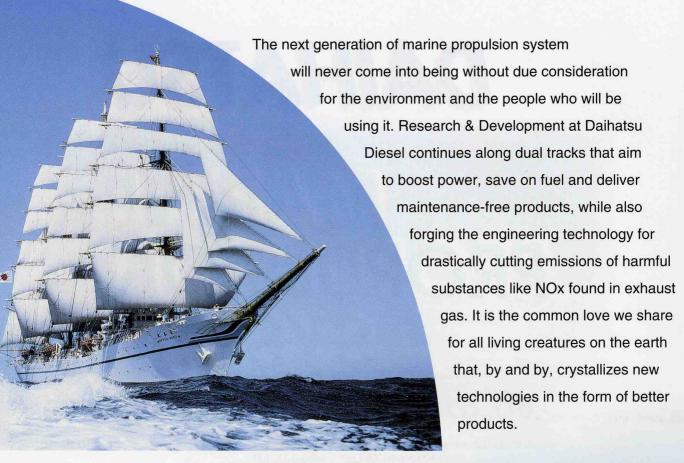
DAIHATSU

MARINE PROPULSION SYSTEM

DAIHATSU DIESEL MFG.CO.,LTD.

Daihatsu Diesel R & D seeks a good balance between mother nature and the industrial sciences.



DKM SERIES ENGINE

DKM SERIES

INDEX

	• Gea	red Diesel Engine	Features	4~5
	Line-upMultiple	e system/IMO regula	tion	6~7
	Geared Diesel En	ngine Applications	8~9	
• [OKM Series		- 10~11	
Reduct	ion Gear Application	12-	-13	
Monitoring Sy	stem and Related Equi	pment — 14~15		
Proof of Our Succes	s	16~23		



Since shipment in October 1993,

Daihatsu Diesel has delivered

low NOx engines

numbering more than 4,300,

demonstrating excellent durability.

(Conformity with NOx regulations)

*** AUGUST. 2005**

Power, Cost and Navigability ... Daihatsu's Geared

At Daihatsu Diesel, in order to produce geared diesel engines customers can be satisfied with, we pump a lot of effort into improving basic performance while also constructively and logically challenging new technological development. Customers turn us for most everything ... power, cost-performance, navigability, etc. Our geared diesel engines are highly respected and evaluated for being forward-looking and always one step ahead.

We have spared no efforts in shortening maintenance time and reducing the number of parts. As a result, maintenance and inspections are both simple and speedy for mid-speed engines.

Adopting an exhaust gas economizer and hot effluent circulation system, waste heat energy is recovered and efficiently utilized as an onboard heat source to heat tanks, lines, living quarters, etc.

Effective Utilization of Waste Heat

Simple Maintenance & Inspections

The generator and cargo oil pump are driven by a crank shaft through the reduction gear and front engine block. This saves on space, reduces maintenance and offers other advantages.

Front Power Take-Off & Shaft Generator ortorming & Partorming

Daihatsu's geared diesel engines were the first in the world to run on heavy fuel (H.O.7000 cSt/50°C). Moreover, they can run in the low-load region.

Heavy-Fuel Drive

Navigable



Improved Propulsion
Efficiency

Propeller revolutions can also be freely set. A larger diameter propeller and multiple-input gear system greatly boosts economy, sailing speed and tow-tug force.

Optimal Geared System

Customers can freely select reduction gears and gear ratio to suit vessel usage. Furthermore, with additions like Daihatsu's CRASH ASTERN system, slipping control and 2-speed slip-clutch reduction gears, vessels can go smoothly and directly from full-speed to dead-slow ahead.

Diesel Engines Meet Expectation with Overall Performance.

Aftercare Service

Daihatsu Diesel has offices and dealers all over the world. We offer complete aftercare service and make every effort to communicate with customers.

Thorough Quality
Control

Our manufacturing plants are certified by JG, NK, LR, AB and CCS, moreover the famed ISO9001 for excellence in quality assurance systems. Thanks to this, the hi-tech and high quality we stand by are known worldwide.

eliable

Tough, Dependable & Environment-Friendly

Years of enduring R & D has made us tough and proud of our successful record and won us the trust of many faithful customers. Our search for progress and betterment continues with strong emphasis on reducing emissions of harmful substances.

Proven
Over and Over Again

Daihatsu's geared diesel engines are employed in ferry boats, tankers, freighters, working craft and many other types vessels. Our marine engines are highly acclaimed all over as reliable propulsion systems.

No More Critical
Revolutions

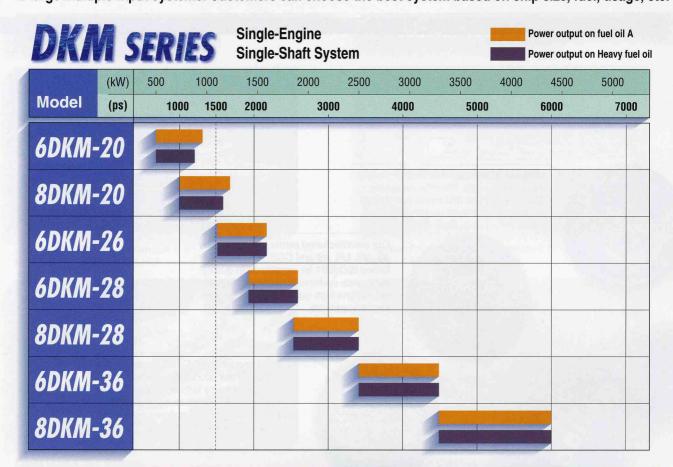
Designed for Low Vibration & Low Noise

Our mid-speed engines have a low vibromotive force, resonate with vessel natural vibrations and are quiet. Furthermore, dynamic load is small and torque fluctuation minimized, making them advantageous.

Both the engine and shaft drive system are no longer operated in fear of critical revolutions when shifting from idle to rated rpm. The merits are well demonstrated in fuel-saving cruising at reduced speed. Moreover, thanks to our in-house developed doughnut RD coupling, we have eliminated the problem of torsional vibration. Now, customers are free to select shafting and propeller to suit their vessel's needs.

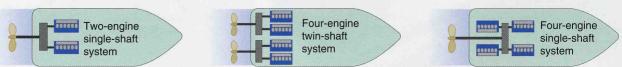
A Wide Variation to Meet a Wide Range of Needs

Daihatsu's geared diesel engines come in a wide line-up from single-engine single-shaft systems to large multiple-input systems. Customers can choose the best system based on ship size, fuel, usage, etc.



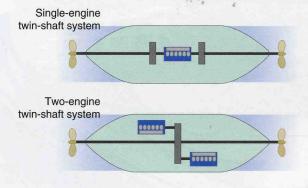
Multiple-Geared Diesel Engines

Daihatsu's multiple-geared diesel engines are ideal for ships with twin-shaft propellers or low ceiling engine rooms. We offer a wide selection to choose including a twin-engine single-shaft system, single-engine twin-shaft system, four-engine single-shaft system and eight-engine twin-shaft system. Engine cut-off is also possible according to ship speed.



■ Single-Engine Twin-Shaft System for Double-Bow Ships

Daihatsu Diesel engines are at work onboard double-bow ships navigating narrow channels or short routes, or which operate as sightseeing boats on river cruises, etc. A single engine drives the propellers on the bow and stern. Any combination of single-engine twin-shaft system and Daihatsu's remote control system can be selected according to steering demands and guarantees improved navigation.

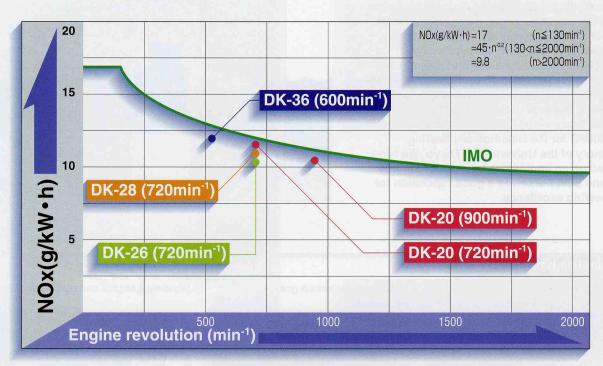






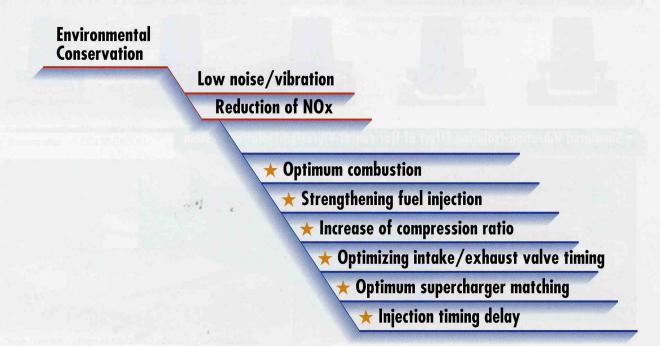
For an environment-friendly engine, lower fuel consumption has been accomplished with low NOx.

NOx<12.1 g/kW·h: IMO regulation (at 720 min⁻¹)



Reduction of NOx (Nitrogen oxides) emitted from diesel engine has become an emergency problem worldwide.

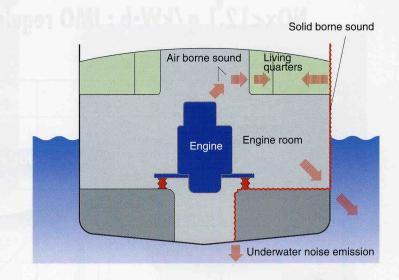
The above graph shows the standard values of international emission control that was adopted by IMO (International Maritime Organization) in September 1997.



Daihatsu's Geared Diesel Engines Are a Never-Ending Pursuit of Advanced Technology, Onboard Living and Economics.

• Noise-Vibration Isolation Systems

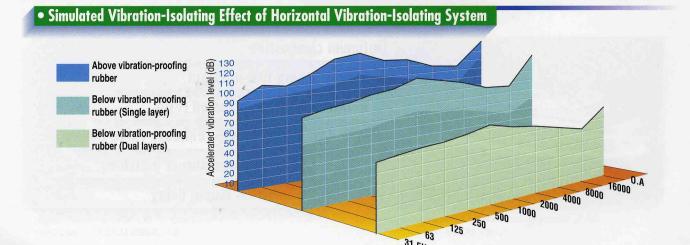
In recent years, vibration-proofing and noise emission controls for onboard machinery have come under focus as a means for improving onboard living and reducing underwater noise emission. Daihatsu Diesel was quick to catch sight of these problems and has, ever since, been developing engine vibration-noise isolation systems. Since our first delivery in 1980, we have provided 43 systems to 20 ships (as of Mar. 1999) including the 6000PS for the Yokosuka support vessel of the Marine Science Technology Center's Shinkai 6500 and the 7600PS for the Hakuhomaru floating laboratory of the University of Tokyo. We have chalked up an impressive track record in this field and built ourselves a good reputation for engineering excellence.



• Vibration Isolation Systems Engine only Engine and reduction gear Separated engine and reduction gear Thrust bearing R/G Propulsion engine bearing R/G R/G

Vibration Isolation Systems

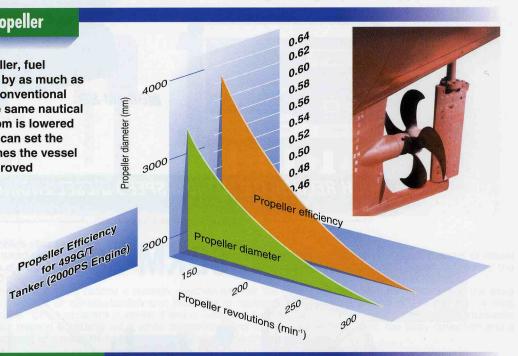




DKM SERIES

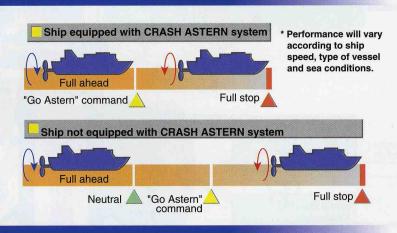
• Large Diameter Propeller

With the right size propeller, fuel consumption is reduced by as much as 3% in comparison with conventional propellers running at the same nautical speed, when propeller rpm is lowered by 10%. Daihatsu Diesel can set the propeller that best matches the vessel thus offering greatly improved propulsion efficiency.



CRASH ASTERN System

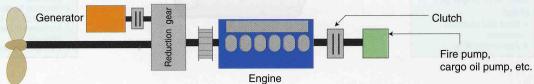
With a low-rpm large-diameter propeller, engine stalling is always a problem when moving astern because of increased torque and engine overload. For this reason, Daihatsu geared diesel engines employ our own CRASH ASTERN system. It can also be effectively operated from the bridge.



• Power Take-Off & Engine Layout

With Daihatsu's geared diesel engines, generators, cargo oil pumps and other machinery can be driven using power drawn through the front engine block and reduction gear. This system greatly reduces fuel consumption. What's more, one of the generators used in conventional systems can be omitted, which enables more effective use of dead space. In addition, this kind of system reduces labor and costs in running and maintenance. Also, engine and onboard control systems can be freely designed.



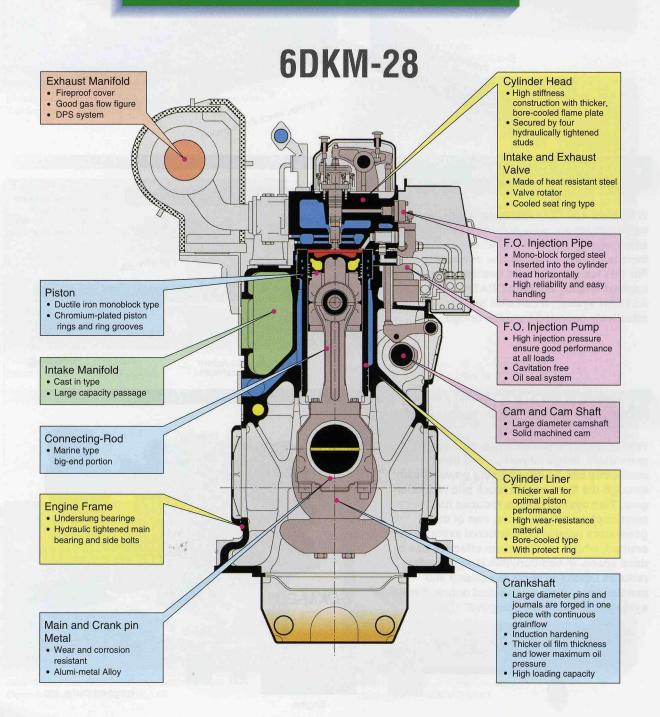


DKM Series

Engines of the DKM Series are a convergence of high reliability and environmental-friendly engineering.



HIGH RELIABILITY MEDIUM SPEED DIESEL ENGINE



emiphe do maine is pull require and - ame DKM SERIES

DKM Series Specifications

Engine model	Bore (mm)	Stroke (mm)	No. of cylinders			
DKM-20	200	300	6, 8			
DKMS-25	250	360	6			
DKM-26	260	380	6			
DKMS-28	280	385	6			
DKM-28	280	390	6, 8			
DKM-36	360	480	6, 8			

Specifications

*1 : kW = PS x 0.7355

Output given for fuel oil A. Figures in () given for heavy fuel oil.

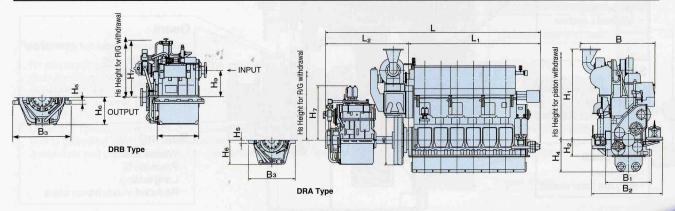
Engine model	Output		Engine revs.	R/G model	Casumatia	Propeller revs.	Propeller diam.	Propeller diam.	Intermediate	Propeller	Weight	t (ton)
	(kW)*1	(PS)	(min ⁻¹)	H/G model	Gear ratio	(min ⁻¹)	Z = 4 (mm)	Z = 5 (mm)	shaft diam. (mm)	shaft diam. (mm)	Engine	R/G
6DKM-20	956 (882)	1300 (1200)	900	DRA-16F	3.429	262	2250	2160	145	180	8.0	2.5
00 1111	1250	1700	900	DRA-19F	3.022	298	2350	2260	155	190	10.1	2.8
8DKM-20 (1176)	(1176)	(1600)		DRB-19F	3.281	274	2450	2360	160	200	10.1	3.0
	1470	2000	750	DRA-25F	2.371	316	2340	2250	160	200	16.0	3.8
6DKMS-25	150 300 100	100000000000000000000000000000000000000			2.576	291	2460	2360	165	210		
	(1470)	(2000)		DRB-25H	2.734	274	2550	2450	170	210		3.5
6DKM-26 1618 (1618)	1610	2200		DRA-25F	2.371	316	2380	2280	165	210		3.8
		2200	750	DI IA-231	2.576	291	2480	2380	170	210	16.0	
	(1618)	(2200)		DRB-25H	2.734	274	2600	2500	175	220		3.5
6DKMS-28 1838 (1838)	1000	2500	es luvaletativi.	DRA-35H	2.595	289	2580	2480	175	220		6.0
	(2500)	750		2.800	268	2700	2600	180	230	18.0		
	(1030)	(2300)	definition of	DRB-35H	3.030	248	2830	2720	185	230	dt.hoom	5.5
1010	1912	2600 (2600)	750	DRA-35H	2.595	289	2640	2540	180	220		6.0
6DKM-28	(1912)				2.800	268	2830	2720	185	240	18.0	
	(1912)			DRB-35H	3.030	248	2950	2840	190	240		5.5
	2500	3400	750	DRA-50F	2.700	278	2850	2740	200	250		8.5
8DKM-28	2500			D11/1 001	3.101	242	3060	2940	205	260	23.0	
(2500)	(2500)	(3400)		DRB-50F	3.353	224	3280	3150	220	280	41 (41 (11)	8.0
6DKM-36 3309 (3309)	2200		600	DRA-80F	2.430	247	3190	3070	225	280		12.0
					2.740	219	3430	3300	235	290	44.0	
	(3309)	(4500)		DRB-80F	3.149	191	3720	3580	245	310		
THE REAL PROPERTY.	4440	6000	600	DRA-120F	2.862	210	3730	3580	260	330		
8DKM-36	4413	6000		DITA-120F	3.263	184	4030	3880	270	340	55.0	20.0
	(4413)	(6000)		DRB-120F	3.722	161	4370	4200	280	360		

Output for only DKM-36 engine given for crank shaft end.

Dimensions

(mm)

																		(
Engine model	R/G model	L	Lı	L2	В	Вı	H ₁	Ha	Нз	H ₄	D	Нъ	Не	H ₇	Нв	Нэ	Ba	Вз
6DKM-20	DRA-16F	4555	3135	1420	1480	960	1885	365	1680	695	1000	70	445	870	1200	_	1610	970
	DRB-16F	4525	3135	1390	1480	960	1885	365	1680	695	1000	120	490	1050	1200	475	1610	1040
8DKM-20	DRA-19F	5570	3870	1700	1590	960	1885	365	1680	695	1000	80	500	1005	1200		1610	1020
8DKM-20	DRB-19F	5375	3870	1505	1590	960	1885	365	1680	695	1000	80	600	1155	1300	553	1610	1190
ADVMC OF	DRA-25F	5295	3350	1945	1835	1180	2463	400	1970	830	1200	80	600	1040	1380	_	1952	1500
6DKMS-25	DRB-25H	5010	3350	1660	1835	1180	2463	400	1970	830	1200	200	630	1130	1200	600	1952	1300
6DKM-26	DRA-25F	5295	3350	1945	1835	1180	2110	400	1970	830	1200	80	600	1040	1380	_	1950	1500
ODKM-20	DRB-25H	5010	3350	1660	1835	1180	2110	400	1970	830	1200	200	630	1130	1200	600	1950	1300
DRA-	DRA-35H	5615	3675	1940	_	1220	2563	430	2065	850	1310	90	640	1435	1820	_	1872	1240
6DKMS-28	DRB-35H	5595	3675	1920		1220	2563	430	2065	850	1310	200	640	1186	1700	609	1872	1400
6DKM-28	DRA-35H	5615	3675	1940		1220	2563	430	2065	850	1310	90	640	1435	1820		1880	1240
ODKM-20	DRB-35H	5595	3675	1920		1220	2563	430	2065	850	1310	200	640	1186	1700	609	1880	1400
8DKM-28	DRA-50F	7075	4535	2540	_	1220	2719	430	2065	850	1310	100	750	1160	1650	_	1880	1500
8DKM-28	DRB-50F	6745	4535	2210	-	1220	2719	430	2065	850	1310	260	800	1335	1650	770	1880	1640
4 DVM 24	DRA-80F	7285	4465	2820	2090	1680	3270	605	2930	1200	1400	250	800	1362	1800	_	2060	1600
6DKM-36	DRB-80F	7075	4465	2610	2090	1680	3270	605	2930	1200	1400	250	830	1583	2300	927	2060	2000
0DVM 24	DRA-120F	8865	5595	3270	2090	1680	3270	605	2930	1200	1400	250	900	1590	2100	_	2060	2050
8DKM-36	DRB-120F	8665	5595	3070	2090	1680	3270	605	2930	1200	1400	300	1000	1760	2300	1002	2060	2300



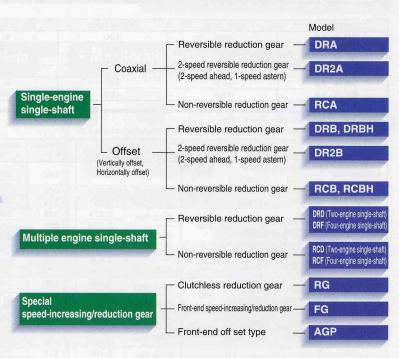
Daihatsu's Reduction Gears - One Supporting Element of Engine High Reliability

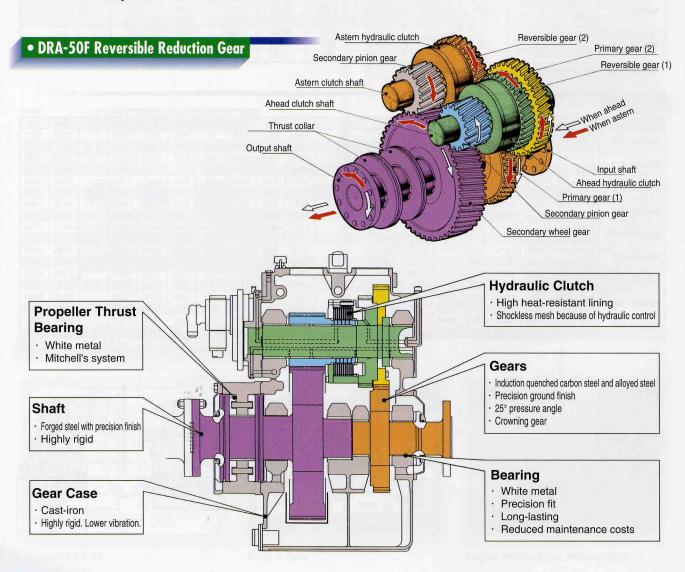
In addition to engines, Daihatsu Diesel also has a wide range of in-house developed reduction gears to match any type of vessel. We have built ourselves a good name and reputation as a gear manufacturer. Our reduction gears have a built-in main thrust bearing and wet hydraulic clutch, and can be incorporated in the CRASH ASTERN system. We also have a wide selection of speed-increasing and reduction gears for driving any type of machinery, which can be used on the engine front end block.

2-Speed Reduction Gears

Though low-speed and high thrust are necessary for port navigation, high-speed cruising performance is needed on the open seas. Our 2-speed reduction gear is ideal for the situation.

We developed the 2-speed system (2-step ahead, 2-step astern) to maximize efficiency in normal and low-speed sailing. Because the reduction gear is suited to all kinds of vessels, from freighters to fishing trawlers, captains all over have favorably evaluated it.





DKM SERIES

Example Application Using Daihatsu's Reduction Gear

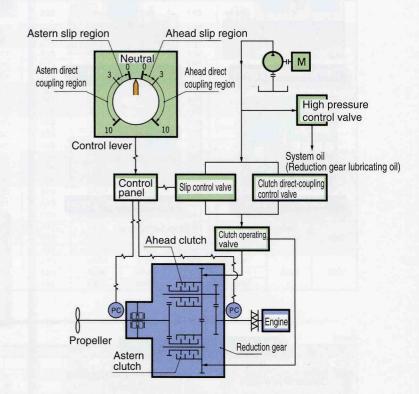
DICS (Daihatsu Slipping Clutch System)

Clutch fluid is electronically controlled to slip the clutch. As such, propeller revolutions below idling rpm are freely controlled.

Control Lever (Example) Astern Ahead Neutral Dead Dead Full Full slow 10 knots Engine Revs. Shift Shift Constant (Idling revs) Clutch direct Clutch direct coupling coupling Propeller Revs. -DS Approx. Slip Slip 0.9 DS Approx. 30 min-1

Features 1. Enables dead-slow sailing ahead/astern with a fixed pitch propeller (FPP).

- 2. Enables shockless, smooth clutch meshing.
- Propeller revolutions remain stable even under fluctuating engine revolution and propeller load.

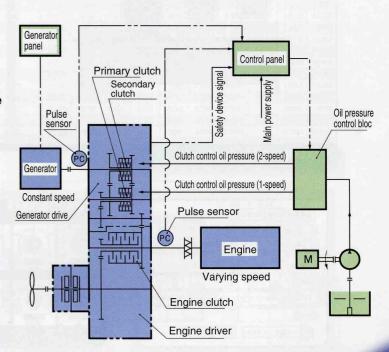


Constant-Speed Shaft Generator

A compact constant-speed shaft generator is built into the reduction gear. Clutch fluid is automatically controlled by an electronic governor. By slipping the clutch, generator revolutions can be kept constant even under fluctuating engine revolution.

Features

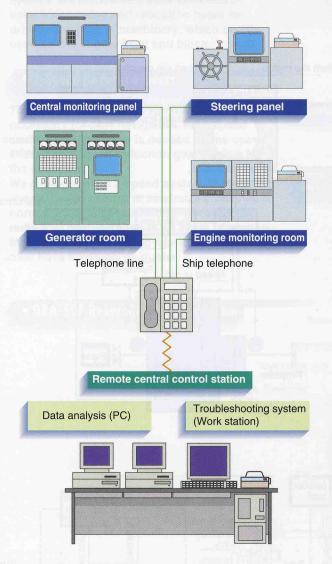
- An electronic governor keeps constant generator revolutions, thus ensuring a stable power supply.
- Because of the 2-speed slipping clutch, the generator can operate a wide engine revolution range from idling to rated rpm.
- Generator revolutions and droop can be adjusted easily during generator operation. Load switching to other generators and parallel operation can performed easily.



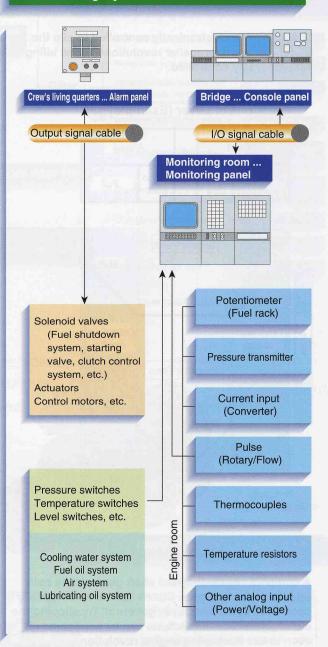
Monitoring Systems for Assured Safe Sailing

• Daihatsu's Maintenance Support System

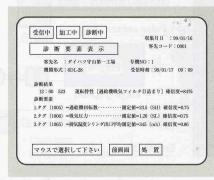
Reduces maintenance labor and helps prevent unexpected breakdowns. Ensures accurate maintenance data and swift service.

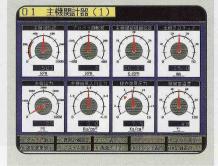


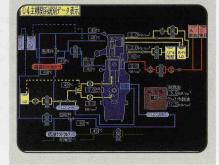
Monitoring System



Example CRT Displays







Diagnostic data

Engine data

Engine exhaust gas temperature

Daihatsu Diesel Equipment for Marine Applications

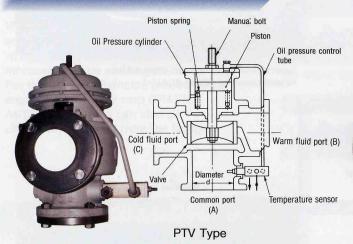
ENGINE SIDE WALL CRANKCASE OTHER SENSORS COMMUNICATION LINK CABLE CONTROLLER CONTROLLER

The Oil Mist Detector Monitors your engine to detect major engine failure.

This equipment is constituted by two or more sensor units which carry out insertion attachment for every cylinder of diesel engine more directly than the side wall of a crankcase, and the controller which carries out integrated control of them by the communication.

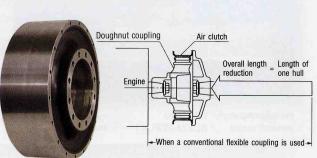
The natural diffusion system which need neither a suction mechanism, nor the mist detection of a sensor unit, and the ease of improvement and maintenance of miniaturization and reliability is realized. With a controller, it is always the oil mist concentration in a crankcase. Since an alarm is emitted and it indicates by the state when oil mist concentration increases by bearing overheating etc. beyond a setting value while supervising and displaying the mist level, the early detection and a forecast of the serious accident of a medium- or high-speed diesel engine are attained.

Automatic Temperature Control Valve



A temperature sensor featuring an ultra-small wax element detects the fluid temperature and uses an oil-pressure servo function with a trigonal main valve to control the fluid temperature automatically. This unit offers easy operation as well as excellent response and sensitivity.

Doughnut RD coupling



This new flexible coupling combines a conventional flexible coupling with an air clutch. This design greatly reduces engine room space requirements compared to conventional installation of independent components.

Proof of Success

Daihatsu's geared diesel engines are used in ships of all classes and types, including vessels for public offices, ferries, coastal vessels, working crafts, and fishing boats. Their outstanding performance has been highly acclaimed by all customers.

Vessels for public offices





Fisheries Agency / Taka Maru
Reserch vessel / 6DKM-20FL×1



Japan Marine Science & Technology Center / Mirai Reserch vessel / 6DKM-28F(L)×4



Japan Coast Guard / Kaiyo Reserch vessel / 6DLM-24S(L)×2



Japan Metrorological Agency / Ryoufu Maru Reserch vessel / 6DLM-4OAL×1



Hokkaido Government / Hokuo Maru Fishery Control Boat / 6DKM-28(L)×2



Reiyo Highschool / Kumamoto Maru Training ship / 6DKM-26F×1

rai an environment-irrando orane, lascer fori caasaruntian

Tokyo University / Hakuho Maru Reserch vessel / 6DSM-28N(L)×4



Tokyo Unversity of Mercantile Marine / Shioji Maru Training ship / 6DLM-26SL×1



Kobe Unversity of Mercantile Marine $\ /\$ Fukae Maru Training ship $\ /\$ 6DLM-26S×1



Yuge National College of Maritime Technology \slash Yuge Maru Training ship \slash 6DLM-24SL×1

Ferries



Kampu Ferry Co., Ltd. / Hamayu Ferry boat / 8DLM-40A(L)×2



Nankai Awaji Line Co., Ltd. / Ferry Senshu Ferry boat / 6DLM-4OA(L)×2



Nankai Ferry Co., Ltd. / Ferry Yoshino Ferry boat / 6DLM-40(L)×2

Our Record is in the Wake

Ferries are safe and comfortable for travel. Today, many are powered by Daihatsu's geared diesel engines. Daihatsu will continue to meet the high expectations of those who live at sea.

Ferries



Uwajima Unyu Co., Ltd. / Sakura Ferry boat / 6DLM-40A(L)×2



Oki Kisen K. K. / Ferry Shirahama Ferry boat / 6DLM-40A(L)×2



Kyusyu Yusen Co., Ltd. / Ferry Chikushi Ferry boat / 6DLM-40A(L)×2



Higashi Nihon Ferry Co., Ltd. \angle Eins Soya Ferry boat \angle 6DLM-28S(L)×2



Nomo Shosen K. K. / Taiko Ferry boat / 8DLM-32(L)×2



le village office, Okinawa / Gusuku Ferry boat / 6DLM-28S(L)×2



Kamiyaku town, Kagoshima / Ferry Taiyo Ferry boat / 6DKM-26(L)×2



Takehara Namikata Jidosha Kososen Kumiai / Aki Ferry boat / 6DKM-26×2



Kokudo Kyusi Ferry K. K. / New Hoyo # 2 Ferry boat / 6DLM-28S(L)×2



Isewan Ferry Co., Ltd. / Atsumi Maru Ferry boat / 6DLM-28S(L)×2





Boyo Kisen Kaisha, Ltd. / Orange Grace Ferry boat / 6DLM-26S(L) \times 2



Sanyo Kisen Co., Ltd. /Sanyo # 7 Ferry boat / 6DLM-26FS(L)×1



Kyusyu Shosen Co., Ltd. / Ferry Kumamoto Ferry boat / 6DLM-26S(L)×2





Matsuo Ferry Co., Ltd. / Daian # 8 Ferry boat / 6DKM-20F×1

Ferries



Uwajima Unyu Co., Ltd. / Akatsuki # 2 Ferry boat / 6DLM-40A(L)×2



Hapag Lloyd A. G. / Bremen
Passenger boat / 8DKM-32×2



Setonaikai Kisen Co., Ltd. / Furutaka Ferry boat / 8DKM-20FL×1



Miyako Ferry Co., Ltd. / Ferry Yuumutsu Ferry boat / 6DKM-20F \times 1

Coastal vessels



Kita Nippon Kaiun Co., Ltd. / Asakaze # 5 RORO / 6DLM-4OA(L) \times 2



Ube Shipping & Logistics, Ltd. / Seizan Maru Cement vessel / 6DLM-40AF×1



Kokoku Kaiun K. K. / Suzuka PCC / 8DLM-40×1



Akiyama Zosen / Sansha Maru # 45 Gravel Carrier / 6DLM-32×1



Kansai Tech Co., Ltd. / Hikari Maru # 15 Tanker / 8DKM-28F×1



Fuji Shipping Co., Ltd. / Fujifuku Maru Crane vessel / 6DKM-28L×1



Sanwa Shokai Co., Ltd. / Kayou Maru General Cargo / 6DKM-26L×1



Kinriki Kisen K.K. / Kinriki Maru General Cargo / 6DKM-26L×1



Kotobuki Kaiun Co., Ltd. / Kotobuki Maru # 3 Chemical Tanker / 6DLM-22FS×1

Working craft



Nippon Telegraph & Telephone Co. / Subaru Cable Laying ship / 8DK-32×4



Nitto Tugboat Co., Ltd. / Hoki Maru Tug boat / 6DKM-26(L)×2



Fukada Salvage & Marine Works Co., Ltd. $\,$ / Naruto Maru Tug boat $\,$ / 6DLM-28FS×2



Daikai Marine Co. / Daiki Maru Pusher boat / 6DKM-26(L)×2

Working craft



Zamil Operations & Maintenance Co., Ltd. / Zamil # 5 Supply vessel / 6DKM-26(L)×2



Shanghai Maritime Rescue and Salvage Bureau Ministry of Communication / Hua Cai Ocean Salvage Tug boat / 8DKM-28(L)×2





Nakamura Shoji / Hokuyo Maru # 5 Pusher boat / 6DKM-28F(L)×2



Yatsushiro Shokai / Tensho Maru # 8 Pusher boat / 6DKM-26(L)×2



K.K. Taiyo / Fuji Pusher boat / 6DLM-24S(L)×2



Yorigami Maritime Construction Co., Ltd. / Shinsei Maru # 8 Pusher boat / 6DLM-22S(L)×2



Tsukiboshi Kaiun Co., Ltd. & Shinbishi Kaiun K. K. \nearrow Shinbishi Pusher boat \nearrow DY-28EN×2

Fishing boats



Yoshikazu Ishikura / Sanko Maru Skipjack Pole & Line Fishing boat / 6DKM-28L×1



Norihiro Takemura / Sensho Maru # 1 Skipjack Pole & Line Fishing boat / 6DKM-26L×1



Myojin Fishery / Sagamyojin Maru # 83 Skipjack Pole & Line Fishing boat / 6DKM-28L×1



K.K. Taishu / Ikitsuki Fishery Control Boat / 8DKM-28L \times 1



Kanei Bussan Co. / Genpuku Maru # 81 Purse Seiners / 6DKM-32×1



Ohama Fishery / Teno Maru # 7
Purse Seiners / 8DLM-32×1



Kanei Bussan Co. / Wakaba Maru # 6
Purse Seiners / 8DLM-32×1



Marukawa Fishery / Daikichi Maru # 58 Carrier boat / 6DKM-32L×1



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• Please refer to the separate brochure for "DAIHATSU AFTER-SERVICE NETWORK".

 All information contained in this Pamphlet is corrected at the time of printing, but will be subject to change without notice.