

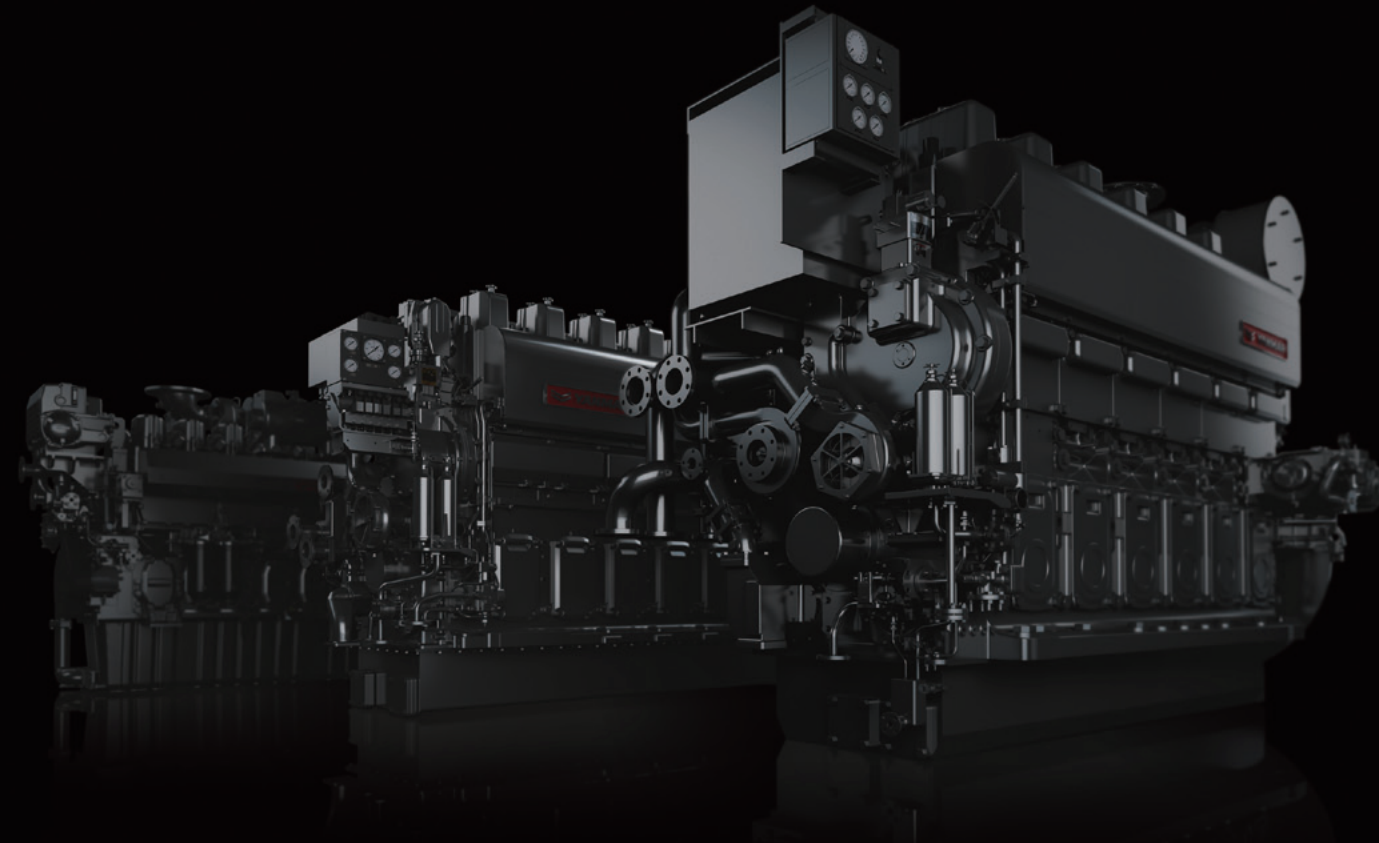


YANMAR

PRODUCT GUIDE

MARINE DIESEL ENGINE

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



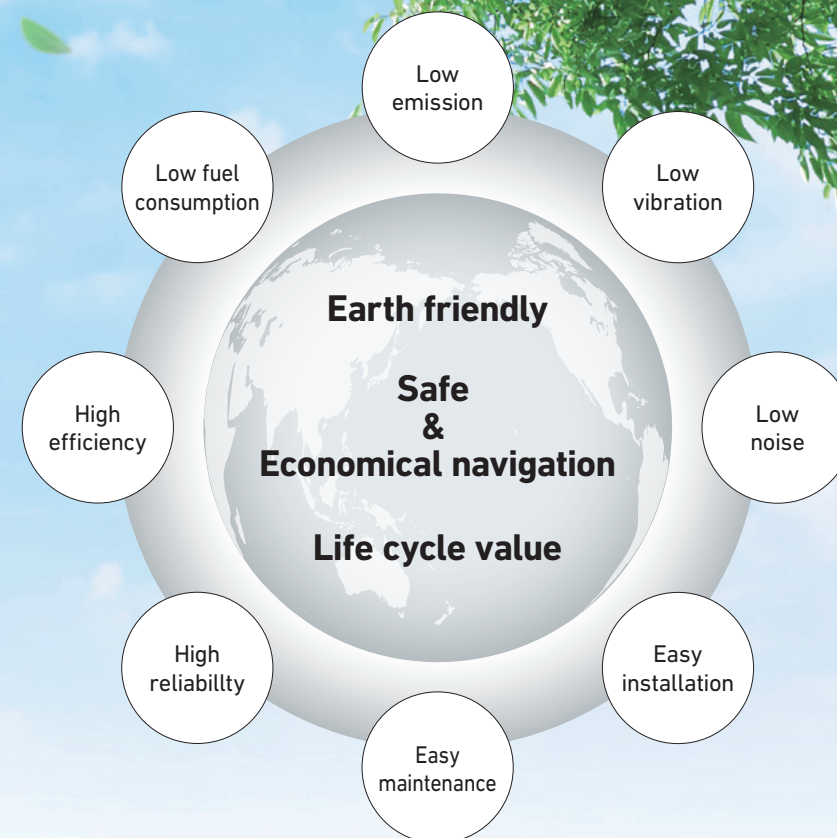
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Limitless Blue Skies and Oceans

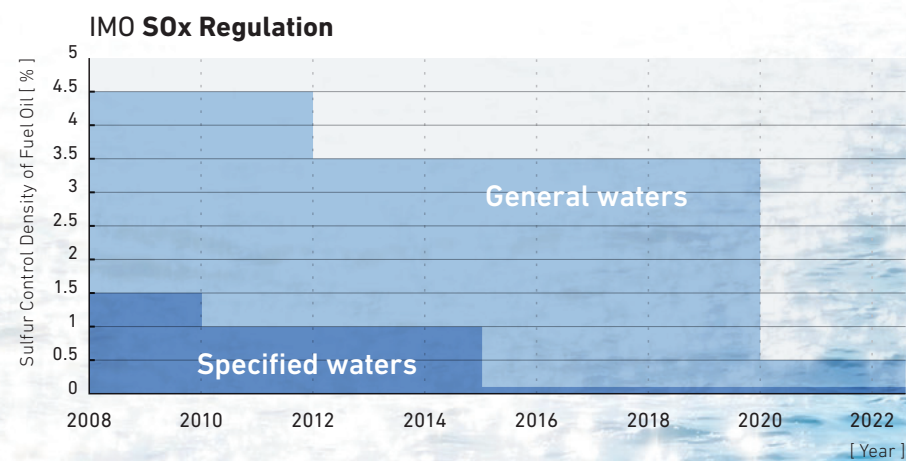
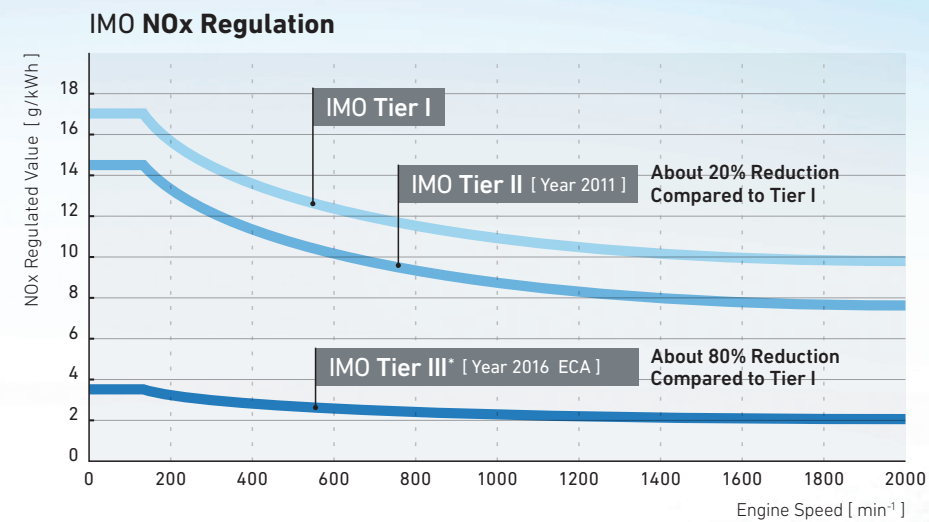


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09P Marine spring vibration isolating system	

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.



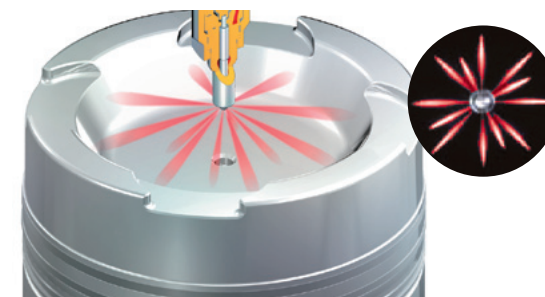
* Tier III is applied in general waters
 ECA = Emission Control Area IMO = International Maritime Organization
 NOx = Nitrogen Oxides SOx = Sulfur Oxides

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

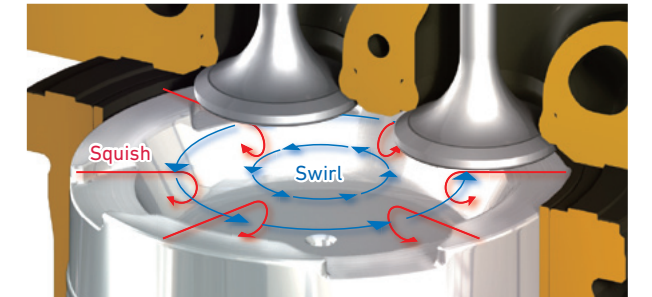
The vibration noise mainly in the low frequency band was difficult to reduce until now. However, we can drastically reduce it by the metal spring with high quality vibration damping performance. We will contribute to further improvement of the shipboard environment.



Staggered Layout Injection System

• Air Flow Motion

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

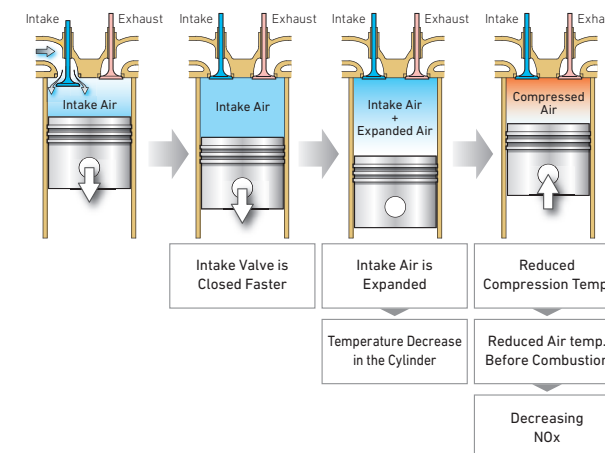


Intake Swirl and Squish

High pressure miller cycle system

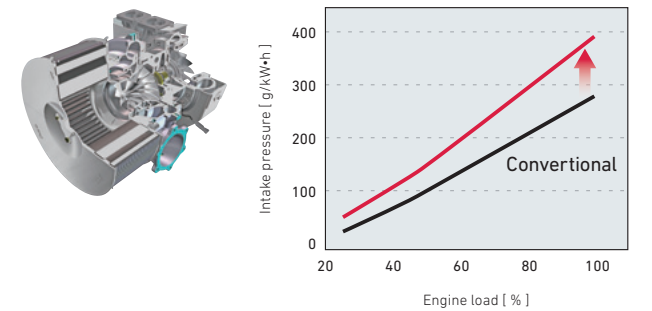
• Miller type cam

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.

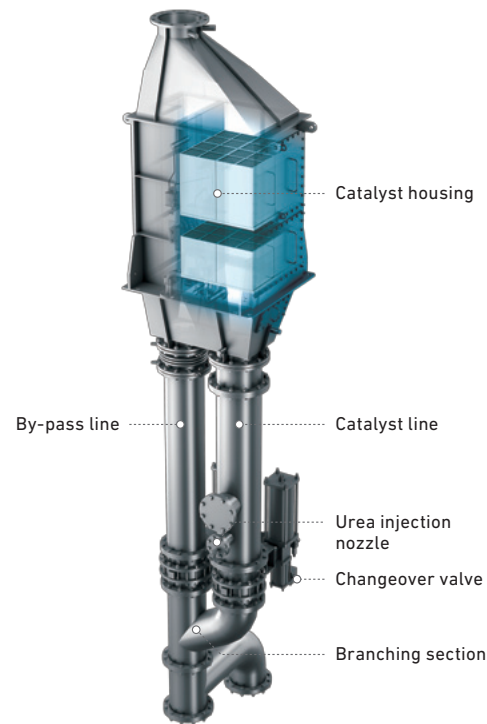


• High pressure ratio turbocharger

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.

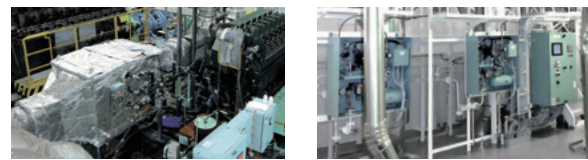


SCR system



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.**

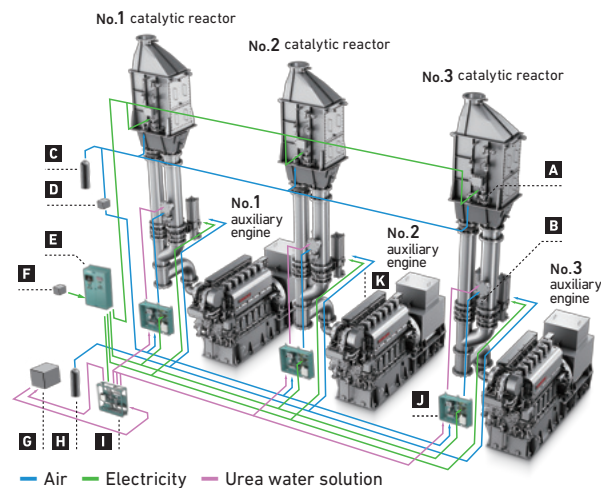
Catalyst degradation occurs due to the flow of small amounts of exhaust gas into the catalyst line when the by-pass is in operation. Specification not to flow the exhaust gas realizes longer lifetime of catalyst.

	Standard spec.	Optional spec. 1	Optional spec. 2
Changeover valve installed to catalytic reactor outlet	—	○ *1	—
Purge air	Req'd	Not req'd	Not req'd
Blower fan unit	—	—	○ *2

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

- **Automatic control for multiple engines.**

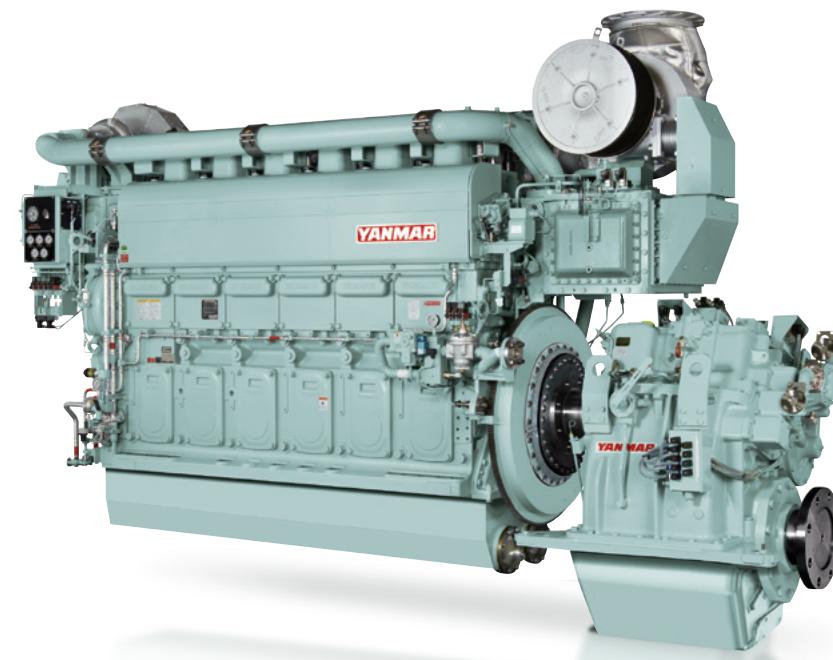
Control unit integrates all devices including catalytic reactors mounted to each individual engine. A single pump unit and control panel can manage system for multiple engines, allowing the system to remain compact.



- Air — Electricity — Urea water solution
- 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

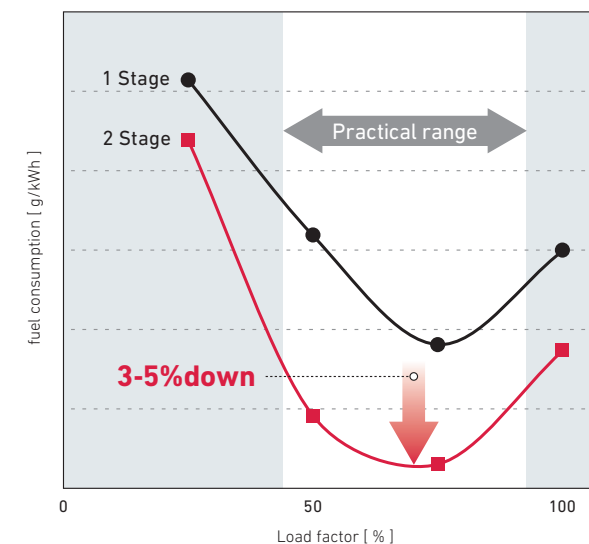


Ultra low fuel consumption of 4-stroke medium speed diesel engine.

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**

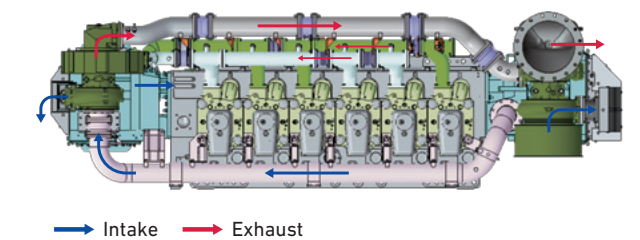
We acquired the air by using the "2 stage turbocharging system" in spite of advanced closing timing of suction valve to compare with "1 stage turbocharging system". As a result, we could achieve the low fuel consumption in wide load.



- **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



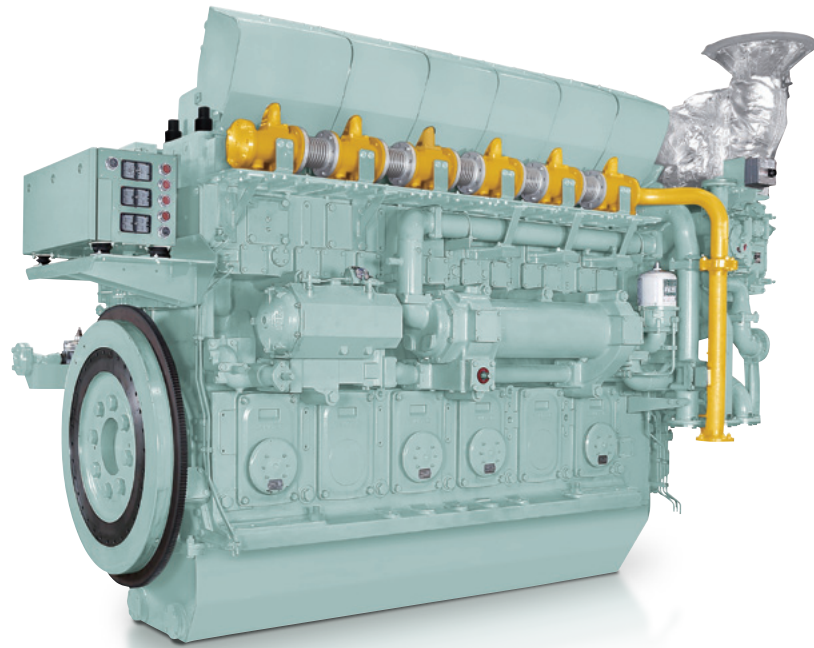
- **Unchanged mountability and Good acceleration**

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



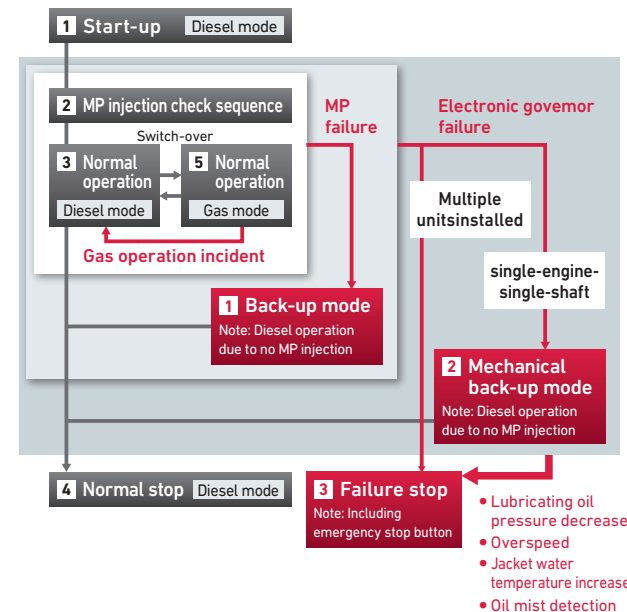
Comply with environmental regulations by using both diesel and gas fuels.

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

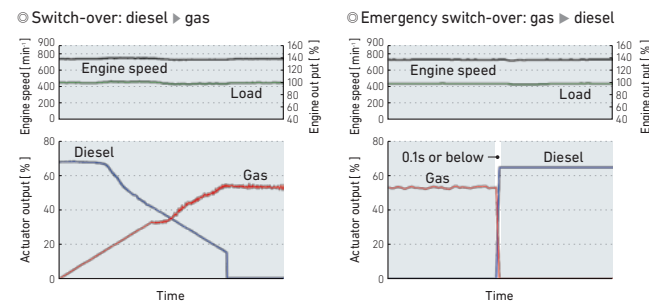
YANMAR has developed a unique control system. Through multiplexing of devices, this system achieves safety and redundancy even with single-engine-single-shaft vessels, allowing you to navigate with peace of mind.

Note: Vessel classification currently pending



• Switch fuels even at 100% output

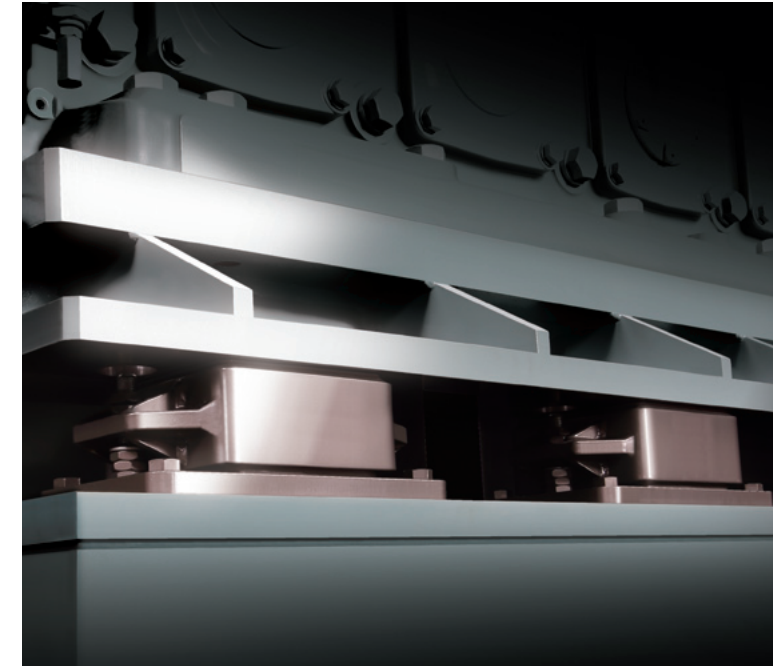
Freely select which fuel to use. The system makes it possible to switch from diesel mode to gas mode during navigation, with no output restrictions. Furthermore, during emergencies the system can shift safely and instantaneously from gas mode back to diesel mode.



• 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



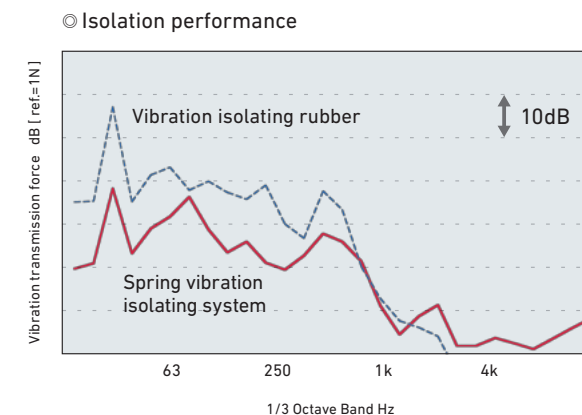
Latest system to help comfort and reduce maintenance

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, Infrastructure, Transport and Tourism approval Acquisition of certificate by Nippon Kaiji Kyokai Association

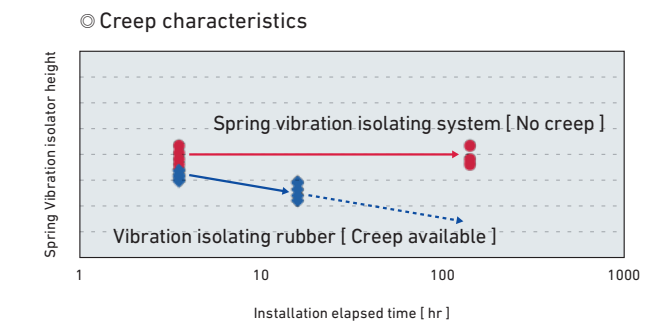
• Reduce vibration noise inside ship

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.



• Maintenance-free

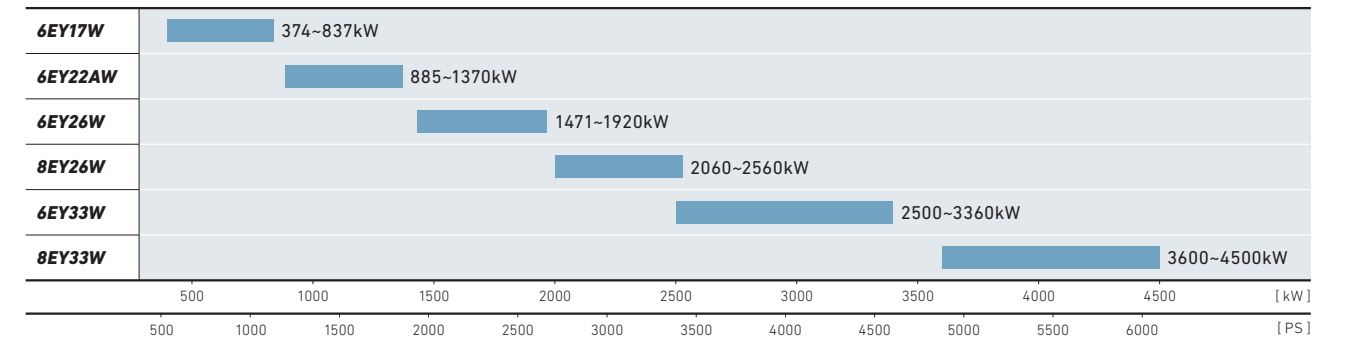
There is no creep phenomenon in the metallic spring vibration isolating system, so it is almost unnecessary to replace and maintenance, and contributes to cost reduction.



MARINE PROPULSION

DIESEL ENGINE LINE-UP

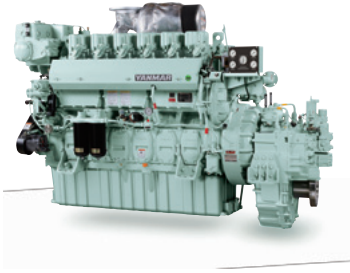
Power Range



Series	Models	Output [kW]							Gear	Dimensions [mm]													
		750	800	850	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			794	862		429													
				590			615	682		349													
					749	837	794	862		429													
6EY22AW	6EY22AW			885				YXH-1000	4574	3647	2965	1488	1618	2416	666	885	435	1922					
							1601		450			-											
							1517		885			435											
							1550		450			-											
					1180		1807		1145			590											
					1330		1957		555			-											
6EY26W	6EY26W							YXH-2000M	5702	4271	3563	1882	1804	3112	842	1145	590	1900					
							2322		555			-											
							1882		1145			590											
							2070		555			-											
							1890		1145			590											
							2320		555			-											
							1890		1145			590											
8EY26W	8EY26W							-	-	5090	5022	-	2085	3257	842	-	-	1900					
							3542							1127									
							2845							430									
							3257							842									
6EY33W	6EY33W							-	-	5700	4520	-	2335	3695	1025	-	-	2372					
8EY33W	8EY33W							-	-	7125	5585	-	2555	4040	1025	-	-	2372					
6N21AW	6N21A-DW			662				Y-850	3920	2776	2733	1158	1420	2081	601	814	359	1802					
							1289		455			-											
	6N21A-UW				736			YX-1000	4053								1199					885	435
							YX-1000C		4086								1232				450	-	
	6N21A-SW				883*			YX-1000	4059								1205					885	435
							6N21A-EW		956*								1238				450	-	

6EY17W

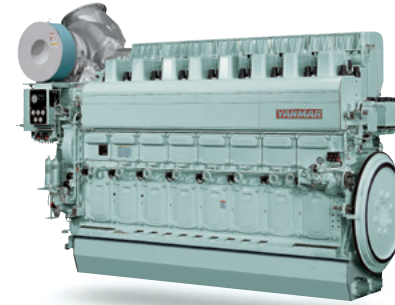
Power : 374~837kW



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				1450
Dry Weight [kg]	3880				
Propeller Type	for F.P.P.				
Marine Gear Model	Offset YXH-500				
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				

8EY26W

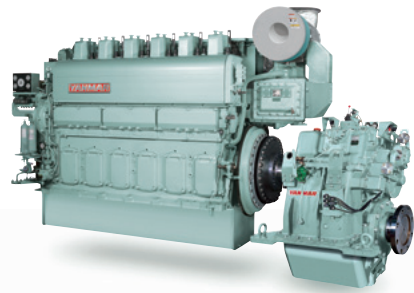
Power : 2060~2560kW



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			

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	

6/8EY33W

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



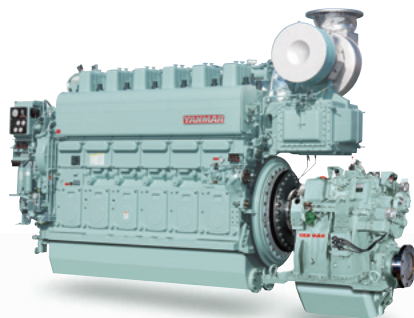
Engine Model	6EY33W			
No. of Cylinders	6			
Cylinder Bore×Stroke [mm]	330×440			
Rated Output [kW(PS)]	2500 (3399)	2750 (3739)	3100 (4215)	3360 (4568)
Engine Speed [min ⁻¹]	750			
Dry Weight [kg]	39100			

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

6EY26W

Power : 1471~1920kW

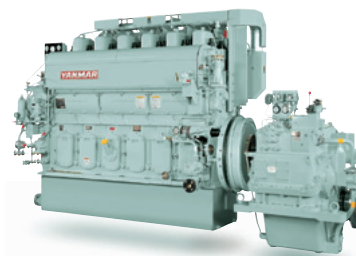


Engine Model	6EY26W						
No. of Cylinders	6						
Cylinder Bore×Stroke [mm]	260×385						
Rated Output [kW(PS)]	1471 (2000)	1620 (2203)			1920 (2610)		
Engine Speed [min ⁻¹]	750						
Dry Weight [kg]	18500						
Propeller Type	for C.P.P.	for F.P.P.	for C.P.P.	for F.P.P.	for C.P.P.	for F.P.P.	
Marine 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]

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.

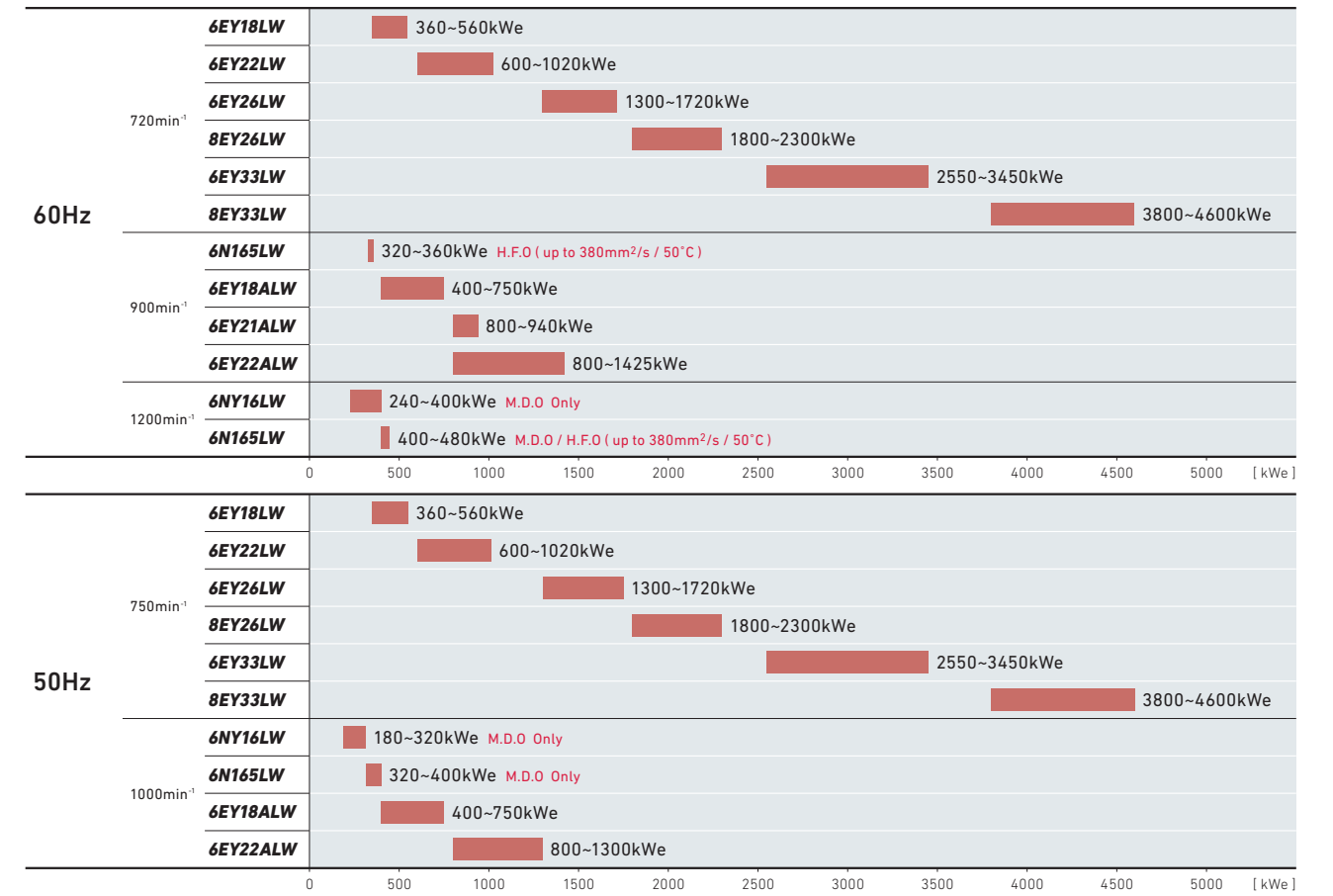
MARINE AUXILIARY

DIESEL ENGINE LINE-UP



Generator Capacity

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

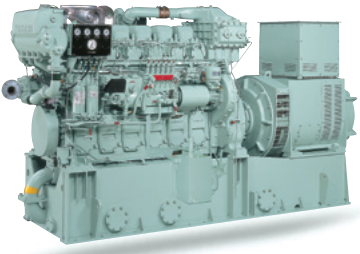


Series	Models	Output [kW]					Dimensions [mm]								
		Engine Speed [min ⁻¹]													
		720	750	900	1000	1200	A	A2	B	C	D	E	F	G	
6NY16LW	6NY16L-HW				200	265	3097	1972	1265	1813	2530	940	800	1983	
	6NY16L-DW				245	310	3097								
	6NY16L-UW				270	355	3117								
	6NY16L-SW				310	400	3112								
	6NY16L-EW				353	441	3172								
6N165LW	6N165L-UW				353	441	3182	1982	1341	1999	2700	990	800	2105	
	6N165L-SW					397	485	3332	2012						1557
	6N165L-EW				397				1341						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								
		1900-2130					8258								6720
8EY26LW	8EY26LW	2245					8358	5290	2030	3665	6800	1420	1250	3150	
		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									

6EY21ALW

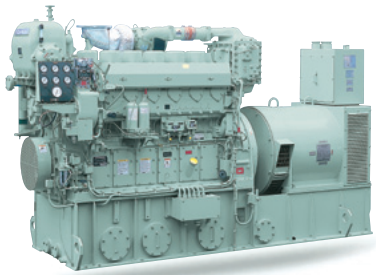
Generator Capacity : 800~940kWe



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		

6N165LW

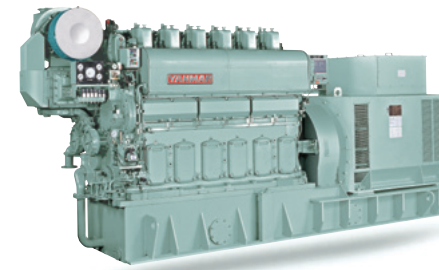
Generator Capacity : 320~480kWe



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					

6EY22[A]LW

Generator Capacity : 600~1425kWe

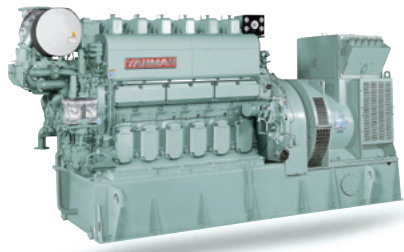


Engine Model	6EY22LW				6EY22ALW									
No. of Cylinders	6													
Cylinder Bore×Stroke [mm]	220×320													
Rated Output [kW(PS)]	660 (897)	745 (1013)	800 (1088)	880 (1197)	970 (1319)	1080 (1468)	880 (1197)	970 (1319)	1020 (1387)	1100 (1496)	1180 (1604)	1300 (1768)	1370 (1863)	1500 (2039)
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								

• 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						

6EY26LW

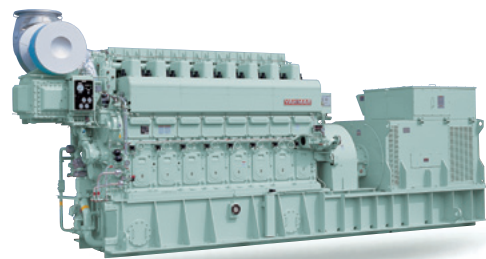
Generator Capacity : 1300~1720kWe



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	

8EY26LW

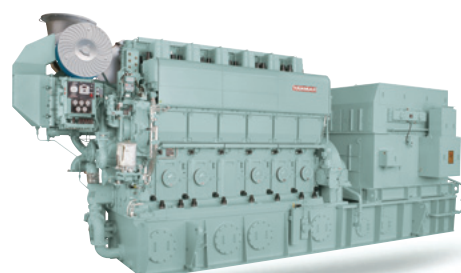
Generator Capacity : 1800~2300kWe



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

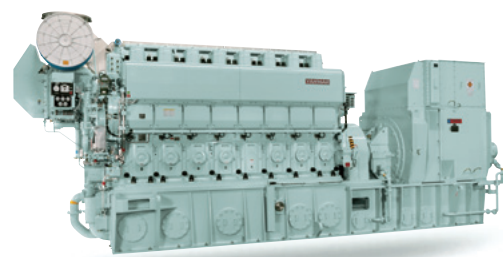
Generator Capacity : 2550~3450kWe



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



*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)

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.

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Hlaing Township Yangon
TEL: 1-526-130
E-MAIL: wwtmmya@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@starmarine.co.th

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.tallerestilo.com.ar/


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


- **JOSE V. NATALICHO**
Av. Regimientos de Patricios 176 1°
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 