NEW THINKING. NEW POSSIBILITIES.

People's expectation toward individual mobility requires more than just a convenient means of transportation. The old understanding of cars has become outdated. A car represents individuals' lifestyles, and it became an integral part of their lives. At the same time, the automobile industry has experienced seismic change. Hyundai Motor Company has grown rapidly to become one of the largest automakers, backed by world class production capability and superior quality. We have now reached a point where we need a qualitative approach to bring bigger ideas and relevant solutions to our customers. This is an opportunity to move forward and we have developed a new brand slogan that encapsulates our willingness to take a big leap. Led by our new slogan and the new thinking underlying it, we will become a company that keeps challenging itself to unlock new possibilities for people and the planet.

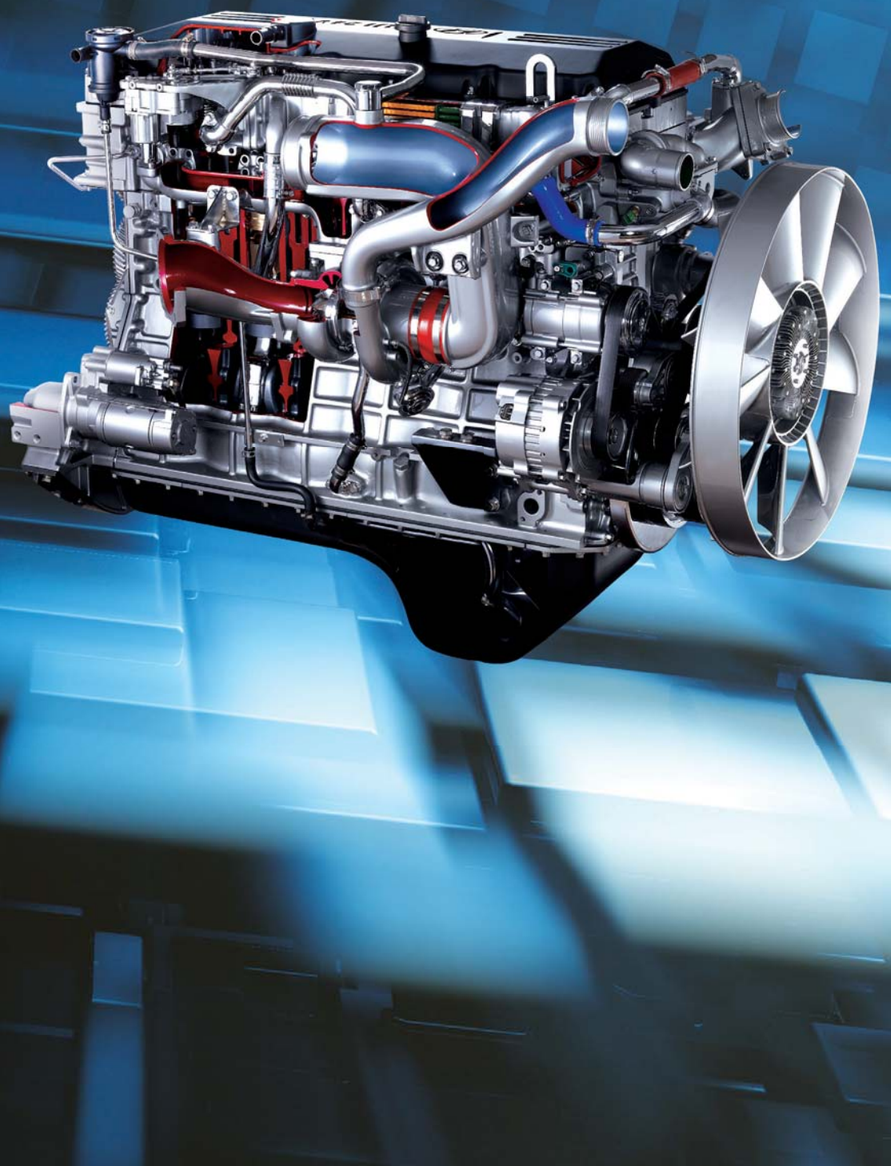
HYUNDAI | NEW THINKING. NEW POSSIBILITIES.

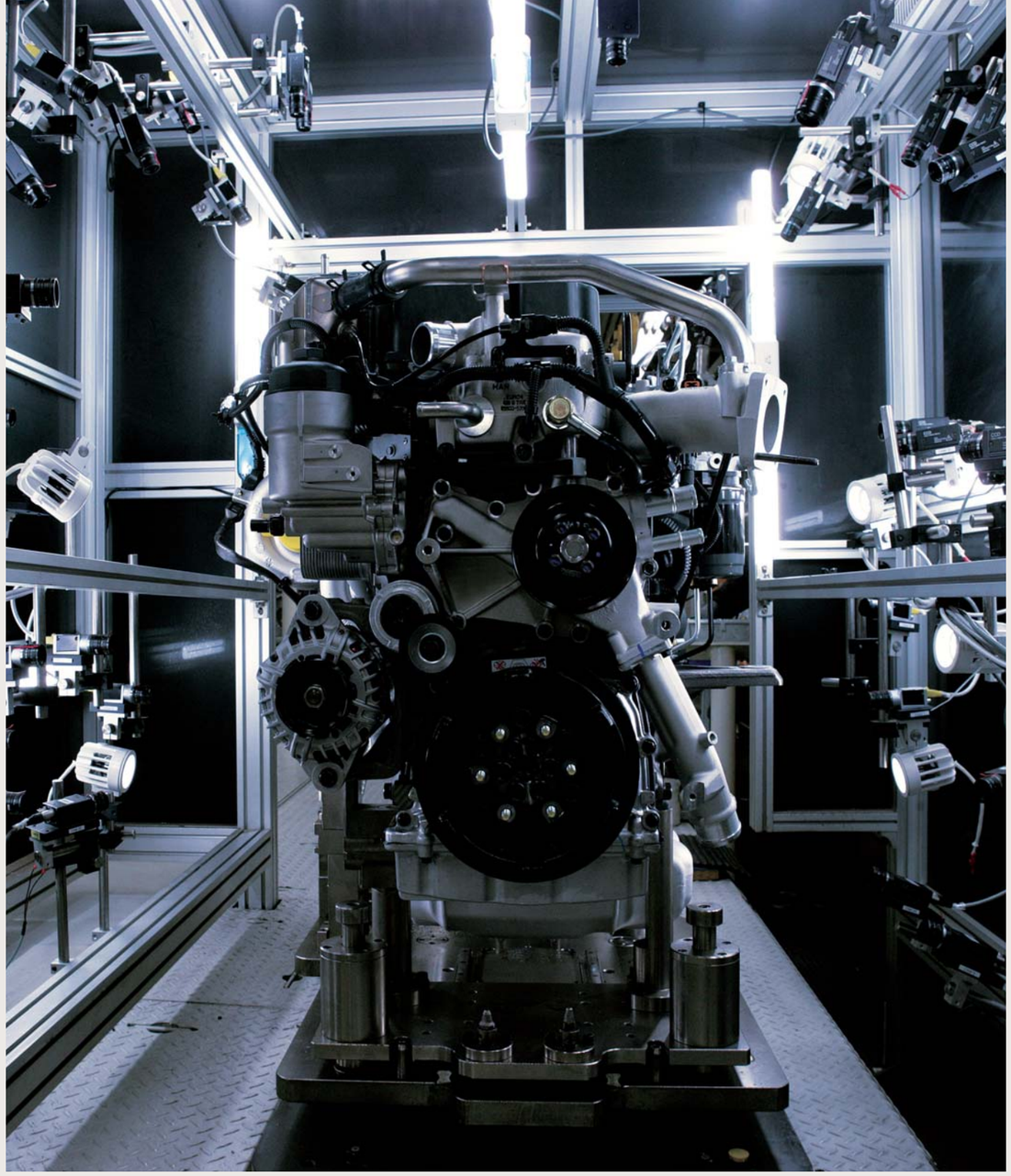
Hyundai Motor Company
12,Heolleung-ro, Seochogu, Seoul, Korea 06797, Special Vehicle Team
Tel : 82-2-3464-3321~3324 I Fax : 82-2-3464-3502

www.hyundai.com
2016.12 CP / ENG

HYUNDAI | NEW THINKING. NEW POSSIBILITIES.

HYUNDAI ENGINE





The Strengths of HMC Industrial Engines

When it comes to the strengths of HMC's industrial engines, one can easily list the following three points.
HMC has accomplished economies of scale with manufacturing capacity of over 5 million units per year.
This allows stable supply of engines at competitive prices.
HMC engines are of the best quality and performance.
Behind the positive ratings of Hyundai Motors by JD Power, AutoPacific and many other automotive rating organizations lie the high-quality engines.
The strength of HMC engine is the diverse engine line-up ranging from gasoline engines (53~375hp), diesel engines (40~530 hp), to CNG engines that can easily meet our clients' various needs.
In addition, HMC's engines are also eco-friendly and conform to all the international standards that are getting tougher and tougher.

HYUNDAI ENGINE IS YOUR PARTER TO SUCCESS

World's largest scale commercial vehicle production plant-Jeonju Plant

The Jeonju Plant occupies a total of 400,000 pyong (317 acres) of landand has 4.3 million sq. ft. in production space.
It specializes in producing mid to large-sized buses, trucks and specialty vehicles.
The Jeonju Plant is capable of producing 100,000 vehicles per year and interms of the plant's scale, it is deemed to be the world's largest commercial vehicle production plant.
In order to facilitate the development of eco-friendly new products that can satisfy the demands of the international export markets in the 21st century and the development of environmentally-conscious management systems, the Jeonju Plant is making an all-out effort.

The Ulsan Plant-the world's single largest automobile plant in the world

The mammoth-sized Ulsan complex sits on a 1,200 acres site and it is Hyundai's main production plant comprised of five independent plants capable of producing 1,392,000 vehicles per year. This plant has over 35,000 employees and its annual average production capacity is 1,392,000 vehicles. The plant also has its own port where up to three 50,000 ton ships can anchor at the same time. Being the world's largest in scale of its kind, the Ulsan plant is the birth place of the Korean automobile industry and is a self-contained facility that operates its own fire station, hospital and security vehicles. The Ulsan Plant is also equipped with cutting-edge facilities to protect the environment, such as a waste water and sewage treatment plant securing Hyundai's position as a green-minded company.

A Facility of the Future Focusing on export strategy-Asan Plant

The Asan Plant, which mainly produces passenger vehicles for export, rests on a 440 acres site with a 4 million sq. ft. building that consists of production lines for machine press, auto frame, paint, assembly, engine and a materials plant.
It is an entirely self contained independent automobile production complex that is capable of an output of 300,000 mid to large size passenger vehicles annually.
The Asan plant was established with the grand proposition of creating a safety-first work environment which is people oriented all the while putting into practice our management philosophy of eco-friendliness.

Tier-4 Diesel Engines

Hyundai's capacity for research and development has led to mass production of various engines since Hyundai produced its own automobile Alpha engine for the first time in Korea in 1991. Upon this foundation we launch the industrial engines of R 2.2 and F 3.9 which are eco-friendly and famous for their durability, reliability and economy.

Through the technology of performance-proven automobile engines, we have developed these two industrial engines of R 2.2 and F 3.9 which squeeze the maximum amount of energy out of each drop of fuel and provide fantastic pulling power across a wide rpm range. These engines satisfy Korea Tier-4 regulation applying common rail direct injection system, exhaust gas recycling device, three way catalytic convertor and NOx reduction technology.

Many customers are satisfied with the quality and the performance of Hyundai's Tier-4 diesel engines and we anticipate an increase in the demand for these engines.

NEW R 2.2

D4HB-C1

65PS/**24.1**kg·m

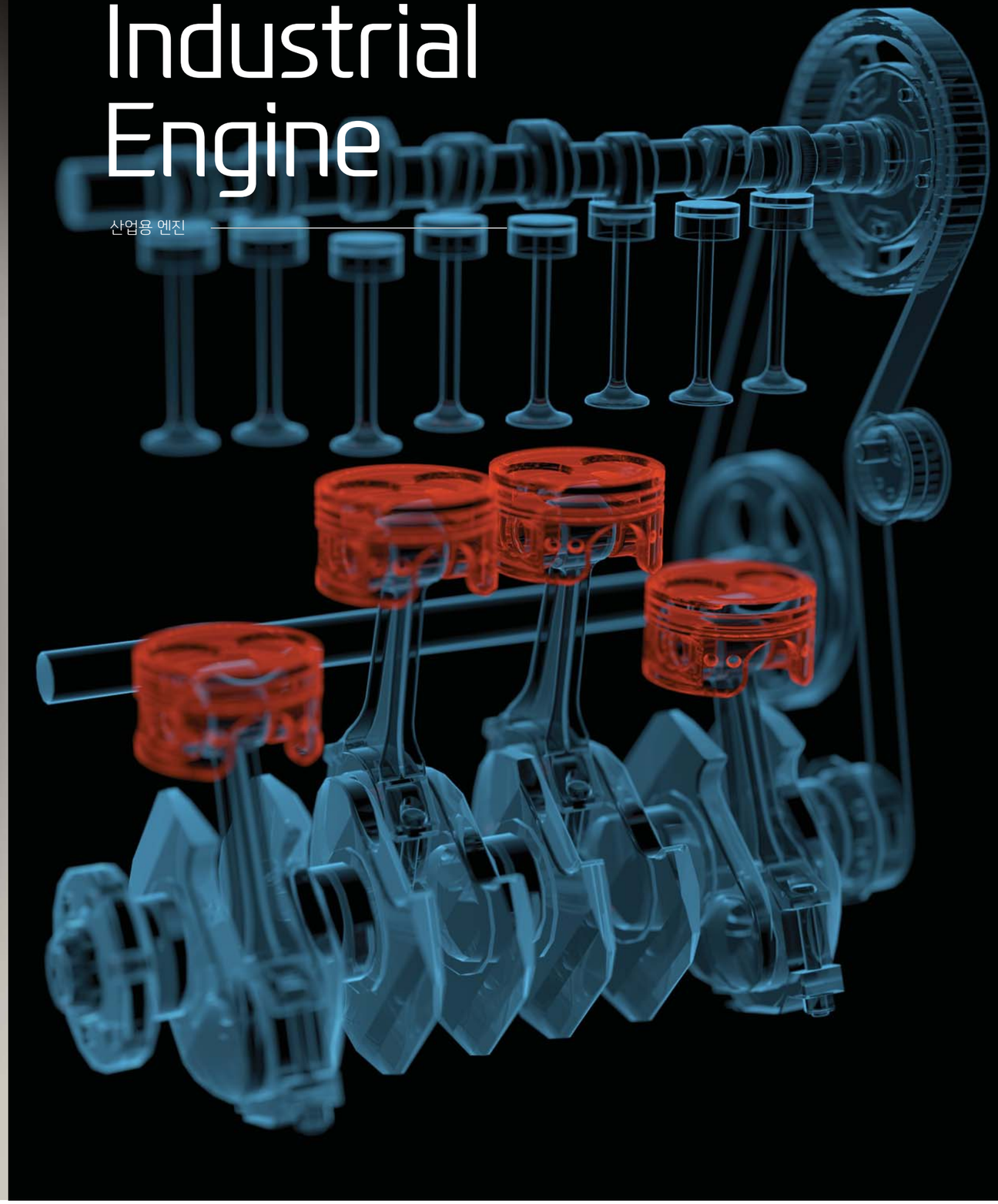
NEW F 3.9

D4GB-C1

110PS/**42**kg·m

Industrial Engine

산업용 엔진



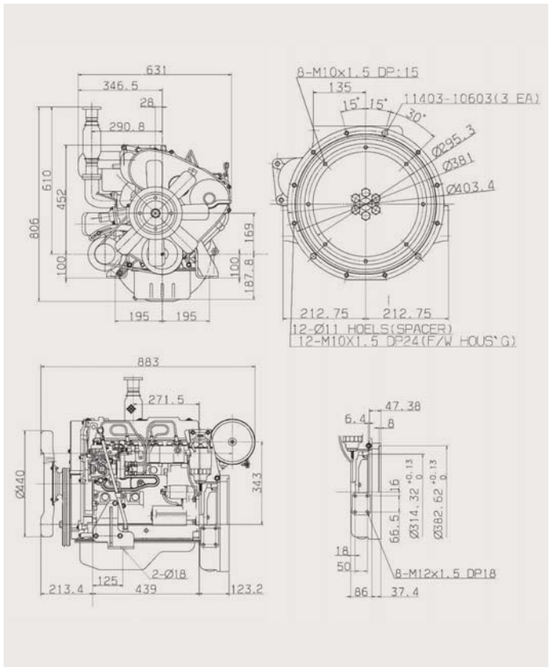
D4BB-C4

53PS/16.8kg.m

Specifications

Engine model		D4BB-C4(AG35)
Engine type		4 Cycle, water cooled
Injection type		Indirect injection
No. of cyl. And configuration		4-in line
Aspiration		N.A
Displacement (cc)		2,607
Bore × Stroke (mm)		91.1 × 100
Compression ratio		22 : 1
Dry weight (kg)		200
Dimension	Length (mm)	883
	Width (mm)	631
	Height (mm)	806
Max power	PS/rpm	53/2,500
Max torque	kg.m/rpm	16.8/1,600
Governor		-
Alternator		12V - 65A
Starting motor		12V - 2.2kW
Certification		EC Stage-3A / China Tier-2
Application		Construction equipment Agricultural machinery

General View of Engine



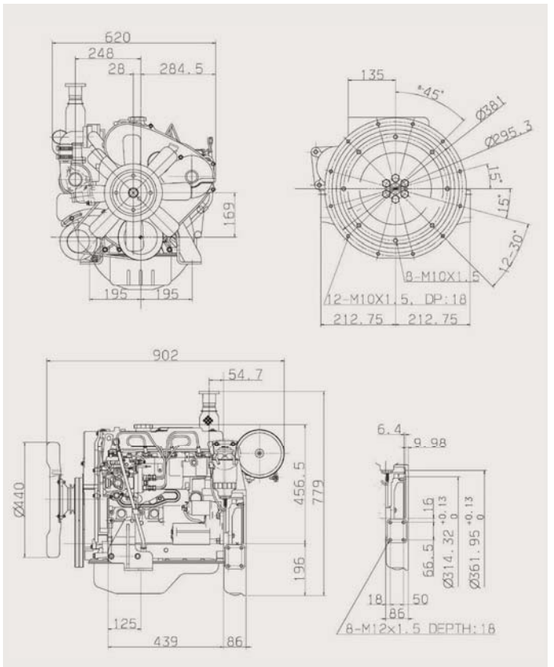
D4BB-C8

64PS/19.2kg.m

Specifications

Engine model		D4BB-C8(AG50)
Engine type		4 Cycle, water cooled
Injection type		Indirect injection
No. of cyl. And configuration		4-in line
Aspiration		T.C
Displacement (cc)		2,607
Bore × Stroke (mm)		91.1 × 100
Compression ratio		22 : 1
Dry weight (kg)		215
Dimension	Length (mm)	902
	Width (mm)	620
	Height (mm)	779
Max power	PS/rpm	64/2,500
Max torque	kg.m/rpm	19.9/2,000
Governor		-
Alternator		12V - 65A
Starting motor		12V - 2.2kW
Certification		-
Application		Construction equipment Agricultural machinery

General View of Engine



Industrial Engine

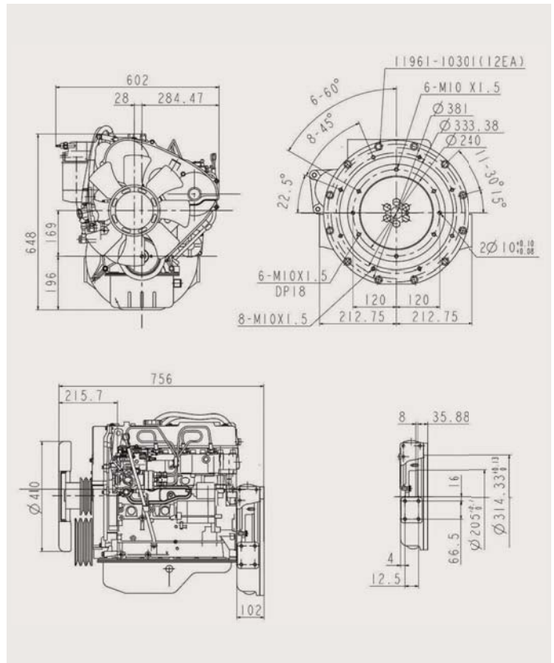
D4BB-P1

40PS/15kg.m

Specifications

Engine model		D4BB-P1(AG32)
Engine type		4 Cycle, water cooled
Injection type		Indirect injection
No. of cyl. And configuration		4-in line
Aspiration		N.A
Displacement (cc)		2,607
Bore × Stroke (mm)		91.1 × 100
Compression ratio		22 : 1
Dry weight (kg)		200
Dimension	Length (mm)	756
	Width (mm)	602
	Height (mm)	648
Max power	PS/rpm	40/2,000
Max torque	kg.m/rpm	15/1,500
Governor		-
Alternator		-
Starting motor		24V - 5.0kW
Certification		-
Application		Bus cooler

General View of Engine



Industrial Engine

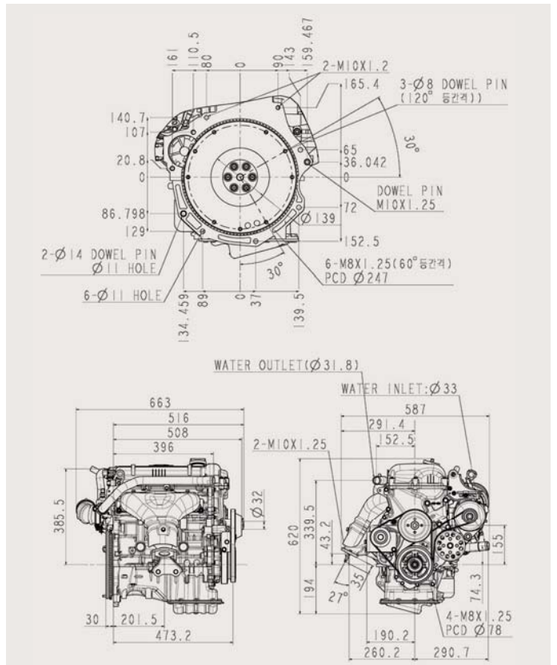
G4FC-F1

55PS/13.9kg.m

Specifications

Engine model		G4FC-F1(NG97)
Engine type		4 Cycle, water cooled
Injection type		MPI
No. of cyl. And configuration		4-in line
Aspiration		N.A
Displacement (cc)		1,591
Bore × Stroke (mm)		77.0 × 85.44
Compression ratio		10.5 : 1
Dry weight (kg)		95
Dimension	Length (mm)	663
	Width (mm)	587
	Height (mm)	620
Max power	PS/rpm	55/2,800
Max torque	kg.m/rpm	13.9/2,800
Governor		-
Alternator		13.5V - 90A
Starting motor		12V - 0.9kW
Certification		-
Application		Speed sprayer

General View of Engine



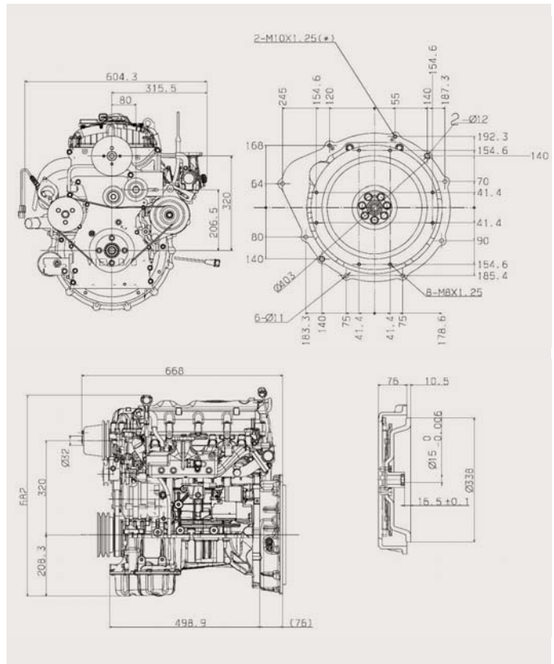
L4KB-C1

65PS/18.5kg.m

Specifications

Engine model		L4KB-C1(CF11)
Engine type		4 Cycle, water cooled
Injection type		-
No. of cyl. And configuration		4-in line
Aspiration		N.A
Displacement (cc)		2,359
Bore × Stroke (mm)		88.0 × 97.0
Compression ratio		10.5 : 1
Dry weight (kg)		153
Dimension	Length (mm)	668
	Width (mm)	604
	Height (mm)	682
Max power	PS/rpm	65/2,500
Max torque	kg.m/rpm	18.5/1,600
Governor		-
Alternator		13.5V - 90A
Starting motor		12V - 1.4kW
Certification		EPA Tier-4
Application		Forklift truck

General View of Engine



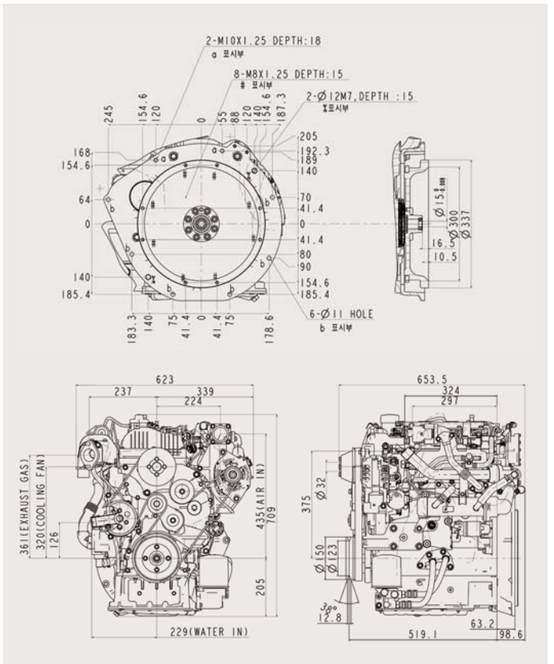
D4HB-C1

65PS/24.1kg.m

Specifications

Engine model		D4HB-C1(KS95)
Engine type		4 Cycle, water cooled
Injection type		CRDi
No. of cyl. And configuration		4-in line
Aspiration		TCI
Displacement (cc)		2,199
Bore × Stroke (mm)		85.4 x 96.0
Compression ratio		16:01
Dry weight (kg)		210
Dimension	Length (mm)	654
	Width (mm)	623
	Height (mm)	709
Max power	PS/rpm	65.0/2,300
Max torque	kg.m/rpm	24.1/1,600
Governor		ECU
Alternator		13.5V - 90A
Starting motor		12V - 2.0kW
Certification		DOM Tier-4
Application		Forklift truck

General View of Engine



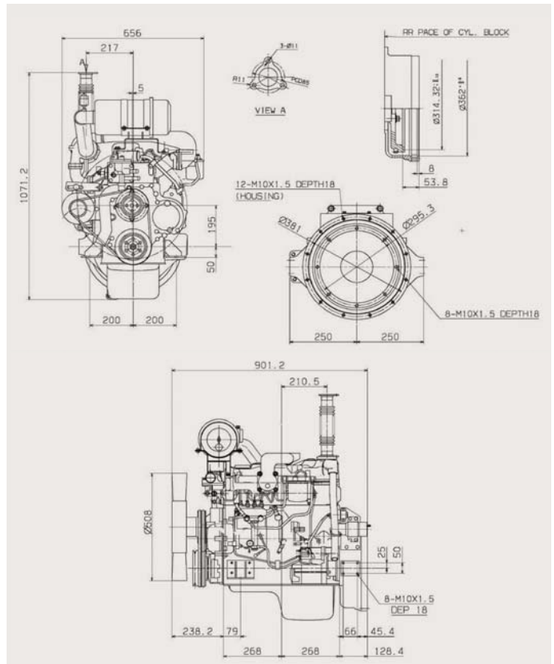
D4AK-P

85PS/**25.5**kg.m

Specifications

Engine model		D4AK-P(EM2B)
Engine type		4 Cycle, water cooled
Injection type		Direct injection
No. of cyl. And configuration		4-in line
Aspiration		T.C
Displacement (cc)		3,298
Bore × Stroke (mm)		100 × 105
Compression ratio		16 : 1
Dry weight (kg)		334
Dimension	Length (mm)	901
	Width (mm)	656
	Height (mm)	1,071
Max power	PS/rpm	85/2,400
Max torque	kg.m/rpm	25.5/1,800
Governor		Bosch RSV type
Alternator		24V - 50A
Starting motor		24V - 5.0kW
Certification		-
Application		Pump, General power use

General View of Engine



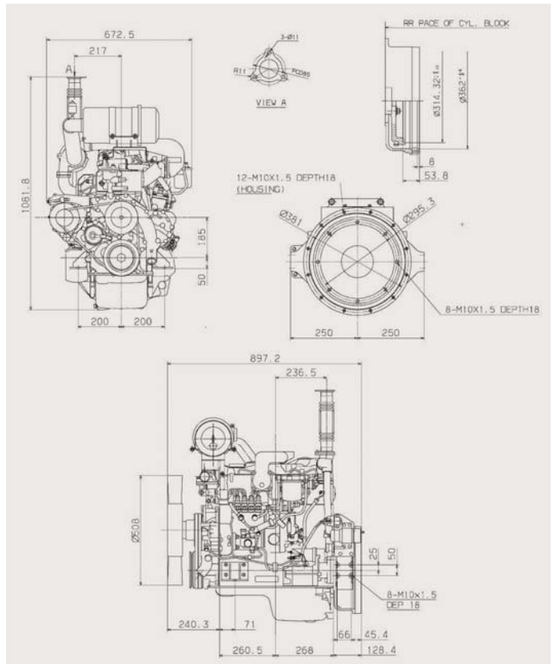
D4DA-P

100PS/**37**kg.m

Specifications

Engine model		D4DA-P(EM1P)
Engine type		4 Cycle, water cooled
Injection type		Direct injection
No. of cyl. And configuration		4-in line
Aspiration		T.C
Displacement (cc)		3,907
Bore × Stroke (mm)		104 × 115
Compression ratio		16.5 : 1
Dry weight (kg)		350
Dimension	Length (mm)	897
	Width (mm)	673
	Height (mm)	1,082
Max power	PS/rpm	100/2,000
Max torque	kg.m/rpm	37/1,700
Governor		Bosch RSV type
Alternator		24V - 40A
Starting motor		24V - 5.0kW
Certification		-
Application		Pump, General power use

General View of Engine



Industrial Engine

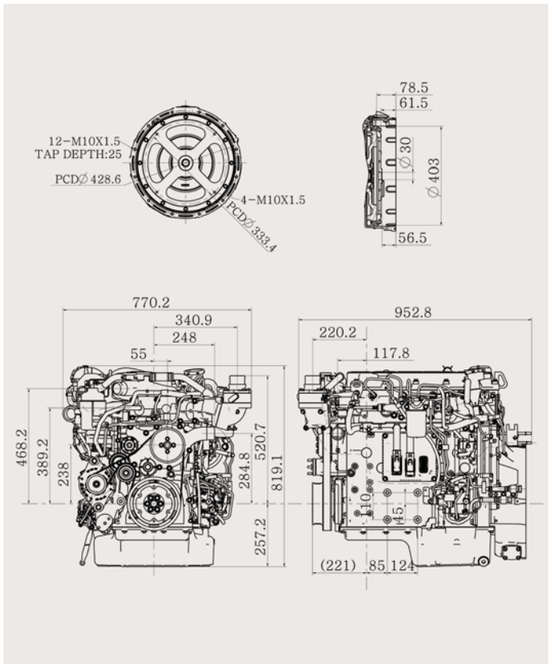
D4GB-C1

110PS/**42**kg.m

Specifications

Engine model		D4GB-C1(QF99)
Engine type		4 Cycle, water cooled
Injection type		CRDi
No. of cyl. And configuration		4-in line
Aspiration		TCI
Displacement (cc)		3,933
Bore × Stroke (mm)		103 x 118
Compression ratio		17.1 : 1
Dry weight (kg)		430
Dimension	Length (mm)	953
	Width (mm)	770
	Height (mm)	819
Max power	PS/rpm	110/2,250
Max torque	kg.m/rpm	42/1,600
Governor		ECU
Alternator		24V - 70A
Starting motor		24V - 5.5Kw
Certification		KOR Tier-4
Application		Forklift

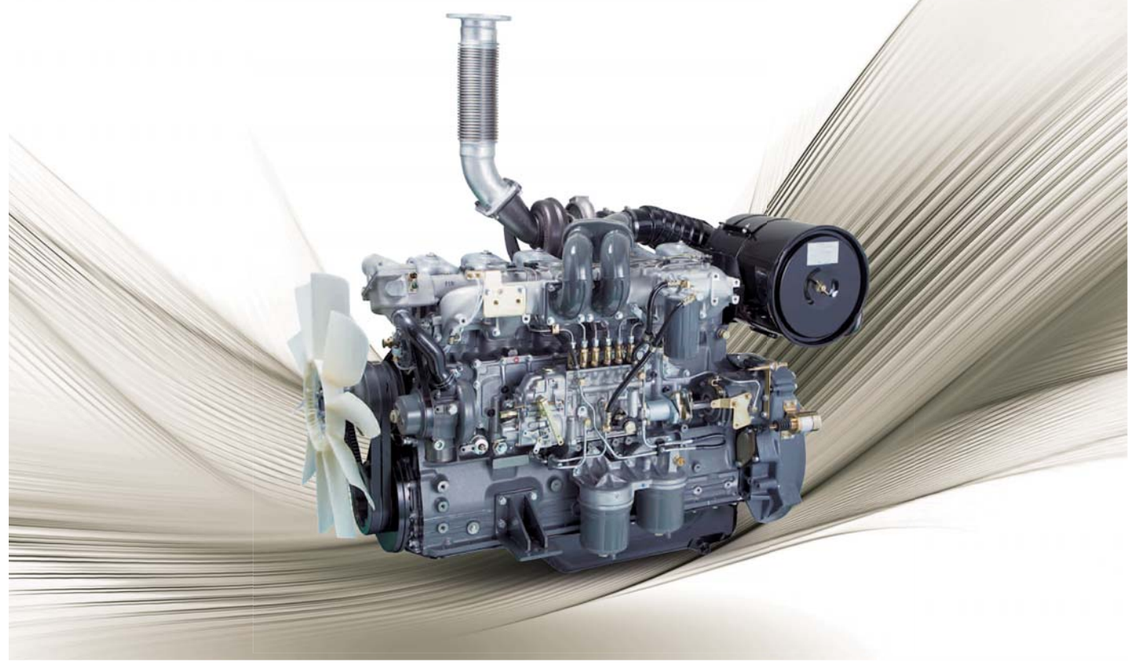
General View of Engine



Industrial Engine

D6AZ-P

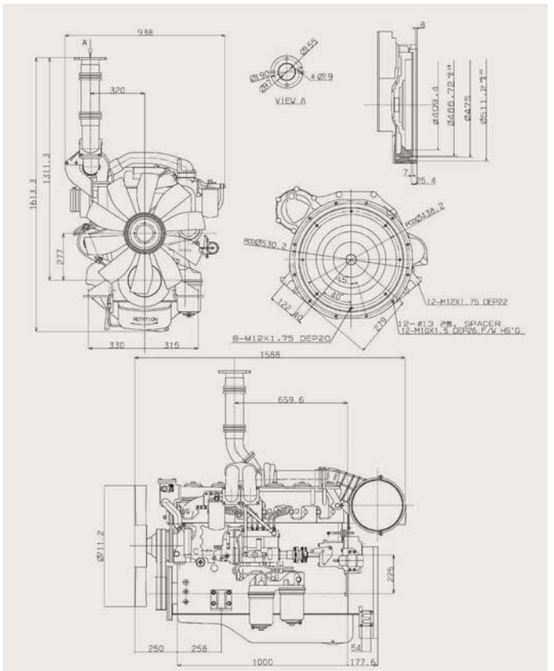
280PS/**115**kg.m



Specifications

Engine model		D6AZ-P(EH3P)
Engine type		4 Cycle, water cooled
Injection type		Direct injection
No. of cyl. And configuration		6-in line
Aspiration		T.C
Displacement (cc)		11,149
Bore × Stroke (mm)		130 × 140
Compression ratio		16.5 : 1
Dry weight (kg)		1,010
Dimension	Length (mm)	1,588
	Width (mm)	938
	Height (mm)	1,613
Max power	PS/rpm	280/2,100
Max torque	kg.m/rpm	115/1,400
Governor		Bosch RSV type
Alternator		24V - 70A
Starting motor		24V - 5.5kW
Certification		-
Application		Pump, General power use

General View of Engine



Industrial Engine

Engine model	D4BB-C1	D4BB-C2	D4BB-C4	D4BB-C8	D4BB-C5	D4BB-C7	D4BB-M	D4BB-P1	D4BB-G6	D4BB-P9
Engine code	AG90	AG89	AG35	AG50	AG43	AG45	AG36	AG32	AH23	AH24

General

Fuel	Diesel									
Injection type	Indirect injection									
No. of cyl. And configuration	4-in line									
Aspiration	N.A			T.C	N.A				T.C(N.A)	T.C
Displacement (cc)	2,607									
Bore x Stroke (mm)	91.1 x 100									
Compression ratio	22 : 1									
Dry weight (kg)	200	200	200	215	200	200	190	200	200	207
Dimension (mm) Length	669	756	883	902	683	655	615	756	780	738
Dimension (mm) Width	602	602	631	620	611	602	597	602	604	604
Dimension (mm) Height	648	648	806	779	659	660	633	648	844	844

Performance

Max power (PS/rpm)	53/2,500	47/2,400	53/2,500	64/2,500	53/2,500	53/2,500	80/4,000	40/2,000	64/2,500	38.6/1,600
Max torque (kg.m/rpm)	16.8/1,600	14.3/2,300	16.8/1,600	19.9/2,000	16.8/1,600	16.8/1,600	17/2,200	15/1,500	19.9/2,000	17.3/1,600

Specifications

Cooling water capacity (ℓ)	3.9									
Oil capacity (ℓ)	5.4									
Governor	-									
Alternator	12V - 65A				13.5V-70A	12V-65A	-		12V-65A	-
Starting motor	12V - 2.2kW						12V - 2.0kW	24V - 5.0kW	12V - 2.2kW	
rpm	2,500	2,400	2,500	2,500	2,500	2,500	4,000	2,000	2,500	1,600
Fuel consumption (g/ps.h)	182.0	177.0	182.0	180.0	182.0	182.0	220.0	177.1	180.0	187.9

Performance

Certification	EC Stage-3A	-	EC Stage-3A	-	EC Stage-3A	-	-	-	-	
	China Tier-2	-	China Tier-2	-	China Tier-2	-	-	-	-	
Application	Speed sprayer	Construction equipment Agricultural machinery			Forklift truck	Marine	Bus cooler	General Power	Fire pump	

Engine model	G4FC-F1	L4KB-C1	D4HB-C1	D4AK-P	D4DA-P	D4DD-C	D4GB-C1	D6AZ-P	D6AC-C	D6CC-P
Engine code	NG97	CF11	KS95	EM2B	EM1P	EM2G	QF99	EH3P	EH3N	EH5G

General

Fuel	Gasoline	LPG	Diesel	Diesel			Diesel	Diesel		Diesel
Injection type	MPI	-	CRDi	Direct injection			Direct injection	Direct injection		Direct injection
No. of cyl. And configuration	4-in line	4-in line	4-in line	4-in line			4-in line	6-in line		6-in line
Aspiration	N.A	N.A	T.C.I	T.C		T.C.I	T.C.I	T.C	T.C.I	T.C.I
Displacement (cc)	1,591	2,359	2,199	3,298	3,907	3,907	3,933	11,149		12,344
Bore x Stroke (mm)	77.0 x 85.44	88.0 x 97.0	85.4 x 96.0	100 x 105	104 x 115	104 x 115	103 x 118	130 x 140		130 x 155
Compression ratio	10.5 : 1	10.5 : 1	16 : 1	16 : 1	16.5 : 1	17.5 : 1	17.1 : 1	16.5 : 1		17.2 : 1
Dry weight (kg)	95	153	210	334	350	345	430	1,010	1,050	1,148
Dimension (mm) Length	663	668	654	901	897	834	953	1,588	1,415	1,600
Dimension (mm) Width	587	604	623	656	673	663	770	938	926	897
Dimension (mm) Height	620	682	709	1,071	1,082	800	819	1,613	1,226	1,105

Performance

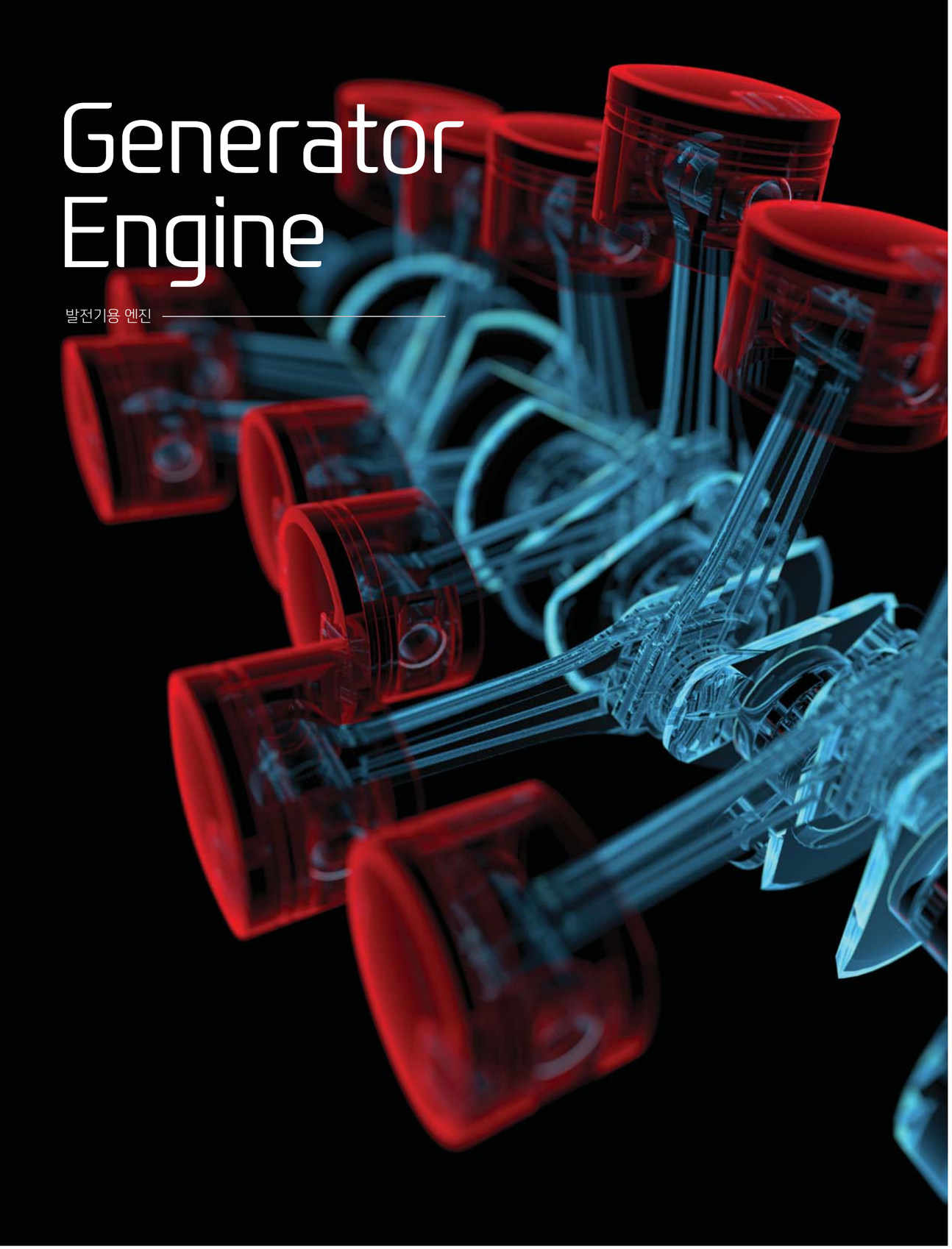
Max power (PS/rpm)	55/2,800	65/2,500	65/2,300	85/2,400	100/2,000	100/2,300	110/2,250	280/2,100	280/1,900	440/2,000
Max torque (kg.m/rpm)	13.9/2,800	18.5/1,600	24.1/1,600	25.5/1,800	37/1,700	38/1,600	42/1,600	115/1,400	120/1,400	216/1,200

Specifications

Cooling water capacity (ℓ)	3.0	2.2	5.0	8.3			8.1	22.0	22.0	42.0
Oil capacity (ℓ)	3.3	5.1	6.3	8.5			14.0	24.0	27.3	28.0
Governor	-	-	ECU	Bosch RSV type		ECU	ECU	Bosch RSV type		ECU
Alternator	13.5V - 90A	13.5V - 90A	13.5V - 90A	24V -50A	24V - 40A	24V - 50A	24V-70A	24V - 70A		24V - 80A
Starting motor	12V - 0.9kW	12V - 1.4kW	12V - 2.0Kw	24V - 5.0kW			24V-5.5kW	24V - 5.5kW		24V - 6.0kW
rpm	2,800	-	2,450	2,400	2,300	1,700	2,250	2,100	1,400	2,000
Fuel consumption (g/ps.h)	207.4	-	161.0	171.0	157.0	139.2	159.0	162.0	143.0	158

Performance

Certification	-	EPA Tier-4	KOR Tier-4	-	-	EC Stage-3A	KOR Tier-4	-	-	-
	-	-	-	-	-	EPA Tier-3	-	-	-	-
Application	Speed sprayer	Forklift truck	Forklift truck	Pump, General power use		Forklift truck	Forklift truck	Pump	Excavator	Transporter

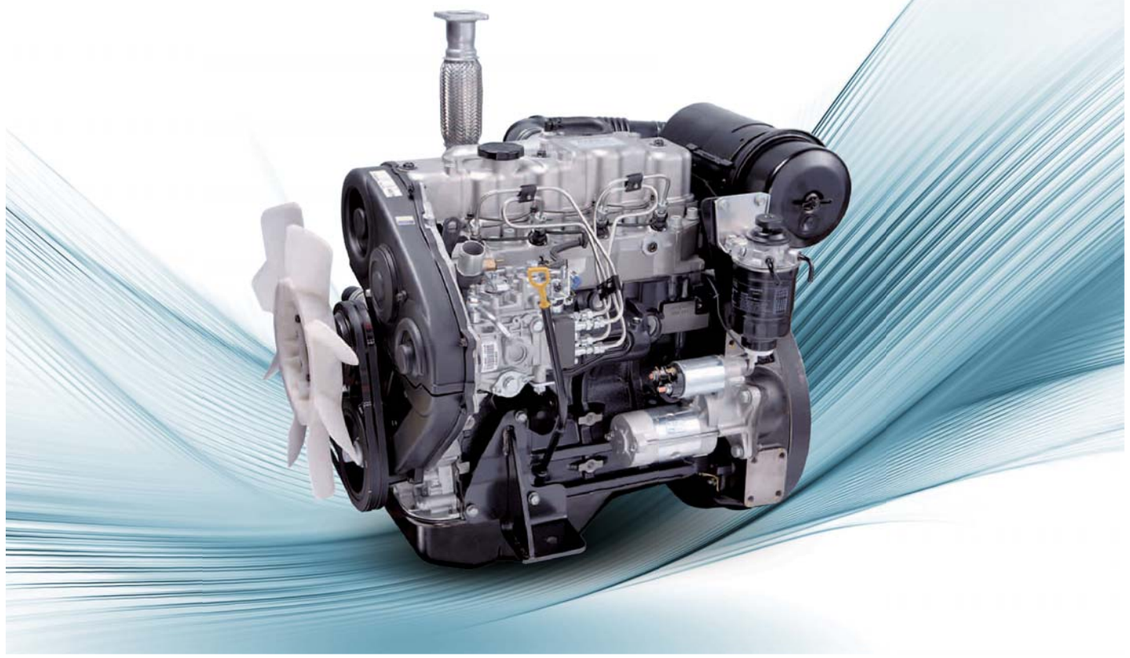


Generator Engine

발전기용 엔진

D4BB-G1, G2

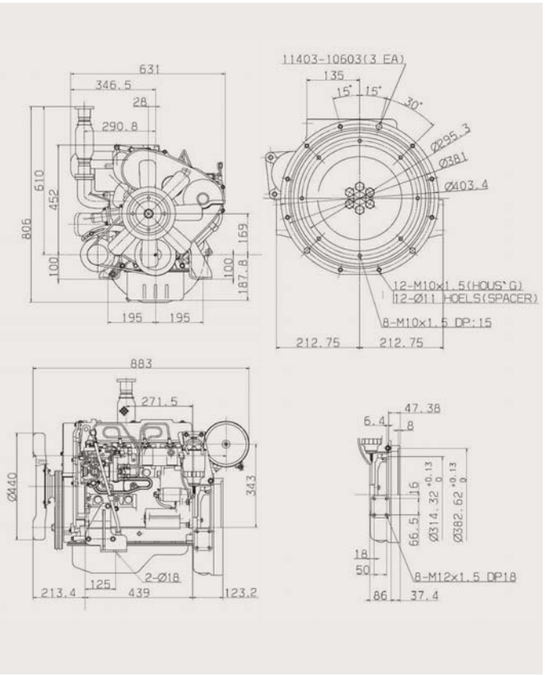
20kWe, 26kWe Grade



Specifications

Engine model		D4BB-G1(AG31)	D4BB-G2(AG39)
Engine type		4 Cycle, water cooled	
Injection type		Indirect injection	
No. of cyl. And configuration		4-in line	
Aspiration		N.A	
Displacement (cc)		2,607	
Bore × stroke (mm)		91.1 × 100	
Compression ratio		22 : 1	
Dry weight (kg)		210	
Dimension	Length (mm)	883	
	Width (mm)	631	
	Height (mm)	806	
rpm		1,800	1,800
Stand-by power	PS	28	45
	kW	21	33
Prime power	PS	25	41
	kW	19	30
Governor		-	
Flywheel		SAE #10	
Flywheel housing		SAE #4	
Alternator		12V - 65A	
Starting motor		12V - 2.2kW	

General View of Engine



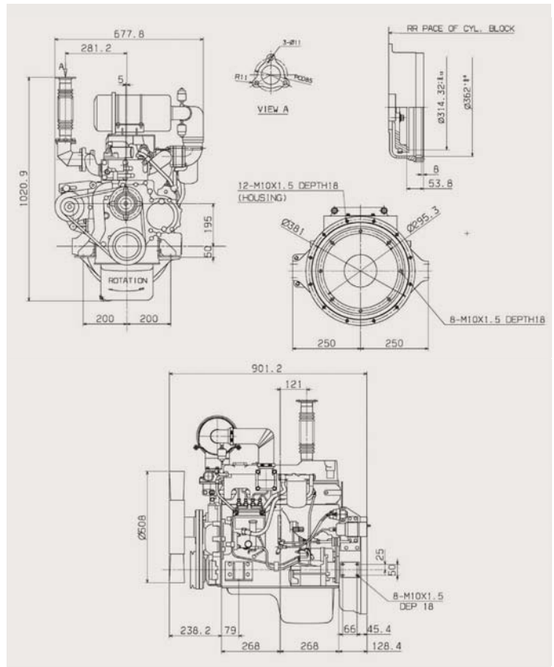
D4AF-G

40kWe Grade

Specifications

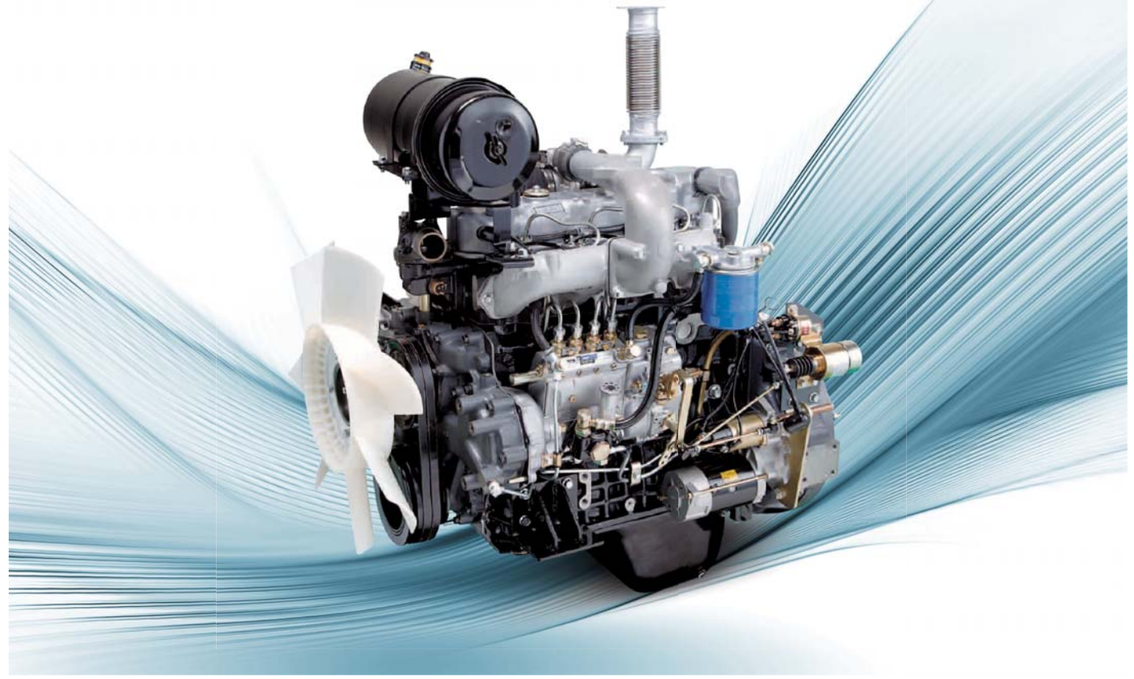
Engine model		D4AF-G(EM68)	
Engine type		4 Cycle, water cooled	
Injection type		Direct injection	
No. of cyl. And configuration		4-in line	
Aspiration		N.A	
Displacement (cc)		3,568	
Bore × stroke (mm)		104 × 105	
Compression ratio		17.5 : 1	
Dry weight (kg)		324	
Dimension	Length (mm)	901	
	Width (mm)	678	
	Height (mm)	1,021	
rpm		1,500	1,800
Stand-by power	PS	50	60
	kW	37	44
Prime power	PS	45	54
	kW	33	40
Governor		Bosch RSV type	
Flywheel		SAE #10	
Flywheel housing		SAE #4	
Alternator		24V - 50A	
Starting motor		24V - 5.0kW	

General View of Engine



D4AK-G

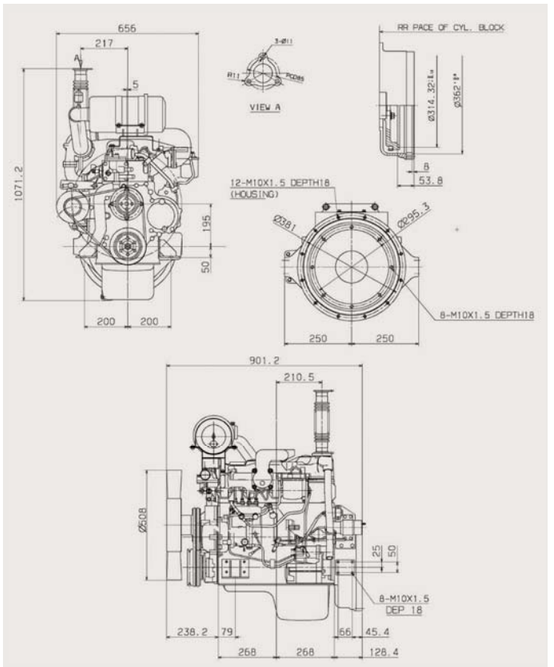
55kWe Grade



Specifications

Engine model		D4AK-G(EM69)	
Engine type		4 Cycle, water cooled	
Injection type		Direct injection	
No. of cyl. And configuration		4-in line	
Aspiration		T.C	
Displacement (cc)		3,298	
Bore × stroke (mm)		100 × 105	
Compression ratio		16 : 1	
Dry weight (kg)		334	
Dimension	Length (mm)	901	
	Width (mm)	656	
	Height (mm)	1,071	
rpm		1,500	1,800
Stand-by power	PS	60	82
	kW	44	60
Prime power	PS	54	74
	kW	40	54
Governor		Bosch RSV type	
Flywheel		SAE #10	
Flywheel housing		SAE #4	
Alternator		24V - 50A	
Starting motor		24V - 5.0kW	

General View of Engine



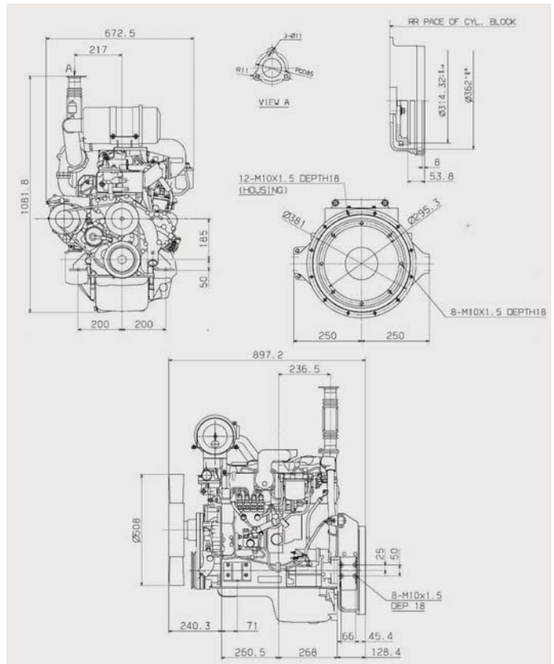
D4DA-G

70kWe Grade

Specifications

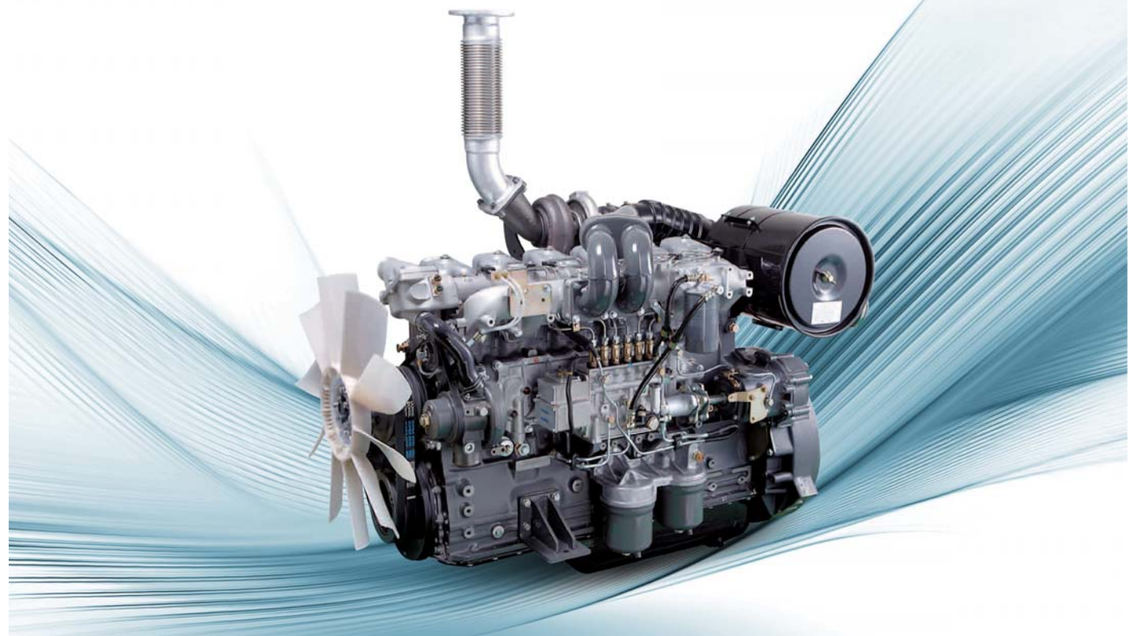
Engine model		D4DA-G(EM2D)	
Engine type		4 Cycle, water cooled	
Injection type		Direct injection	
No. of cyl. And configuration		4-in line	
Aspiration		T.C	
Displacement (cc)		3,907	
Bore × stroke (mm)		104 × 115	
Compression ratio		16.5 : 1	
Dry weight (kg)		360	
Dimension	Length (mm)	897	
	Width (mm)	673	
	Height (mm)	1,082	
rpm		1,500	1,800
Stand-by power	PS	85	107
	kW	62	79
Prime power	PS	75	95
	kW	55	70
Governor		Electric	
Flywheel		SAE #10	
Flywheel housing		SAE #4	
Alternator		24V - 40A	
Starting motor		24V - 5.0kW	

General View of Engine



D6AZ-G1,G2

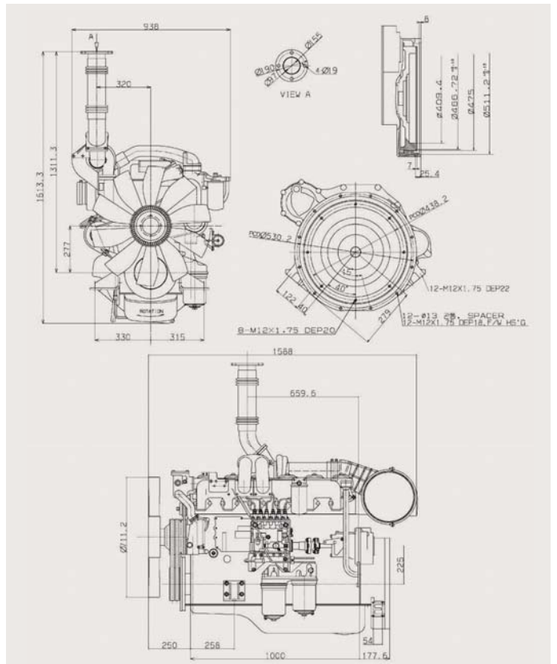
200kWe, 170kWe Grade



Specifications

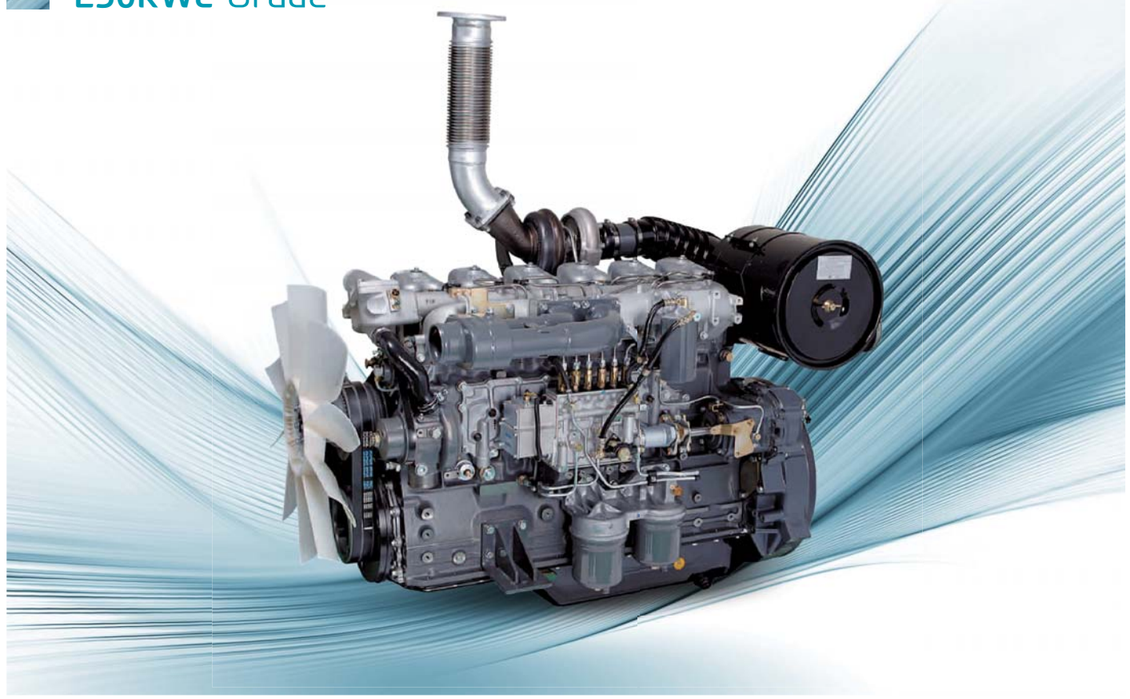
Engine model		D6AZ-G1(EH1X)		D6AZ-G2(EH2X)	
Engine type		4 Cycle, water cooled			
Injection type		Direct injection			
No. of cyl. And configuration		6-in line			
Aspiration		T.C			
Displacement (cc)		11,149			
Bore × stroke (mm)		130 × 140			
Compression ratio		16.5 : 1			
Dry weight (kg)		1,010			
Dimension	Length (mm)	1,588			
	Width (mm)	938			
	Height (mm)	1,613			
rpm		1,500	1,800	1,500	1,800
Stand-by power	PS	270	309	235	260
	kW	199	227	173	191
Prime power	PS	243	278	212	234
	kW	179	204	156	172
Governor		Electric		Bosch RSV type	
Flywheel		SAE #14			
Flywheel housing		SAE #1			
Alternator		24V - 70A			
Starting motor		24V - 5.5Kw			

General View of Engine



D6AC-G

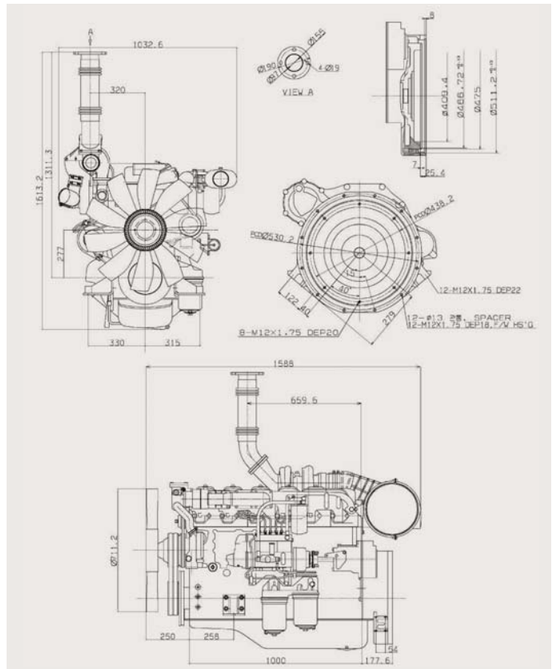
230kWe Grade



Specifications

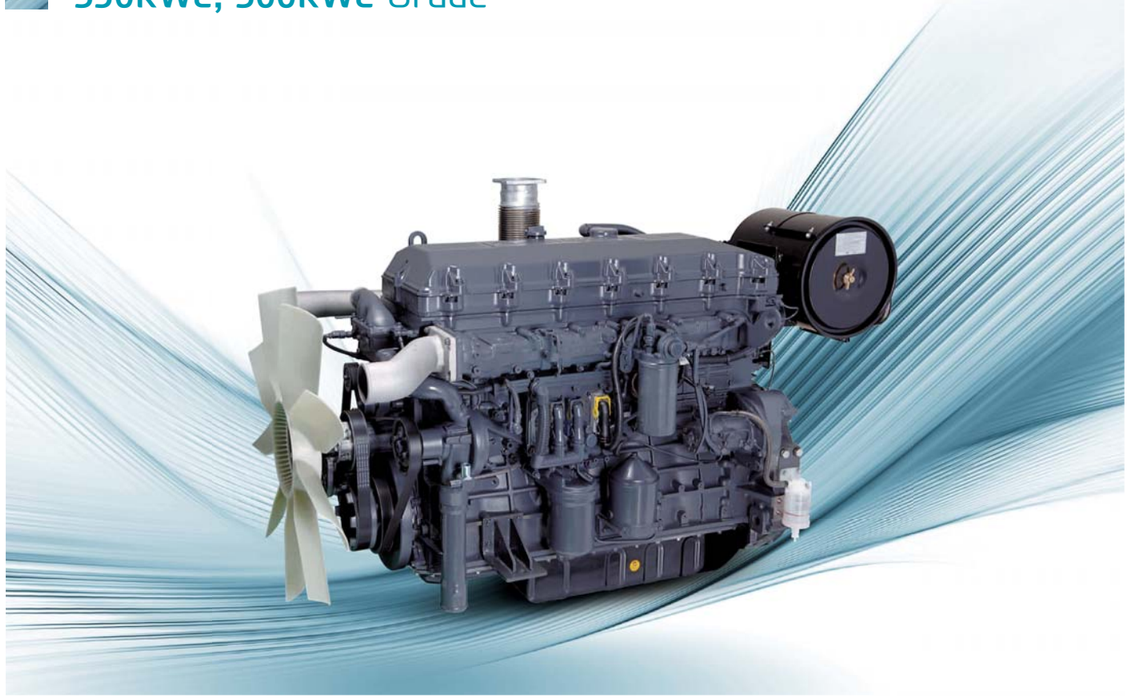
Engine model		D6AC-G(BB17)	
Engine type		4 Cycle, water cooled	
Injection type		Direct injection	
No. of cyl. And configuration		6-in line	
Aspiration		T.C.I	
Displacement (cc)		11,149	
Bore × stroke (mm)		130 × 140	
Compression ratio		16.5 : 1	
Dry weight (kg)		1,050	
Dimension	Length (mm)	1,588	
	Width (mm)	1,033	
	Height (mm)	1,613	
rpm		1,500	1,800
Stand-by power	PS	320	350
	kW	235	257
Prime power	PS	288	315
	kW	219	232
Governor		Electric	
Flywheel		SAE #14	
Flywheel housing		SAE #1	
Alternator		24V - 70A	
Starting motor		24V - 5.5kW	

General View of Engine



D6CC-G1,G2

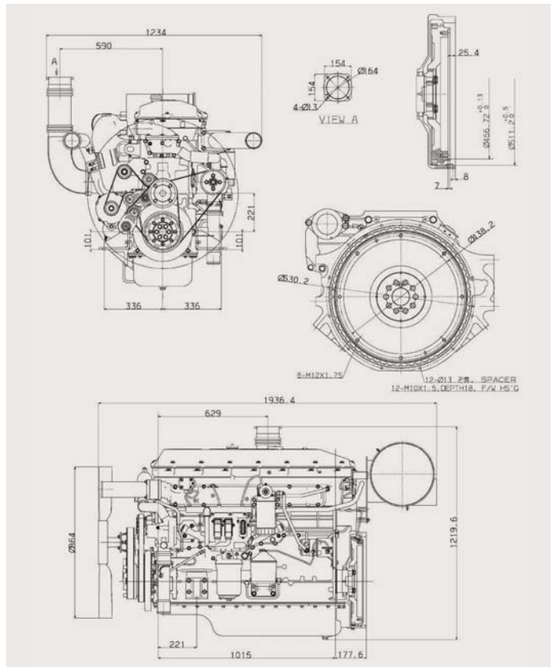
350kWe, 300kWe Grade



Specifications

Engine model		D6CC-G1(EH9G)		D6CC-G2(EH7G)	
Engine type		4 Cycle, water cooled			
Injection type		Direct injection			
No. of cyl. And configuration		6-in line			
Aspiration		T.C.I			
Displacement (cc)		12,344			
Bore × stroke (mm)		130 × 155			
Compression ratio		17.2 : 1			
Dry weight (kg)		1,210			
Dimension	Length (mm)	1,936			
	Width (mm)	1,234			
	Height (mm)	1,219			
rpm		1,500	1,800	1,500	1,800
Stand-by power	PS	450	530	400	460
	kW	331	390	294	338
Prime power	PS	405	477	400	460
	kW	298	351	294	338
Governor		ECU			
Flywheel		SAE #14			
Flywheel housing		SAE #1			
Alternator		24V - 80A			
Starting motor		24V - 6.0kW			

General View of Engine



Generator Engine

Engine model	D4BB-G1	D4BB-G2	D4BB-G4	D4BB-G5	D4AF-G	D4AK-G	D4DA-G
Engine code	AG31	AG39	AG41	AG49	EM68	EM69	EM2D
General							
Fuel	Diesel				Diesel		
Injection type	Indirect injection				Direct injection		
No. of cyl. And configuration	4-in line				4-in line		
Aspiration	N.A			T.C	N.A	T.C	T.C
Displacement (cc)	2,607				3,568	3,298	3,907
Bore x Stroke (mm)	91.1 x 100				104 x 105	100 x 105	104 x 115
Compression ratio	22 : 1				17.5 : 1	16 : 1	16.5 : 1
Dry weight (kg)	210			215	324	334	360
Dimension (mm) Length	883			800	901	901	897
Dimension (mm) Width	631			604	678	656	673
Dimension (mm) Height	806			844	1,021	1,071	1,082
Performance							
rpm	1,800	1,800	1,500	1,800	1,500	1,800	1,500	1,800	1,500	1,800
Stand-by power PS	28	45	26	53	50	60	60	82	85	107
Stand-by power kW	21	33	19	39	37	44	44	60	62	79
Prime power PS	26	41	23	48	45	54	54	74	75	95
Prime power kW	19	30	17	35	33	40	40	54	55	70
Lubrication system							
Oil capacity (ℓ)	5.4				8.5		
Oil filter	Paper element(cartridge) type				Paper element(cartridge) type		
Fuel system							
Governor	-				Paper element type		Electric
Fuel injection pump	Bosch VE type				Bosch PES4A type		
Fuel filter	Paper element type				Paper element type		
Standard equipment							
Flywheel	SAE #10				SAE #10		
Flywheel housing	SAE #4				SAE #4		
Air cleaner	Cyclone filter paper type				Cyclone filter paper type		
Alternator	12V - 65A				24V - 50A		24V - 40A
Starting motor	12V - 2.2kW				24V - 5.0kW		24V - 5.0kW
Technical data							
Heat rejection (kcal/h)	13,598	22,450	11,903	24,012	23,700	30,400	49,700
Intake air flow rate (㎥/min)	1.9	1.9	1.6	3.5	2.9	3.6	5.0
Exhaust gas flow rate (㎥/min)	5.4	5.4	4.5	5.4	8.5	10.5	16.0
Cooling water capacity (ℓ)	3.9				8.3	8.3	8.3
rpm	1,800	1,800	1,500	1,800	1,800	1,800	1,800
Fuel consumption (g/ps.h)	185.0	190.0	174.4	172.6	166.5	157.4	154.0
Application	Generator			Pump	Generator		

* Power is only for engine without cooling fan.

Engine model	D6AZ-G1	D6AZ-G2	D6AC-G	D6CC-G1	D6CC-G2
Engine code	EH1X	EH2X	BB17	EH9G	EH7G
General					
Fuel	Diesel			Diesel	
Injection type	Direct injection			Direct injection	
No. of cyl. And configuration	6-in line			6-in line	
Aspiration	T.C		T.C.I	T.C.I	
Displacement (cc)	11,149			12,344	
Bore x Stroke (mm)	130 x 140			130 x 155	
Compression ratio	16.5 : 1			17.2 : 1	
Dry weight (kg)	1,010		1,050	1,210	
Dimension (mm) Length	1,588		1,588	1,936	
Dimension (mm) Width	938		1,033	1,234	
Dimension (mm) Height	1,613		1,613	1,219	
Performance					
rpm	1,500	1,800	1,500	1,800	1,500	1,800	1,500	1,800	1,500	1,800
Stand-by power PS	270	309	235	260	320	350	450	530	400	460
Stand-by power kW	199	227	173	191	235	257	331	390	294	338
Prime power PS	243	278	212	234	288	315	405	477	400	460
Prime power kW	179	204	156	172	219	232	298	351	294	338
Lubrication system										
Oil capacity (ℓ)	24.0				28.0					
Oil filter	Paper element type with by-pass filter				Paper element type with by-pass filter					
Fuel system										
Governor	Electric	Bosch RSV type	Electric	ECU						
Fuel injection pump	Bosch PE6A type	Bosch PE6AD type	Bosch PE6P type	Electric unit injector						
Fuel filter	Paper element type			Paper element type						
Standard equipment										
Flywheel	SAE #14			SAE #14						
Flywheel housing	SAE #1			SAE #1						
Air cleaner	Cyclone filter paper type			Cyclone filter paper type						
Alternator	24V - 70A			24V - 80A						
Starting motor	24V - 5.5kW			24V - 6.0kW						
Technical data										
Heat rejection (kcal/h)	99,000	90,000	120,000	240,000	210,000					
Intake air flow rate (㎥/min)	14.0	14.0	17.2	29.5	24.2					
Exhaust gas flow rate (㎥/min)	41.5	38.4	50.4	62.5	52.1					
Cooling water capacity (ℓ)	24.0			42.0	42.0					
rpm	1,800	1,800	1,800	1,800	1,800					
Fuel consumption (g/ps.h)	162.5	154.0	152.6	149.0	148.0					
Application	Generator			Generator						

* Power is only for engine without cooling fan.