



บริษัท พลวัชรเครื่องยนต์ จำกัด
POLAWAT ENGINE CO., LTD.
THAILAND

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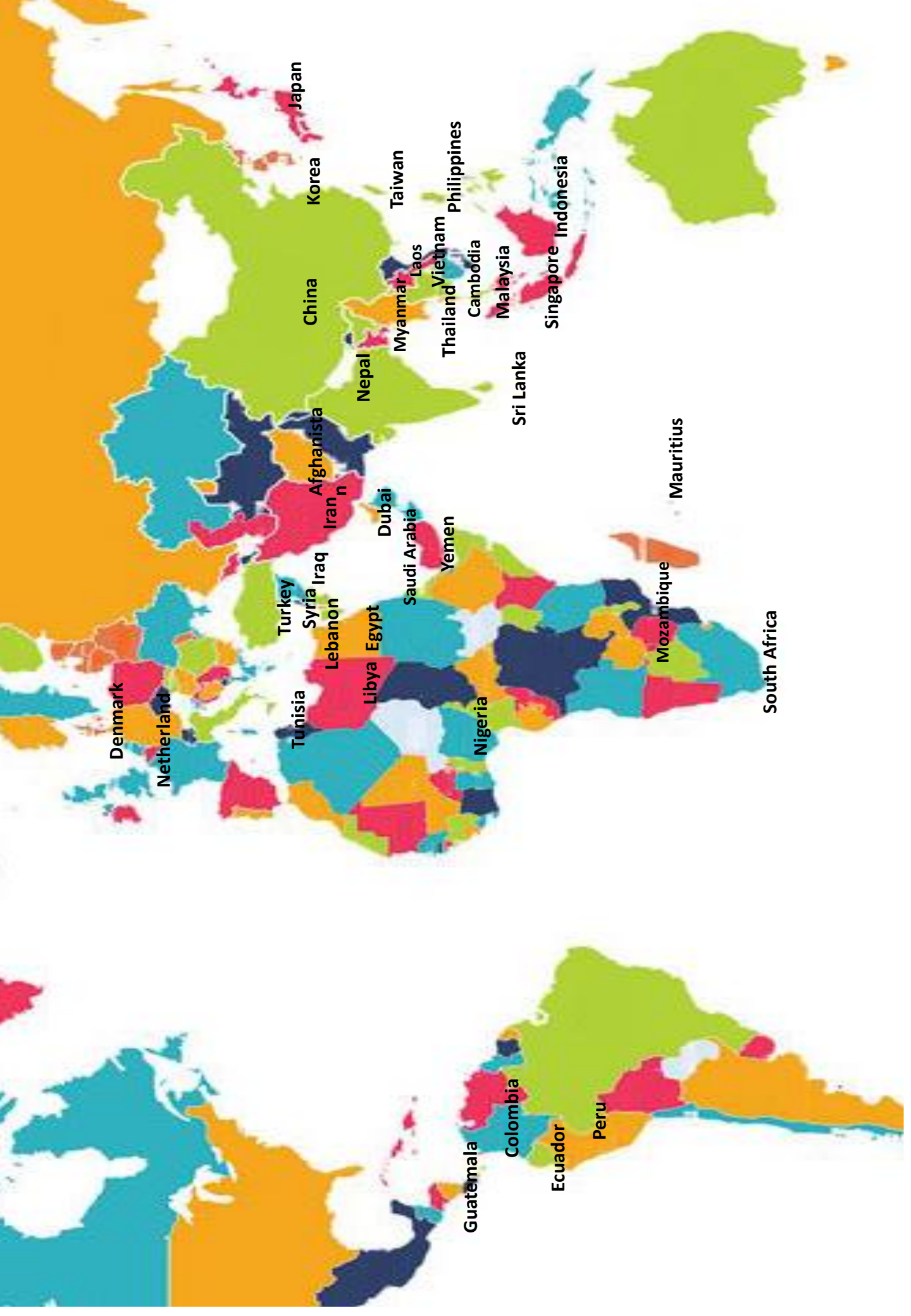
Website: www.polawatengine.co.th

Tel:+6621364247-9 Fax: +6621364246



BACKGROUND

- Established July 2006
- Capital investment 5,000,000 THB
- 50 Employee
- Production area 4,000 sqm
- Polawat Engine Co.,Ltd is Thai 100 percent shareholder.
- Top 3 biggest engine manufacturer in Thailand with annual volume of diesel engine 10,000 sets and gasoline engine 40,000 sets.
- Raw material sourcing from local and international.
- Manufacturing and quality guarantee based on Thailand Industrial Standard (TIS), Thailand Trust Mark(TTM).
- Certified ISO9001 (2015) International Quality standard
- Finish goods 100 Percent quality performance tested.
- Local and international customer worldwide(i.e. Afghanistan, Cambodia, Indonesia, Iran, Iraq, Japan, Laos, Lebanon, Malaysia, Myanmar, Nepal, Philippines, Saudi Arabia, Singapore, South Korea, Sri Lanka, Syria, Taiwan, United Arab Emirates, Vietnam, Yemen, Denmark, Netherlands, Colombia, Guatemala, Libya, Mauritius, Mozambique, Nigeria, Tunisia, Turkey, Egypt.)





CUSTOMER WORLDWIDE

Asia

Afghanistan

Cambodia

Indonesia

Iran

Iraq

Japan

Laos

Lebanon

Malaysia

Myanmar

Nepal

Philippines

Saudi Arabia

Singapore

South Korea

Sri Lanka

Syria

Taiwan

United Arab Emirates

Vietnam

Yemen

Africa

Libya

Mauritius

Mozambique

Nigeria

Tunisia

South Africa

Europe+Asia

Turkey

Africa+Asia

Egypt

Europe

Denmark

Netherlands

America

Colombia

Guatemala

Peru

Ecuador



CORE BUSINESS

- Diesel engine manufacturer
- Gasoline engine manufacturer
- Water pump
- Generator
- Power sprayer
- Brush cutter

CONTACT

Mr. Pravate Kijpaisalratana (Managing Director)

Email: polawatengine@gmail.com

Website: www.polawatengine.co.th

Tel: +6621364247-9

Fax: +6621364246

Address: 46/88 Moo 23, Bangpleeyai, Bangplee,
Samutprakarn 10540, Thailand



CERTIFICATE

ISO 9001 : 2015



Certificate TH13/7366

The management system of

Polawat Engine Co., Ltd.

46/88 Moo 23, Bang Phli Yai,
Bang Phli, Samutprakan 10540, Thailand

has been assessed and certified as meeting the requirements of


ISO 9001:2015

For the following activities

Manufacturer of Multi-Purpose Engine under 20 HP for Agriculture

This certificate is valid from 4 November 2019 until 4 November 2022 and remains valid subject to satisfactory surveillance audits. Recertification audit due a minimum of 60 days before the expiration date. Issue 4, Certified since 4 November 2013

Authorized by





SGS United Kingdom Ltd
Rossmore Business Park, Ellesmere Port, Cheshire, CH65 3EN, UK
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HC: SGS 9001 2015 0818


Page 1 of 1







0005

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CERTIFICATE

Made in Thailand

Certificate No.
IDQ-5112



THAILAND
TRUSTED QUALITY

This is to certify that

POLAWAT ENGINE CO., LTD.

has been selected and approved to use

THAILAND TRUST MARK

given on 31st August 2012

by



N. Sakuntanaga
Mrs. Nuntawan Sakuntanaga
Director General
Department of International Trade Promotion



Ministry of Commerce



CERTIFICATE

Industrial Standard

(Translation)

Form Mor Aor. 4

License No. (2) Thor 4294-20/787

(Official Emblem)

License

made industrial products required by a Royal Decree to conform with standards

under the Act on Industrial Product Standards B.E. 2511(1968)

Board of Directors of the Industrial Product Standards

issue this license to

Pollawatchara Engine Company Limited

made industrial products Small diesel engine with water cooling

following to details of attached license

correctly made with the Industrial Product Standard Small diesel engine with water cooling

No. Mor Aor Kor. 787-2531

the trademark -

made in factory name Pollawatchara Engine Company Limited

located at Building No. 888/55 Lane / Soi Yingchareon

Road Bangplee-Tamrue Village No. 19 Sub-District Bangplee-yai District Bangplee

Province Samutprakarn Factory Registration No. Jor 3 - 65 - 10/49 Sor Por

In order that must follow the terms of license set by Board of Directors

Issued date May 25, 2009

(Signed) (Mr. Pairoj Sanyadaechakul)

(Mr. Pairoj Sanyadaechakul)

Secretariat of Industrial Standards

Office of Industrial Product Standards

Ministry of Industry

Tax ID No.

Licensee 3032268790

Warning

Licensee must follow the terms of license set by Board of Directors



CERTIFICATE

ENERGY SAVING



2017s



2018s



กระทรวงพลังงาน
MINISTRY OF ENERGY

CERTIFICATE



CE MARK



KHANAPHAT PERFECT GROUP CO., LTD
98/31 Moo3 T. Ladsawai, A. Lamtukka,
Pathum Thani 12150 Thailand.
Tel: +66 (0) 2997 3441, Fax: +66 (0) 2560 1067
http://www.khanaphatgroup.com
Email: customerservice@khanaphatgroup.com

Certificate of Conformity

Certificate Reference No.: C07052018-0012-001

Product	Water pump (Gasoline engine)
Name and address of applicant	Polawat Engine Co., Ltd. 46/88 Moo 23, Bangplee Yai, Bangplee, Samutprakarn 10540, Thailand
Name and address of manufacturer	Polawat Engine Co., Ltd. 46/88 Moo 23, Bangplee Yai, Bangplee, Samutprakarn 10540, Thailand
Name and address of production site	Polawat Engine Co., Ltd. 46/88 Moo 23, Bangplee Yai, Bangplee, Samutprakarn 10540, Thailand
Rating and principal characteristics	Append A, See page 2
Trade mark or identification mark (if any)	KAWAMA and PLATINUM
Model/type reference	Append A, See page 2
Additional information (if necessary)	N/A
A sample of the product was tested and found to be in conformity with	EN 1679-1: 1998 + A1: 2011 EN ISO 11102-1 EN ISO 11102-2: 1997 EN 60204-1:2006 + A1:2009 EN ISO 12100:2010;
The listed sample complies with the principal protection requirements of the provisions for CE marking according to the European directive	2006/42/EC Machinery (MD)
As shown in the Test Report Ref. No.	07052018-0012-001

Date
2018-07-16

Signature

Mr. Michael Larsen
Electrical & Electronic Manager



This certificate of conformity confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted and does not certify the quality or safety of the serial products.

After preparation of the necessary technical documentation as well as the conformity declaration, the required CE marking can be affixed on the product. Other relevant directives have to be observed.

CERTIFICATE



CE MARK



KHANAPHAT PERFECT GROUP CO., LTD
98/31 Moo3 T. Ladsawai, A. Lamukka,
Pathum Thani 12150 Thailand.
Tel: +66 (0) 2997 3441, Fax: +66 (0) 2560 1067
http://www.khanaphatgroup.com
Email: customerservice@khanaphatgroup.com

Certificate of Conformity

Certificate Reference No.: C07052018-0012-002

Product	Generator's
Name and address of applicant	Polawat Engine Co., Ltd. 46/88 Moo 23, Bangplee Yai, Bangplee, Samutprakam 10540, Thailand
Name and address of manufacturer	Polawat Engine Co., Ltd. 46/88 Moo 23, Bangplee Yai, Bangplee, Samutprakam 10540, Thailand
Name and address of production site	Polawat Engine Co., Ltd. 46/88 Moo 23, Bangplee Yai, Bangplee, Samutprakam 10540, Thailand
Rating and principal characteristics	Append A, See page 2
Trade mark or identification mark (if any)	KAWAMA , PLATINUM
Model/type reference	Append A, See page 2
Additional information (if necessary)	N/A
A sample of the product was tested and found to be in conformity with	ISO 8528-1: 2005 EN ISO 8528-13: 2016 EN 60204-1:2006 + A1:2009 EN ISO 12100:2010;
The listed sample complies with the principal protection requirements of the provisions for CE marking according to the European directive	2006/42/EC Machinery (MD)
As shown in the Test Report Ref. No.	07052018-0012-002

Date
2018-07-16

Signature

Mr. Michael Larsen
Electrical & Electronic Manager



This certificate of conformity confirms the compliance with the listed standards on a voluntary basis. It refers only to the sample submitted and does not certify the quality or safety of the serial products.

After preparation of the necessary technical documentation as well as the conformity declaration, the required CE marking can be affixed on the product. Other relevant directives have to be observed.

KAWAMA 80 NEW PLUS



ENGINE SPECIFICATIONS	KWM 80 PLUS	KWM 80 DI-PLUS
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled	
Bore x Stroke (mm. X mm.)	84 x 84	
Displacement Volume (cc.)	465	
Max. Power (hp./rpm)	8/2,400	8/2,400
Rated. Power (hp./rpm)	7/2,400	7/2,400
Specific Fuel Consumption (g / kw-hr)	≤258	≤238
Compression Ratio	23:1	18:1
Gap Valve (mm.)	0.160-0.200	
Max Torque (N-m/rpm)	28/1,600	
Capacity of Water Cooling (Liters)	1.6	
Capacity of Fuel (Liters)	10	
Capacity of Lubrication (Liters)	2.4	
Type of Fuel	Diesel	
Type of Lubrication	API CC , CD , CF SAE 40	
Type of Combustion Chamber	Indirect injection	Direct Injection
Type of Cooling	Radiator	
Type of Lubrication System	Trochoid Rotary Pump	
Air Cleaner	Wet Type (Oil bath type)	
Type of Starting	Double Speed Hand Starting / Electric Starter	
Dimension (W x L x H) (cm.)	44.5 x 84.5 x 62.5	
Net Weight (kg.) / Gross Weight (kg.)	90/95	
Container load (Units) / 20" FCL	96	

KAWAMA 110 NEW PLUS



ENGINE SPECIFICATIONS	KWM 110 NEW PLUS
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	92 x 90
Displacement Volume (cc.)	598
Max. Power (hp/rpm)	11/ 2,400
Rated. Power (hp/rpm)	10/ 2,400
Specific Fuel Consumption (g / kw-hr)	≤286
Compression Ratio	21:1
Gap Valve (mm.)	0.195-0.235
Max Torque N.m/rpm	38/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Indirect injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting / Electric Starter
Dimension (W x L x H) (cm.)	44.5 x 85.5 x 62.5
Net Weight (kg.) / Gross Weight (kg.)	110/117
Container load (Units) / 20" FCL	96

KAWAMA 120 NEW PLUS



ENGINE SPECIFICATIONS	KWM 120 NEW PLUS
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	94 x 90
Displacement Volume (cc.)	624
Max. Power (hp/rpm)	12/ 2,400
Rated. Power (hp/rpm)	10.3/2,400
Specific Fuel Consumption (g / kw-hr)	≤286
Compression Ratio	21:1
Gap Valve (mm.)	1.95-0.235
Max Torque N.m/rpm	40/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Indirect injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting / Electric Starter
Dimension (W x L x H) (cm.)	44.5 x 85.5 x 62.5
Net Weight (kg.)	110/117
Container load (Units) / 20" FCL	96

KAWAMA 140 NEW PLUS



ENGINE SPECIFICATIONS	KWM140 NEW PLUS
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	97 x 96
Displacement Volume (cc.)	709
Max. Power (hp./rpm)	14/2,400
Rated. Power (hp./rpm)	12.3/2,400
Specific Fuel Consumption (g / kw-hr)	≤257
Compression Ratio	18:1
Gap Valve (mm.)	0.195-0.235
Max Torque (N-m/rpm)	50/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Direct injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting / Electric Starter
Dimension (W x L x H) (cm.)	44 x 89 x 62.5
Net Weight (kg.) / Gross Weight (kg.)	114/120
Container load (Units) / 20" FCL	96

KAWAMA 155 NEW PLUS



ENGINE SPECIFICATIONS	KWM 155 NEW PLUS
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	100 x 98
Displacement Volume (cc.)	769
Max. Power (hp./rpm)	15.5/2400
Rated. Power (hp./rpm)	13.5/2400
Specific Fuel Consumption (g / kw-hr)	≤236
Compression Ratio	18:1
Gap Valve (mm.)	0.195-0.235
Max Torque (N-m/rpm)	53/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Direct injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting / Electric Starter
Dimension (W x L x H) (cm.)	44 x 89 x 62.5
Net Weight (kg.) / Gross Weight (kg.)	114/120
Container load (Units) / 20" FCL	96

KAWAMA 95 PLUS



ENGINE SPECIFICATIONS	KWM 95 PLUS
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	86 x 90
Displacement Volume (cc.)	522
Max. Power (hp./rpm)	9.5/ 2,400
Rated. Power (hp./rpm)	8.5/ 2,400
Specific Fuel Consumption (g / kw-hr)	≤258
Compression Ratio	21:1
Gap Valve (mm.)	0.195-0.235
Max Torque (N-m/rpm)	31/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Indirect injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting / Electric Starter
Dimension (W x L x H) (cm.)	44.5 x 85.5 x 62.5
Net Weight (kg.) / Gross Weight (kg.)	108/115
Container load (Units) / 20" FCL	96

KAWAMA 110 PLUS



ENGINE SPECIFICATIONS	KWM 110 PLUS
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	92 x 90
Displacement Volume (cc.)	598
Max. Power (hp./rpm)	11/ 2,400
Rated. Power (hp./rpm)	10/ 2,400
Specific Fuel Consumption (g / kw-hr)	≤258
Compression Ratio	21:1
Gap Valve (mm.)	0.195-0.235
Max Torque (N-m/rpm)	38/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Indirect injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting / Electric Starter
Dimension (W x L x H) (cm.)	44.5 x 85.5 x 62.5
Net Weight (kg.) / Gross Weight (kg.)	110/117
Container load (Units) / 20" FCL	96

KAWAMA 120 PLUS



ENGINE SPECIFICATIONS	KWM 120PLUS
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	94 x 90
Displacement Volume (cc.)	624
Max. Power (hp./rpm)	12/2,400
Rated. Power (hp./rpm)	11.4/2,400
Specific Fuel Consumption (g / kw-hr)	≤286
Compression Ratio	21:1
Gap Valve (mm.)	1.95-0.235
Max Torque (N-m/rpm)	40/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Indirect injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting / Electric Starter
Dimension (W x L x H) (cm.)	44.5 x 85.5 x 62.5
Net Weight (kg.) / Gross Weight (kg.)	110/117
Container load (Units) / 20" FCL	96

KAWAMA 140 PLUS



ENGINE SPECIFICATIONS	KWM140-PLUS
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	97 x 96
Displacement Volume (cc.)	709
Max. Power (hp./rpm)	14/2,400
Rated. Power (hp./rpm)	12.5/2,400
Specific Fuel Consumption (g / kw-hr)	≤257
Compression Ratio	18:1
Gap Valve (mm.)	0.195-0.235
Max Torque (N-m/rpm)	50/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Direct injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting / Electric Starter
Dimension (W x L x H) (cm.)	44 x 89 x 62.5
Net Weight (kg.) / Gross Weight (kg.)	114/120
Container load (Units) / 20" FCL	96

KAWAMA 95



ENGINE SPECIFICATIONS	KWM 95
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	86 x 90
Displacement Volume (cc.)	522
Max. Power (hp./rpm)	9.5/ 2,400
Rated. Power (hp./rpm)	8.3/ 2,400
Specific Fuel Consumption (g / kw-hr)	≤286
Compression Ratio	21:1
Gap Valve (mm.)	0.195-0.235
Max Torque (N-m/rpm)	31/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Indirect injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting
Dimension (W x L x H) (cm.)	44.5 x 85.5 x 62.5
Net Weight (kg.) / Gross Weight (kg.)	108/115
Container load (Units) / 20" FCL	96

KAWAMA 110



ENGINE SPECIFICATIONS	KWM 110
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	92 x 90
Displacement Volume (cc.)	598
Max. Power (hp./rpm)	11/ 2,400
Rated. Power (hp./rpm)	10/ 2,400
Specific Fuel Consumption (g / kw-hr), (g/hp-hr)	≤286
Compression Ratio	21:1
Gap Valve (mm.)	0.195-0.235
Max. Torque (N-m/rpm)	38/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Indirect injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting
Dimension (W x L x H) (cm.)	44.5 x 85.5 x 62.5
Net Weight (kg.) / Gross Weight (kg.)	110/117
Container load (Units) / 20" FCL	96

KAWAMA 173F/(FE)



Diesel Engine



ENGINE SPECIFICATIONS	KWM 170F/(FE)
Type Engine	Single Cylinder , vertical , 4 stroke , air cooled
Combustion system	Direct injection
Bore x Stroke (mm. X mm.)	73x 58
Displacement Volume (cc.)	243
Max. Power (kW/hp/rpm)	3.8/5.2 /3,000 4.05/5.5 /3,600
Rated. Power (kW/hp/rpm)	3.5/4.8 /3,000 3.8/5.2 /3,600
Max. Torque (N-m/rpm)	12.8/2,800
Compression Ratio	20:1
Specific Fuel Consumption (g/kw-hr)	280
Capacity of Fuel (Liters)	2.5
Capacity of Lubrication (Liters)	0.75
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Recoil Starter & Optional electric start
Dimension (W x L x H) (cm.)	38 x 42 x 46
Net Weight (kg)	F : 27/ FE 30
Container load (Units) / 20" FCL	375

KAWAMA 178F/ (FE)



Diesel Engine



ENGINE SPECIFICATIONS	KWM 178F/ (FE)
Type Engine	Single Cylinder , vertical , 4 stroke , air cooled , direct injection
Combustion system	Direct injection
Bore x Stroke (mm. X mm.)	78 x 62
Displacement Volume (cc.)	296
Max. Power (kW/hp/rpm)	4.0/5.36/3,000 4.9/6.6/3,600
Rated. Power (kW/hp/rpm)	3.8/5.10/3,000 4.4/5.9/3,600
Compression Ratio	20:1
Specific Fuel Consumption (g/kw-hr)	280
Capacity of Fuel (Liters)	3.5
Capacity of Lubrication (Liters)	1.1
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Recoil Starter & Optional electric start
Dimension (W x L x H) (cm.)	42 x 46 x 52
Net Weight (kg)	F : 33 / FE : 38
Container load (Units) / 20" FCL	260

KAWAMA 186FA/ (FAE)



Diesel Engine



ENGINE SPECIFICATIONS	KWM 186FA/ FAE
Type Engine	Single Cylinder , vertical , 4 stroke , air cooled , direct injection
Combustion system	Direct injection
Bore x Stroke (mm. X mm.)	86 x 72
Displacement Volume (cc.)	418
Max. Power (kW/hp/rpm)	6.3/8.6 /3,000 7.3/9.9 /3,600
Rated. Power (kW/hp/rpm)	5.7/7.8 /3,000 6.6/8.9 /3,600
Max. Torque (N-m/rpm)	22.5/2,800
Compression Ratio	19.5:1
Specific Fuel Consumption (g/kw-hr)	280
Capacity of Fuel (Liters)	5.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Recoil Starter & Optional electric start
Dimension (W x L x H) (cm.)	45.5 x 52 x 55
Net Weight (kg)	FA: 48 / FAE :53
Container load (Units) / 20" FCL	220

KAWAMA 188FB/(FBE)



Diesel Engine



ENGINE SPECIFICATIONS	KWM 188F/ (FBE)
Type Engine	Single Cylinder , vertical , 4 stroke , air cooled , direct injection
Combustion system	Direct injection
Bore x Stroke (mm. X mm.)	88 x 75
Displacement Volume (cc.)	456
Max. Power (kW/hp/rpm)	6.83/9.2 /3,000 8.2/11 .0 /3,600
Rated. Power (kW/hp/rpm)	6.1/8.2 /3,000 7.3/9.8 /3,600
Compression Ratio	20:1
Specific Fuel Consumption (g/kw-hr)	280
Capacity of Fuel (Liters)	5.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Recoil Starter & Optional electric start
Dimension (W x L x H) (cm.)	45.5 x 52 x 55
Net Weight (kg)	FB : 48 / FBE : 50
Container load (Units) / 20" FCL	220

KAWAMA 192F/ (FE)



Diesel Engine



ENGINE SPECIFICATIONS	KWM 192F/ (FE)
Type Engine	Single Cylinder , vertical , 4 stroke , air cooled , direct injection
Combustion system	Direct injection
Bore x Stroke (mm. X mm.)	92 x 75
Displacement Volume (cc.)	498
Max. Power (kW/hp/rpm)	8.0/10.9 /3,000 9.0/12.2 /3,600
Rated. Power (kW/hp/rpm)	7.5/10.2 /3,000 8.5/11.5 /3,600
Compression Ratio	20:1
Specific Fuel Consumption (g/kw-hr)	280
Capacity of Fuel (Liters)	5.5
Capacity of Lubrication (Liters)	1.8
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Recoil Starter & Optional electric start
Dimension (W x L x H) (cm.)	45.5x 52 x 55
Net / Gross Weight (kg)	50/55
Container load (Units) / 20" FCL	220

KAWAMA 198F/ (FE)



Diesel Engine



ENGINE SPECIFICATIONS	KWM 198F/ (FE)
Type Engine	Single Cylinder , vertical , 4 stroke , air cooled , direct injection
Combustion system	Direct injection
Bore x Stroke (mm. X mm.)	98 x 84
Displacement Volume (cc.)	633
Max. Power (kW/hp/rpm)	13.4/18 /3,600
Rated. Power (kW/hp/rpm)	11.2/15 /3,000
Compression Ratio	20:1
Specific Fuel Consumption (g/kw-hr)	280-300
Capacity of Fuel (Liters)	5.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Recoil Starter & Optional electric start
Dimension (W x L x H) (cm.)	64 x 51 x 51
Net / Gross Weight (kg)	56
Container load (Units) / 20" FCL	215

KAWAMA 1100FE



Diesel Engine



ENGINE SPECIFICATIONS	KWM 1000FE
Type Engine	Single Cylinder , vertical , 4 stroke , air cooled , direct injection
Combustion system	Direct injection
Bore x Stroke (mm. X mm.)	100 x 85
Displacement Volume (cc.)	668
Max. Power (kW/hp/rpm)	14.17/19 /3,600
Rated. Power (kW/hp/rpm)	11.4/15.2 /3,000
Compression Ratio	20:1
Specific Fuel Consumption (g/kw-hr)	280-300
Capacity of Fuel (Liters)	6.5
Capacity of Lubrication (Liters)	2.1
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	electric start
Dimension (W x L x H) (cm.)	64 x 51 x 51
Net / Gross Weight (kg)	62
Container load (Units) / 20" FCL	215

KAWAMA 3.5D



Diesel Engine



ENGINE SPECIFICATIONS	KWM 3.5D
Type Engine	Single Cylinder , 4 Stroke , Air Cooled diesel engine
Bore x Stroke (mm. X mm.)	68 x 54
Displacement Volume (cc.)	196
Max. Power (hp/rpm)	3.5/3600
Rated. Power (hp/rpm)	2.8/3600
Compression Ratio	22:1
Specific Fuel Consumption (g/kw-hr)	≤ 280
Capacity of Fuel (Liters)	3
Capacity of Lubrication (Liters)	0.7
Type of Fuel	Diesel
Type of Lubrication	API CD – CF SAE 40
Type of Consumption Chamber	Swirl Chamber
Lubrication System	Splash
Type of Cooling	Air Cooled
Air Cleaner	Wet Type (Oil bath type)
Start System	Recoil Starter
Dimension (W x L x H) (cm.)	39 x 49 x 38.5
Net Weight (kg)	20
Container load (Units) / 20" FCL	384

KAWAMA 55

New Design



ENGINE SPECIFICATIONS	KWM 55 NEW MODEL
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	68 x 45
Displacement Volume (cc.)	163
Max. Power (hp/rpm)	5.5/3,600
Rated. Power (hp/rpm)	4.4/3,600
Compression Ratio	8.5:1
Specific fuel Consumption (g/kw-hr)	≤ 374
Gap Valve (mm.)	0.1
Max. Torque (N-m/rpm)	10/2,500
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	36 x 39 x 37
Net / Gross Weight (kg)	15/17
Container load (Units) / 20" FCL	522

KAWAMA 55-R



New Design



ENGINE SPECIFICATIONS	KWM 55-R
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	68 x 45
Displacement Volume (cc.)	163
Max. Power (hp/rpm)	5.5/1,800
Rated. Power (hp/rpm)	4.4/1,800
Compression Ratio	8.5:1
Specific fuel Consumption (g/kw-hr)	≤ 374
Gap Valve (mm.)	0.1
Max. Torque (N-m/rpm)	10/1250
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	36 x 39 x 37
Net / Gross Weight (kg)	17/19
Container load (Units) / 20" FCL	564

KAWAMA 65

New Design

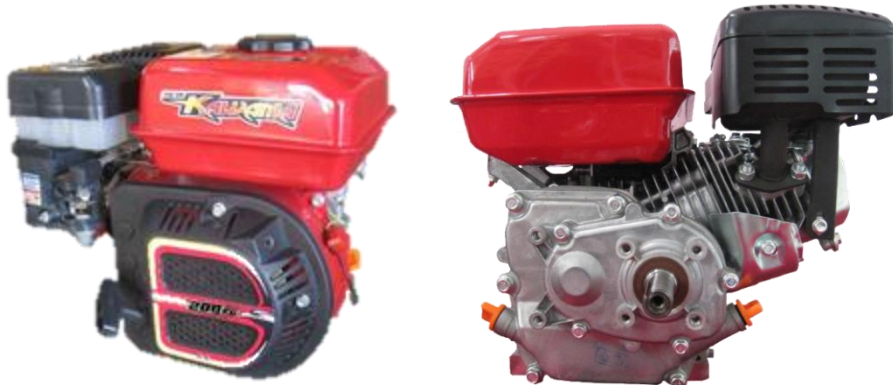


ENGINE SPECIFICATIONS	KWM 65
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	68 x 54
Displacement Volume (cc.)	196
Max. Power (hp/rpm)	6.5/3,600
Rated. Power (hp/rpm)	5.2/3,600
Compression Ratio	8.5:1
Specific fuel Consumption (g/kw-hr)	≤ 374
Gap Valve (mm.)	0.1
Max. Torque (N-m/rpm)	12.5/2,500
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	36 x 39 x 37
Net / Gross Weight (kg)	15/17
Container load (Units) / 20" FCL	522

KAWAMA 65-R



New Design



ENGINE SPECIFICATIONS	KWM 65-R
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	68 x 54
Displacement Volume (cc.)	196
Max. Power (hp/rpm)	6.5/1,800
Rated. Power (hp/rpm)	5.2/1,800
Compression Ratio	8.5:1
Specific fuel Consumption (g/kw-hr)	≤ 374
Gap Valve (mm.)	0.1
Max. Torque (N-m/rpm)	12.5/1250
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	36 x 39 x 37
Net / Gross Weight (kg)	17/19
Container load (Units) / 20" FCL	564

KAWAMA 75



New Design



ENGINE SPECIFICATIONS	KWM 75
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	70 x 54
Displacement Volume (cc.)	208
Max. Power (hp/rpm)	7.5/3,600
Rated. Power (hp/rpm)	5.8/3,600
Compression Ratio	8.2:1
Specific fuel Consumption (g/kw-hr)	≤ 374
Gap Valve (mm.)	0.12
Max. Torque (N-m/rpm)	13.5/2500
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	36 x 39 x 37
Net / Gross Weight (kg)	15/17
Container load (Units) / 20" FCL	522

KAWAMA 75-R



New Design



ENGINE SPECIFICATIONS	KWM 75-R
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	70 x 54
Displacement Volume (cc.)	208
Max. Power (hp/rpm)	7.5/1,800
Rated. Power (hp/rpm)	5.8/1,800
Compression Ratio	8.2:1
Specific fuel Consumption (g/kw-hr)	≤ 374
Gap Valve (mm.)	0.12
Max. Torque (N-m/rpm)	13.5/1250
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	36.5 x 42 x 38
Net / Gross Weight (kg)	17/19
Container load (Units) / 20" FCL	564

KAWAMA 65 PLUS



ENGINE SPECIFICATIONS	KWM 65 PLUS
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	68 x 54
Displacement Volume (cc.)	196
Max. Power (hp/rpm)	6.5/3,600
Rated. Power (hp/rpm)	5.3/3,600
Compression Ratio	8.5:1
Specific fuel Consumption (g/kw-hr)	≤374
Gap Valve (mm.)	0.1
Max. Torque (N-m/rpm)	11.7/2500
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	42.5 x 49.7 x 48
Net Weight (kg)	16.3
Container load (Units) / 20" FCL	236

KAWAMA 390 PLUS



ENGINE SPECIFICATIONS	KWM 390 PLUS
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	88 x 64
Displacement Volume (cc.)	389
Max. Power (hp/rpm)	13/3,600
Rated. Power (hp/rpm)	10.9/3,600
Compression Ratio	8.5:1
Specific fuel Consumption (g/kw-hr)	≤374
Gap Valve (mm.)	0.1
Max. Torque (N-m/rpm)	26.0/2500
Capacity of Fuel (Liters)	6.5
Capacity of Lubrication (Liters)	1.1
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	42.5 X 49.7 X 49
Net Weight (kg)	27
Container load (Units) / 20" FCL	236

KAWAMA 420 PLUS



ENGINE SPECIFICATIONS	KWM 420 PLUS
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	90 x 66
Displacement Volume (cc.)	420
Max. Power (hp/rpm)	15/3,600
Rated. Power (hp/rpm)	12.3/3,600
Compression Ratio	8.5:1
Specific fuel Consumption (g/kw-hr)	≤370
Gap Valve (mm.)	0.1
Max. Torque (N-m/rpm)	28.0/2500
Capacity of Fuel (Liters)	6.5
Capacity of Lubrication (Liters)	1.1
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	42.5 X 49.7 X 49
Net Weight (kg)	27
Container load (Units) / 20" FCL	236

KAWAMA 460 PLUS



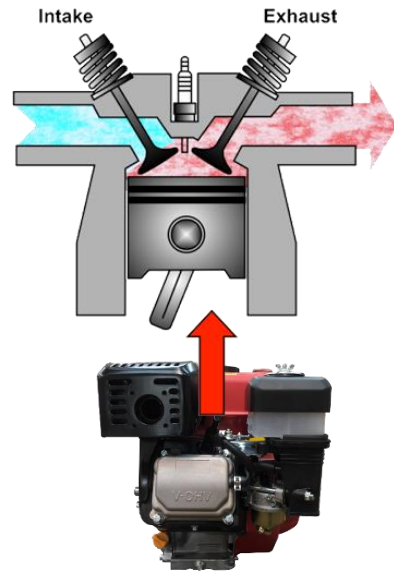
ENGINE SPECIFICATIONS	KWM 460 PLUS
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	92 x 69
Displacement Volume (cc.)	459
Max. Power (hp/rpm)	16/3,600
Rated. Power (hp/rpm)	12.7/3,600
Compression Ratio	8.5:1
Specific fuel Consumption (g/kw-hr)	≤370
Gap Valve (mm.)	0.1
Max. Torque (N-m/rpm)	29.0/2500
Capacity of Fuel (Liters)	6.5
Capacity of Lubrication (Liters)	1.1
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	42.5 X 49.7 X 49
Net Weight (kg)	30
Container load (Units) / 20" FCL	236

KAWAMA 6.5 HP



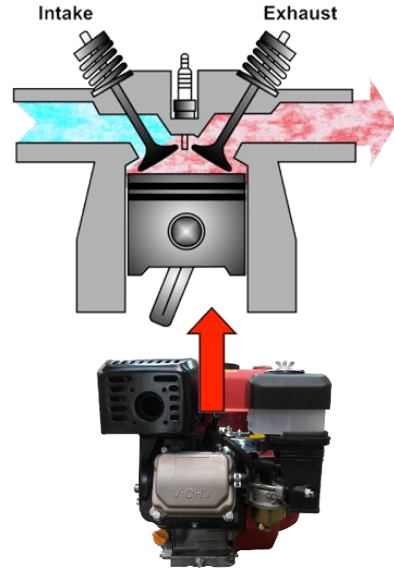
ENGINE SPECIFICATIONS	KWM 6.5 HP
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	68 x 54
Displacement Volume (cc.)	196
Max. Horse Power (hp./rpm)	6.5/3,600
Max. Power (kw./rpm)	4.1/3,600
Compression Ratio	8.5:1
Specific fuel Consumption (g/hp-hr)	230
Gap Valve (mm.)	0.2
Max. Torque (N-m/rpm)	12.4/2,500
Capacity of Fuel (Liters)	3.1
Capacity of Lubrication (Liters)	0.6
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	37 X 40 X 38
Net Weight (kg)	16
Container load (Units) / 20" FCL	522

KAWAMA 8.0 LIMITED V-VALVE



ENGINE SPECIFICATIONS	KWM 8.0 LIMITED V-VALVE
Type Engine	Single Cylinder , 4 Stroke , (V-OHV)
Bore x Stroke (mm. X mm.)	70 x 58
Displacement Volume (cc.)	223
Max. Power (hp/rpm)	8/3,600
Rated. Power (hp/rpm)	6.7/3,600
Compression Ratio	8.5:1
Specific fuel Consumption (g/kw-hr)	≤374
Gap Valve (mm.)	0.1
Max. Torque (N-m/rpm)	12.5/2500
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	36.5 X 42 X 39.5
Net Weight (kg)	16.3
Container load (Units) / 20" FCL	400

KAWAMA 10.0 LIMITED V-VALVE



ENGINE SPECIFICATIONS	KWM 10.0 LIMITED V-VALVE
Type Engine	Single Cylinder , 4 Stroke , (V-OHV)
Bore x Stroke (mm. X mm.)	82 x 61
Displacement Volume (cc.)	317
Max. Power (hp/rpm)	10/3,600
Rated. Power (hp/rpm)	9.5/3,600
Compression Ratio	8.5:1
Specific fuel Consumption (g/kw-hr)	≤374
Gap Valve (mm.)	0.1
Max. Torque (N-m/rpm)	23.0/2500
Capacity of Fuel (Liters)	5.5
Capacity of Lubrication (Liters)	0.9
Start System	Recoil Starter
Cooling System	Air Cooled
Air Cleaner	Oil Bath Type
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Dimension (W x L x H) (cm.)	42 X 44 X 45
Net Weight (kg)	23.0
Container load (Units) / 20" FCL	325

KAWAMA

690 V-Twin cylinder



Engine Specific	690 V-Twin cylinder
Engine Type	V-Twin cylinder, 4-stroke(OHV)
Bore X Stroke	78 X 72 mm
Displacement	688 ml
Compression ratio	8.5:1
Max Power	23.32 hp / 3600prm
Max torque	42N.m / 2500rpm
PTO Shaft rotation	Counterclockwise (horizontal shaft output)
Ignition system	Transistorized magneto ignition
Staring system	Electric starter
Carburetor	Flat suction valve carburetor
Lubrication system	Pressure / Forced splash
Governor system	Centrifugal mechanical
Air cleaner	Dual elements(paper or foam)
Oil capacity	1.5 L
Dimensions (L x W x H)	51 x 40 x 56.5 cm.
Net weight	42 kg
Fuel consumption	≤360 g/kw*h
Container load (Units) / 20" FCL	240

KAWAMA

750 V-Twin cylinder



Engine Specific	750 V-Twin cylinder
Engine Type	V-Twin cylinder, 4-stroke(OHV)
Bore X Stroke	80 X 74 mm
Displacement	744 ml
Compression ratio	8.8:1
Max Power	26.54 hp / 3600prm
Max torque	48N.m / 2500rpm
PTO Shaft rotation	Counterclockwise (horizontal shaft output)
Ignition system	Transistorized magneto ignition
Staring system	Electric starter
Carburetor	Flat suction valve carburetor
Lubrication system	Pressure / Forced splash
Governor system	Centrifugal mechanical
Air cleaner	Dual elements(paper or foam)
Oil capacity	1.5 L
Dimensions (L x W x H)	54 x 54 x 50 cm.
Net weight	42 kg
Fuel consumption	≤360 g/kw*h
Container load (Units) / 20" FCL	160

KAWAMA

1000 V-Twin cylinder



Engine Specific	1000 V-Twin cylinder
Engine Type	V-Twin cylinder, 4-stroke(OHV)
Bore X Stroke	90 X 78.5 mm
Displacement	999 ml
Compression ratio	8.8:1
Max Power	38.6 hp / 3600prm
Max torque	70N.m / 2500rpm
PTO Shaft rotation	Counterclockwise (horizontal shaft output)
Ignition system	Transistorized magneto ignition
Starting system	Electric starter
Carburetor	Flat suction valve carburetor
Lubrication system	Pressure / Forced splash
Governor system	Centrifugal mechanical
Air cleaner	Dual elements(paper or foam)
Oil capacity	1.5 L
Dimensions (L x W x H)	61 x 61.5 x 62 cm.
Net weight	45 kg
Fuel consumption	≤374 g/kw*h
Container load (Units) / 20" FCL	81

KAWAMA 55 -PE50



WATER PUMP

New Design



ENGINE SPECIFICATIONS	KWM 55-PE 50
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	68 x 45
Displacement Volume (cc.)	163
Compression Ratio	8.5:1
Gap Valve (mm.)	0.20
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
In Water Pipe Dia. (mm.) / inch	50 / 2
Out Water Pipe Dia. (mm.) / inch	50 / 2
Max Volume of Water (Liters/min)	650
Total head (m.)	32
Suction Distance (m)	8
Dimension (W x L x H) (cm.)	38.5 x 48 x 39.5
Net / Gross Weight (kg)	23/25
Container load (Units) / 20" FCL	325

KAWAMA 65 –PE80



WATER PUMP

New Design



ENGINE SPECIFICATIONS	KWM 65-PE80
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	68 x 54
Displacement Volume (cc.)	196
Compression Ratio	8.5:1
Gap Valve (mm.)	0.1
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
In Water Pipe Dia. (mm.) / inch	80 / 3
Out Water Pipe Dia. (mm.) / inch	80 / 3
Max Volume of Water (Liters/min)	1250
Total head (m.)	28
Suction Distance (m)	8
Dimension (W x L x H) (cm.)	44 x 56 x 45.5
Net / Gross Weight (kg)	25/27
Container load (Units) / 20" FCL	260

KAWAMA 75 -PE50



WATER PUMP

New Design



ENGINE SPECIFICATIONS	KWM 75-PE50
Type Engine	Single Cylinder,4-stroke,Air Cool Engine
Bore x Stroke (mm. X mm.)	70 x 54
Displacement Volume (cc.)	208
Compression Ratio	8.2:1
Gap Valve (mm.)	0.10
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
In Water Pipe Dia.(mm.)	50
Out Water Pipe Dia. (mm.)	50
Max Volume of Water (Liters/min)	655
Total head (m.)	32
Suction Distance (m)	8
Dimension (W x L x H) (cm.)	38.5 x 48 x 39.5
Net / Gross Weight (kg)	23/25
Container load (Units) / 20" FCL	325

KAWAMA 75 –PE80



WATER PUMP

New Design



ENGINE SPECIFICATIONS	KWM 75-PE80
Type Engine	Single Cylinder,4-stroke,Air Cool Engine
Bore x Stroke (mm. X mm.)	70 x 54
Displacement Volume (cc.)	208
Compression Ratio	8.2:1
Gap Valve (mm.)	0.10
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
In Water Pipe Dia. (mm.)	80
Out Water Pipe Dia. (mm.)	80
Max Volume of Water (Liters/min)	1250
Total head (m.)	31
Suction Distance (m)	8
Dimension (W x L x H) (cm.)	44 x 56 x 45.5
Net / Gross Weight (kg)	25/27
Container load (Units) / 20" FCL	260

KAWAMA 75-PE50



HIGH PRESSURE

New Design



ENGINE SPECIFICATIONS	KWM 75-PE50 High pressure
Type Engine	Single Cylinder , 4 Stroke , (OHV)
Bore x Stroke (mm. X mm.)	70 x 54
Displacement Volume (cc.)	208
Compression Ratio	8.2:1
Gap Valve (mm.)	0.1
Capacity of Fuel (Liters)	3.6
Capacity of Lubrication (Liters)	0.6
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
In Water Pipe Dia. (mm.) / inch	50 / 2
Out Water Pipe Dia. (mm.) / inch	50 / 2
Total head (m.)	75
Suction Distance (m)	8
Max Volume of Water (Liters/min)	500
Net / Gross Weight (kg)	37/39
Dimension (W x L x H) (cm.)	38.5 x 51.5 x 44.5
Container load (Units) / 20" FCL	330

KAWAMA 15-PE80



HIGH PRESSURE



ENGINE SPECIFICATIONS	KWM 15-PE80 HIGH PRESSURE
Type Engine	Single Cylinder,4-stroke,Air Cool Engine
Bore x Stroke (mm. X mm.)	90 x 66
Displacement Volume (cc.)	420
Compression Ratio	8.6:1
Gap Valve (mm.)	0.1
Capacity of Fuel (Liters)	6.5
Capacity of Lubrication (Liters)	1.1
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
In Water Pipe Dia (mm.)	80
Out Water Pipe Dia (mm.)	65/40/40
Max Volume of Water (Liters/min)	833
Total head (m.)	70
Suction Distance (m)	7
Dimension (W x L x H) (cm.)	56.5 x 59.5 x 69
Net / Gross Weight (kg)	57/59
Container load (Units) / 20" FCL	117

KAWAMA 3.5D-PE80



Diesel Engine



ENGINE SPECIFICATIONS	KWM 3.5D-PE80
Type Engine	Single Cylinder - Forcible Air Cool Diesel Engine
Bore x Stroke (mm. X mm.)	68 x 54
Displacement Volume (cc.)	196
Max. Power (hp/rpm)	3.5/1,800
Rated. Power (hp/rpm)	2.9/3,000
Compression Ratio	22:1
Gap Valve (mm.)	0.2
Capacity of Fuel (Liters)	3
Capacity of Lubrication (Liters)	0.7
Type of Fuel	Diesel
Type of Lubrication	SAW 10 W 30
In Water Pipe Dia (mm.) / inch	80 / 3
Out Water Pipe Dia (mm.) / inch	80 / 3
Maximum Capacity (m ³ ./h)	40
Max lift head (m)	25
Max suction head (m)	8
Self Priming Time (s/4m.)	≤160
Net weight (kg)	33
Dimension (W x L x H) (cm.)	47 X 55 X 45.5
Container load (Units) / 20" FCL	240

KAWAMA 178F PE50 High Pressure



ENGINE SPECIFICATIONS	KWM 178F-PE50 High Pressure
Type Engine	Single Cylinder - Air Cool Diesel Engine
Bore x Stroke (mm. X mm.)	78 x 62
Displacement Volume (cc.)	296
Max. Power (kW/hp/rpm)	4.4/6.0/3,600
Rated. Power (kW/hp/rpm)	4.0/5.4/3,600
Compression Ratio	20:1
Capacity of Fuel (Liters)	3.5
Capacity of Lubrication (Liters)	1.1
Type of Fuel	Diesel
Type of Lubrication	SAW 10 W 40
In Water Pipe Dia (mm.)	50
Out Water Pipe Dia (mm.)	50
Maximum Capacity (m3./h)	30
Max Suction Height (m)	8
Total head (m)	55
Net weight (kg)	55
Dimension (W x L x H) (cm.)	46 X 56 X 56.5
Container load (Units) / 20'GP	200

KAWAMA 186F-PE50 High Pressure



ENGINE SPECIFICATIONS	KWM 186F-PE50 High Pressure
Type Engine	Single Cylinder - Air Cool Diesel Engine
Bore x Stroke (mm. X mm.)	86 x 70
Displacement Volume (cc.)	406
Max. Power (kW/hp/rpm)	6.6/9.0/3,600
Rated. Power (kW/hp/rpm)	6.3/8.6/3,600
Compression Ratio	19.5:1
Capacity of Fuel (Liters)	5.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAW 10 W 40
In Water Pipe Dia (mm.)	50
Out Water Pipe Dia (mm.)	50
Maximum Capacity (m3./h)	18
Max Suction Height (m)	8
Total head (m)	45
Net weight (kg)	67
Dimension (W x L x H) (cm.)	48 X 65.5 X 72
Container load (Units) / 20'GP	123

KAWAMA 188F-PE80

High Pressure



ENGINE SPECIFICATIONS	KWM 188F-PE80 High Pressure
Type Engine	Single Cylinder - Air Cool Diesel Engine
Bore x Stroke (mm. X mm.)	88 x 75
Displacement Volume (cc.)	456
Max. Power (kW/hp/rpm)	7.8/11/3,600
Rated. Power (kW/hp/rpm)	7.5/10/3,600
Compression Ratio	20:1
Capacity of Fuel (Liters)	5.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAW 10 W 40
In Water Pipe Dia (mm.)	80
Out Water Pipe Dia (mm.)	80
Maximum Capacity (m3./h)	50
Max Suction Height (m)	8
Total head (m)	70
Net weight (kg)	75
Dimension (W x L x H) (cm.)	48 X 64.5 X 61
Container load (Units) / 20'GP	126

KAWAMA 186FA PE50



HIGH PRESSURE CAST IRON



SPECIFICATION	KWM186FA-PE50H Cast Iron
Type	Single Cylinder - Air Cool Diesel Engine
Suction/discharge mm(inch)	50(2")
Total head(m)	92
Suction head(m)	8
Maximum capacity(m3/h)	35
Engine Model	KWM186FA
Fuel Type	Diesel
Bore * Stroke	86*72
Displacement(cc)	418
Lubricant oil capacity (L)	1.65
Rated output(kw)	6.6
Fuel tank capacity (L)	5.5
Compression Ratio	19.5:1
Dimensions(L*W*H)	570*460*720
N.W/ G.W (kg)	80
QTY. 20'GP	123

KAWAMA 188FAE PE80



HIGH PRESSURE CAST IRON



SPECIFICATION	KWM188FAE-PE80H Cast Iron
Type	Single Cylinder - Air Cool Diesel Engine
Suction/discharge mm(inch)	80(3")
Total head(m)	102
Suction head(m)	8
Maximum capacity(m3/h)	40
Engine Model	KWM188FAE
Fuel Type	Diesel
Bore * Stroke	88*75
Displacement(cc)	456
Lubricant oil capacity (L)	1.65
Rated output(kw)	6.9
Fuel tank capacity (L)	5.5
Compression Ratio	19.5:1
Dimensions(L*W*H)	570*495*720
N.W/ G.W (kg)	80
QTY. 20'GP	123

KAWAMA 155 PLUS LED

High Pressure 3 x 3 Inch 2 Impeller



ENGINE SPECIFICATIONS	KWM 155 PLUS LED 3 x 3 INCH 2 IMPELLER
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	100 x 98
Displacement Volume (cc.)	769
Max. Power (hp./rpm)	15.5/2400
Rated. Power (hp./rpm)	13.5/2400
Specific Fuel Consumption (g / kw-hr), (g/hp-hr)	≤236 (174)
Compression Ratio	18:1
Gap Valve (mm.)	0.195-0.235
Max Torque (N-m/rpm)	5.3/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Direct injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting / Electric Starter
PUMP SPECIFICATIONS (2 Impeller)	
Speed (rpm)	2600
Head (m)	90
Volume (L/min)	1100
Volume (Q/hr)	66
Power (hp)	14
Dimension (W x L x H) (cm.)	58.5 x 178 x 87.5
Net Weight (kg.) / Gross Weight (kg.)	208/212
Container load (Units) / 20" FCL	18

KAWAMA 155 PLUS LED

High Pressure 3 x 3 Inch 3 Impeller



ENGINE SPECIFICATIONS	KWM 155 PLUS LED 3 x 3 INCH 3 IMPELLER
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	100 x 98
Displacement Volume (cc.)	769
Max. Power (hp./rpm)	15.5/2400
Rated. Power (hp./rpm)	13.5/2400
Specific Fuel Consumption (g / kw-hr), (g/hp-hr)	≤236 (174)
Compression Ratio	18:1
Gap Valve (mm.)	0.195-0.235
Max Torque (N-m/rpm)	5.3/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Direct injection
Type of Cooling	Radiator
Type of Lubrication System	Trochoid Rotary Pump
Air Cleaner	Wet Type (Oil bath type)
Type of Starting	Double Speed Hand Starting / Electric Starter
PUMP SPECIFICATIONS (3 Impeller)	
Speed (rpm)	2600
Head (m)	100
Volume (L/min)	720
Volume (Q/hr)	44
Power (hp)	15.5
Dimension (W x L x H) (cm.)	158.5*178*87.5
Net Weight (kg.) / Gross Weight (kg.)	226/230
Container load (Units) / 20" FCL	18

KAWAMA GASOLINE GENERATOR



KWM 3000



ENGINE SPECIFICATIONS	KWM 3000
Type Engine	Single Cylinder , 4 Stroke (OHV)
Displacement Volume (cc.)	212
Bore x Stroke	70 x 55
Max. Power (hp/rpm)	7.5/3600
Gap Valve (mm.)	0.1
Compression ratio	8.5:1
Capacity of Fuel (Liters)	12
Capacity of Lubrication (Liters)	0.6
Start System	Recoil Starter & Electric Start
Cooling System	Air Cooling
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Type Standard Voltage	Single-Phase 220V.
Rated frequency (Hz)	50
Rated voltage(v)	220
Max power output kW (kVA)	3 (3.75)
Rated power output kW (kVA)	2.7 (3.375)
Dimension (W X L X H)(cm)	46.5 x 60 x 46
Net Weight(kg)	45
Container Load (Units)/20" FCL	142



KAWAMA GASOLINE GENERATOR

KWM 5500



ENGINE SPECIFICATIONS	KWM 5500
Type Engine	Single Cylinder , 4 Stroke (OHV)
Displacement Volume (cc.)	390
Bore x Stroke	88 x 64
Max. Power (hp/rpm)	13/3600
Gap Valve (mm.)	0.1
Compression ratio	8.5:1
Capacity of Fuel (Liters)	25
Capacity of Lubrication (Liters)	1.1
Start System	Recoil Starter & Electric Start
Cooling System	Air Cooling
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Type Standard Voltage	Single-Phase 220V.
Rated frequency (Hz)	50
Rated voltage(v)	220
Max power output kW (kVA)	5.5 (6.875)
Rated power output kW (kVA)	5 (6.25)
Dimension (W X L X H)(cm)	54 x 68.5 x 54.5
Net Weight(kg)	85
Container Load (Units)/20" FCL	128



KAWAMA GASOLINE GENERATOR

KWM 7000



ENGINE SPECIFICATIONS	KWM 7000
Type Engine	Single Cylinder , 4 Stroke (OHV)
Displacement Volume (cc.)	438
Bore x Stroke	92 x 66
Max. Power (hp/rpm)	15/3600
Gap Valve (mm.)	0.1
Compression ratio	8.5:1
Capacity of Fuel (Liters)	25
Capacity of Lubrication (Liters)	1.1
Start System	Recoil Starter & Electric Start
Cooling System	Air Cooling
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Type Standard Voltage	Single-Phase 220V.
Rated frequency (Hz)	50
Rated voltage(v)	220
Max power output kW (kVA)	6.8 (8.5)
Rated power output kW (kVA)	6.3 (7.875)
Dimension (W X L X H)(cm)	54 x 68.5 x 54.5
Net Weight(kg)	90
Container Load (Units)/20" FCL	128



KAWAMA GASOLINE GENERATOR

KWM 8500



ENGINE SPECIFICATIONS	KWM 8500
Type Engine	Single Cylinder , 4 Stroke (OHV)
Displacement Volume (cc.)	499.6
Bore x Stroke	94 x 72
Max. Power (hp/rpm)	15/3600
Gap Valve (mm.)	0.1
Compression ratio	8.5:1
Capacity of Fuel (Liters)	25
Capacity of Lubrication (Liters)	1.1
Start System	Recoil Starter & Electric Start
Cooling System	Air Cooling
Type of Fuel	Gasoline
Type of Lubrication	SAE 40 SF SG SJ
Type Standard Voltage	Single-Phase 220V.
Rated frequency (Hz)	50
Rated voltage(v)	220
Max power output kW (kVA)	8.5 (10.625)
Rated power output kW (kVA)	7.8 (9.75)
Dimension (W X L X H)(cm)	54 x 68.5 x 54.5
Net Weight(kg)	102
Container Load (Units)/20" FCL	128



KAWAMA

GASOLINE GENERATOR 10000/-3



	ENGINE SPECIFICATIONS	KWM 10000/-3	
Gasoline Engine	Type Engine	V-Twin Cylinder, 4 Stroke	
	Type of Fuel	Gasoline	
	Type of Lubrication	SAE 40 SF SG SJ	
	Displacement Volume (cc.)	670	
	Igniting System	Transistorized Magneto	
	Capacity of Fuel (Liters)	26	
	Fuel Consumption (g/(kw-h))	≤37	
	Chargue continuous time 50% 100%	6.5h – 4.5h	
Generator	Rate Frequency (Hz)	50	
	Phase	Single	Three
	Rate Voltage (v)	230	400
	Rated. Power Output kW (kVA)	9 (11.25)	
	Max. Power kW (kVA)	10 (12.5)	
Generator Set	Dimension (W x L x H) (cm.)	68 x 99 x 85	
	Net Weight (kg)	174	
	Automatic Voltage Regulator (AVR)	●	
	Container Load (Units)/20" FCL	34	



KAWAMA DIESEL GENERATOR

KWM 3000



ENGINE SPECIFICATIONS	KWM 3000
Type Engine	Single Cylinder , 4 Stroke , Air Cooled Diesel Engine
Engine Model	KWM178FE
Bore x Stroke (mm. X mm.)	78 x 62
Displacement Volume (cc.)	296
Max. Power (kW/hp/rpm)	4.4/6.0/3,600
Compression Ratio	20:1
Capacity of Fuel (Liters)	12.5
Capacity of Lubrication (Liters)	1.1
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Optional electric start
Max power output kW (kVA)	2.8 (3.5)
Rated power output kW (kVA)	2.6 (3.25)
Rated Frequency (Hz)	50
Rated Voltage (V)	230
Rated Electric Current (A)	12
DC Output V (A)	12(8.3)
Dimension (W X L X H)(cm)	50.5 x 68 x 69
Container load (Units) / 20" FCL	99



KAWAMA DIESEL GENERATOR

KWM 5500



ENGINE SPECIFICATIONS	KWM 5500
Type Engine	Single Cylinder , 4 Stroke , Air Cooled Diesel Engine
Engine Model	KWM186FAE
Bore x Stroke (mm. X mm.)	86 x 72
Displacement Volume (cc)	418
Rated Power (hp/rpm)	7.8 / 3,000 8.85 / 3,600
Compression Ratio	19.5:1
Capacity of Fuel (Liters)	12.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Optional electric start
Max. Output kW (kVA)	5.0 (6.25)
Rated. Output kW (kVA)	4.5 (5.625)
Rated Frequency (Hz)	50
Rated Voltage (V)	230
DC Output V (A)	12(8.3)
Dimension (W X L X H)(cm)	50.5 x 74 x 63
Net Weight (kg)	113
Container load (Units) / 20" FCL	99



KAWAMA DIESEL GENERATOR

KWM 7500



ENGINE SPECIFICATIONS	KWM 7500
Type Engine	Single Cylinder , 4 Stroke , Air Cooled Diesel Engine
Engine Model	KWM192FE
Bore x Stroke (mm. X mm.)	92 x 75
Displacement Volume (cc)	499
Rated Power (hp/rpm)	10.2/3,000 11.6/3,600
Compression Ratio	19.5:1
Capacity of Fuel (Liters)	12.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Optional electric start
Max. Output kW (kVA)	6.5 (8.125)
Rated. Output kW (kVA)	6.0 (7.5)
Rated Frequency (Hz)	50
Rated Voltage (V)	230
DC Output V (A)	12(8.3)
Dimension (W X L X H)(cm)	50.5 x 74 x 63
Net Weight (kg)	124
Container load (Units) / 20" FCL	99



KAWAMA WELDING GENERATOR



ENGINE SPECIFICATIONS	KWM 8500 WE
Type Engine	Single Cylinder , 4 Stroke , Air Cooled Diesel Engine
Engine Model	KWM192FE
Bore x Stroke (mm. X mm.)	92 x 75
Displacement Volume (cc.)	499
Rated. Power (hp/rpm)	5.6/3,000
Compression Ratio	19.5:1
Capacity of Fuel (Liters)	12.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Optional electric start
Rated power output kW (kVA)	2 (2.5)
Rated Frequency (Hz)	50
Rated Voltage (V)	230
Welding Voltage Without Load (V)	50~60
Rated Current (A)	200
Work Voltage (V)	25~30
Current Regulation Range (A)	70~220
Diameter of welding wire (mm)	2.0-5.0
Welding Load Continuous Ration	60%
Phase Number	1-Phase
Dimension (W X L X H)(cm)	51.5 x 75 x 64
Net Weight(kg)	127
Container Load (Units)/20" FCL	99

KAWAMA DIESEL GENERATOR

KWM 5500-SILENT



ENGINE SPECIFICATIONS	KWM5500-SILENT
Type Engine	Single Cylinder , 4 Stroke , Air Cooled Diesel Engine
Engine Model	KWM186FAE
Bore x Stroke (mm. X mm.)	86 x 72
Displacement Volume (CC.)	418
Rated Power (hp/rpm)	8.85/3600
Compression Ratio	19.5:1
Capacity of Fuel (Liters)	14.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Optional electric start
Max power output kW (kVA)	5.0 (6.3)
Rated power output kW (kVA)	4.5 (5.6)
Power Factor Φ	0.8
Rated Frequency (Hz)	50
Rated Voltage (V)	230
DC Output V (A)	12(8.3)
Dimension (W X L X H)(cm)	57 x 99 x 81.5
Net Weight (kg)	149
Container load (Units) / 20" FCL	44

KAWAMA DIESEL GENERATOR HEAVY DUTY

KWM 5500-SILENT NEW



ENGINE SPECIFICATIONS	KWM5500-SILENT NEW
Type Engine	Single Cylinder , 4 Stroke , Air Cooled Diesel Engine
Engine Model	KWM188FAE
Bore x Stroke (mm. X mm.)	88 x 75
Displacement Volume (CC.)	456
Rated Power (hp/rpm)	9.2/3,600
Compression Ratio	19.5:1
Capacity of Fuel (Liters)	14.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Optional electric start
Max power output kW (kVA)	5.0 (6.9)
Rated power output kW (kVA)	5.5 (6.3)
Power Factor Φ	0.8
Rated Frequency (Hz)	50
Rated Voltage (V)	230
DC Output V (A)	12(8.3)
Dimension (W X L X H)(cm)	57 x 99 x 81.5
Net Weight (kg)	149
Container load (Units) / 20" FCL	44

KAWAMA DIESEL GENERATOR

KWM 7500-SILENT



ENGINE SPECIFICATIONS	KWM7500 – SILENT
Type Engine	Single Cylinder , 4 Stroke , Air Cooled Diesel Engine
Engine Model	KWM192FAE
Bore x Stroke (mm. X mm.)	92 x 75
Displacement Volume (cc)	499
Rated Power (hp/rpm)	11.5/3,600
Compression Ratio	19.5:1
Capacity of Fuel (Liters)	14.5
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Optional electric start
Max. Output kW (kVA)	6.5 (8.1)
Rated. Output kW (kVA)	6.0 (7.5)
Rated Frequency (Hz)	50
Rated Voltage (V)	230
DC Output V (A)	12(8.3)
Dimension (W X L X H)(cm)	57.5 x 99 x 91
Net Weight (kg)	171
Container load (Units) / 20" FCL	44

KAWAMA DIESEL GENERATOR HEAVY DUTY

KWM 7500-SILENT NEW



ENGINE SPECIFICATIONS	KWM7500 – SILENT NEW
Type Engine	Single Cylinder , 4 Stroke , Air Cooled Diesel Engine
Engine Model	KWM195FE
Bore x Stroke (mm. X mm.)	95x 75
Displacement Volume (CC.)	532
Rated Power (hp/rpm)	12.3/3,600
Compression Ratio	19.5:1
Capacity of Fuel (Liters)	30
Capacity of Lubrication (Liters)	1.65
Type of Fuel	Diesel
Type of Lubrication	SAE 10 W 30
Start System	Optional electric start
Max power output kW (kVA)	7.5 (9.3)
Rated power output kW (kVA)	6.6 (8.3)
Power Factor Φ	0.8
Rated Frequency (Hz)	50
Rated Voltage (V)	230
DC Output V (A)	12(8.3)
Dimension (W X L X H)(cm)	57.5 x 99 x 91
Net Weight (kg)	175
Container load (Units) / 20" FCL	44

KAWAMA DIESEL GENERATOR

KWM 12000-SILENT



ENGINE SPECIFICATIONS	KWM12000-SILENT	
Type Engine	V Type, 2-Cylinder , 4-Stroke , Water Cooled	
Engine Model	KD292F	
Bore x Stroke (mm. X mm.)	2- 92 x 75	
Displacement Volume (CC.)	997	
Rated Power (hp/rpm)	18.7/3,600 20.1/3,600	
Compression Ratio	19 : 1	
Capacity of Fuel (Liters)	26	
Capacity of Lubrication (Liters)	2.3	
Type of Fuel	Diesel	
Type of Lubrication	SAE10W30	
Start System	Optional electric start	
Phase	Single	Three
Max power output kW (kVA)	12 (15.0)	
Rated power output kW (kVA)	11 (13.8)	
Power Factor Φ	0.8	
Rated Frequency (Hz)	50	
Rated Voltage (V)	230	380
Noise Level [Db](@ 7m)	75	
Dimension (W X L X H)(cm)	65 x 125 x 86	
Net Weight (kg)	320	
Container load (Units) / 20" FCL	26	

KAWAMA GENERATOR



Engine Specifications	C22D5
Type Engine	Cummins 4B3.9-G11
Bore x Stroke (mm)	102 x 120
Displacement Volume (L.)	3900
Standby Power (hp/rpm)	36/1500
Compression Ratio	17.3:1
Specific Fuel Consumption (L./hr) @100% load	7.5
No. of Cylinders and Cycle	4 , 4 Stroke
Capacity of Fuel (L)	70
Lubrication system Min. capacity (L)	10.9
Start Sysem	Start Moter
Cooling System	Radiator (Water)
Type of Fuel	Diesel
Alternator	TAL-A40-F
Phase	3
Frequency (Hz)	50
Standby Power (KVA)	22
Prime Power (KVA)	20
Engine Sped(RPM)	1500
Type of Oil	API CH-4
Dimension (W x L x H) cm	95.5 x 229.7 x 125.0
Net Weight (kg)	1050
Electricity	220V / 380V
Container load (Units) / 20'GP	6

1021-11020X

KAWAMA GENERATOR



Engine Specifications	C33D5
Type Engine	Cummins 4B3.9-G2
Bore x Stroke (mm)	102 x 120
Displacement Volume (L.)	3900
Standby Power (hp/rpm)	36/1500
Compression Ratio	17.3:1
Specific Fuel Consumption (L./hr) @100% load	7.5
No. of Cylinders and Cycle	4 , 4 Stroke
Capacity of Fuel (L)	70
Lubrication system Min. capacity (L)	10.9
Start Sysem	Start Moter
Cooling System	Radiator (Water)
Type of Fuel	Diesel
Phase	3
Frequency (Hz)	50
Standby Power (KVA)	33
Prime Power (KVA)	30
Engine Sped(RPM)	1500
Type of Oil	API CH-4
Dimension (W x L x H) cm	110 x 275.0 x 173.5
Net Weight (kg)	1050
Electricity	220V / 380V
Container load (Units) / 20'GP	4

KAWAMA GENERATOR



Engine Specifications	C66D5
Type Engine	Cummins 4BTA3.9-G2
Bore x Stroke (mm)	102 x 120
Displacement Volume (L.)	3900
Standby Power (hp/rpm)	54/1500
Compression Ratio	17.3:1
Specific Fuel Consumption (L./hr) @100% load	14.1
No. of Cylinders and Cycle	4 , 4 Stroke
Capacity of Fuel (L)	105
Lubrication system Min. capacity (L)	10.9
Start Sysem	Start Moter
Cooling System	Radiator (Water)
Type of Fuel	Diesel
Alternator	TAL-A42-H
Phase	3
Frequency (Hz)	50
Standby Power (KVA)	66
Prime Power (KVA)	60
Engine Sped(RPM)	1500
Type of Oil	API CH-4
Dimension (W x L x H) cm	100.0 x 255.0 x 156.8
Net Weight (kg)	1282
Electricity	220V / 380V
Container load (Units) / 20'GP	4

1021-11050X



KAWAMA 180 MAX

11kW BRUSH ALTERNATOR



ENGINE SPECIFICATIONS	KWM 180 max- 11 kW BRUSH ALTERNATOR
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	115 x 105
Displacement Volume (cc.)	1090
Rated. Power (hp./rpm)	17.0/2200
Specific Fuel Consumption (g / kw-hr), (g/hp-hr)	≤285
Compression Ratio	21:1
Max Torque (N-m/rpm)	69/1,600
Capacity of Water Cooling (Liters)	2.6
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	3.5
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Direct injection
Type of Lubrication System	Trochoid Rotary Pump
Type of Starting	Double Speed Hand Starting / Electric Starter
SPECIFICATION 11 kW BRUSH ALTERNATOR	
Speed (rpm)	1500
Frequency (Hz.)	50
Voltage (V.)	220-230
Rated Power (kW)	10
Max Power (kW)	11
Net Weight (kg.)	230

POLAWATENGINE CO.,LTD.

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KAWAMA 170 MAX

8.25kW BRUSH ALTERNATOR



ENGINE SPECIFICATIONS	KWM 170 MAX- 8.25 kW BRUSH ALTERNATOR
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	110 x 105
Displacement Volume (cc.)	998
Rated. Power (hp./rpm)	16.0/2200
Specific Fuel Consumption (g / kw-hr), (g/hp-hr)	≤285
Compression Ratio	21:1
Max Torque (N-m/rpm)	62/1,600
Capacity of Water Cooling (Liters)	2.6
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	3.5
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Direct injection
Type of Lubrication System	Trochoid Rotary Pump
Type of Starting	Double Speed Hand Starting / Electric Starter
SPECIFICATION 8.25 kW BRUSH ALTERNATOR	
Speed (rpm)	1500
Frequency (Hz.)	50
Voltage (V.)	220-230
Rated Power (kW)	7.5
Max Power (kW)	8.25
Net Weight (kg.)	230

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KAWAMA 140

5.5kW RUSH ALTERNATOR



ENGINE SPECIFICATIONS	KWM 140 - 5.5 kW BRUSH ALTERNATOR
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	97x96
Displacement Volume (cc.)	709
Rated. Power (hp./rpm)	12.5/2400
Specific Fuel Consumption (g / kw-hr), (g/hp-hr)	≤257
Compression Ratio	18:1
Max Torque (N-m/rpm)	50/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Direct injection
Type of Lubrication System	Trochoid Rotary Pump
Type of Starting	Double Speed Hand Starting / Electric Starter
SPECIFICATION 5.5 kW BRUSH ALTERNATOR	
Speed (rpm)	1500
Frequency (Hz.)	50
Voltage (V.)	220-230
Rated Power (kW)	7.5
Max Power (kW)	8.25
Net Weight (kg.)	230

POLAWATENGINE CO.,LTD.

46/88 MOO 23 BANGPLEEYAI, BANGPLEE, SAMUTPRAKAN 10540 THAILAND

TEL : 66 2 136 4247-9 FAX : 66 2 136 4246 MOBILE : 66 8 18329349 EMAIL : polawatengine@gmail.com

KAWAMA 155

7.5kW BRUSHLESS ALTERNATOR



ENGINE SPECIFICATIONS	KWM 155 - 7.5 kW BRUSHLESS ALTERNATOR
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	100x98
Displacement Volume (cc.)	769
Rated. Power (hp./rpm)	13.5/2400
Specific Fuel Consumption (g / kw-hr), (g/hp-hr)	≤236
Compression Ratio	18:1
Max Torque (N-m/rpm)	50/1,600
Capacity of Water Cooling (Liters)	2.1
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	2.8
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Direct injection
Type of Lubrication System	Trochoid Rotary Pump
Type of Starting	Double Speed Hand Starting / Electric Starter
SPECIFICATION 7.5 kW BRUSHLESS ALTERNATOR	
Speed (rpm)	1500
Frequency (Hz.)	50
Voltage (V.)	220-230
Rated Power (kW)	6.5
Max Power (kW)	7.5
Net Weight (kg.)	230

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KAWAMA 180 MAX

12kW BRUSHLESS ALTERNATOR



ENGINE SPECIFICATIONS	KWM 180 MAX - 12 kW BRUSHLESS ALTERNATOR
Type Engine	Diesel Engine 4-Stroke Cycle Water cooled
Bore x Stroke (mm. X mm.)	115 x 105
Displacement Volume (cc.)	1090
Rated. Power (hp./rpm)	17.0/2200
Specific Fuel Consumption (g / kw-hr), (g/hp-hr)	≤285
Compression Ratio	21:1
Max Torque (N-m/rpm)	6.9/1,600
Capacity of Water Cooling (Liters)	2.6
Capacity of Fuel (Liters)	11
Capacity of Lubrication (Liters)	3.5
Type of Fuel	Diesel
Type of Lubrication	API CC , CD , CF SAE 40
Type of Combustion Chamber	Direct injection
Type of Lubrication System	Trochoid Rotary Pump
Type of Starting	Double Speed Hand Starting / Electric Starter
SPECIFICATION 12 kW BRUSHLESS ALTERNATOR	
Speed (rpm)	1500
Frequency (Hz.)	50
Voltage (V.)	220-230
Rated Power (kW)	10.8
Max Power (kW)	12
Net Weight (kg.)	230

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KAWAMA Multi-purpose chipper

Size M



2071-080VM2Z

Specification

- 1 channel for spit the work piece
- Weight 60 kg.
- With 2 wheels to can move size 10 inch.
- Sub-branching hardness fresh branches , about 1 - 2 inches in size for example mango , rambutan , bamboo etc.
- Sub-branching soft fresh branches , about 2- 3 inches in size for example acacia etc.
- for example acacia etc.
- It can able to slide ,coconut , hay ,palm ,water plants , corn etc. about 6-7 inches
- 2 quality hardened steel blades
- Capacity per hour 100-2,000 kg.
(Depends on the type of material to be chopped)
- Suitable to connect with gasoline engine 6.5 – 8 HP
- Wood Carton dimension (W x L x H) cm : 86 x 83 x 76
- Gross weight : 117 Kg.

Email: polawatengine@gmail.com , export@polawatengine.co.th

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POWER SPRAYER



ENGINE SPECIFICATIONS	KWM 767
Engine type	2-Stroke Engine , Single Cylinder , Forced Air Cooled
Pressure(KG/CM ²)	15-20
Displacement Volume (cc.)	26
Carburetor	Float Type
Ignition System	TCL
Capacity of Fuel (Liters)	1
Start System	Recoil Starter
Fuel Mixture (Gasoline:2T)	25:1
Tank Capacity (L)	25
Power (kw / r / Min)	0.7/6500
Dimension (W X L X H) (cm)	36 x 43 x 68
Net Weight(kg)	10.5
Container Load (Units)/20" FCL	240

KAWAMA POWER SPRAYER



4 STROKE



ENGINE SPECIFICATIONS	KWM POWER SPRAYER 4 STROKE
Engine type	4-Stroke Engine , Single Cylinder , Forced Air Cooled
Pressure(KG/CM ²)	15-25
Water Flow (L/min)	3-8
Displacement Volume (cc.)	35.8
Carburetor	Diaphragm
Ignition System	TCL
Capacity of Fuel (Liters)	1
Start System	Recoil Starter
Tank Capacity (L)	25
Power (kw / r / Min)	1.2/5000-7000 rpm
Dimension (W X L X H) (cm)	42 x 46 x 64
Net Weight(kg)	11.5
Container Load (Units)/20" FCL	210

KAWAMA BRUSHLESS ALTERNATOR



SPECIFICATION	7.5kW -1PHASE	10kW -1PHASE	12kW -3PHASE
Type	BRUSH ALTERNATOR		
Frequency (Hz)	50		
Working speed (Rpm)	1500		
Rated power (kW)	6.5	8.8	10.8
Max. power (kW)	7.5	10	12
Voltage (V)	220 - 230		380
Exciting Voltage(V)		40	
Rated Current (AMPS)	29.5	40	20.5
Power factor cosφ	1		0.8
AVR	AVR SX460		
Enclosure	IP21		
Cooling Method	IC01		
Weight (kg)	91	98	106

KAWAMA BRUSH ALTERNATOR



SPECIFICATION	5.5kW -1PHASE	8.25kW -1PHASE	11kW -1PHASE
Type	BRUSH ALTERNATOR		
Frequency (Hz)	50		
Working speed (Rpm)	1500		
Rated power (kW)	5	7.5	10
Max. power (kW)	5.5	8.25	11
Voltage (V)	220 - 230		
Exciting Voltage(V)	49	61	80
Rated Current (AMPS)	22.8	34.1	45.5
Power factor $\cos\phi$	1		
AVR	AVR SX460		
Enclosure	IP21		
Cooling Method	IC01		
Weight (kg)	85	102	113

KAWAMA SUBMERSIBLE



TYPE	MOTOR POWER		HEAD MAX.	Q. MAX		OUTLET	IMPELLER
	KW	HP		m ³ /h	L/min		
Single phase 220-240V-50Hz			m	m ³ /h	L/min	Inch	stage
3PLW414-0.75	0.75	1	53	6	100	1.5	14
3PLW613-1.5	1.5	2	65	8.6	143	1.5	13
4PLW514-1.5	1.5	2	90	9	150	1.5	14
4PLW807-0.75	0.75	1	39	14.7	245	2	7
4PLW1010-1.5	1.5	2	60	16.5	275	2	10
4PLW1207-1.1	1.1	1.5	41	18.5	308	2	7
4PLW2006-1.5	1.5	2	32	29.8	497	2	6

BRUSH CUTTER



ENGINE SPECIFICATIONS	KWM 360
Type Engine	Gasoline 4 stroke engine
Displacement	35.8cc
Carburetor	Diaphragm Type
Ignition system	TCI
Starting	Recoil starter
Fuel tank capacity	0.8 Liters
Oil Level	0.1 Liters
Fuel mixture (Gasoline : 2T)	-
SPECIFICATION BODY	
Type	Hard tube
Drive system	Auto centrifugal clutch
Reduction ratio	16 :19
Handle type	Y type or bike handle type
Throttle lever type	Throttle trigger with safety lever
Cutter speed	5,000 - 7,000 rpm
Package Dimension (cm)	32 x 32 x 24
	13 x 167 x 11
Container load (Sets)/20" FCL	545
weight	8.5 kg

BRUSH CUTTER



ENGINE SPECIFICATIONS	KWM 411M
Type Engine	Gasoline 2 stroke engine , single cylinder , Forced Air cooled
Displacement	41.5 cc.
Carburetor	Float Type
Ignition system	TCI
Starting	Recoil starter
Fuel tank capacity	1 Liters
Fuel mixture (Gasoline : 2T)	25:1
SPECIFICATION BODY	
Type	Hard tube
Drive system	Auto centrifugal clutch
Handle type	Y type or bike handle type
Throttle lever type	Throttle trigger with safety lever
Cutter speed	5,000 - 7,000 rpm
Package Dimension (cm)	32.5 x 31 x 23
	13 x 167 x 11
Container load (Sets)/20" FCL	650
Weight	7.5 kg

BRUSH CUTTER



ENGINE SPECIFICATIONS	KWM 411RB
Type Engine	Gasoline 2 stroke engine , single cylinder , Forced Air cooled
Displacement	41.5 cc.
Carburetor	Float Type
Ignition system	TCI
Starting	Recoil starter
Fuel tank capacity	1 Liters
Fuel mixture (Gasoline : 2T)	25:1
SPECIFICATION BODY	
Type	Hard tube
Drive system	Auto centrifugal clutch
Handle type	Y type or bike handle type
Throttle lever type	Throttle trigger with safety lever
Cutter speed	5,000 - 7,000 rpm
Package Dimension (cm)	32.5 x 31 x 23
	13 x 167 x 11
Container load (Sets)/20" FCL	650
Weight	7.5 kg

BRUSH CUTTER



ENGINE SPECIFICATIONS		KWM 330
Type Engine	Gasoline 2 stroke engine	
Displacement	32.6cc	
Carburetor	Diaphragm Type	
Ignition system	IC Ignition	
Starting	Recoil starter	
Fuel tank capacity	1.2 Liters	
Fuel mixture (Gasoline : 2T)	25:1	
SPECIFICATION BODY		
Type	Hard tube	
Drive system	Auto centrifugal clutch	
Handle type	Y type or bike handle type	
Throttle lever type	Throttle trigger with safety lever	
Cutter speed	5,000 - 7,000 rpm	
Package Dimension (cm)	28.5 x 28.5 x 37	
	13 x 167 x 11	
Container load (Sets)/20" FCL	568	
weight	9.6kg	

BRUSH CUTTER (MOVING BACKPACK)



ENGINE SPECIFICATIONS	KWM 350
ENGINE BRAND	HONDA (MADE IN THAILAND)
Type Engine	Gasoline 4 stroke engine
Displacement	35.8cc
Carburetor	Diaphragm Type
Ignition system	TCI
Starting	Recoil starter
Fuel tank capacity	0.7 Liters
Oil Level	0.1 Liters
SPECIFICATION BODY	
Type	Flax tube
Drive system	Auto centrifugal clutch
Reduction ratio	16 :19
Handle type	Y type or bike handle type
Throttle lever type	Throttle trigger with safety lever
Cutter speed	5,000 - 7,000 rpm
Package Dimension (cm)	30 x 29 x 45
	13 x 167 x 11
Container load (Sets)/20" FCL	280
weight	10.5 kg



SPART PARTS BRUSH CUTTER

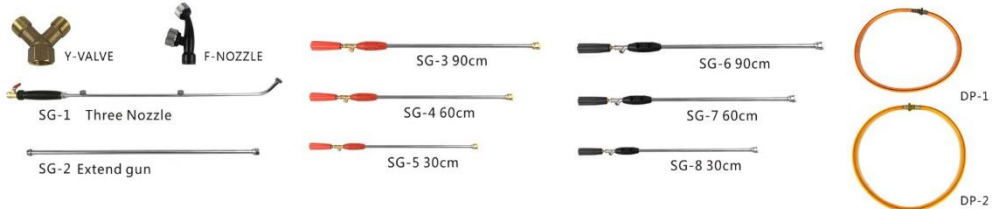
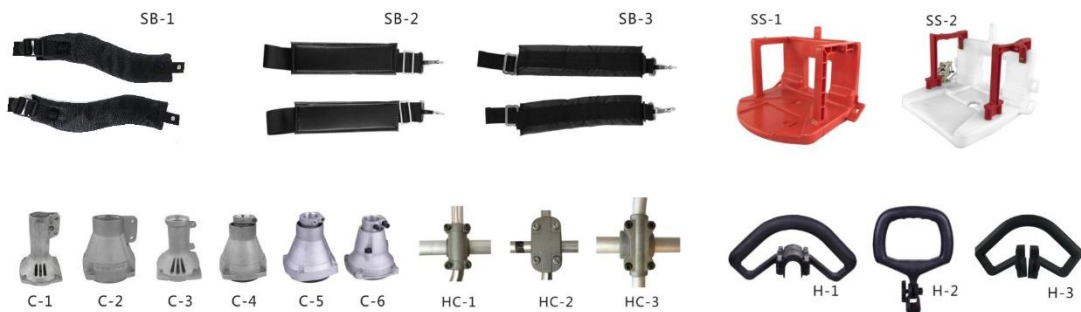


side-pack

back-pack



8051-012T1601





SOUTH KOREA

DENMARK



JAPAN

SINGAPORE





NETHERLANDS

MYANMAR



IRAN



VENEZUELA

PHILIPPINES



MOZAMBIQUE



SAUDI ARABIA

TURKEY





SAUDI ARABIA

BRAZIL





AFGHANISTAN

AMERICA



PERU



FACILITY



FACILITY





TEST LOAD ROOM



PAINTING ROOM



Harmonize code



HS code	Product Name
8408.90.10	Diesel Engine
8407.90.10	Gasoline Engine
8413.70.11	Water Pump
8502.20.10	Generator
8467.89.00	Brush Cutter
8424.81.30	Power Sprayer

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