14200
Total Dry Weight with Marine Gear		kg	57538	57038	57538
The engine dry weight and outline may differ depending upon the specifications and attached accessories.					

**Marine Propulsion Diesel Engine
6N21AW**

• Power : 662~956kW

Dimensions

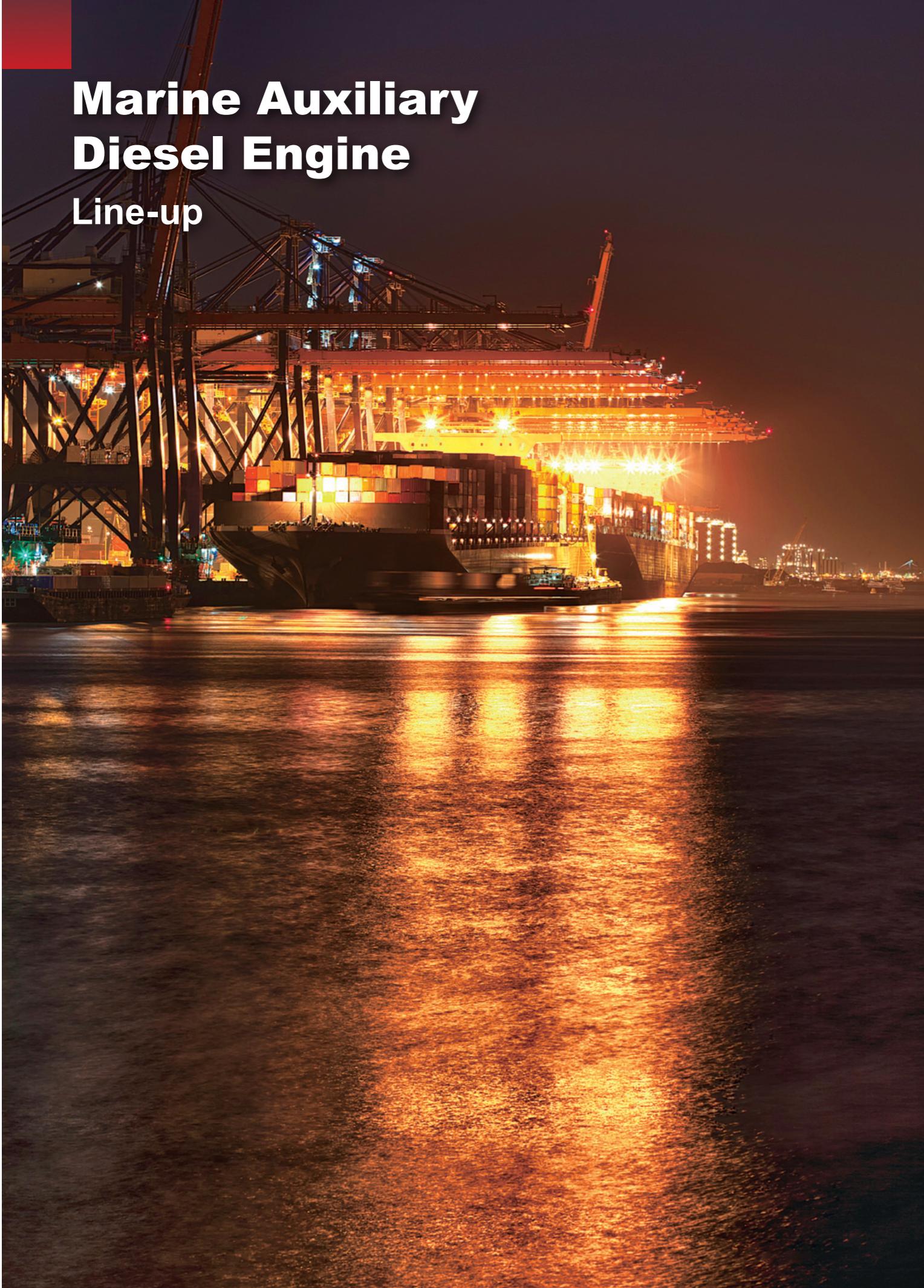
G : Minimum Height for Removing Piston

This Photograph Shows Model 6N21A. (IMO Tier I).

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications		Engine Model	6N21A-DW	6N21A-UW	6N21A-SW	6N21A-EW
No. of Cylinders			6			
Cylinder Bore×Stroke		mm	210×290			
Rated Output	kW(PS)	662 (900)	736 (1000)	883 (1200)	956 (1300)	
Engine Speed	min ⁻¹		800		850	
Dry Weight	kg	8000				
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		Offset	2050		2400	
		kg	2150		2565	
Total Dry Weight with Marine Gear		kg	10128	10478	10494	
		kg	10228	10643	10659	
The engine dry weight and outline may differ depending upon the specifications and attached accessories.						

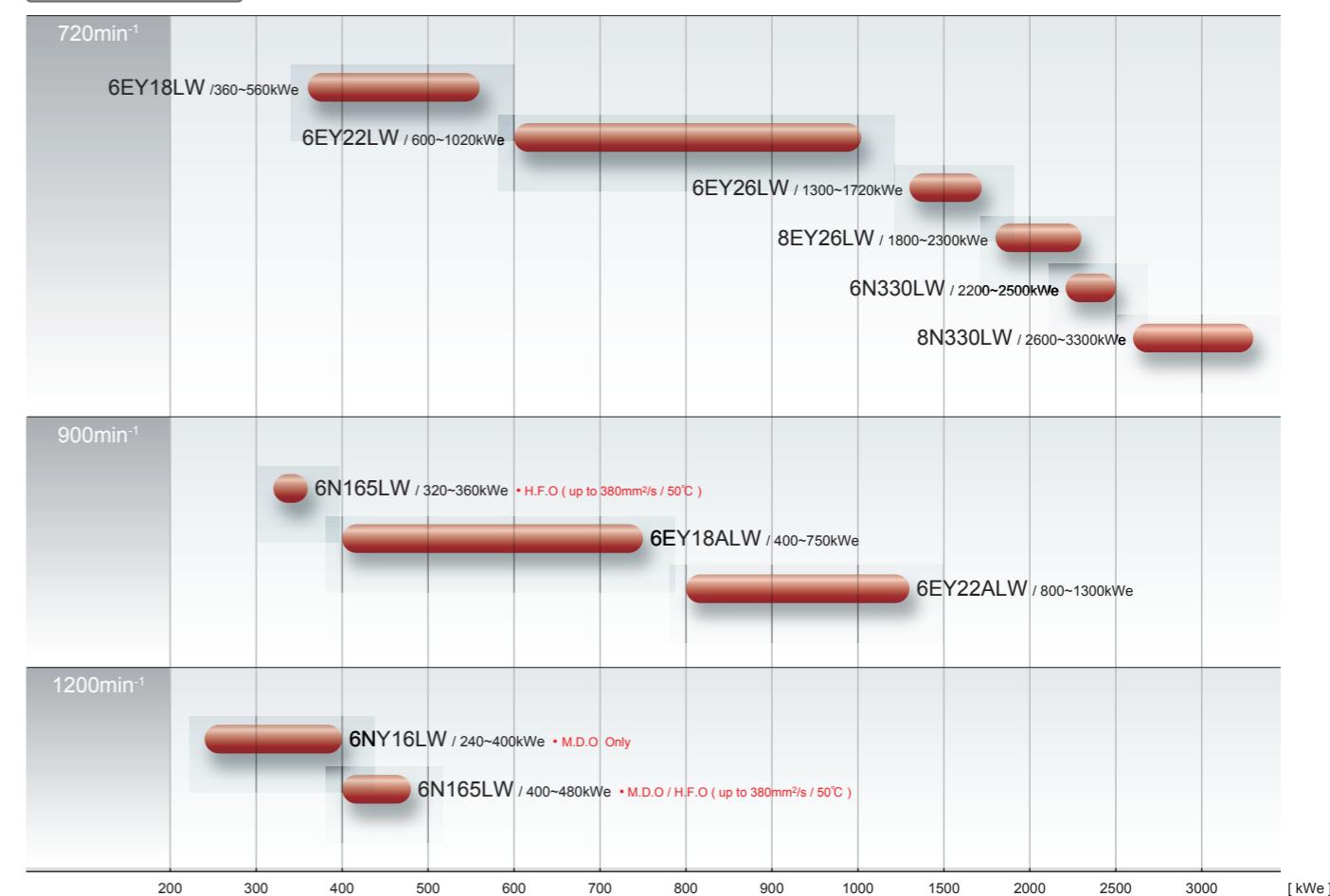
Marine Auxiliary Diesel Engine Line-up



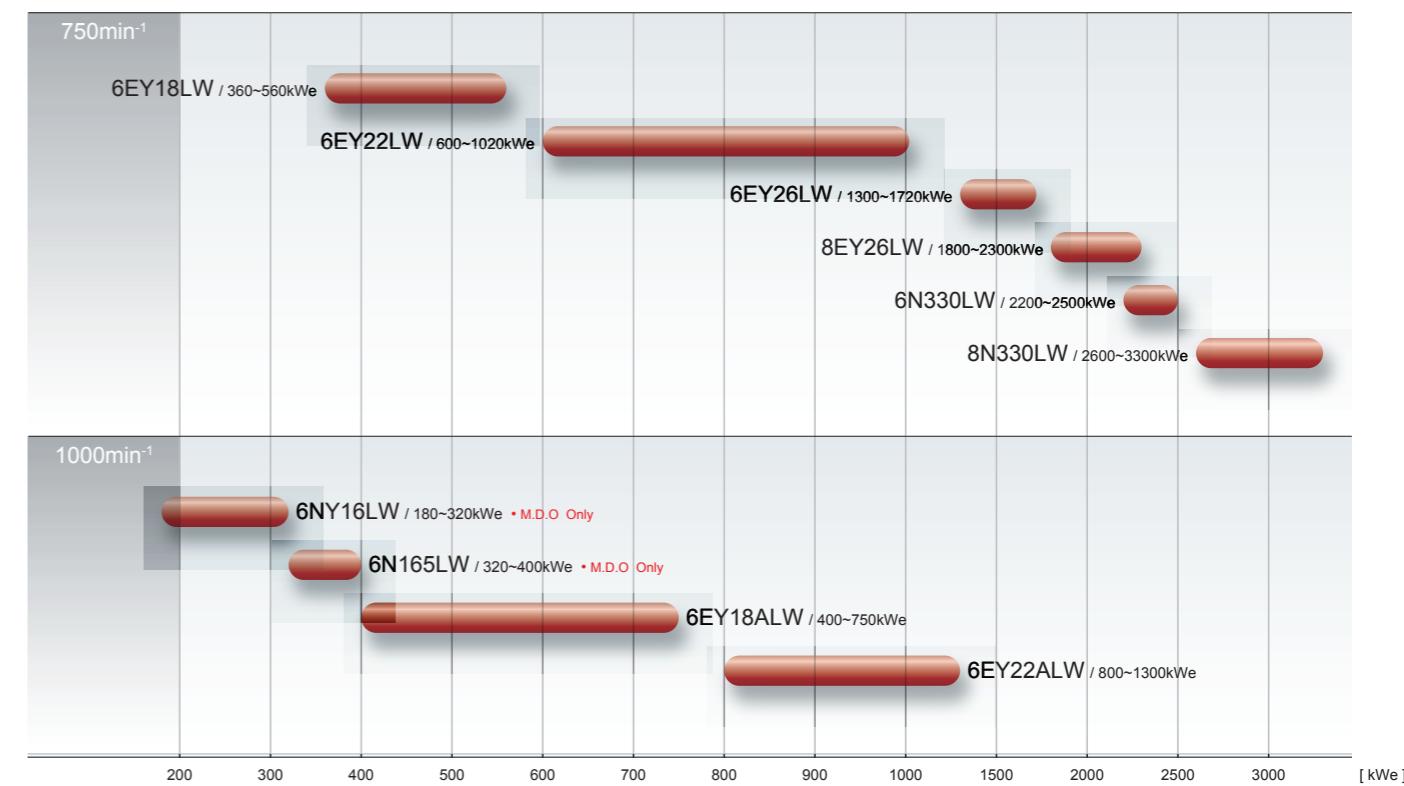
Generator Capacity

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

60Hz



50Hz



Series	Models	Output (kW)					Dimensions (mm)						
		Engine Speed (min ⁻¹)					Dimensions (mm)						
		720	750	900	1000	1200	A	A'	B	C	D	E	F
6NY16LW	6NY16L-HW			200	265	3097	1972	1265	1813	2530	940	800	1983
	6NY16L-DW			245	310	3097	1972	1265	1813	2530	940	800	1983
	6NY16L-UW			270	355	3117	1972	1265	1813	2530	940	800	1983
	6NY16L-SW			310	400	3112	1972	1265	1813	2530	940	800	1983
	6NY16L-EW			353	441	3172	1972	1265	1813	2530	940	800	1983
6N165LW	6N165L-UW			353	441	3182	1982	1341	1999	2700	990	800	2105
	6N165L-SW		353			3332	2012	1557	1999	2800	990	800	2105
			397	485		3332	2012	1341	1999	2800	990	800	2105
	6N165L-EW		397			3332	2012	1557	1999	2800	990	800	2105
			441	530		3332	2012	1341	1999	2800	990	800	2105
6EY18LW	6EY18LW	400 ~ 615				4441	2751	1493	2255	3620	1070	915	2564
6EY18ALW	6EY18ALW		455 ~ 615			4391	2751	1489	2255	3620	1070	915	2564
			660 ~ 800			4680	2751	1489	2255	3720	1070	915	2564
6EY22LW	6EY22LW	660 ~ 1080				5452	3337	1678	2630	4120	1180	985	2907
6EY22ALW	6EY22ALW		880 ~ 1370			5647	3337	1782	2675	4310	1180	985	2907
6EY26LW	6EY26LW	1400 ~ 1620				6474	3974	1847	3520	5270	1420	1250	3150
		1730 ~ 1840				6774	3974	1847	3520	5270	1420	1250	3150
8EY26LW	8EY26LW	1900 ~ 2130				8258	5290	2030	3665	6720	1420	1250	3150
		2245				8358	5290	2030	3665	6800	1420	1250	3150
		2450				8418	5290	2030	3665	6840	1420	1250	3150
6N330LW	6N330L-EW	2354				7651	4817	2622	4111	6740	1740	1450	3835
	6N330L-GW	2648				7651	4817	2622	4111	6740	1740	1450	3835
8N330LW	8N330L-UW	2795				9550	5975	2480	4000	7900	1740	1450	3835
	8N330L-SW	2942				9550	5975	2480	4000	7900	1740	1450	3835
	8N330L-EW	3089				9550	5975	2480	4000	7900	1740	1450	3835
	8N330L-GW	3530				9550	5975	2480	4000	7900	1740	1450	3835
6N21LW	6N21L-DW	615				4683	2783	1544	2410	3860	1180	950	2752
	6N21L-UW	660				4683	2783	1544	2410	3860	1180	950	2752
	6N21L-SW	745				4683	2783	1544	2410	3860	1180	950	2752
	6N21L-EW	800				4683	2783	1544	2410	3860	1180	950	2752
6N21ALW	6N21AL-DW		745			4853	2783	1544	2410	3860	1180	950	2752
	6N21AL-UW		800			4853	2783	1544	2410	3860	1180	950	2752
	6N21AL-SW		880			4853	2783	1584	2550	3860	1180	950	2752
	6N21AL-EW		970			4853	2783	1584	2550	3860	1180	950	2752
	6N21AL-GW		1020			4853	2783	1584	2550	3860	1180	950	2752

The dimensions for the diesel engine generator sets are simply reference values. The values may differ for different generator manufacturers.

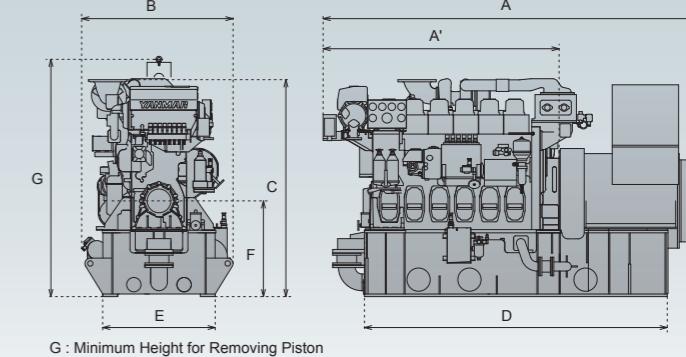
Marine Auxiliary Diesel Engine

6NY16LW

• Generator Capacity : 180~400kWe



Dimensions



The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications

Engine Model	6NY16L-HW	6NY16L-DW	6NY16L-UW	6NY16L-SW	6NY16L-EW
No. of Cylinders				6	
Cylinder Bore×Stroke	mm			160×200	
Rated Output	kW(PS)	200 (272)	265 (360)	245 (333)	310 (421)
Generator Capacity	kWe	180	240	220	280
Engine Speed	min ⁻¹	1000	1200	1000	1200
Dry Weight	kg				2880
Total Weight (Gen.Set)	kg				5870

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

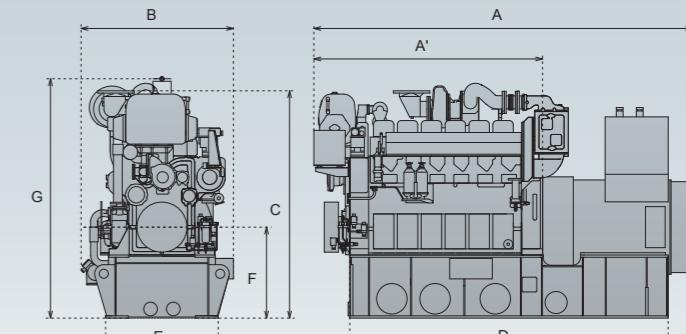
Marine Auxiliary Diesel Engine

6N165LW

• Generator Capacity : 320~480kWe



Dimensions



This Photograph Shows Model 6N165L. (IMO Tier I).

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications

Engine Model	6N165L-UW	6N165L-SW	6N165L-EW
No. of Cylinders			6
Cylinder Bore×Stroke	mm		165×232
Rated Output	kW(PS)	353 (480)	441 (600)
Generator Capacity	kWe	320	400
Engine Speed	min ⁻¹	1000	1200
Dry Weight	kg		4100
Total Weight (Gen.Set)	kg	6410	7160

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

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

**Marine Auxiliary Diesel Engine
6EY18(A)LW**

• Generator Capacity : 360~750kWe

Dimensions

G : Minimum Height for Removing Piston

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications													
Engine Model		6EY18LW						6EY18ALW					
No. of Cylinders		6											
Cylinder Bore×Stroke mm		180×280											
Rated Output kW(PS)	400 (544)	450 (612)	500 (680)	550 (748)	615 (836)	455 (619)	500 (680)	550 (748)	615 (836)	660 (897)	680 (925)	745 (1013)	800 (1088)
Generator Capacity kWe	360	400	450	500	560	400	450	500	560	600	620	680	750
Engine Speed min ⁻¹	720/750	720/750	720/750	720/750	720/750	900/1000	900/1000	900/1000	900/1000	900/1000	900/1000	900/1000	900/1000
Dry Weight kg	6600												
Total Weight (Gen.Set) kg	11200						12100						

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

**Marine Auxiliary Diesel Engine
6EY22(A)LW**

• Generator Capacity : 600~1300kWe

Dimensions

G : Minimum Height for Removing Piston

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications													
Engine Model		6EY22LW						6EY22ALW					
No. of Cylinders		6											
Cylinder Bore×Stroke mm		220×320											
Rated Output kW(PS)	660 (897)	745 (1013)	800 (1088)	880 (1197)	970 (1319)	1080 (1468)	880 (1197)	970 (1319)	1020 (1387)	1100 (1496)	1180 (1604)	1300 (1768)	1370 (1863)
Generator Capacity kWe	600	680	740	800	900	1020	800	900	950	1000	1100	1200	1300
Engine Speed min ⁻¹	720/750	720/750	720/750	720/750	720/750	900/1000	900/1000	900/1000	900/1000	900/1000	900/1000	900/1000	900/1000
Dry Weight kg	11200						10500						
Total Weight (Gen.Set) kg	18500						18100						

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

**Marine Auxiliary Diesel Engine
6EY26LW**

• Generator Capacity : 1300~1720kWe

Dimensions

G : Minimum Height for Removing Piston

The photograph and outline may differ depending upon the specifications and attached accessories.

Specifications													
Engine Model		6EY26LW											
No. of Cylinders		6											
Cylinder Bore×Stroke mm		260×385											
Rated Output kW(PS)	1400 (1903)	1620 (2203)	1730 (2352)	1840 (2502)									
Generator Capacity kWe	1300	1500	1600	1720									
Engine Speed min ⁻¹	720/750	720/750	720/750	720/750									
Dry Weight kg	18500						29800						30600

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

**Marine Auxiliary Diesel Engine
8EY26LW**

• Generator Capacity : 1800~2300kWe

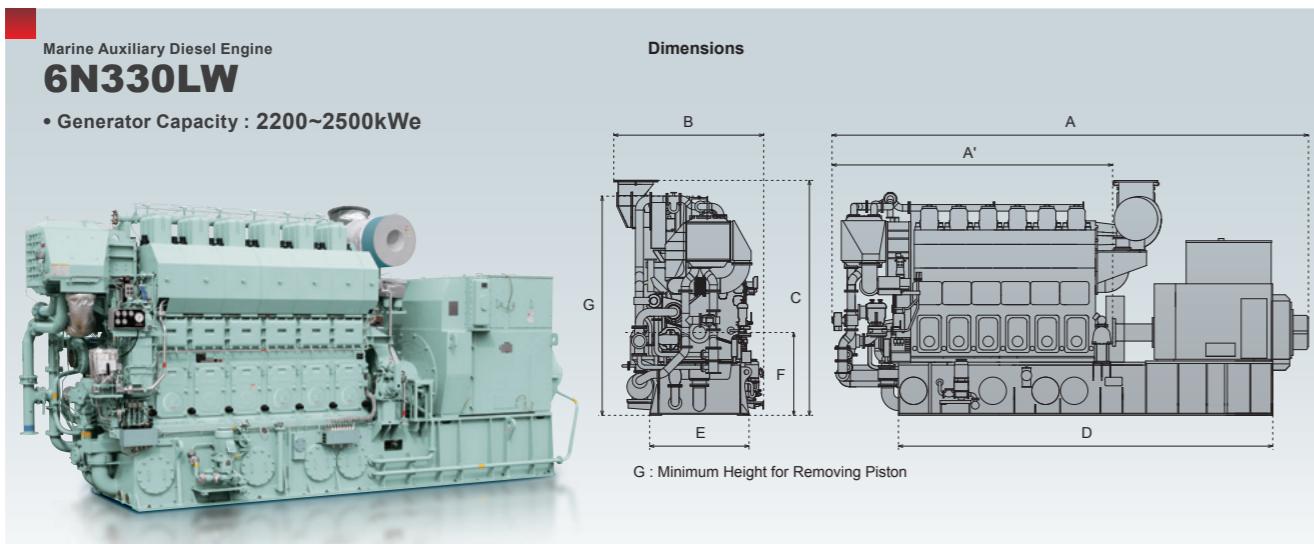
Dimensions

G : Minimum Height for Removing Piston

The photograph and outline may differ depending upon the specifications and attached accessories.

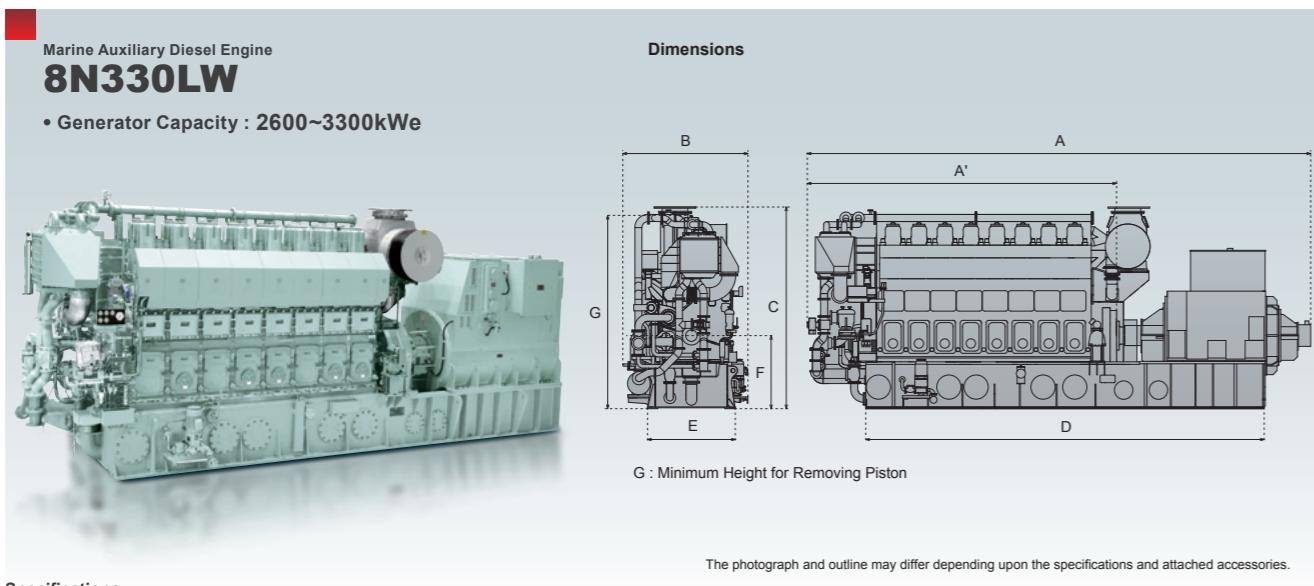
Specifications													
Engine Model		8EY26LW											
No. of Cylinders		8											
Cylinder Bore×Stroke mm		260×385											
Rated Output kW(PS)	1900 (2583)	2030 (2760)	2130 (2896)	2245 (3052)	2450 (3331)								
Generator Capacity kWe	1800	1900	2000	2100	2300								
Engine Speed min ⁻¹	720/750	720/750	720/750	720/750	720/750								
Dry Weight kg	24500						40000						40200
Total Weight (Gen.Set) kg	40000						45000						

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



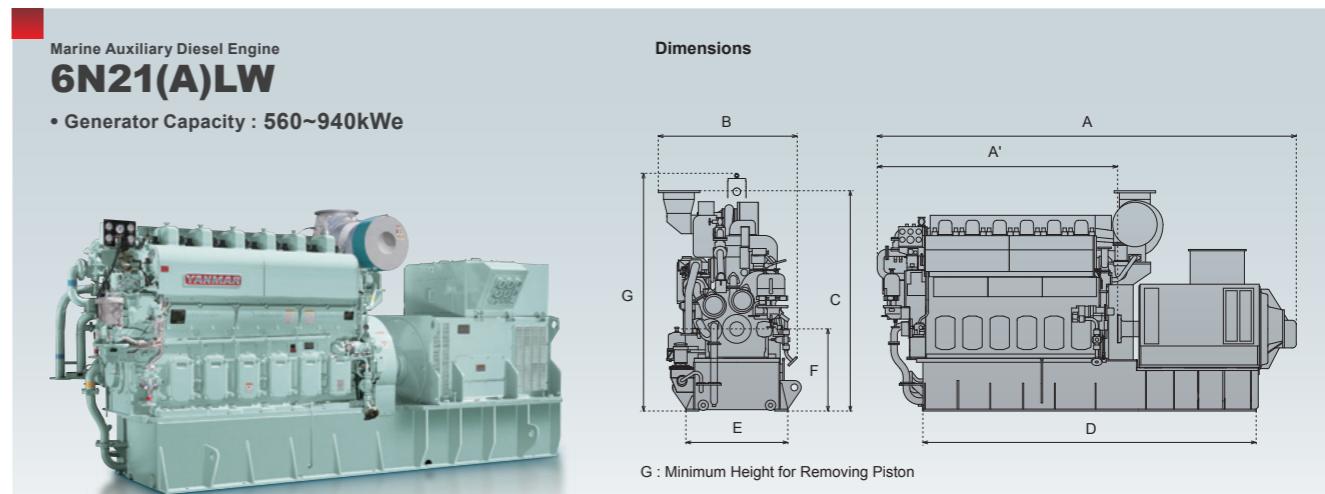
Specifications		
Engine Model	6N330L-EW	6N330L-GW
No. of Cylinders	6	
Cylinder Bore×Stroke mm	330×380	
Rated Output kW(PS)	2354 (3200)	2648 (3600)
Generator Capacity kWe	2200	2500
Engine Speed min ⁻¹	720/750	720/750
Dry Weight kg	35000	
Total Weight (Gen.Set) kg	52000	

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



Specifications				
Engine Model	8N330L-UW	8N330L-SW	8N330L-EW	8N330L-GW
No. of Cylinders	8			
Cylinder Bore×Stroke mm	330×380			
Rated Output kW(PS)	2795 (3800)	2942 (4000)	3089 (4200)	3530 (4800)
Generator Capacity kWe	2600	2750	2900	3300
Engine Speed min ⁻¹	720/750	720/750	720/750	720/750
Dry Weight kg	45000			
Total Weight (Gen.Set) kg	71000			

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



Specifications									
Engine Model	6N21L-DW	6N21L-UW	6N21L-SW	6N21L-EW	6N21AL-DW	6N21AL-UW	6N21AL-SW	6N21AL-EW	6N21AL-GW
No. of Cylinders					6				
Cylinder Bore×Stroke mm					210×290				
Rated Output kW(PS)	615 (836)	660 (897)	745 (1013)	800 (1088)	745 (1013)	800 (1088)	880 (1197)	970 (1319)	1020 (1387)
Generator Capacity kWe	560	600	680	740	680	740	800	900	940
Engine Speed min ⁻¹	720/750	720/750	720/750	720/750	900/1000	900/1000	900/1000	900/1000	900/1000
Dry Weight kg	9100						8800		
Total Weight (Gen.Set) kg	14900						14700		

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

11 major ship certifications

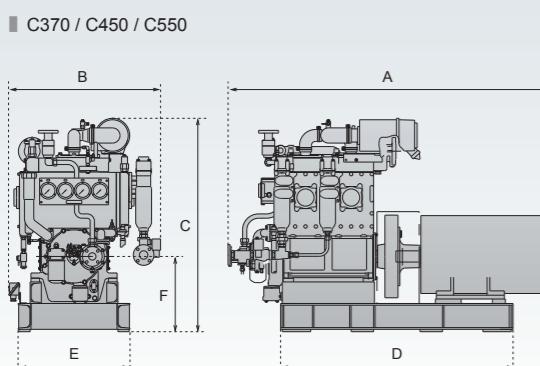
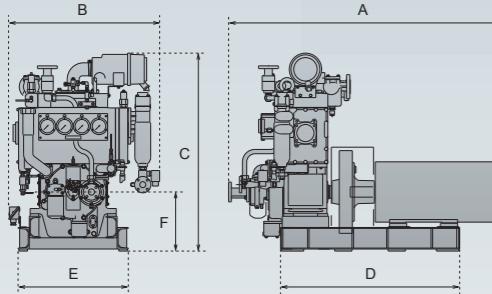
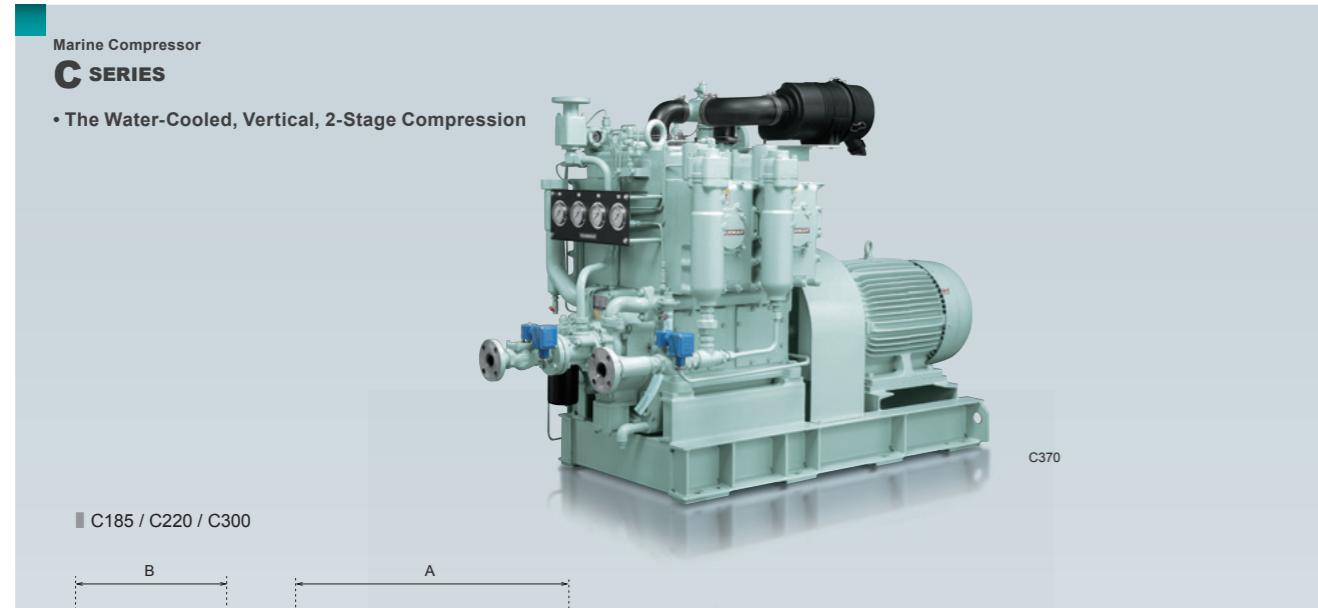
The Amagasaki Plant has been certified by the world's 11 major ship classification societies.
Its voluntary inspection program was certified by the 11 ship classification societies for the first time in the world

Amagasaki plant

Certifications of 11 major shipping classification societies

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]	RS [Russian Maritime Register of Shipping]	

Marine Compressor Line-up



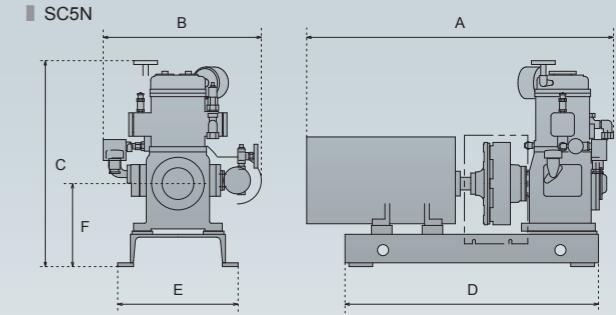
Specifications

Model	C185	C220	C300	C370	C450	C550
No. of Cylinders		1			2	
Pressure MPa			2.45			
			2.94			
Rev min ⁻¹			1200			
Air Capacity FA(m ³ /h)	85	110	140	170	220	275
	80	105	135	160	215	270
Motor Output kW	18.5	22	30	37	45	55
	18.5	22	30	37	45	55
Dry Weight kg	415	435	435	700	740	740
Set Weight kg	775	775	810	1170	1220	1365

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 manufacturers.

Marine Compressor SC SERIES

- The Water-Cooled, Vertical, 2-Stage Compression



Model	A	B	C	D	E	F
SC2G	733	340	514	550	330	211
SC5N	1019	499	650	800	380	262
SC7N	1049	530	875	810	400	302
SC10N	1127	559	935	870	430	302
SC12.5N	1174	556	890	870	430	302

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

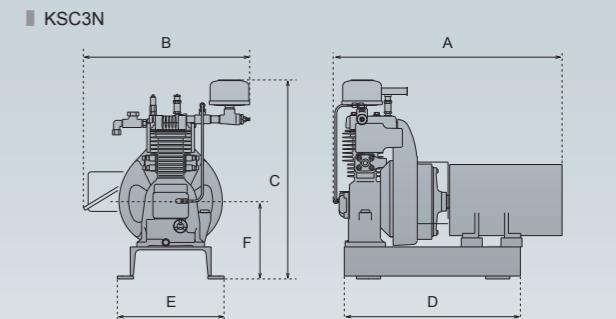
Specifications

Model	SC2G	SC5N	SC7N	SC10N	SC12.5N
No. of Cylinders		1			
Pressure MPa		2.45			
		2.94			
Rev min ⁻¹	900	1000	1200	900	1000
Air Capacity FA(m ³ /h)	6.0	6.6	7.8	13.6	14.9
	5.8	6.3	7.5	13.0	14.3
Motor Output kW	2.2	3.7	5.5	7.5	11
	2.2	3.7	5.5	7.5	11
Dry Weight kg	36	63	111	111	134
Set Weight kg	109	208	351	460	490

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 manufacturers.

Marine Compressor KSC SERIES

- The Air-Cooled, Vertical(V), 2-Stage Compression



Model	A	B	C	D	E	F
KSC3N	711	515	616	545	330	239
KSC7	1190	520	744	930*	330*	299*

* Motor Output 5.5kW

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

Specifications

Model	KSC3N					KSC7	
No. of Cylinders	1					V2	
Pressure MPa		2.45					
		2.94					
Rev min ⁻¹	1000	1200	1500	1800	750	900	1200
Air Capacity FA(m ³ /h)	6.8	7.9	9.2	10.5	14.2	17.1	22.8
	6.6	7.7	9.0	10.3	13.8	16.5	22.0
Motor Output kW	2.2		3.7		3.7		5.5
	2.2		3.7		3.7		5.5
Dry Weight kg	36					136	
Set Weight kg	111					278	

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 manufacturers.

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



Operation Process



Outfitting Process



Design using 3D-CAD



Development meeting towards product commercialization



Technical Training School

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)

History

Great Footsteps that Pave the Way and Make History;
The History of the Large Power Products Operations Division

2010 >

- Released Model 6EY22.



2012 >

- Yanmar celebrated the 100th anniversary of its founding.
- Received a designation for approved factories by IRS (Indian Register of Shipping).
- Released Model 6EY17.



1978 >

- Plant certified by ABS (American Bureau of Shipping) and LR (Lloyd's Register of Shipping), becoming the first plant in Japan to be so honored by the major ship classification organizations of Japan, U.K. and U.S.A., the major marine transportation countries of the world.

1991 >

- Production level of large-sized engines reached 100,000 units.
- Plant certified by RINA (Registro Italiano Navale).

1992 >

- Certified by LRQA (Lloyd's Register Quality Assurance) for ISO9001 Quality Assurance System.

1997 >

- Certified under ISO14001 (International Standard for Environmental Management System) by LRQA in June, first among Japanese engine manufacturers.

1998 >

- Three series of Yanmar marine engines certified first in Japan by IMO (International Maritime Organization) for complying with its NOx emissions in regulations.

1999 >

- Our new products of diesel engine " SAVETEN " series which advance of low NOx and low fuel oil consumption are on the commercial.



2002 >

- The Name of the company changed to Yanmar Co., Ltd.

1984 >

- Plant certified by NV (Det Norske Veritas).

1968 >

- Awarded Deming Prize for pursuing distinguished quality control.



1952 >

- Name changed to Yanmar Diesel Engine Co., Ltd.

1936 >

- Founded as Yamaoka Nainenki (internal combustion engine) Company Ltd. with 3 million yen on a 40,000m² site in Nagasawa Oda-mura, Kawanabe-gun, Hyogo Pref. Manufactured diesel engines together with Yamaoka Hatsudohki Kosakusho (engine mfg.) Co., Ltd.

2009 >

- Received supervision for approved factories by CCS (China Classification Society).

• The 6EY18 engine model received a certificate from IMO (International Maritime Organization) for NOx Tier II standards that will be applicable from 2011, making Yanmar the first domestic ship engine manufacturer to receive the certificate.



• Received a designation for approved factories by GL (Germanischer Lloyd).

2008 >

- Received supervision for approved factories by KR (Korean Register of Shipping).

2007 >

- Completion of the Amagasaki Plant Development Laboratory, aimed at strengthening emissions standards and systems for developing new products as well as strengthening systems for producing large-sized products.

2006 >

- The Large Power Products Operations Division celebrated its 70th anniversary.

2005 >

- Received supervision for approved factories by BV (Bureau Veritas).

Worldwide Service Network



EUROPE

NETHERLANDS Country Code * 31 *

A Yanmar Europe B.V. (YEU)
Brugplein 11, 1332 BS Almere-de Vaart, The Netherlands
Tel: 36-5493200 Fax: 36-5493209
Web: www.yanmar.nl/

B Nicoverken Holland B.V.
Algerastraat 20, 3125 BS Schiedam, The Netherlands
Tel: 10-2380999 Fax: 10-2380990
E-mail: shiprepair@nicoverken.nl
Web: www.nicoverken.nl

C Fuji Trading (Marine) B.V.
Kortenoord 2-8 3087 AR Rotterdam, The Netherlands
Tel: 10-429-8833 Fax: 10-429-5227

GREECE Country Code * 30 *

D Yanmar Engineering Co.,Ltd. Greece Liaison Office
5th Fl.,130 Sygrou Avenue., Athens, Greece
Tel: 210-922-2481 Fax: 210-922-2484
E-mail: yanmargr@tee.gr / yanmar@weboffice.gr

U.K. Country Code * 44 *

E 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 *

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

ICELAND Country Code * 354 *

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

RUSSIA Country Code * 7 *

H 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 *

I 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@skvermeo.com

TURKEY Country Code * 90 *

J Arasmak Deniz Endüstrisi ve Diş Tic.Ltd.
Registered Tax No : 072 046 6424
Address : Elka Sok.No.20 Güzelyalı, Pendik, Istanbul, Turkey 34903
Tel: 216-493-4876 Fax: 216-493-6341
E-mail: aras@arasmak.com

AFRICA

SOUTH AFRICA Country Code * 27 *

K Seascape Marine Services (Pty) Ltd.
124 Service Road Marine Drive Paarden Eiland 7405,
P.O. Box 63 Paarden Eiland 7420 South Africa
Tel: 21-511-8201 Fax: 21-510-6947

MIDDLE EAST

U.A.E. Country Code * 971 *

L Yanmar Engineering Co., Ltd. Dubai Liaison Office
Gold&Diamond Park, Manufacturing Office 3006,
Ground Floor Building-3, Sheikh Zayed Road P.O. Box 214831,
Dubai, U.A.E.
Tel: 4-341-8787 Fax: 4-341-8778
E-mail: ymdubai@eim.ae

M 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

N 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 Country Code * 20 *

O Mapso
P.O. Box 2643, 44 Industrial Area,
Cairo/Ismailia Desert Road, Cairo, Egypt
Tel: 2-2962777 Fax: 2-2962780
E-mail: mapso@soficom.com.eg

P Mapso-Alexandria Office
5 Ahmed Orabi Street Alexandria, Egypt
Tel: 3-487-3453 Fax: 3-487-3486

OCEANIA

AUSTRALIA Country Code * 61 *

R Fogacs Cairncross Dockyard Pty Ltd.
Thyne Road, Morningside, Brisbane, Queensland, Australia 4170
Tel: 7-322-70856 Fax: 7-3399-6164

S 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

T Jaitco
10199 Kurra Road, Neutral Bay, N.S.W. 2089, Australia
Tel: +81-89-956-8927 Fax: +81-89-956-8927

U Japan Marine Engineering Co.,Ltd
475 Warrigal Road Moorabbin Victoria Australia 3189
Tel: 3-9555-5277 Fax: 3-9555-5344
E-mail: sales@jmeaustr.com.au

PAPUA NEW GUINEA Country Code * 675 *

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

W 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

X 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

ASIA

JAPAN Country Code * 81 *

Yanmar Co., Ltd.

Yanmar (Head Office)
Umeda Gate Tower, 1-9, Tsuruno-cho, Kita-ku, Osaka, 530-8311, Japan
Web: www.yanmar.co.jp/en

Yanmar (Tokyo) Export Dept. Marine

2-1-1, Yaesu, Chuo-ku, Tokyo, 104-8486, Japan
Tel: 3-3275-4909 Fax: 3-3275-4969

Yanmar (Amagasaki Plant)

1-1-1, Nagasu Higashidori, Amagasaki, Hyogo, 660-8585, Japan
• Quality Assurance Dept.
Tel: 6-6489-8017 Fax: 6-6488-4009

Yanmar Engineering Co., Ltd.

Yanmar Engineering (Head Office)
1-1-1, Nagasu Higashidori, Amagasaki, Hyogo, 660-8585, Japan
Tel: 6-6489-8045 Fax: 6-6489-8075

Web: www.yanmar.co.jp/ye/

• Overseas Engineering Division.

Tel: 6-6489-8048 Fax: 6-6481-6101

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

C Goltens Shanghai Co., Ltd

Block No.5, No.533 Yuanzhong Road, Nanhai Industrial Zone,
Nanhai District, Shanghai, China
Tel: 21-58186628 Fax: 021-58186633
E-mail: shanghai@goltens.com

D Tianjin Port Tug-Boat & Lighter Company / Yanmar Engine Service Center

No.383 Yontai Road, Tanggu District, Tianjin, China
Tel: 22-2570-7510 Fax: 22-2570-7510

E Dalian Wanfang Marine Technology Co., Ltd

No.40 Aixian Street, Qianxiling, Dalian High-Tech Industrial Zone, China
Tel: 411-84799000 Fax: 411-84795678
E-mail: wf@china-wf.com

F Zhoushan Imc-Yy Shipyard & Engineering Co., Ltd.

28, Mazhi West Road, Shenjianmen, Putuo, Zhoushan, China, 316100
Tel: 580-3690896/3690518/3690577/3690882
Fax: 580-3690580
Web: www.imc-yy.com

INDIA Country Code * 91 *

G Yanmar India Private Limited

707 Real Tech Park, Sector 30/A,
Vashi, Navi Mumbai

Tel: 22-3969-4400 Fax: 22-3969-4410

H Plus Service Co.

Room 3806, Centum Leaders Mark B/D, 1514 U-Dong,
Haeundae-gu, Busan, 612-889, Korea
Tel: 51-745-8200~1 Fax: 51-745-8203

E-mail: plusbusan@hanafos.com

I Chiba Marine Korea Co., Ltd.

1-90, Chungnak-Dong, Yeongdo-gu, Busan, Korea
Tel: 51-418-8998 Fax: 51-418-5880
E-mail: chibako@korea.com

MALAYSIA Country Code * 60 *

J Pansar Company., Sdn Bhd

Wisma Pansar 23-27 Workshop Road 96007 Sibu Sarawak, Malaysia

Tel: 84-333366 Fax: 84-314555

K Chong Lee Leong Seng Enterprise Sdn Bhd

Lot 530, Persiaran Subang Permai Sg. Penaga
Industrial Park, USJ 1 47500 Subang Jaya Selangor Darul Ehsan, Malaysia
Tel: 3-5632-1577 Fax: 3-5632-3126

THAILAND Country Code * 66 *

L Siam Consotium Service Co., Ltd.

103-107 Damronglatipat Road Klongtoey Prakanong
Bangkok Thailand 10110
Tel: 2-249-8023 Fax: 2-249-7985

M Star Marine Engineering Co., Ltd

2/5 M11 Tumbol Bangphueng Phrappaeng,
Samutprakan, Thailand 10130
Tel: 2-816-8001 Fax: 2-463-2616
E-mail: info@starmarineeng.com

ASIA

HONG KONG Country Code * 852 *

N Yanmar Engineering (HK) Co., Ltd.

RoomJ, 23/F, King Palace Plaza 55 King Yip Street Kwun Tong Kowloon
Hong Kong
Tel: 2833-9032 Fax: 2904-7783
E-mail: yanmarhk@yanmarhk.com.hk

O 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@cistarhk.com
Web: www.cistarhk.com

PHILIPPINES Country Code * 63 *

P Yanmar Engineering Co., Ltd. Philippines Liaison Office

1-1-1, Nagasu Higashidori, Amagasaki, Hyogo, 660-8585, Japan
Tel: 6-6489-8045 Fax: 6-6489-8075
Web: www.yanmar.co.jp/ye/
• Overseas Engineering Division.
Tel: 6-6489-8048 Fax: 6-6481-6101

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

TAIWAN Country Code * 886 *

E Yanmar Engineering Co., Ltd. Taiwan Branch

No.56, Yugangjiung 2 Rd., Chienchen Dist, Kaohsiung, Taiwan

Tel: 7-815-4198 Fax: 7-815-3280

E-mail: yanmar-service@umail.hinet.net

F Yanmar Engineering Co., Ltd. Taiwan Branch Taipei Satellite Office

R/M8, 9F, No.142, Sec3, Minquan E. Rd., Songshan Dist.
Taipei City 104, Taiwan R.O.C.

Tel: 2-8712-3150/3151 Fax: 2-8712-3107

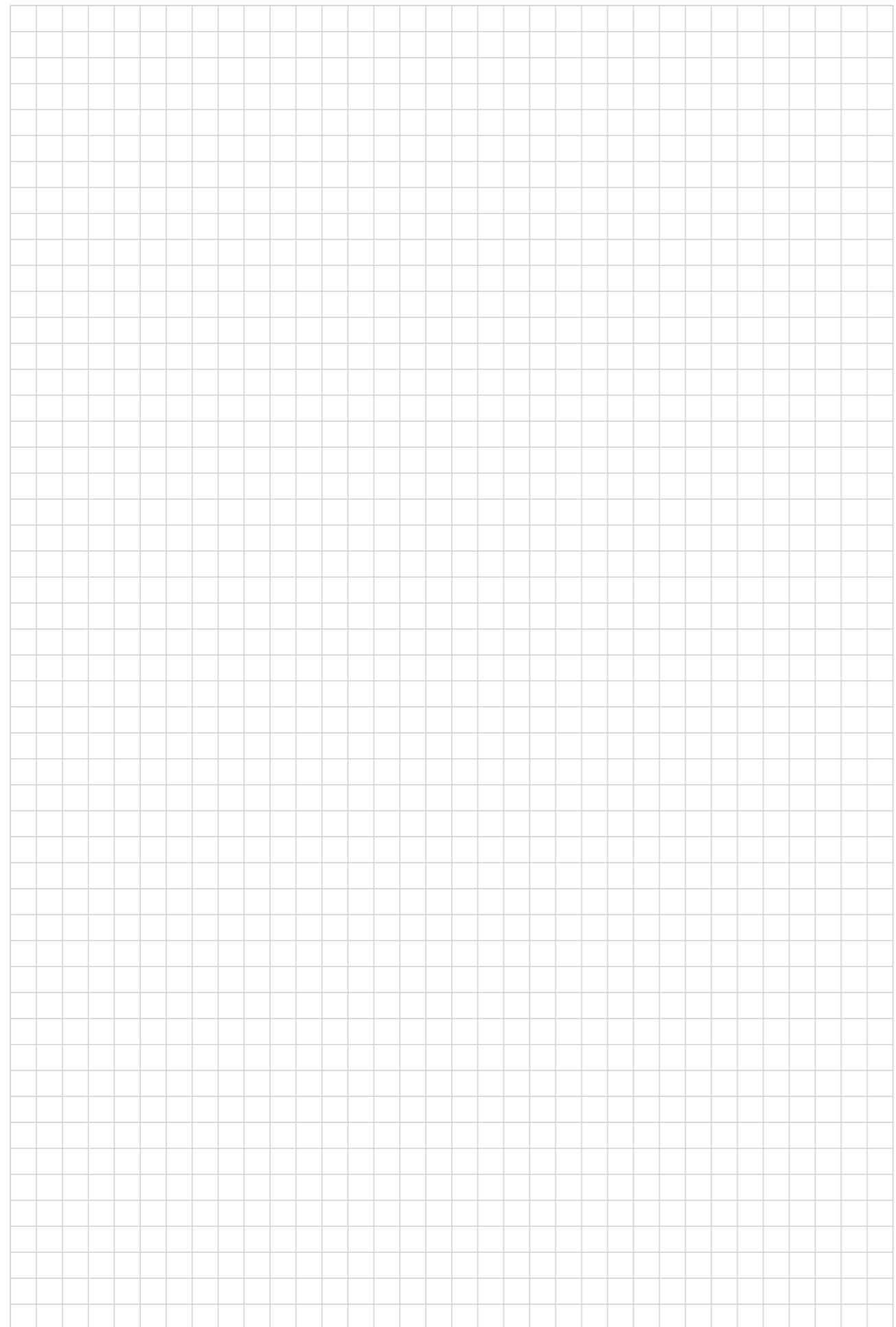
E-mail: yanmar-service@umail.hinet.net

G Tee Foo Marine Industrial Co., Ltd.

6F-3, No.369 Fusing North Road,Taipei, Taiwan R.O.C. 105
Tel: 2-8712-0848 Fax: 2-8712-0797

H Seapowers Trading &

Notes



YANMAR CO., LTD.

- Large Power Products Operations Division

- Large Product Marketing Dept. Export Dept.

2-1-1, Yaesu, Chuo-ku, Tokyo, 104-8486, Japan

Tel: 3-3275-4909 Fax: 3-3275-4969

www.yanmar.co.jp/en

YANMAR AMERICA CORP. HEAD OFFICE

101 International Parkway, Adairsville, GA 30103, U.S.A.

Tel: 770-877-9894 Fax: 770-877-9009

www.yanmar.com

YANMAR EUROPE B.V.

Brugplein 11, 1332 BS Almere-de Vaart, The Netherlands

Tel: 36-5493200 Fax: 36-5493209

www.yanmar.nl/

YANMAR ASIA (SINGAPORE) CORP.PTE.LTD. (YASC)

4 Tuas Lane, Singapore 638613

Tel: 6595-4200 Fax: 6862-5189

www.yanmar.co.jp/yasc

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

www.yanmar-sha.com