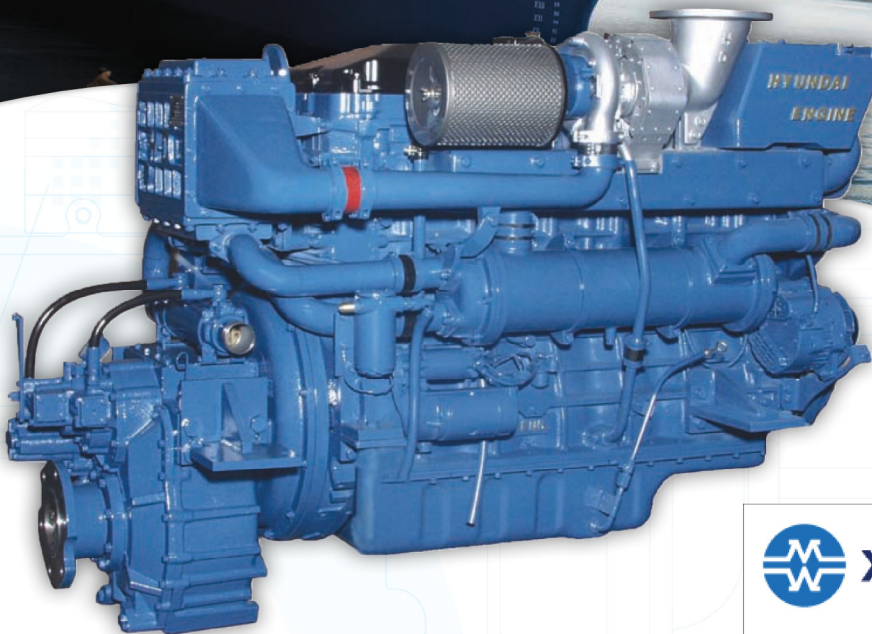


HYUNDAI DIESEL ENGINE



YOUR CONNECTION
TO THE RIGHT MACHINE

XIN MING HUA PTE LTD
XMH ENGINEERING PTE LTD

No. 44 Sungei Kadut Avenue
Singapore 729667

Tel : (65) 6368 0188

Fax : (65) 6368 0633

Email : sales@engine.com.sg

Website : www.xmh.com.sg



HYUNDAI MACHINERY

Hyundai plays the title role of the engine industry which their field experience focused on the production of reliable, convenient, and environmentally compatible operating systems with easy maintenance.

COMPANY INTRODUCTION

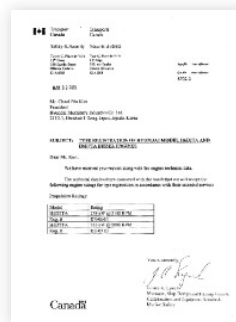
was established for a Manufacturer of marine diesel engines to provide the best reliability, power & performance with care for the environment & welcome economy in order to cope with the ever-changing Market demand for high quality.

We, as a supplier of diesel engines, are now well positioned to meet the requirements of all users.

For all your needs for marine diesel engines and gen-sets for land & marine application, please look to HYUNDAI machinery and discover the advantages of diesel engines offer.

We are trying to be a world-class manufacturer for marine & industrial diesel engines.

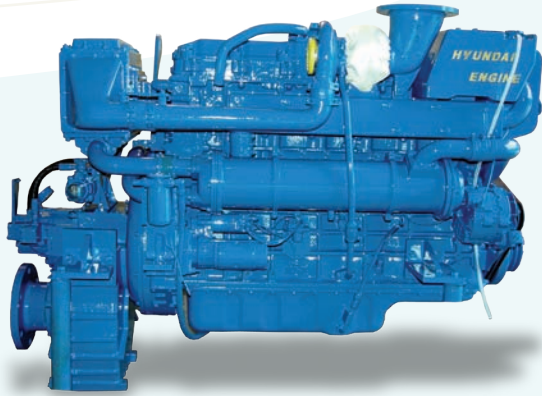
So far, we have been exporting our engines to whole over the world.



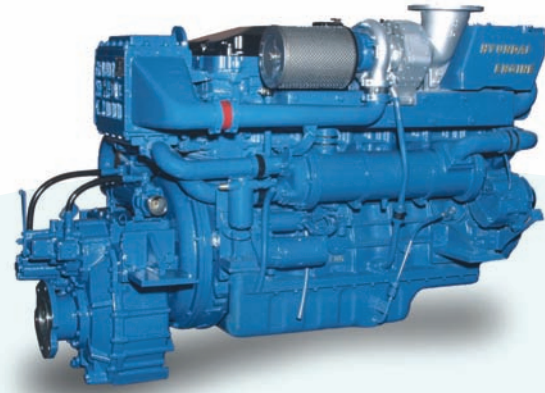


- Acquired ISO 9001 quality certification system (From KMAQA)
- Acquired GQ mark (From Korean Government)
- Acquired ISO 14001 certification for environmental issues
- Registered supplier to the government projects
- Approved by Korea Institute of Ship Safety & Technology
- Designated as a promising company from Korea Credit Guarantee Fund
- Awarded official commendation from the Ministry of Commerce, Industry and Energy
- Awarded official commendation from the Ministry of Maritime Affairs & Fisheries
- Designated as a promising company from The Export-Import Bank of Korea
- Selected as a successful business man from Government
- Selected as a enterprise technical reform development business
- Awarded an official commendation in Korea Technical innovation review forum
- Awarded a citation for 3 million dollars export record by president
- Passed for the Endurance Test of JG (From Japan Government) and Acquired Drawing approval
- Awarded official commendation from the Ministry of Commerce, Industry and Energy (Fifth in-notech show SEOUL, 2004)
- Received a plague of appreciation from Governor of Jeju, (In the 3rd World Korean Business Convention)
- Awarded an official commendation from Jeju Citizen's Coalition for Economic Justice
- Awarded Jeju small and midium business prize (By administrator of Small Business Administration)
- Awarded official commendation from the Prime Minister
- Awarded small and medium business prize (In the field of export increasing)
- Awarded Inno-Biz Company from Government
- Designated Venture Company from Government
- Designated as KOTRA SEAL OF EXCELLENCE from Government

HYUNDAI MARINE DIESEL ENGINE H6D7 Series



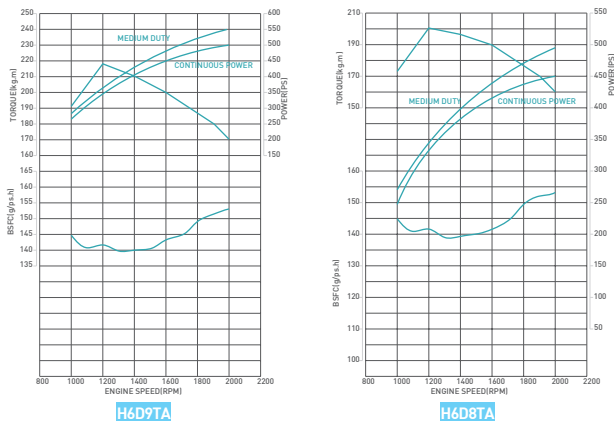
H6D9TA 500PS × 2000RPM
550PS × 2100RPM



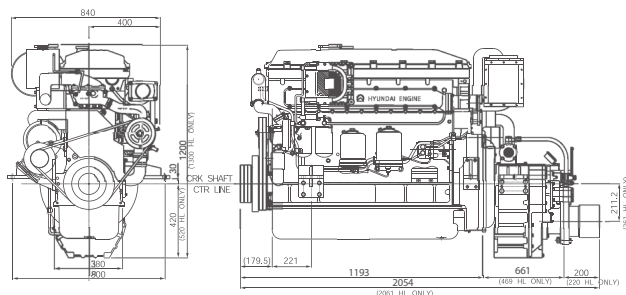
H6D8TA 450PS × 2000RPM
490PS × 2100RPM

- **High Economical**
EUI system을 적용하여 완전연소 실현, 고출력 · 최저연비 실현
- **High Technology**
최첨단 신기술의 결정체
- **Pollution Free**
NOx등 공해물질은 IMO 및 국내 · 외 환경규정을 만족시키는 친환경 무공해 엔진
- **Compact Design**
인젝션 펌프가 없는 심플한 구조의 엔진
- **High Performance**
전자제어 채택으로 최상의 상태에서 완전연소로 최강의 출력
- **Best Operation**
자기진단 시스템 채택으로 최고의 안전운전 실현

Performance Curve / Courbe Des Caracteristiques



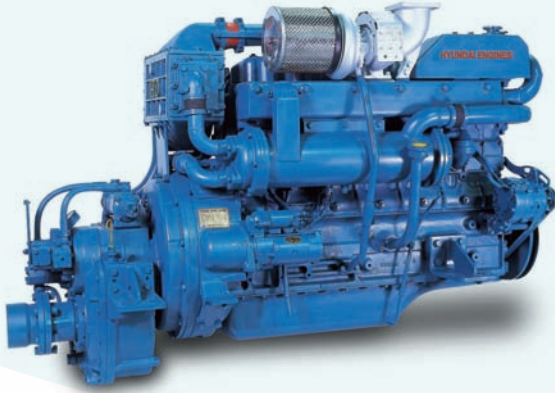
Dimensions / 엔진치수(mm)



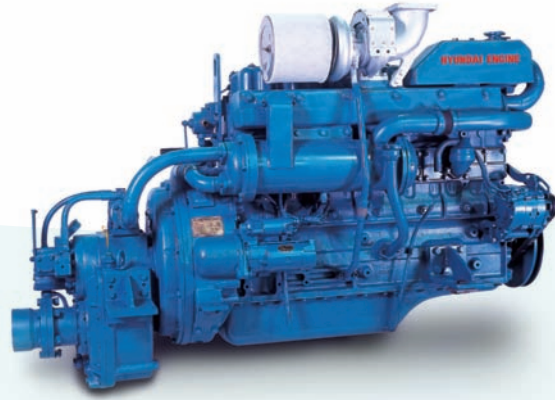
Specification / 엔진사양

SPEC / 사양	MODEL / 기종	H6D8TA	H6D9TA
ENGINE TYPE / 엔진형식	4CYCLE, INLINE, FRESHWATER COOLED DIESEL ENGINE 4행정 직렬, 청수냉각 디젤엔진		
CONTINUOUS POWER (PS × RPM) 연속출력 × 회전수		450 × 2000	500 × 2000
MEDIUM DUTY (PS × RPM)		490 × 2100	550 × 2100
NUMBER OF CYLINDER / 실린더 수		6	
BORE × STROKE (mm) 실린더 내경 × 행정		130 × 155 mm	
TOTAL DISPLACEMENT (cc) / 배기량		12,344 cc	
ASPIRATION / 흡기 방식		T/C with I/C	
FUEL INJECTION TYPE / 연료분사 방식		DELPHI EUI (ELECTRONIC UNIT INJECTION)	
COMPRESSION RATIO / 압축비		17.2 : 1	
FUEL OIL / 연료유		DIESEL LIGHT OIL / 경유	
LUBRICATING OIL / 윤활유		API CLASSIFICATION "CI-4", SAE 10W40	
COOLING SYSTEM / 냉각 방식		HEAT EXCHANGER TYPE FORCED CIRCULATING CENTRIFUGAL PUMP 원심펌프로 청수 강제순환 냉각	
LUBRICATING SYSTEM / 윤활 방식		FORCED FEED WITH OIL PUMP	
STARTING SYSTEM / 시동 방식		DC 24VOLT ELECTRIC MOTOR / 직류 24V 전기시동	
FUEL CONSUMPTION (g/ps.h) 연료소모율		150	152
ROTATING DIRECTION / 회전 방향		CLOCK WISE VIEWED FROM BOW / 선수에서 보아 시계 방향	
STANDARD REDUCTION GEAR RATIO 표준 감속비		1.83, 2.09, 2.51, 3.08, 3.43, 4.04, 4.48	
DRY WEIGHT WITH GEAR BOX (kg) 엔진 무게(감속기 포함)		1,565kg	

HYUNDAI MARINE DIESEL ENGINE H6D2 Series



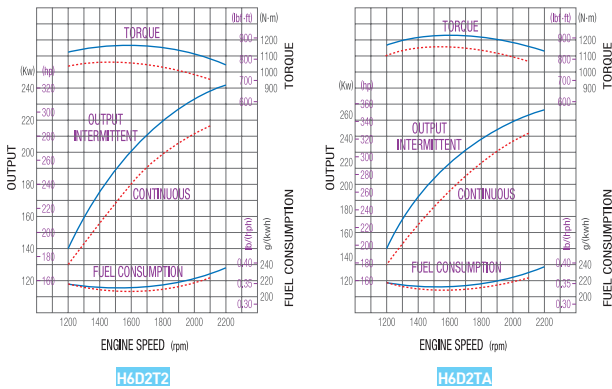
H6D2TA 325PS×2100RPM
360PS×2200RPM



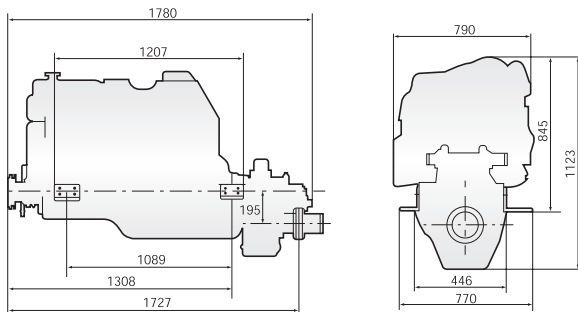
H6D2T2 283PS×2000RPM
320PS×2100RPM

- High Quality
최고의 품질
- High Reliability
최고의 봉사료 최상의 신뢰감
- High Performance
최대, 최강의 출력
- Low Fuel Consumption
적은 연료 소비량
- High Technology
최고의 기술력
- Easy and Economical Maintenance
경제적이고 쉬운 정비

Performance Curve / Courbe Des Caracteristiques



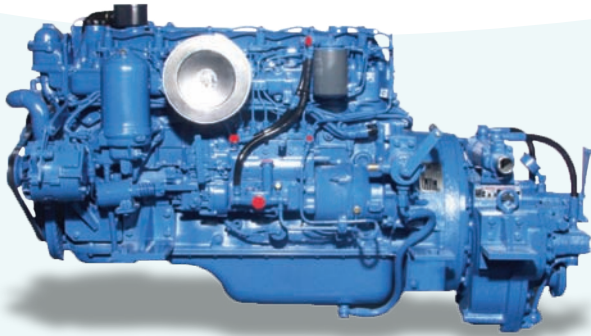
Dimensions / 엔진치수(mm)



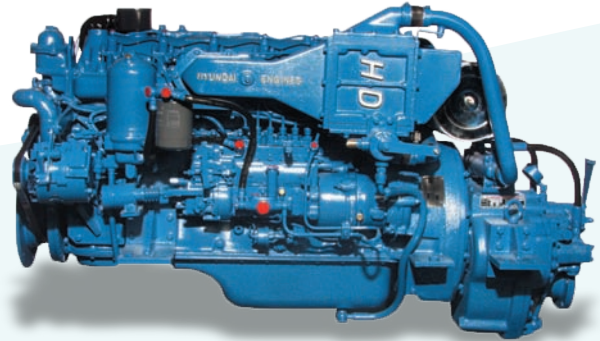
Specification / 엔진사양

SPEC / 사양	MODEL / 기종	H6D2T2	H6D2TA
ENGINE TYPE / 엔진형식	4CYCLE, INLINE, FRESHWATER COOLED DIESEL ENGINE 4행정 직렬, 청수냉각 디젤엔진		
CONTINUOUS POWER (PS×RPM) 연속출력×회전수		283×2,000	325×2,100
MEDIUM DUTY (PS×RPM)		320×2,100	360×2,200
NUMBER OF CYLINDER / 실린더 수		6	
BORE×STROKE (mm) / 실린더 내경×행정		130×140mm	
TOTAL DISPLACEMENT (cc) / 배기량		11,149cc	
ASPIRATION / 흡기 방식		TC / 터보차저 강제급기	TCI / 터보차저 인터쿨러
COMBUSTION TYPE / 연소 방식		DIRECT INJECTION / 직접 분사식	
COMPRESSION RATIO / 압축비		16	15.5
FIRING ORDER / 폭발순서		1-5-3-6-2-4	
VALVE CLEARANCE (mm) 밸브 타페트 간극		INTAKE 0.4 EXHAUST 0.6	
FUEL OIL / 연료유		DIESEL LIGHT OIL / 경유	
LUBRICATING OIL / 윤활유		API CD CLASS / 미국 자동차 규격 CD급	
COOLING SYSTEM / 냉각 방식		HEAT EXCHANGER TYPE FORCED CIRCULATING CENTRIFUGAL PUMP 원심펌프로 청수 강제순환 냉각	
STARTING SYSTEM / 시동 방식		DC 24VOLT ELECTRIC MOTOR / 직류 24V 전기시동	
FUEL INJECTION PUMP AND GOVERNOR 연료 펌프, 가버너		BOSCH TYPE WITH ALL SPEED CONTROL / 보쉬형 전속도 제어	
ROTATING DIRECTION 회전 방향	ENGINE / 엔진	CLOCK WISE VIEWED FROM BOW / 선수에서 보아 시계 방향	
	PROPELLER 스크류	CLOCK WISE VIEWED FROM STERN / 선미에서 보아 시계 방향	
STANDARD REDUCTION GEAR RATIO 표준 감속비		1.97, 2.23, 2.54, 2.76, 3.04, 3.41	
DRY WEIGHT WITH GEAR BOX (kg) 엔진 무게(감속기 포함)		1,180	1,218

HYUNDAI MARINE DIESEL ENGINE H6D1 Series

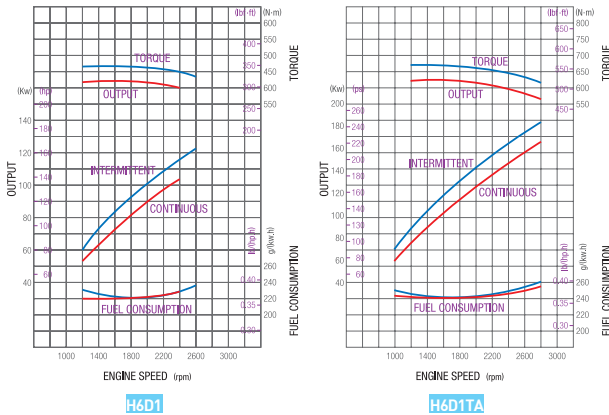


H6D1 134PS×2200RPM
160PS×2500RPM



H6D1TA 210PS×2300RPM
230PS×2500RPM

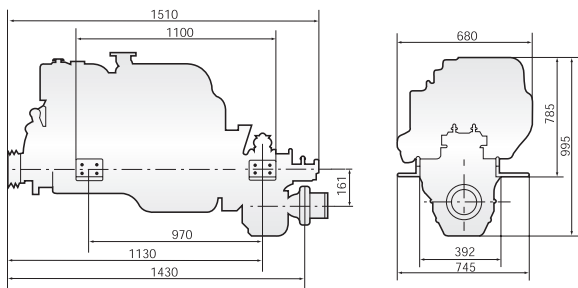
Performance Curve / Courbe Des Caracteristiques



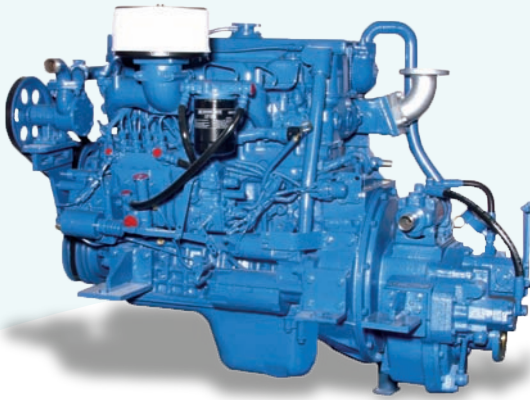
Specification / 엔진사양

SPEC / 사양	MODEL / 기종	H6D1	H6D1T	H6D1TA
ENGINE TYPE / 엔진형식		4CYCLE, INLINE, FRESHWATER COOLED DIESEL ENGINE 4행정 직렬, 청수냉각 디젤엔진		
CONTINUOUS POWER (PS×RPM) 연속출력×회전수		134×2,200	180×2,300	210×2,300
MEDIUM DUTY (PS×RPM)		160×2,500	200×2,500	230×2,500
NUMBER OF CYLINDER / 실린더 수		6		
BORE×STROKE (mm) / 실린더 내경×행정		118×115mm		
TOTAL DISPLACEMENT (cc) / 배기량		7,545cc		
ASPIRATION / 흡기 방식		NA / 자연흡입	TC / 터보차저 강제급기	TC / 터보차저 인터쿨러
COMBUSTION TYPE / 연소 방식		DIRECT INJECTION / 직접 분사식		
COMPRESSION RATIO / 압축비		17.5	16	15.5
FIRING ORDER / 폭발순서		1-5-3-6-2-4		
VALVE CLEARANCE (mm) 밸브 틈새 간격		INTAKE 0.4 EXHAUST 0.4		
FUEL OIL / 연료유		DIESEL LIGHT OIL / 경유		
LUBRICATING OIL / 윤활유		API CD CLASS / 미국 자동차 규격 CD급		
COOLING SYSTEM / 냉각 방식		HEAT EXCHANGER TYPE FORCED CIRCULATING CENTRIFUGAL PUMP 원심펌프로 청수 강제순환 냉각		
STARTING SYSTEM / 시동 방식		DC 24VOLT ELECTRIC MOTOR / 직류 24V 전기시동		
FUEL INJECTION PUMP AND GOVERNOR 연료 펌프, 가버너		BOSCH TYPE WITH ALL SPEED CONTROL / 보쉬형 전속도 제어		
ROTATING DIRECTION 회전 방향	ENGINE / 엔진	CLOCK WISE VIEWED FROM BOW / 선수에서 보아 시계 방향		
	PROPELLER 스크류	CLOCK WISE VIEWED FROM STERN / 선미에서 보아 시계 방향		
STANDARD REDUCTION GEAR RATIO 표준 감속비		1.61 2.06 2.45 2.82 3.12 3.46		
DRY WEIGHT WITH GEAR BOX (kg) 엔진 무게(감속기 포함)		805	830	852

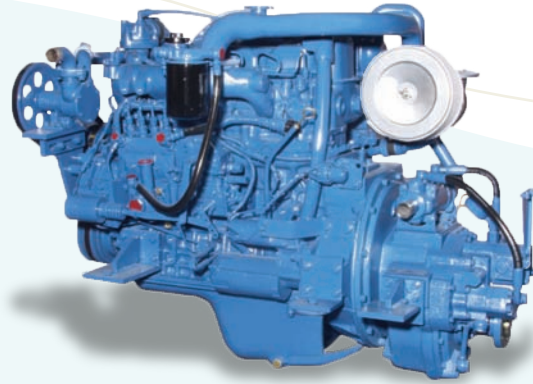
Dimensions / 엔진치수(mm)



HYUNDAI MARINE DIESEL ENGINE H4D Series

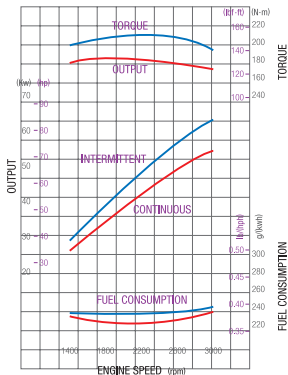


H4D 68PS × 2700RPM
80PS × 2800RPM

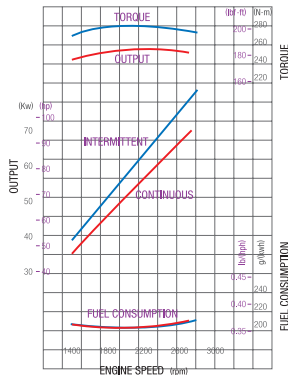


H4DT 94PS × 2700RPM
110PS × 2800RPM

Performance Curve / Courbe Des Caracteristiques

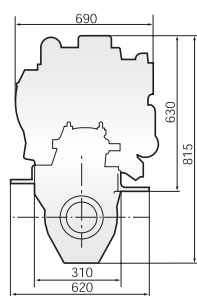
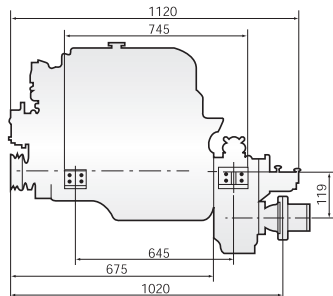


H4D



H4DT

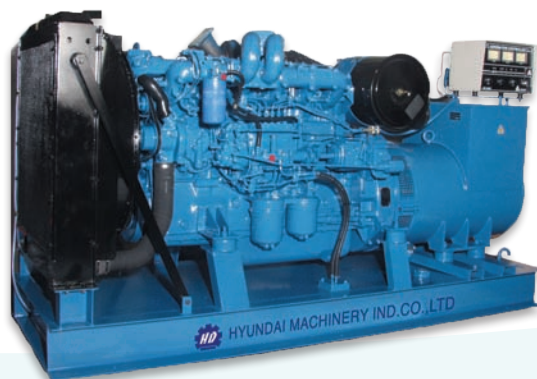
Dimensions / 엔진치수(mm)



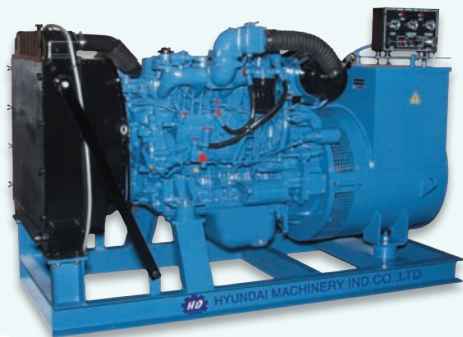
Specification / 엔진사양

SPEC / 사양	MODEL / 기종	H4D	H4DT
ENGINE TYPE / 엔진형식	4CYCLE, INLINE, FRESHWATER COOLED DIESEL ENGINE 4행정 직렬, 청수냉각 디젤엔진		
CONTINUOUS POWER (PS × RPM) 연속출력 × 회전수		68 × 2,700	94 × 2,700
MEDIUM DUTY (PS × RPM)		89 × 2,800	110 × 2,800
NUMBER OF CYLINDER / 실린더 수		4	
BORE × STROKE (mm) / 실린더 내경 × 행정		100 × 105mm	
TOTAL DISPLACEMENT (cc) / 배기량		3,298cc	
ASPIRATION / 흡기 방식		NA / 자연흡입	TC / 터보차저 강제급기
COMBUSTION TYPE / 연소 방식		DIRECT INJECTION / 직접 분사식	
COMPRESSION RATIO / 압축비		17.5	16
FIRING ORDER / 폭발순서		1-3-4-2	
VALVE CLEARANCE (mm) 밸브 틸렛 간격		INTAKE 0.4 EXHAUST 0.4	
FUEL OIL / 연료유		DIESEL LIGHT OIL / 경유	
LUBRICATING OIL / 윤활유		API CD CLASS / 미국 자동차 규격 CD급	
COOLING SYSTEM / 냉각 방식		HEAT EXCHANGER TYPE FORCED CIRCULATING CENTRIFUGAL PUMP 원심펌프로 청수 강제순환 냉각	
STARTING SYSTEM / 시동 방식		DC 24VOLT ELECTRIC MOTOR / 직류 24V 전기시동	
FUEL INJECTION PUMP AND GOVERNOR 연료 펌프, 가버너		BOSCH TYPE WITH ALL SPEED CONTROL / 보쉬형 전속도 제어	
ROTATING DIRECTION 회전 방향	ENGINE / 엔진	CLOCK WISE VIEWED FROM BOW / 선수에서 보아 시계 방향	
	PROPELLER 스크류	CLOCK WISE VIEWED FROM STERN / 선미에서 보아 시계 방향	
STANDARD REDUCTION GEAR RATIO 표준 감속비		1.64 2.07 2.52 2.96 3.32	
DRY WEIGHT WITH GEAR BOX (kg) 엔진 무게(감속기 포함)		430	445

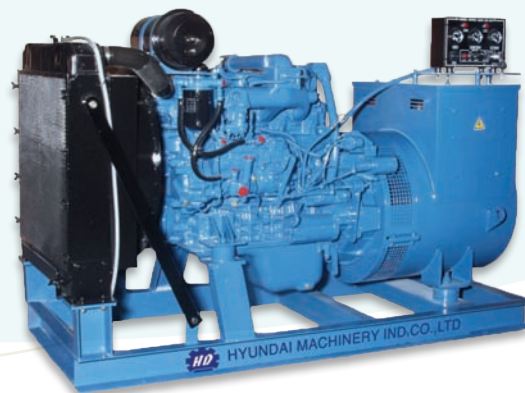
HYUNDAI LAND DIESEL GENERATOR



G6D2T 184KW × 1800RPM



G4BB 21KW × 1800RPM

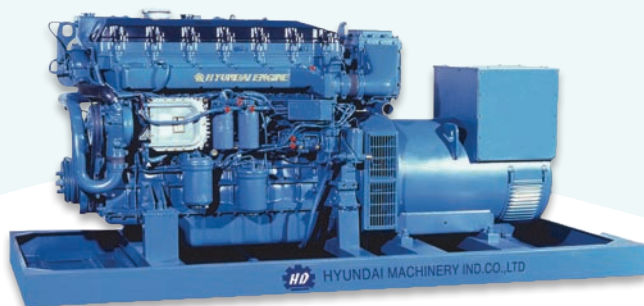


G4DT 60KW × 1800RPM

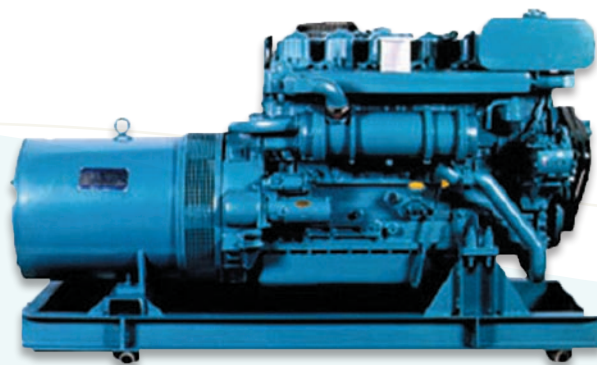
Total Specification

ENGINE	ENGINE MODEL		G4BB		G4D		G4DT		G6D1		G6D1T		G6D2T2		G6D2T1		G6D2TA		G6D8TA	G6D9TA	
	STAND-BY POWER	RPM	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1800	1800	
		PS	23	28	50	60	60	82	110	130	155	180	230	250	270	309	320	350	460	540	
	PRIME POWER	RPM	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1800	1800	
		PS	21	25	45	54	54	74	99	117	140	162	207	225	243	278	288	315	410	470	
	NO.OF CYL		4		4		4		6		6		6		6		6		6	6	
	BORE×STROKE	mm	91,1×100		104×105		100×105		118×115		118×115		130×140		130×140		130×140		130×155	130×155	
	DISPLACEMENT	cc	2,607		3,568		3,298		7,545		7,545		11,149		11,149		11,149		12,344	12,344	
	COMPRESSION RATIO		22 : 1		17,5 : 1		16 : 1		17,5 : 1		16 : 1		16,5 : 1		16,5 : 1		16,5 : 1		17,2 : 1	17,2 : 1	
	ASPIRATION		N,A		N,A		TC		N,A		TC		TC		TC		TCI		TCI	TCI	
	FLYWHEEL	SAE	#10		#10		#10		#11,5		#11,5		#14		#14		#14		#14	#14	
	FLYWHEEL HS* G	SAE	#4		#4		#4		#3		#3		#1		#1		#1		#1	#1	
	FAN DIA. (PUSH TYPE)	mm	440		508				590				711,2								
	ROTATION		COUNTER CLOCKWISE VIEWED FROM FLYWHEEL																		
GENERATOR	GENERATOR MODEL		HSG-20		HSG-40		HSG-55		HSG-80		HSG-100		HSG-175		HSG-210		HSG-320		HSG-350		HSG-400
	STAND-BY POWER (KW)	50Hz	17		37		44		81		114		169		199		235				
		60Hz	21		44		60		96		132		184		227		257		338		397
	PRIME POWER (KW)	50Hz	15		33		40		73		103		152		179		219				
		60Hz	18		40		54		86		119		165		204		232		302		346
	VOLTAGE / PHASE / POLE		225VAC, 380VAC, 445VAC / 3ø 4W																		
	INSULATING		"H" CLASS																		
	EXCITING		SELF EXCITING BRUSHLESS																		
	BEARING / VENTILATING		SINGLE BEARING / SELF VENTILATING																		
	DIMENSION (mm)	L	1,700		1,800		1,800		2,400		2,400		2,600		2,650		2,750		2,800		2,800
W		650		700		700		800		800		900		900		1,000		1,000		1,000	
H		1,200		1,300		1,300		1,400		1,400		1,550		1,600		1,700		1,750		1,750	
WEIGHT (kg)		700		980		1,050		1,300		1,350		1,700		1,850		2,150		2,200		2,200	

HYUNDAI MARINE DIESEL GENERATOR



GM6CA 324KW × 1800RPM



GM6AZ 165KW × 1800RPM

• HYUNDAI GENERATOR

We do our best for your satisfaction through the high technology with superior power, low emission and noise, and low fuel consumption.

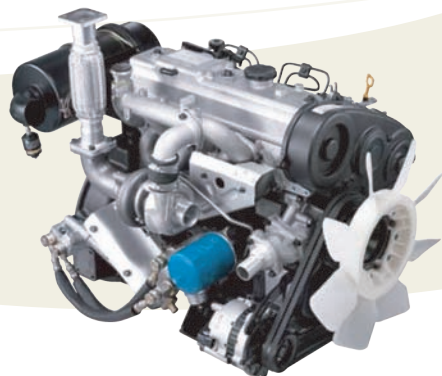
Total Specification

ENGINE	ENGINE MODEL		GM4BB		GM4AF		GM4AK		GM6BR		GM6BT		GM6AZ2		GM6AZ1		GM6AC		GM6CC2	GM6CC1	
	PRIME POWER	RPM	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1800	1800	
		PS	21	25	45	54	54	74	99	117	140	162	207	225	243	278	288	315	410	470	
	NO.OF CYL		4		4		4		6		6		6		6		6		6	6	
	BORE×STROKE	mm	91,1×100		104×105		100×105		118×115		118×115		130×140		130×140		130×140		130×155	130×155	
	DISPLACEMENT	cc	2,607		3,568		3,298		7,545		7,545		11,149		11,149		11,149		12,344	12,344	
	COMPRESSION RATIO		22：1		17,5：1		16：1		17,5：1		16：1		16,5：1		16,5：1		16,5：1		17,2：1	17,2：1	
	ASPIRATION		N.A		N.A		TC		N.A		TC		TC		TC		TCI		TCI	TCI	
	GOVERNOR		BOSCH RSV TYPE (OR ELECTRIC)																	E.C.U	
	FLYWHEEL	SAE	#10		#10		#10		#11,5		#11,5		#14		#14		#14		#14	#14	
FLYWHEEL HOUSING	SAE	#4		#4		#4		#3		#3		#1		#1		#1		#1	#1		
COOLING SYSTEM		HEAT EXCHANGER TYPE FORCED CIRCULATING CENTURIFUGAL PUMP																			
STARTING SYSTEM		DC 12V		DC 24 VOLTAGE / ELECTRIC STARTING BY START MOTOR																	

GENERATOR	GENERATOR MODEL		HSG-20	HSG-40	HSG-55	HSG-80	HSG-100	HSG-175	HSG-210	HSG-275	HSG-350	HSG-400
	PRIME POWER (KW)	50Hz	15	33	40	73	103	152	219	294		
		60Hz	18	40	54	86	119	165	232	324	302	346
	VOLTAGE		225VAC, 380VAC, 445VAC									
	PHASE / POLE		3ø 4W									
	INSULATING CLASS		“H” CLASS									
	EXCITING		SELF EXCITING BRUSHLESS									
	BEARING / VENTILATING		SINGLE BEARING / SELF VENTILATING									
DIMENSION (mm)		L	1,450	1,600	1,600	2,070	2,070	2,460	2,500	2,600	2,650	2,650
		W	635	670	670	740	740	870	870	990	1,000	1,000
		H	600	700	750	700	900	1,100	1,100	1,220	1,250	1,250
WEIGHT (kg)			400	640	650	960	1,020	1,450	1,550	1,890	1,950	1,950

INDUSTRIAL DIESEL ENGINE

HIGH PERFORMANCE

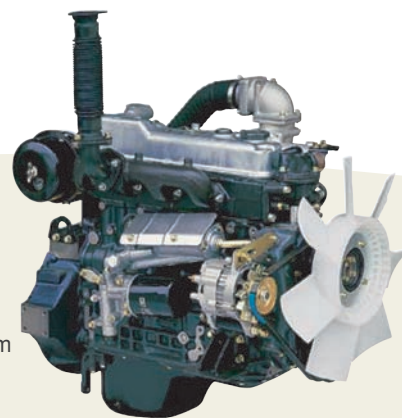


D4BB-G5

- 60ps / 1,800rpm
- 28kg · m/1,800rpm
- 2,607 cc

D4AF-G

- 60ps / 1,800rpm
- 33kg · m/1,500rpm
- 3,568 cc

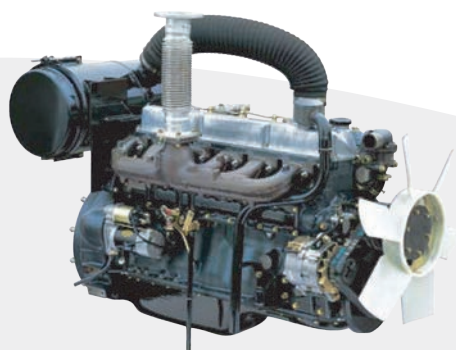


D4AK-G

- 82ps / 1,800rpm
- 40kg · m/1,500rpm
- 3,298 cc

D4DA-G

- 107ps / 1,800rpm
- 55kg · m/1,500rpm
- 3,907 cc

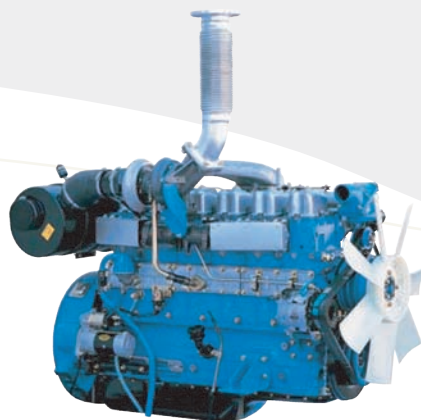


D6BR-G

- 130ps / 1,800rpm
- 73kg · m/1,500rpm
- 7,545 cc

D6BT-G

- 180ps / 1,800rpm
- 103kg · m/1,500rpm
- 7,545 cc

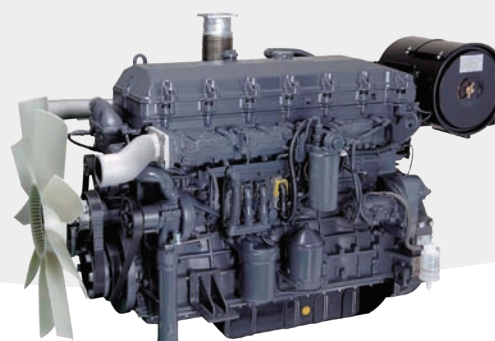


D6AZ-G1

- 309ps / 1,800rpm
- 179kg · m/1,500rpm
- 11,149 cc

D6CC-G1,G2

- 530ps / 1,800rpm
- 460ps / 1,800rpm
- 390ps / 1,800rpm
- 338ps / 1,800rpm
- 12,344 cc





D4BB-P1

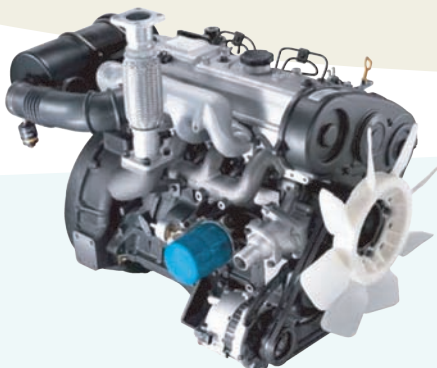
- 40ps / 2,000rpm
- 15kg · m/1,500rpm
- 2,607 cc

LOW FUEL CONSUMPTION



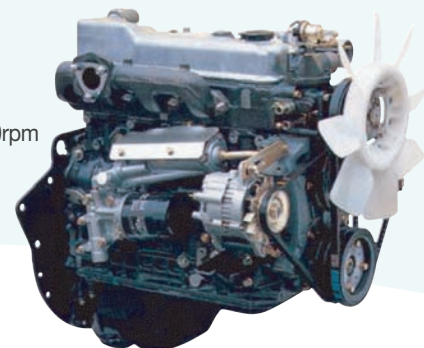
D4BB-C8

- 64ps / 2,500rpm
- 19.9kg · m/2,000rpm
- 2,607 cc



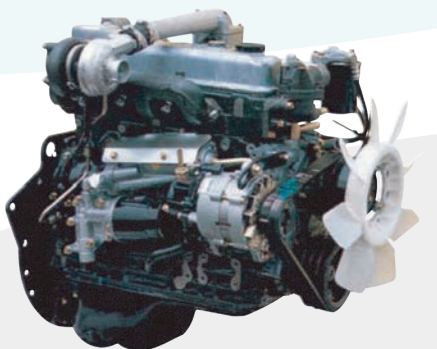
D4BB-C1

- 57ps / 2,500rpm
- 17.6kg · m/1,500rpm
- 2,607 cc



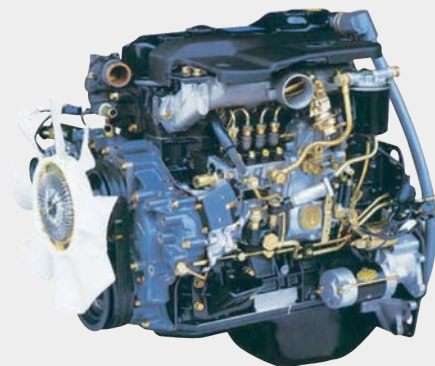
D4AF

- 63ps / 2,400rpm
- 21.0kg · m/1,800rpm
- 3,568 cc



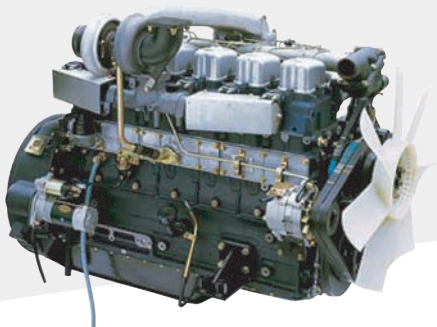
D4AK

- 85ps / 2,400rpm
- 27.5kg · m/1,800rpm
- 3,298 cc



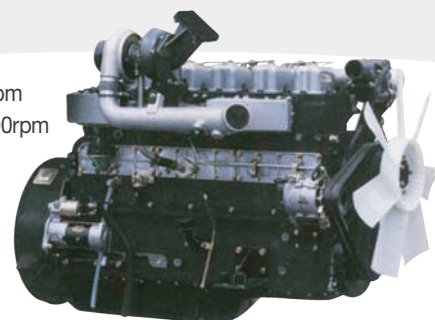
D4DA

- 98ps / 2,300rpm
- 33kg · m/1,700rpm
- 3,907 cc



D6AZ

- 260ps / 2,000rpm
- 112.5kg · m/1,400rpm
- 11,149 cc



D6AC

- 310ps / 2,100rpm
- 132kg · m/1,400rpm
- 11,149 cc