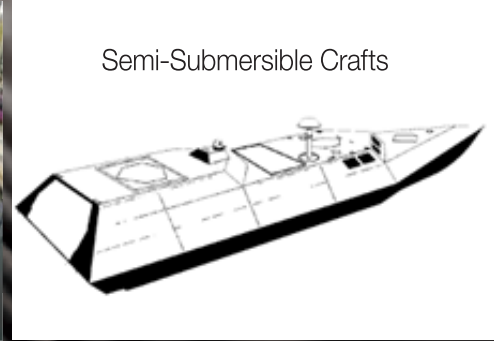


# Special Vessels for Military & Coast Guards



- The best experience on military vessel building and marine engine technology with over 30 years of naval operational experience.
- Development and Production with top experts over a consortium.

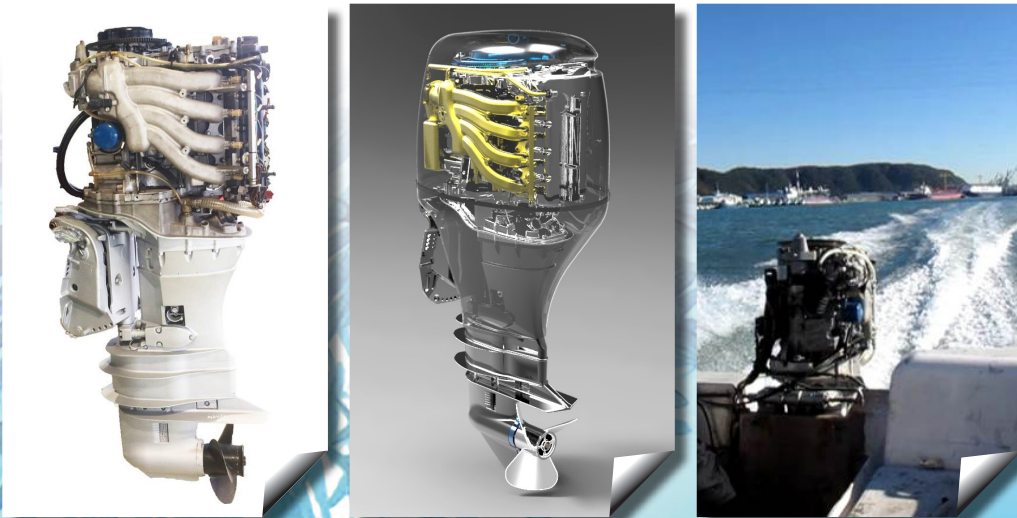


Semi-Submersible Crafts

*Best Operational, Safety, Maintainable military vessel  
& continuous technical supports.*

# Outboard Engine & New Concept Multi-Purpose Marine Propulsion System

Outboard Engine



New Stern Drive

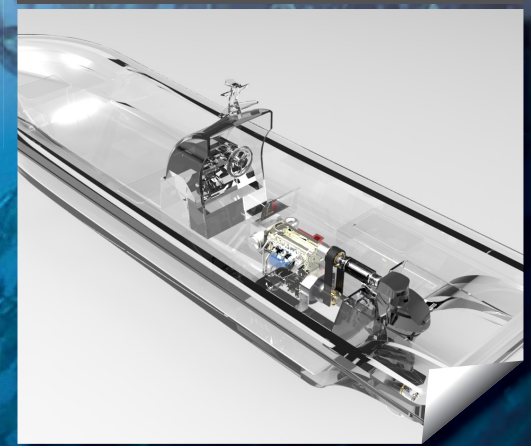


Outboard Engine  
& New Stern Drive  
will go on sale  
in 2018

Gasoline 130 PS



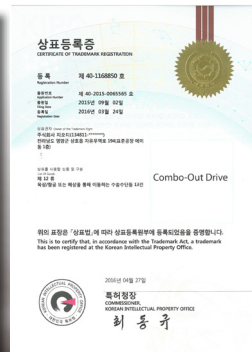
Diesel 60~300 PS



A 194 Jayumuyeok-Ro, Samho-eup Yeongam-gun, Jeollanam-do, Korea 58453

Tel : +82-61-462-2166 Fax : +82-61-462-2177 Email : master@got4.co.kr

# Company Introduction



Certification of Patent & Trademark Registrations



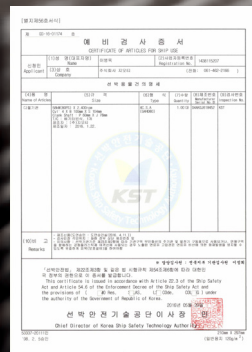
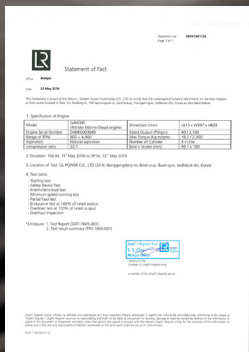
Lloyd's & BKI TEST



KR & KST TEST



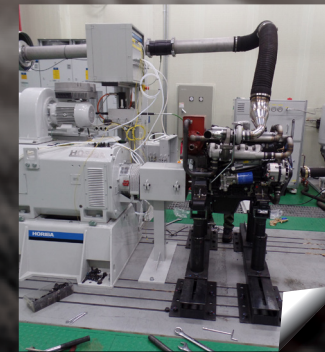
Lloyd's & KR TEST



BKI / Loyd / KST Certifications



ISO-9001



KR Engine TEST



BKI Engine TEST

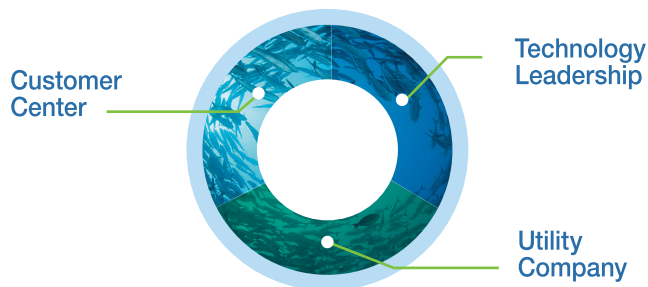
*Advanced design, Ideal function and price, Reliable service support*

# Company Introduction

## Field of Business

**Marine Diesel Engine & Generator  
Propulsion System  
Special Vessels For Military**

## Corporate Philosophy



A 194 Jayumyeok-Ro, Samho-eup Yeongam-gun, Jeollanam-do, Korea 58453

Tel : +82-61-462-2166 Fax : +82-61-462-2177 Email : master@got4.co.kr

# Marine Diesel Engine

ENGINE MODEL	G4HD40	G4HD60	G4HD80	G4HD120	G4HD140	G6HD320	G6HD530
Number of Cylinders	4 in - line				6 in - line		
Bore X Stroke (mm)	91.1x100	91.1x100	100x105	104x115	104x115	130x140	130x160
Displacement (lit.)	2.607	2.607	3.298	3.907	3.907	11.149	12.742
Rated Output (kW(hp)/rpm)	29(40)/2100	44(59)/2500	59(79)/2400	88(118)/2400	103(138)/2800	235(315)/2100	382(513)/2000
Max Torque (kg.m/rpm)	16.2/2000	20/2000	26/1800	40/1800	38/1600	128/1400	216/1200
Starting System (V/kW)	12/2.0	12/2.2	24/5.0			24/5.5	24/6.0
Cooling system	Heat exchanger						
Dry Mass (with gear) (kg)	220	310	410	493	488	1320	1480
Marine Gear Model	DMT25AL/GTK-195		DMT50A			DMT140H	DMT240H
Type	Hydraulic multi-disc clutch, wet type						
Reduction Ratio(Ahead)	2.52, 2.96, 3.32, 3.52		2.45, 2.82, 3.12, 3.46			2.57, 3.03, 3.46	2.44, 2.93, 3.40
Dry weight (kg)	77		143			218	400

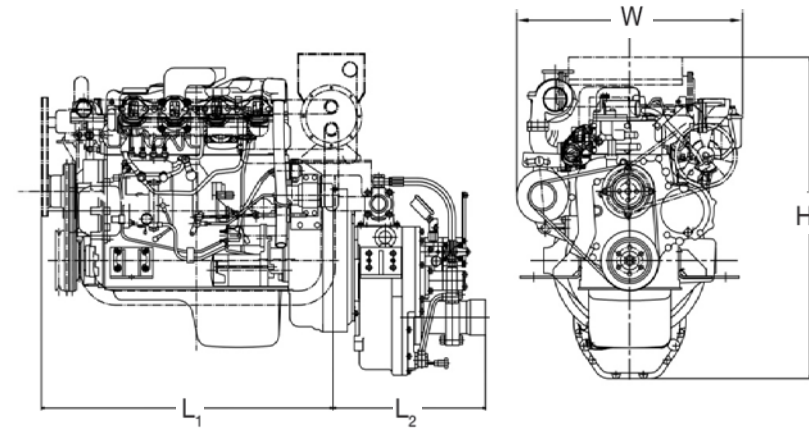
• Power: 1 kW = 1.36 PS = 1.341 HP • Torque : 1 N·m = 0.74 lb·ft

# Marine Diesel Engine

- |                  |                      |                          |
|------------------|----------------------|--------------------------|
| High Performance | Low Fuel Consumption | Advanced Design          |
| High Technology  | Low Cost Maintenance | Ideal Function           |
| High Quality     | Low Noise            | Ideal price              |
| High Reliability | Low Durability       | Reliable Service support |



The Family of  
**INDUSTRIAL ENGINE**



$L(L_1+L_2) \times W \times H$  : Refer to Engine Specification



DIMENSION(mm)					
ENGINE MODEL	L	L <sub>1</sub>	L <sub>2</sub>	W	H
G4HD40	1079	738	341	557	725
G4HD60	1079	738	341	557	725
G4HD80	1292	910	382	656	908
G4HD120	1293	911	382	673	908
G4HD140	1251	869	382	681	895
G6HD320	1811	1365	446	849	1310
G6HD530	2030	1391	639	849	1320

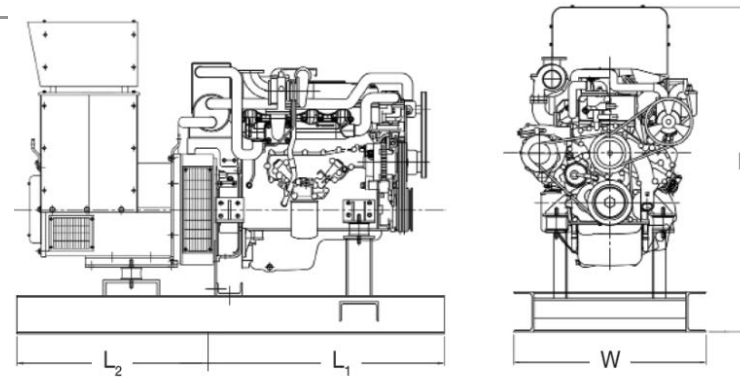
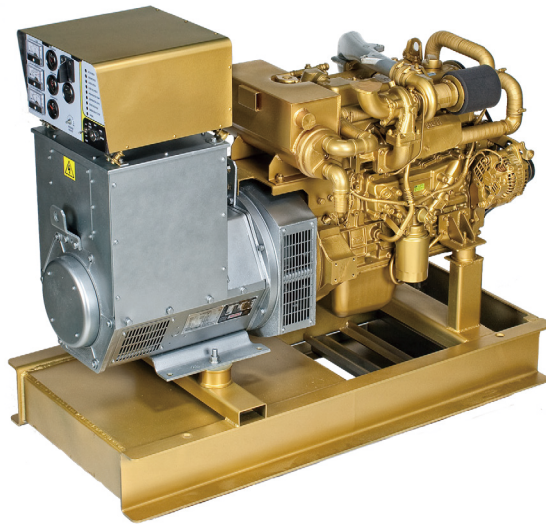
# Marine Auxiliary Generator

GEN-SET MODEL	G4H-G27/17		G4H-G30	G4H-G40/25		G4H-G50/40		G4H-G70/50		G6H-G210/200		
Number of cylinders	In-line 4										In-line 6	
Displacement (lit.)	2.607		2.607	3.568		3.298		3.907		11.149		
Continuous rated engine speed (rpm)	1800	1500	1800	1800	1500	1800	1500	1800	1500	1800	1500	
Continuous rated output (hp)	42	23	49	55	46	75	55	96	76	319	292	
Applicable generator capacity kVa(kw)	34(27)	22(18)	45(30)	48(39)	31(25)	65(52)	50(40)	90(72)	62(50)	260(208)	250(200)	
Frequency	60	50	60	60	50	60	50	60	50	60	50	
Combustion system	Swirl chamber type		Direct injection	Direct injection	Direct injection	Direct injection	Direct injection	Direct injection	Direct injection	Direct injection		
Aspiration	Natural aspiration		Natural aspiration	Natural aspiration	Natural aspiration	Turbocharger	Turbocharger	Turbocharger	Turbocharger	Turbocharged with intercooler		
Dry weight (Engine only)	210		215	324		334		360		1050		
Dry weight (Gen. set)	330		485	594		624		680		1870		

• **Power** Power factor = kW/kVa , kVa = kW/PF , 1HP = 0.7457 kW = 1.013875 PS

# Marine Auxiliary Generator

- |                  |                      |                          |
|------------------|----------------------|--------------------------|
| High Performance | Low Fuel Consumption | Advanced Design          |
| High Technology  | Low Cost Maintenance | Ideal Function           |
| High Quality     | Low Noise            | Ideal price              |
| High Reliability | Low Durability       | Reliable Service support |



$L(L_1+L_2) \times W \times H$  : Refer to Engine Specification

## Permanent Magnetic Generator

- Providing high efficiency
- Prevent voltage fluctuations
- Reduce operation cost
- Available precise control more than A.V.R



DIMENSION(mm)						
60HZ	L	L <sub>1</sub>	L <sub>2</sub>	W	H	50HZ
G4H-G27	1524.5	883	641.5	631	734	G4H-G17
G4H-G30	1440.9	779.6	661.3	618	990	-
G4H-G40	1562.3	901	661.3	678	990	G4H-G25
G4H-G50	1652.3	901	751.3	656	990	G4H-G40
G4H-G70	1648.3	897	751.3	673	990	G4H-G50
G6H-G210	2658	1607	1051	1,033	1152	G6H-G200