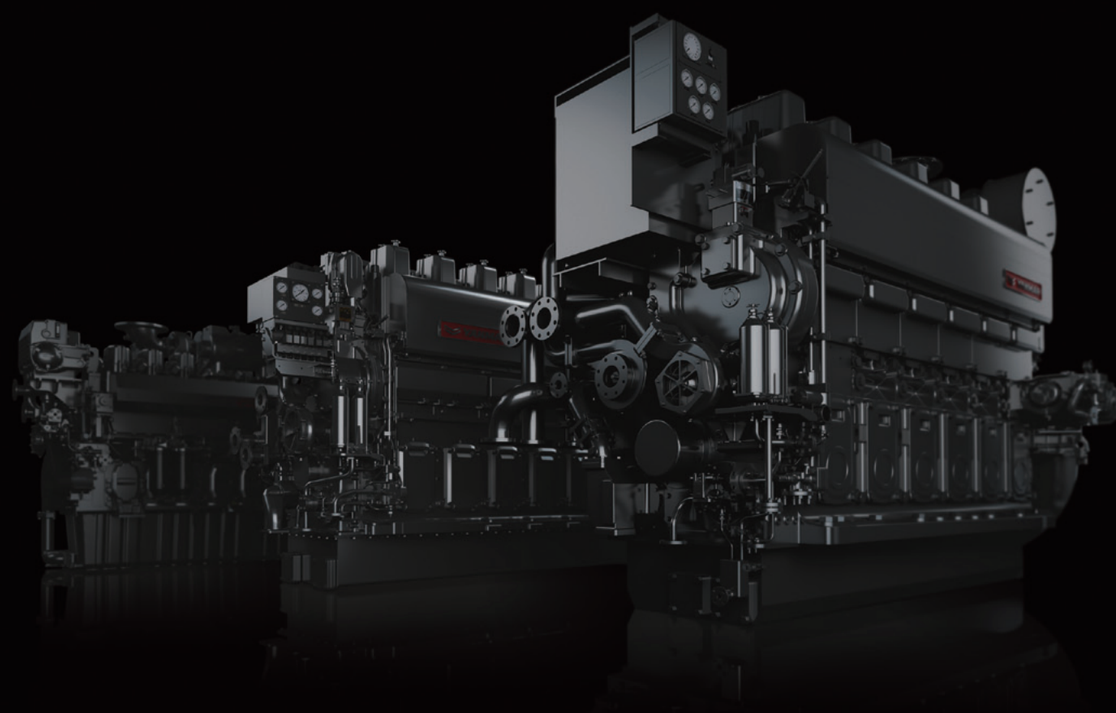
YANMAR

PRODUCT GUIDE

MARINE DIESEL ENGINE

MARINE PROPULSION POWER RANGE [374~4500kW]
MARINE AUXILIARY GENERATOR CAPACITY [180~4600kWe]



YANMAR

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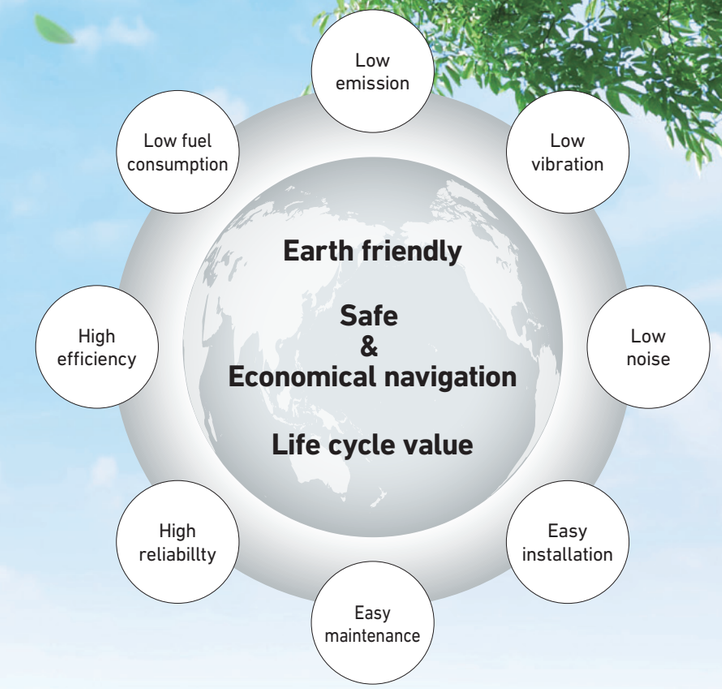
001B0-G00230 2006㊐

Limitless Blue Skies and Oceans

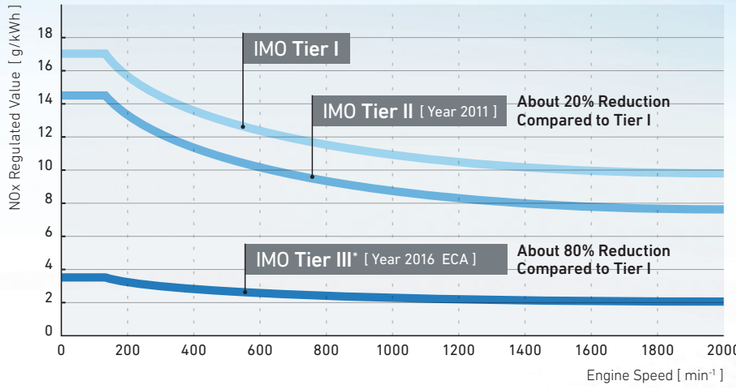


CONTENTS

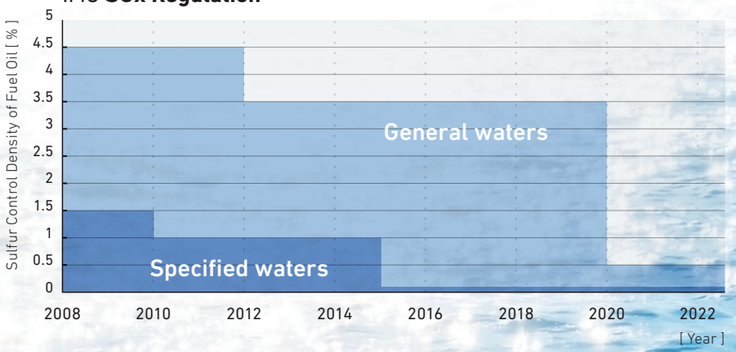
Clean and Reliable Technology

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

IMO **NOx Regulation**



IMO **SOx Regulation**



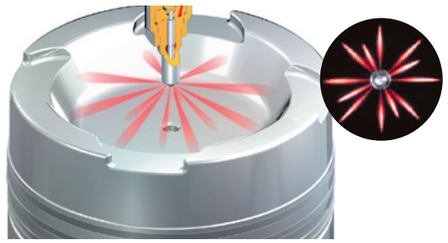
* Tier III is applied in general waters
ECA = Emission Control Area **IMO** = International Maritime Organization
NOx = Nitrogen Oxides **SOx** = Sulfur Oxides

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

ASSIGN combustion system

• Staggered Layout Multi-Hole Nozzle

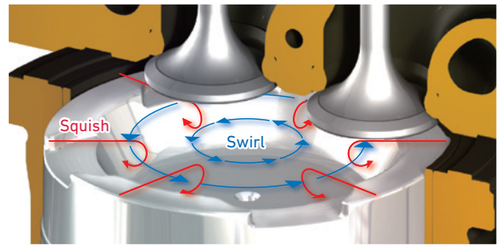
The vibration noise mainly in the low frequency band was difficult to reduce until now. However, we can drastically reduce it by the metal spring with high quality vibration damping performance. We will contribute to further improvement of the shipboard environment.



Staggered Layout Injection System

• Air Flow Motion

The optimally shaped air intake port generates a suitable swirl (votex flow) in the combustion chamber as well as a squish in the compression stroke.
This promotes fuel / air mixing, improving combustion efficiency.

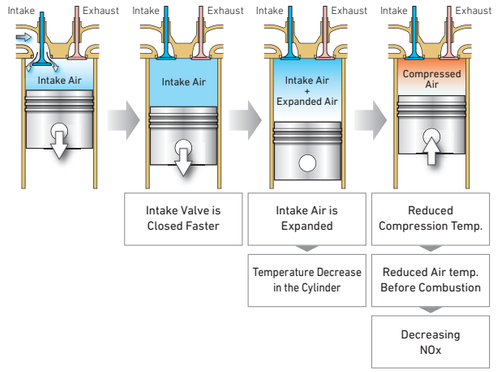


Intake Swirl and Squish

High pressure miller cycle system

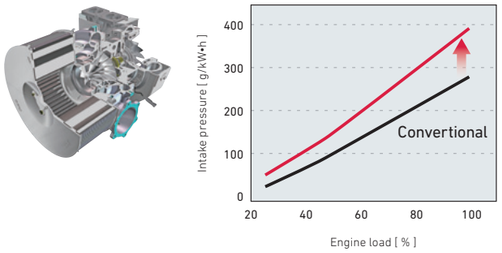
• Miller type cam

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.



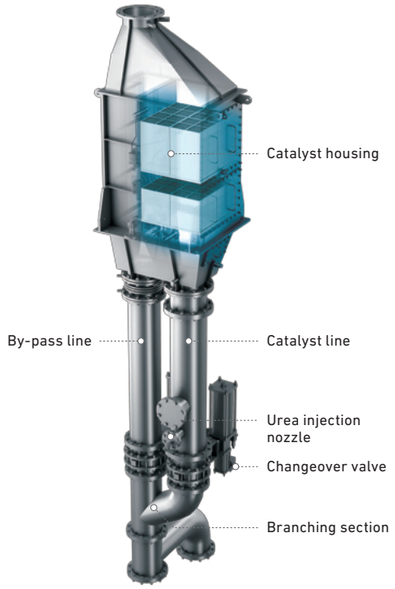
• High pressure ratio turbocharger

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.



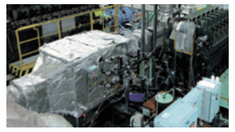
NEW TECHNOLOGY
YANMAR SOLUTION

SCR system



SCR system developed in-house by YANMAR to meet to IMO Tier III NOx regulations.

YANMAR has developed SCR system that meets to IMO Tier III regulations, which require an 80%, i.e. big reduction in NOx compared with Tier I. Making use of our original technology and wealth of experience, we have created a system whose design and functionality are optimized for marine vessels, and which is perfectly matched for use with diesel engines, both in ECA and non-ECA waters. In addition, repeated verification tests have been conducted on ocean-going vessels (equipped with SCR system for 3 auxiliary engines) to further improve the system.


SCR system installation on test bench


On board

● Maintaining highly NOx reduction performance whilst ensuring safety.

The by-pass branching section and catalytic reactor have been integrated into a single unit, achieving high-performance NOx reduction. Engines equipped with our SCR system is obtained NOx certification (Scheme A), whilst maintaining performance onboard. Additionally, a urea injection nozzle is installed downstream from the branching section, preventing ammonia from leaking into the by-pass line.

● Long lifetime of catalyst.

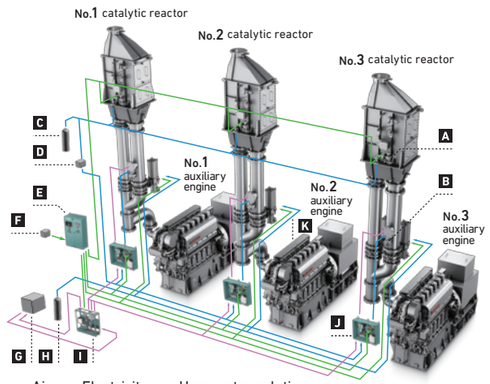
Catalyst degradation occurs due to the flow of small amounts of exhaust gas into the catalyst line when the by-pass is in operation. Specification not to flow the exhaust gas realizes longer lifetime of catalyst.

	Standard spec.	Optional spec. 1	Optional spec. 2
Changeocver valve installed to catalystic reactor outet	—	○ ∗1	—
Purge air	Req'd	Not req'd	Not req'd
Blower fan unit	—	—	○ ∗2

∗1 Overall height of catalystic reactor outlet becomes higher than standard.
∗2 To be installed on hull side : 2019-

● Automatic control for multiple engines.

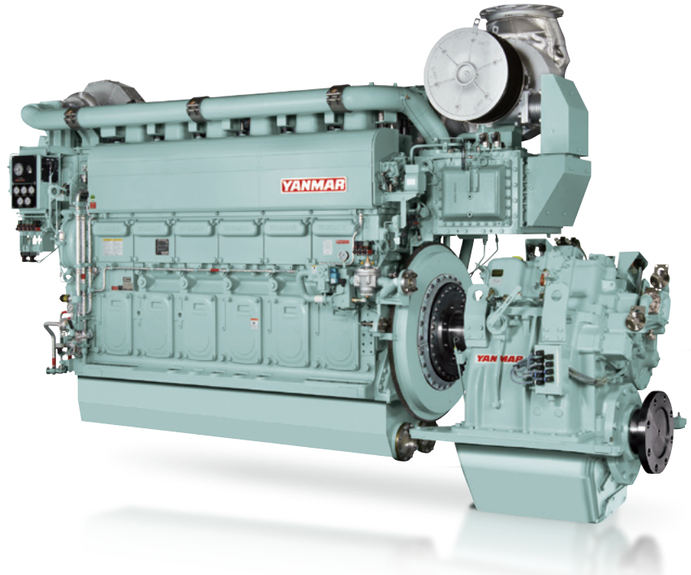
Control unit integrates all devices including catalytic reactors mounted to each individual engine. A single pump unit and control panel can manage system for multiple engines, allowing the system to remain compact.



A Soot blower
B Urea injection nozzle
C Service air
D Separator
E System control panel
F Temperature and humidity sensor
G Urea water tank
H Control air
I Pump unit
J Nozzle unit
K Relief valve of boost air

Note: Specifications may differ according to vessel classification.

2-stage turbocharging system

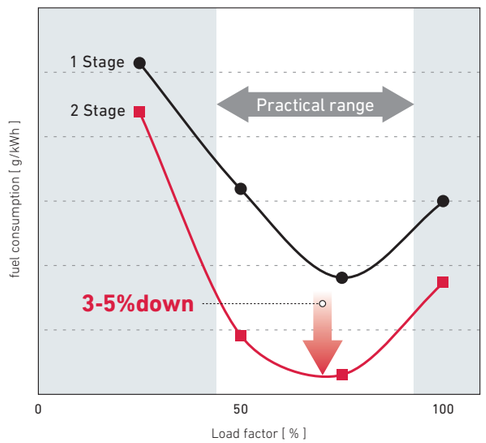


Ultra low fuel consumption of 4-stroke medium speed diesel engine.

YANMAR has always pursued low fuel consumption as its corporate creed “Fuel reward to Nation” since foundation. This time, we developed the "2-stage turbocharging system" compliant with IMO secondary regulation, further evolving the engine, achieving fuel economy far superior to the conventional engine.

● Evolution of high pressure Miller cycle system

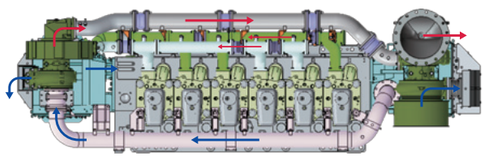
We aquired the air by using the "2 stage turbocharging system" in spite of advanced closing timing of suction valve to compare with "1 stage turbocharging system". As a result, we could achieve the low fuel consumption in wide load.



● Simple system

It is easy to maintain the system, because it is simple system that two turbochargers and two air coolers are only connected by suction air pipes and exhaust pipe.

◎ Top view

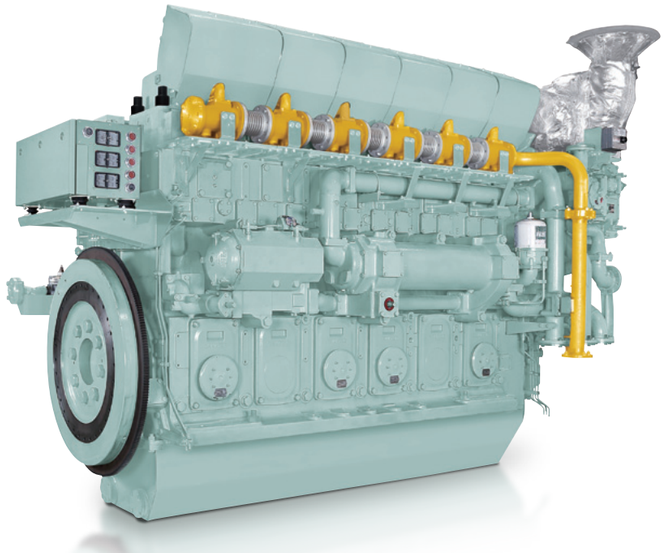


● Unchanged mountability and Good acceleration

We arranged turbocharger & air-cooler unit on both sides of the engine. By this structure, we could achieve the equivalent mountability as the base engine by keeping the height of engine. This engine has good acceleration at low load by adapting dynamic pressure type exhaust manifold.

NEW TECHNOLOGY
YANMAR SOLUTION

Marine dual fuel engine



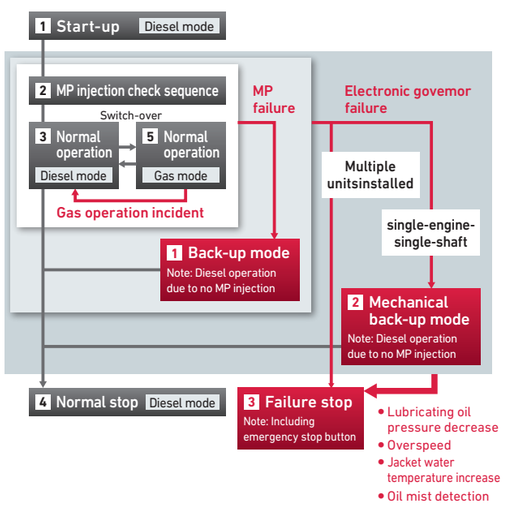
Comply with environmental regulations by using both diesel and gas fuels.

The use of natural gas is now attracting attention within the marine engine sector, both as a means of addressing fluctuating fuel costs, and as a way of reducing the burden on the environment. Basing on our reliable engines that will improve life cycle value for our customers, YANMAR have developed a dual fuel engine that can use both diesel and gas, which complies with IMO NOx Tier III regulations as well as SOx Emission Control Area.

• Safe System for use in single-engine-single-shaft vessels

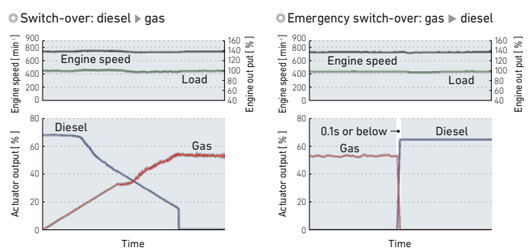
YANMAR has developed a unique control system. Through multiplexing of devices, this system achieves safety and redundancy even with single-engine-single-shaft vessels, allowing you to navigate with peace of mind.

Note: Vessel classification currently pending



• Switch fuels even at 100% output

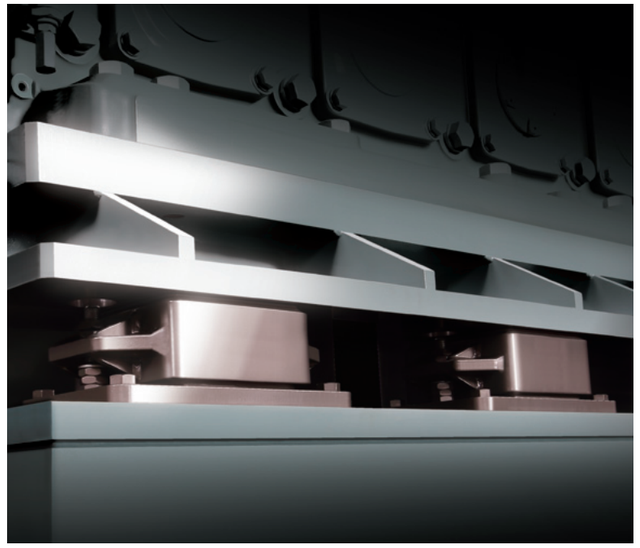
Freely select which fuel to use. The system makes it possible to switch from diesel mode to gas mode during navigation, with no output restrictions. Furthermore, during emergencies the system can shift safely and instantaneously from gas mode back to diesel mode.



• Can operate with natural gas in any region

Through real-time analysis of cylinder internal pressure together with high-speed control, this system avoids abnormal combustion (knocking) even when running on natural gases with a low methane number. Offering superior combustion stability, this engine can operate with natural gas in any region and with no output restrictions.

Marine spring vibration isolating system



Latest system to help comfort and reduce maintenance

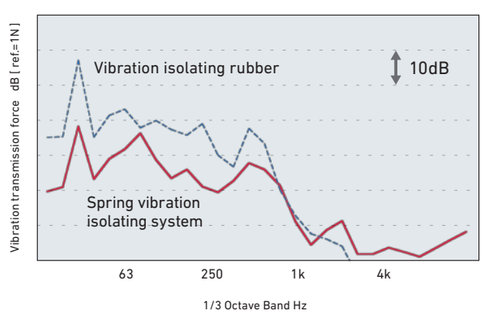
In YANMAR, utilizing the technology accumulated over many years in vibration isolating rubber for marine engines and metal spring vibration isolating system for land engines, we have developed a marine metal spring isolation system with support of Japan Railway Construction, Transport and Technology Agency.
It realizes more excellent vibration proofing effect and maintenance-free than rubber. And it helps comfortable shipboard environment and low cost.

Ministry of Land,Infrastrure, Trnsport and Tourism approval Acquisition of certificate by Nippon Kaiji Kyokai Association

• Reduce vibration noise inside ship

The vibration noise mainly in the low frequency band was difficult to reduce until now. However, we can drastically reduce it by the metal spring with high quality vibration damping performance. We will contribute to further improvement of the shipboard environment.

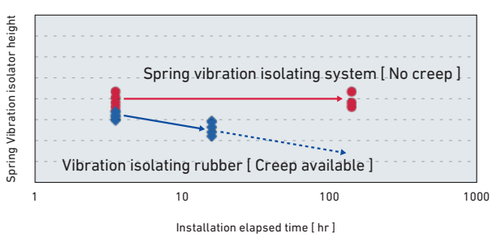
◎Isolation performance



• Maintenance-free

There is no creep phenomenon in the metallic spring vibration isolating system, so it is almost unnecessary to replace and maintenance, and contributes to cost reduction.

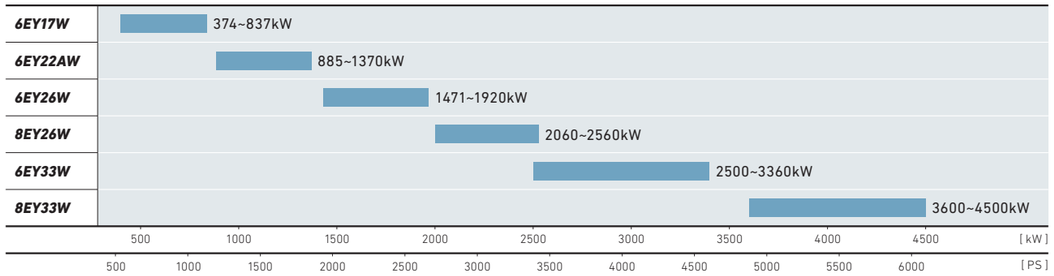
◎Creep characteristics



MARINE PROPULSION

DIESEL ENGINE LINE-UP

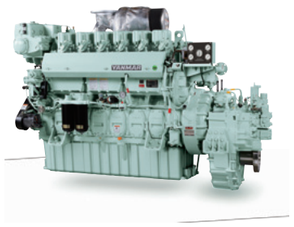
Power Range



Series	Models	Output [kW] Engine Speed [min⁻¹] • 850min⁻¹ 750	800	850	900	1350	1450	1500	Gear	Dimensions [mm] A	A1	A2	A3	B	C	D	E	F	G
6EY17W	6EY17W					374 480 590			YXH-500	2908	2410	2154	615	1305	1813	620	682	349	1300
									YXH-500L	3091			794				862	429	
						749	837		YXH-500	2908			615		1882		682	349	
									YXH-500L	3091			794				862	429	
6EY22AW	6EY22AW			850					YX-1000	4574	3647	2965	1488	1618	2416	666	885	435	1922
									YX-1000C	4687			1601				450	-	
									YX-1000	4603			1517				885	435	
									YX-1000C	4636			1550				450	-	
					1180 1330 1370				YXH-2000	4810			1807				1145	590	
									YXH-2000C	4960			1957				555	-	
6EY26W	6EY26W								YXH-2000M	5702	4271	3563	1882	1804	3112	842	1145	590	1900
		1471							YXH-2000MC	5880			2322				555	-	
									YXH-2000	5483			1882				1145	590	
									YXH-2000C	5601			2070				555	-	
		1620 1920							YXH-2500M	5710			1890				1145	590	
									YXH-2500MC	5880			2320				555	-	
									YXH-2500	5491			1890				1145	590	
									YXH-2500C	5601			2070				555	-	
8EY26W	8EY26W	2060 2210							-	-	5090	5022	-	2085	3257	842	-	-	1900
															3542	1127			
															2845	430			
		2360 2560													3257	842			
															3542	1127			
															2845	430			
6EY33W	6EY33W	2500 2750 3100 3360							-	-	5700	4520	-	2335	3695	1025	-	-	2372
8EY33W	8EY33W	3600 4000 4500							-	-	7125	5585	-	2555	4040	1025	-	-	2372
6N21AW	6N21A-DW		662						Y-850	3920	2776	2733	1158	1420	2081	601	814	359	1802
									YC-850	4051			1289				455	-	
	6N21A-UW		736						YX-1000	4053			1199				885	435	
									YX-1000C	4086			1232				450	-	
	6N21A-SW 6N21A-EW		883* 956*						YX-1000	4059			1205				885	435	
									YX-1000C	4092			1238				450	-	

6EY17W

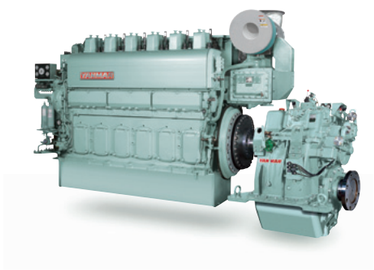
Power : 374~837kW



Engine Model		6EY17W				
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			1400	1450
Dry Weight [kg]		3880				
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				
Total Dry Weight with Marine Gear [kg]	Offset	4580				
		5547				

6EY22AW

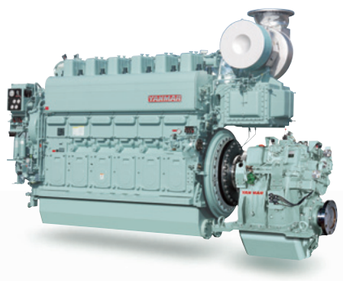
Power : 885~1370kW



Engine Model		6EY22AW					
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]		850	900	850	900	900		
Dry Weight [kg]		10000						
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				4750		
	Co-Axial	2565				5050		
Total Dry Weight with Marine Gear [kg]	Offset	12505		12556		14861		
	Co-Axial	12670		12721		15161		

6EY26W

Power : 1471~1920kW

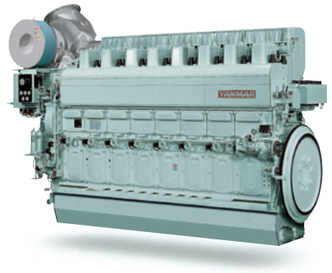


Engine Model		6EY26W					
No. of Cylinders		6					
Cylinder Bore×Stroke [mm]		260×385					
Rated Output [kW(PS)]		1471 (2000)		1620 (2203)		1920 (2610)	
Engine Speed [min⁻¹]		750					
Dry Weight [kg]		18500					
Propeller Type		for C.P.P.	for F.P.P.	for C.P.P.	for F.P.P.	for C.P.P.	for F.P.P.
Marine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

This Photograph Shows Model 6EY26 [IMO Tier I]

8EY26W

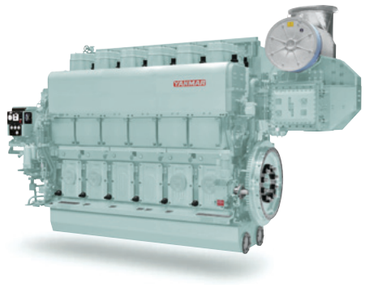
Power : 2060~2560kW



Engine Model	8EY26W			
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			

6/8EY33W

Power : 2500~3360kW [6EY33W]
3600~4500kW [8EY33W]



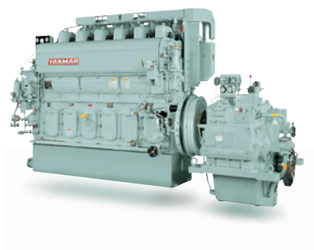
Engine Model	6EY33W			
No. of Cylinders	6			
Cylinder Bore×Stroke [mm]	330×440			
Rated Output [kW(PS)]	2500 (3399)	2750 (3739)	3100 (4215)	3360 (4568)
Engine Speed [min⁻¹]	750			
Dry Weight [kg]	39100			

Engine Model	8EY33W		
No. of Cylinders	8		
Cylinder Bore×Stroke [mm]	330×440		
Rated Output [kW(PS)]	3600 (4895)	4000 (5438)	4500 (6118)
Engine Speed [min⁻¹]	750		
Dry Weight [kg]	50900		

This Photograph Shows Model 6EY33

6N21AW

Power : 662~956kW



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 [kg]	Offset	2050	2400		
	Co-Axial	2150	2565		
Total Dry Weight with Marine Gear [kg]	Offset	10128	10478	10494	
	Co-Axial	10228	10643	10659	

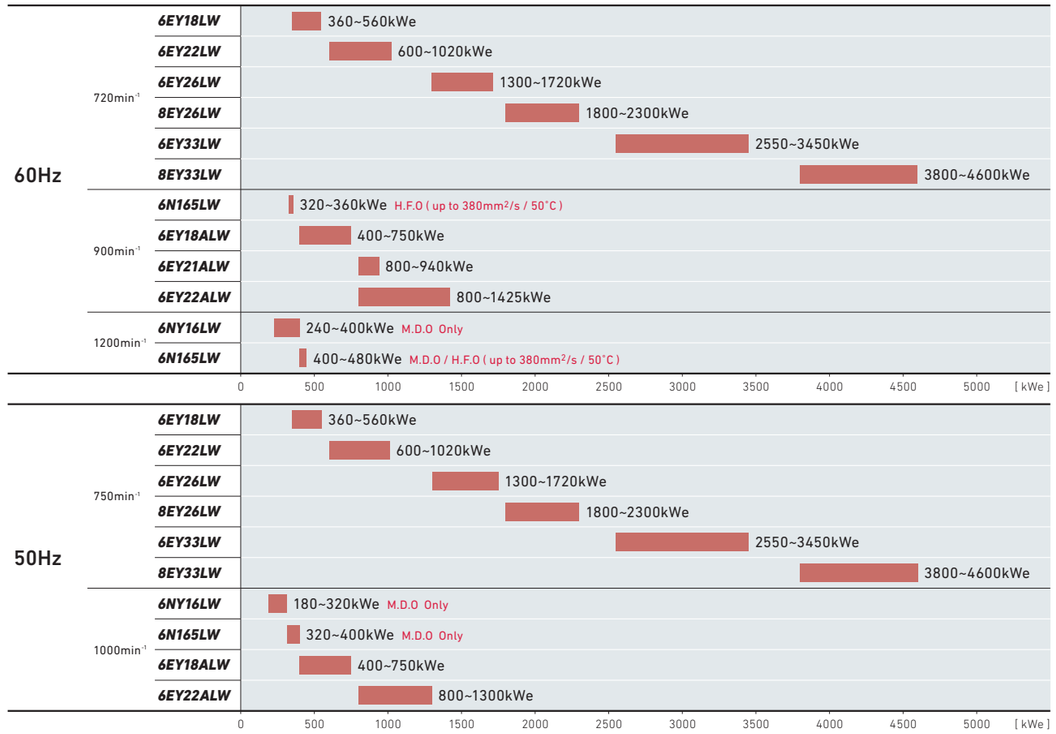
The engine dry weight and outline may differ depending upon the specifications and attached accessories.

MARINE AUXILIARY

DIESEL ENGINE LINE-UP

Generator Capacity

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

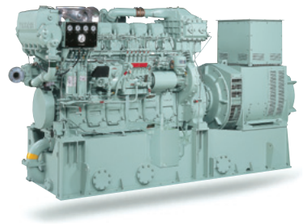


Series	Models	Output [kW] Engine Speed [min⁻¹] 720	750	900	1000	1200	Dimensions [mm] A	A2	B	C	D	E	F	G
6NY16LW	6NY16L-HW				200	265	3097	1972	1265	1813	2530	940	800	1983
	6NY16L-DW				245	310	3097							
	6NY16L-UW				270	355	3117							
	6NY16L-SW				310	400	3112							
	6NY16L-EW				353	441	3172							
6N165LW	6N165L-UW				353	441	3182	1982	1341	1999	2700	990	800	2105
	6N165L-SW			353			3332	2012	1557		2800			
					397	485			1341					
	6N165L-EW			397					1557					
					441	530			1341					
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				3720			
6EY21ALW	6EY21ALW			880~1020			4845	2730	1618	2602	3860	1180	950	2752
6EY22LW	6EY22LW	660~1080					5452	3337	1678	2630	4120	1180	985	2907
6EY22ALW	6EY22ALW			880~1500			5647	3337	1782	2675	4310	1180	985	2907
6EY26LW	6EY26LW	1400~1620					6474	3974	1847	3520	5270	1420	1250	3150
		1730~1840					6774							
8EY26LW	8EY26LW	1900~2130					8258	5290	2030	3665	6720	1420	1250	3150
		2245					8358				6800			
		2450					8418				6840			
6EY33LW	6EY33LW	2750~3600					8950	5280	2355	3895	7130	1780	1370	3742
8EY33LW	8EY33LW	4000~4800					10640	6655	2555	4470	7950	1780	1620	3992

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

6NY16LW

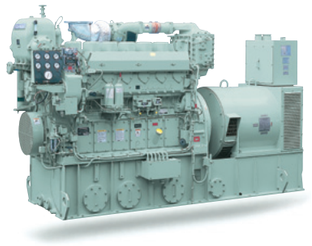
Generator Capacity : 180~400kWe



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)	270 (367)	355 (483)	310 (421)	400 (544)	353 (480)	441 (600)
Generator Capacity [kWe]	180	240	220	280	240	320	280	360	320	400
Engine Speed [min^{-1}]	1000	1200	1000	1200	1000	1200	1000	1200	1000	1200
Dry Weight [kg]	2880									
Total Weight (Gen. Set) [kg]	5870									

6N165LW

Generator Capacity : 320~480kWe

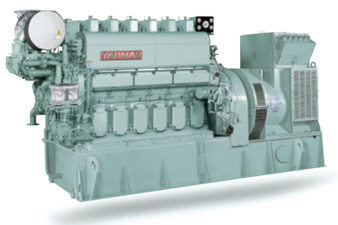


Engine Model	6N165L-UW		6N165L-SW				6N165L-EW	
No. of Cylinders	6							
Cylinder Bore×Stroke [mm]	165×232							
Rated Output [kW(PS)]	353 (480)	441 (600)	353 (480)	397 (540)	485 (660)	397 (540)	441 (600)	530 (720)
Generator Capacity [kWe]	320	400	320	360	450	360	400	480
Engine Speed [min^{-1}]	1000	1200	900	1000	1200	900	1000	1200
Dry Weight [kg]	4100							
Total Weight (Gen. Set) [kg]	6410		7160					

• 1000min^{-1} : for MDO Application Only. • 900min^{-1} : for HFO Application Only. This Photograph Shows Model 6N165L [IMO Tier I]

6EY18[A]LW

Generator Capacity : 360~750kWe



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	440	500	560	400	450	500	560	600	620	680	750
Engine Speed [min^{-1}]	720 / 750					900 / 1000							
Dry Weight [kg]	6600												
Total Weight (Gen. Set) [kg]	11200									12100			

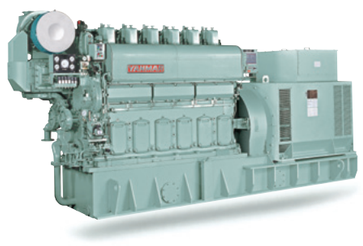
6EY21ALW

Generator Capacity : 800~940kWe

Engine Model	6EY21ALW		
No. of Cylinders	6		
Cylinder Bore×Stroke [mm]	210×290		
Rated Output [kW(PS)]	880 (1197)	970 (1319)	1020 (1387)
Generator Capacity [kWe]	800	900	940
Engine Speed [min^{-1}]	900		
Dry Weight [kg]	8800		
Total Weight (Gen. Set) [kg]	16000		

6EY22[A]LW

Generator Capacity : 600~1425kWe



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)	1500 (2039)
Generator Capacity [kWe]	600	680	740	800	900	1020	800	900	950	1000	1100	1200	1300	1425
Engine Speed [min^{-1}]	720 / 750						900 / 1000							
Dry Weight [kg]	11200						10500							
Total Weight (Gen. Set) [kg]	18500						18100							

6EY26LW

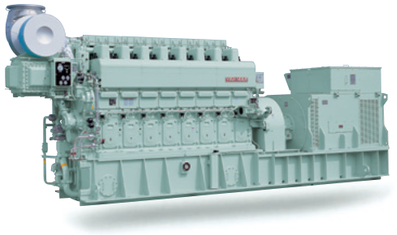
Generator Capacity : 1300~1720kWe

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			
Dry Weight [kg]	18500			
Total Weight (Gen. Set) [kg]	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.

8EY26LW

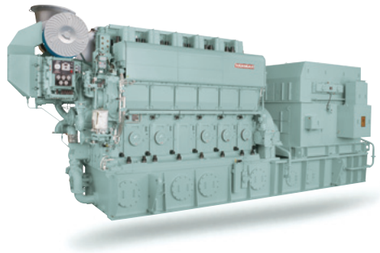
Generator Capacity : 1800~2300kWe



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				
Dry Weight [kg]	24500				
Total Weight (Gen. Set) [kg]	40000			40200	45000

6EY33LW

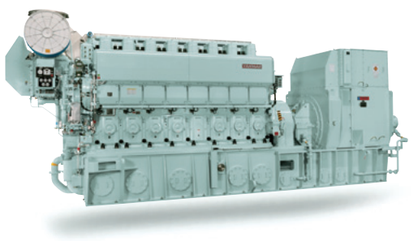
Generator Capacity : 2550~3450kWe



Engine Model	6EY33LW			
No. of Cylinders	6			
Cylinder Bore×Stroke [mm]	330×440			
Rated Output [kW(PS)]	2750 (3739)	3000 (4079)	3360 (4568)	3600 (4895)
Generator Capacity [kWe]	2550	2800	3200	3450
Engine Speed [min-1]	720 / 750			
Dry Weight [kg]	38500			
Total Weight (Gen. Set) [kg]	63000			

8EY33LW

Generator Capacity : 3800~4600kWe



Engine Model	8EY33LW		
No. of Cylinders	8		
Cylinder Bore×Stroke [mm]	330×440		
Rated Output [kW(PS)]	4000 (5438)	4500 (6118)	4800 (6526)
Generator Capacity [kWe]	3800	4300	4600
Engine Speed [min-1]	720 / 750		
Dry Weight [kg]	50900		
Total Weight (Gen. Set) [kg]	90200		

POWER SOLUTION BUSINESS AMAGASAKI FACTORY

**Amagasaki factory started in 1936 as world's first factory to produce small sized diesel engines.
Today, the factory mass produces large-sized diesel engines for marine and generator use,
and also produces diesel and gas engines for land use and general power source.
From 1983, the factory also produces gas turbines, and continues to produce high quality products ever since.**

Highly quality and efficient production system

Amagasaki factory uses its unique, high performance devices and advanced machines for automatic and laborsaving operation. Furthermore, a suitable order-entry system matching each product is applied and controlled with an accurate quality management system. Therefore, we are able to produce highly reliable products to customers. YANMAR is the only company that produces the entire engine integrally within one factory.

Research and development with advanced technology

YANMAR continues to research and develop environmental-friendly technology in a higher degree, such as developing cleaner emission gas, low fuel consumption, and less vibration and noise, based on our unique engine technology.

Certifications of 10 major shipping classification societies.

Certified by various ship classification societies

The Amagasaki factory 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.

NK : Nippon Kaiji Kyokai
ABS : American Bureau of Shipping
BV : Bureau Veritas
CCS : China Classification Society
DNVGL
IRS : Indian Register of Shipping
KR : Korean Register of Shipping
LR : Lloyd's Register of Shipping
RINA : Registro Italiano Navale
RS : Russian Maritime Register of Shipping

Internationally certified quality control and environmental response

In July 1992, Power Solution Business was certified under ISO 9001*1 by a certification authority in England, Lloyd's Register Quality Assurance Limited (LRQA). Responding swiftly to environmental issues, in June 1996 Amagasaki factory became one of the first land-use and marine diesel engine manufacturing facilities to be ISO 14001*2 certified. Furthermore, YANMAR instantaneously attained the International Maritime Organization (IMO) Tier II and III certification for the regulation of NOx emission levels. YANMAR maintains an internationally acclaimed reputation for leading edge technology that has environmental conservation at its forefront.

*1) ISO 9001: International Quality Control System Standard of the International StandardizationOrganization, (Certification No. 912208)

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

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

WORLDWIDE SERVICE NETWORK

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LITHUANIA COUNTRY CODE " 370 "

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FAX: 812-680-1702
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WEB: **www.elit-engine.ru**

UKLAINE COUNTRY CODE " 380 "

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SEYCHELLES COUNTRY CODE " 248 "

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MIDDLE EAST

U.A.E. COUNTRY CODE " 971 "

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● 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.
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ARAB REPUBLIC OF EGYPT COUNTRY CODE " 20 "

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IRAN COUNTRY CODE " 98 "

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ASIA

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▪ OVERSEAS SALES DIVISION.
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▪ QUALITY ASSURANCE DIVISION.
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WEB: **mtcc.mv/**

SRI LANKA COUNTRY CODE " 94 "

● SENOK TRADE COMBINE (PVT) LTD
No.3, R A De Mel, Mawatha, Colombo 5
TEL: 11-2-580017
E-MAIL: info@senoksl.com
WEB: **senoksl.com/**

CHINA COUNTRY CODE " 86 "

ⓓ YANMAR ENGINE (SHANGHAI) CO., LTD.
1101-1106, Gopher Center Building,
No.757 Meng Zi Road, Shanghai, China 200023
TEL: 21-2312-0688
FAX: 21-6880-8090 / 21-6880-8682
WEB: **yanmar.com/cn/**

● 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, Zhonshan, China, 316100
TEL: 580-3696572 FAX: 580-3690572
E-MAIL: weilicheng@imc-yy.com
WEB: **www.imc-yy.com**

SINGAPORE COUNTRY CODE " 65 "

Ⓔ YANMAR ASIA (SINGAPORE) CORPORATION PTE. LTD.
4 Tuas Lane, Singapore 638613
TEL: 6595-4200 FAX: 6862-5189
WEB: **yanmar.com/sg/**

● CHONG LEE LEONG SENG CO., (PTE) LTD.
23 Tuas Avenue 2, Singapore 639454
TEL: 6264-2922 FAX: 6861-8785

VIETNAM COUNTRY CODE " 84 "

Ⓕ YANMAR ASIA (SINGAPORE) CORPORATION PTE LTD RESIDENT REPRESENTATIVE OFFICE HO CHI MINH CITY
875 Tran Hung Dao, Ward 1, Dist 5, HCMC, Vietnam
TEL: 8-3923-8063 FAX: 8-3923-5602

● HAI PHONG TRADING AND ENGINEERING SERVICES COMPANY LIMITED (HATESCO)
Nam Hoa Hamlet - An Hung Village -
An Duong District - Hai Phong City, Vietnam
TEL: 31-3504-117
E-MAIL: hatesco@gmail.com

HONG KONG COUNTRY CODE " 852 "

Ⓖ YANMAR ENGINEERING (HK) CO., LTD.
RoomJ, 23/F, King Palace Plaza 55
King Yip Street Kwun Tong Kow loon Hong Kong
TEL: 2833-9032 FAX: 2904-7783
E-MAIL: yanmarhk@yanmarhk.com.hk

TAIWAN COUNTRY CODE " 886 "

ⓓ YANMAR ENGINEERING CO., LTD. TAIWAN BRANCH
1F., No.3, Yugang N. 2nd Rd., Cianjhen Dist.,
Kaohsiung City 80672, Taiwan
TEL: 7-815-3156 FAX: 7-815-3280
E-MAIL: yanmar-service@umail.hinet.net

ⓔ 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

● YEE 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

● SEIKOH CO., LTD.
1F., No.3, Yugang N. 2nd Rd., Cianjhen Dist.,
Kaohsiung City 80672, Taiwan
TEL: 7-815-3156 FAX: 7-815-3280
E-MAIL: yanmar-service@umail.hinet.net

PHILIPPINES COUNTRY CODE " 63 "

● SEAPOWERS TRADING & INDUSTRIAL SERVICES
316-A Mamatid Cabuyao, Laguna, Philippines
TEL: 917-500-3017 FAX: 49-502-0765
E-MAIL: seapowers@pldtdsl.net

● PHILL_NIPPON KYOEI CORPORATION
S705 Royal Plaza Twin Towers
648 Remedios St. Malate, Manila , Philippines
TEL: 400-9130 FAX: 400-9130
E-MAIL: inquiry@philnippon.com.ph

● AVP MARINE AND INDUSTRIAL SERVICE INC.
3rd F AVJ Bldg SRP Road cor Cansojong St.
Talisay City Cebu, Philippines 6045
TEL: 32-462-2955
E-MAIL: service.avmarine@avmes.com

● AZUMI CORPORATION
The Venue Annex Bldg., Unit A-201-205
Rizal Highway cor. Brilliant St., SBFZ , Philippines 2222
TEL: 47-250-0806
E-MAIL: fujii.subic@gmail.com

● ALL CERTIFIED EQUIPMENT TRADING CORPORATION
905 Philam Homes EDSA, 1104 Quezon City, Philippines
TEL: 2-622-3448
E-MAIL: info@allcertifiedequipment.com
WEB: **www.allcertifiedequipment.com/**

MONGOLIA COUNTRY CODE " 976 "

● **UNITRA CO., LTD**
273-Chinggis avenue Ulaanbaatar Capital, 17010, Mongolia
TEL: 11-31-1766
E-MAIL: info@unitra.mn
WEB: **unitra.mn/**

KOREA COUNTRY CODE " 82 "

● **HWA ILL TRADING CO., LTD.**
#93, 2-GA, Namhang Dong,
Young Do-Ku, Busan, Korea
TEL: 51-412-6385 FAX: 51-414-8752
E-MAIL: hwaill@hwaill.co.kr

● **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@gmail.com

● **CHIBA MARINE KOREA CO., LTD.**
1-90, Chunghak-Dong, Yeongdo-gu,
Busan, Korea
TEL: 51-418-8998 FAX: 51-418-5880
E-MAIL: chibako@korea.com

BANGLADESH COUNTRY CODE " 880 "

● **TSI MARINE LIMITED**
Makkah Madinah Trade Centre (15th Floor) , 78 ,
Agrabad C/A , Chittagong
TEL: 1711799692
E-MAIL: tsimarineltd@gmail.com

MYANMAR COUNTRY CODE " 95 "

● **UMG MYANMAR**
No.589, Bo Aung Kyaw Street,
Yangon-Pathein Highway Road,
Hlaing Thar Yar Township,
Yangon, Myanmar
TEL: 1-645178 FAX: 1-645211
E-MAIL: sale-div@winstrategic.com.mm

● **UNITED ENGINEERING CO., LTD**
UE Office Complex
UE Building : Corner of Wayzayantar
& Yadanar Rd, Thingangyun Tsp,
Yangon, Myanmar
TEL: 1-571321 FAX: 1-571288
WEB: **www.united-engineering.net**

● **WATANA TRADING LTD**
No.59 (A)Shwe Hintha Street 6 1/2 Mile, Pyay Road,
Hlaing Township Yangon
TEL: 1-526-130
E-MAIL: wwtnmya@gmail.com
WEB: **www.watana.org/**

THAILAND COUNTRY CODE " 66 "

● **STAR MARINE ENGINEERING CO., LTD**
2 / 5 M11 Tumbol Bangphueng
Phrapradaeng, Samutprakarn,
Thailand 10130
TEL: 2-816-8001 FAX: 2-463-2616
E-MAIL: info@starmarineeng.com

MALAYSIA COUNTRY CODE " 60 "

● **PANSAR COMPANY., SDN BHD**
Wisma Pansar 23-27 Workshop Road 96007
Sibu Sarawak, Malaysia
TEL: 84-333366 FAX: 84-314555

● **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

INDONESIA COUNTRY CODE " 62 "

● **YANMAR JAKARTA SERVICE CENTER C/O P.T. PIONEER**
Jalan Ir. H. Juanda, No.40-42
Jakarta 10120, Indonesia
(P.O. Box 2502-Jakarta 10025)
TEL: 21-385-8526 FAX: 21-384-8995

● **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 PTY LTD.**
Thynne Road, Morningside, Brisbane,
Queensland, Australia 4170
TEL: 7-322-70856 FAX: 7-3399-6164

● **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

● **POWER EQUIPMENT PTY LTD- HEAD OFFICE**
10-12 Commercial Drive Lynbrook, VIC, 3975
TEL: 3-9709-8500
E-MAIL: info@powerequipment.com.au
WEB: **www.powerequipment.com.au/**

NEW ZEALAND COUNTRY CODE " 64 "

● **POWER EQUIPMENT PTY LTD**
10A Vega Place, Rosedale, Auckland, 0632
TEL: 9-358-7478
sales@powerequipment.co.nz
parts@powerequipment.co.nz
service@powerequipment.co.nz
WEB: **www.powerequipment.co.nz/**

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.**
101 International Parkway, Adairsville,
GA 30103, U.S.A.
TEL: 770-877-9894 FAX: 770-877-9009
WEB: **yanmar.com/global/**

● **MARINE TURBO & DIESEL INC.**
1090 7th Street Richmond,
Ca 94801, U.S.A.
TEL: 510-236-3525 FAX: 519-236-3576

● **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

● **BAY DIESEL & GENERATOR**
3736 Cook Boulevard.
Chesapeake, VA 23323-1604 USA
TEL: 757-485-0075 FAX: 757-485-0242

● **UNITED WORLD ENTERPRISE, INC**
6310 Winfree Houston,
Texas 77087 U.S.A.
TEL: 713-641-1915 FAX: 713-641-2717

● **GOLTENS HOUSTON INC**
7214 Clinton Drive,
Houston TX 77020 USA
TEL: 713-487-4900 FAX: 713-487-4904

SOUTH AMERICA

BRAZIL COUNTRY CODE " 55 "

Ⓗ **YANMAR SOUTH AMERICA LTDA**
Cond E Indaituba 4509 Mod 01/02
Indaiatuba Rod SP73 13347-390
TEL: 19-3801-9200 FAX: 19-3834-4454
WEB: **www.yanmar.com.br**

Ⓘ **YANMAR SOUTH AMERICA MANAUS BRANCH**
Rua Jonatas Pedrosa Numero 50
Bairro Centro Manaus 69020-110
TEL: 92-3347-9205

● **METALOCK BRASIL LTDA**
Rua Visconde do Rio Branco 20/26, 11013-030,
Santos, SP, Brazil
TEL: 13-3226-4686 FAX: 13-3226-4680
E-MAIL: santos@metalock.com.br
WEB: **www.metalock.com.br**

● **MANUTENÇÃO E REPAROS DE MOTORES DIESEL (ROMAGA)**
Rua Pedro Alves, 18 / 20 / 22 / 22 fds 01 e 02
Santo Cristo Rio de Janeiro - RJ 20220-281
TEL: 21-2263-3115
WEB: **www.romaga.com.br**

EQUADOR COUNTRY CODE " 593 "

● **MOTORES DEL PACÍFICO S.A.**
Av. Francisco de Orellana, Alborada XIII etapa,
Mz 29,C.C. Albotrece, locales 1 y 2,
Guayaquil - Ecuador
Tel : 4-2174-067 , 4-6033-350
WEB: **motoresdelpacifico.com**

PARAGUAY COUNTRY CODE " 595 "

● **ADRIASOL S.A.**
Ruta km 19,5, Transchaco, Asunción, Paraguay
TEL: 21-756099
WEB: **www.adriasolsa.com/**

ARGENTINE COUNTRY CODE " 54 "

● **TALLERES LILO S.A.**
Defensa 1883 - Dock Sud - Avellaneda
- Buenos Aires, Argentina
TEL: 11-4222-1289
WEB: **www.tallereslilo.com.ar/**

● **VN PROPULSION S.R.L**
Mar de Plata 7600 Buenos Aires - Argentina
TEL: 011-4553-4026
WEB: **vnpropulsion.com/en**

● **JOSE V. NATALICHIO**
Av. Regimientos de Patricios 176 1ª
B (C1205ADO) Ciudad Autonoma
De Buenos Aires-Argentina
TEL: 911-4300-8226 FAX: 911-4361-3001

HISTORY

1912 ● Founded as Yamaoka Hatsudoki Kosakusho.

1936 ● Founded as Yamaoka Nainenki (internal combustion engine) Company Ltd. with 3 million yen on a 40,000m² site in Nagasu Oda-mura, Kawabe-gun, Hyogo Pref. Manufactured diesel engines together with Yamaoka Hatsudohki Kosakusho (engine mfg.) Co., Ltd.

1952 ● Name changed to Yanmar Diesel Engine Co., Ltd.

1968 ● Awarded Deming Prize for pursuing distinguished quality control.

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.

1984 ● Plant certified by NV (Det Norske Veritas).

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.

2005 ● Received supervision for approved factories by BV (Bureau Veritas).

2006 ● The Large Power Products Operations Business celebrated its 70th anniversary.

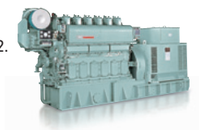
2007 ● Completion of the Amagasaki Plant Development Laboratory, aimed at strengthening emissions standards and systems for developing new products as well as strengthening systems for producing large-sized products.

2008 ● Received supervision for approved factories by KR (Korean Register of Shipping).

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).

2010 ● Released Model 6EY22.



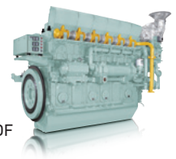
2012 ● YANMAR celebrated the 100th anniversary of its founding.
● Received a designation for approved factories by IRS (Indian Register of Shipping).
● Released Model 6EY17.

2013 ● Received a designation for approved factories by RS (Russian Maritime Register of Shipping).

2014 ● Released Model 6EYG26L.

2015 ● Released Model 6EY33.

● Released SCR for Model 6EY26.



2016 ● Released Model 6EY26DF
● Released Marine spring vibration isolating system