



## Compact Diesel Engines - 7.4 up to 138 kW

LE/SL/SQ/SS/SK/CJ/EG/FRC-series

- Built to last
- Easy to maintain
- Highly compact engine design
- Ideal for a wide range of applications



## Advanced technology

Your reliable engine partner for construction, agriculture and material handling applications.



### **Global Reach**

As a globally operating company with subsidiaries in all parts of the world, our goal is to assist you all the way. Our engines are made to perform even under the toughest conditions and are known for their durability and reliability.

### **Small reliable engines**

The size of our engines makes us highly esteemed by customers for over 100 years. Minimizing the size of our engines makes it easier for you to install them in your applications. This combined with a relentless focus on Japanese product quality and production management makes us a reliable partner for our OEM's.

### **Easy maintenance**

Our engines are designed with ease of maintenance in mind and have easy access points to key components.

### **Application engineering**

A dedicated application engineer with vast knowledge of our engines and your needs will offer support in your design process from beginning to end to help choose and implement the right engine. We believe in personal attention in order to find the most suitable solution for you.

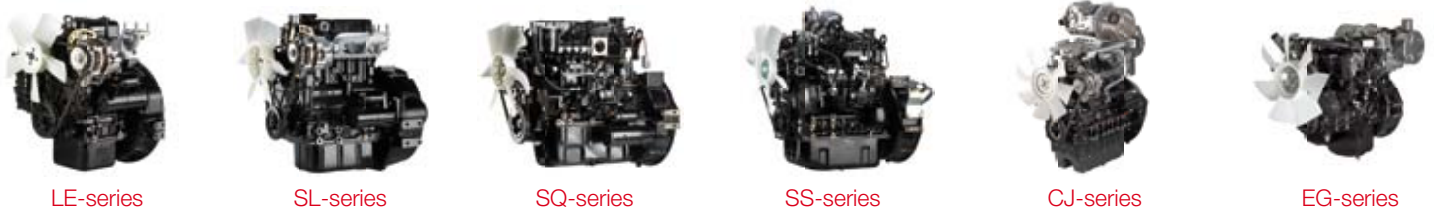
### **Logistic**

For OEM's logistic efficiency is vital. We work with our OEM's in various ways to find the best possible logistic setups in order to ensure a smooth and cost efficient production flow fitting your personal needs.

Our line up of engines consist of both non emission and emission regulated engines (EU Stage 3A, 3B, EPA Tier4). All are water-cooled for efficient cooling.

For non emission areas we typically deliver mechanical engines ensure extra reliability and ease of maintenance.

For emission areas we deliver both mechanical and electronic engines using industry standard common rail solutions for easy maintenance.



Compact Industrial Diesel Engines: 7.4 up to 138 kW							
	25 kW	50 kW	75 kW	100 kW	125 kW	150 kW	
COMPACT ENGINES	7.4	LE-SERIES	20				
	18	SL-SERIES	37				
	28	SQ-SERIES	37				
		37	SS-SERIES	57			
				70	SK-SERIES	120	
		27	CJ-SERIES	55			
			45	EG-SERIES	74		
					120	FRC-SERIES	138

UNIT: KW

# LE- & SL-series

	L2E	L3E	S3L2	S4L2	S4L2-T
<b>Type</b>	4-cycle, water-cooled, diesel engine	4-cycle, water-cooled, diesel engine	4-cycle, water-cooled, diesel engine	4-cycle, water-cooled, diesel engine	4-cycle, water-cooled, diesel engine
<b>Aspiration</b>	Natural-aspirated	Natural-aspirated	Natural-aspirated	Natural-aspirated	Turbocharged
<b>Number of cylinders</b>	2	3	3	4	4
<b>Bore and stroke mm</b>	76x70	76x70	78x92	78x92	78x92
<b>Displacement cc</b>	635	952	1318	1758	1758
<b>Combustion system</b>	Swirl chamber	Swirl chamber	Swirl chamber	Swirl chamber	Swirl chamber
<b>Max. gross output (ISO 3046) kW/rpm</b>	11.3 / 3600	17.0 / 3600	21.2 / 3000	28.8 / 3000	36.8 / 3000
<b>Fuel system</b>	In-line type (PFR)	In-line type (PFR)	In-line type (PFR)	In-line type (PFR)	In-line type (PFR)
<b>Charging alternator V - A</b>	12 - 40	12 - 40	12 - 50	12 - 50	12 - 50
<b>Starting system V - kW</b>	12 - 1.2	12 - 1.7	12 - 1.7	12 - 2.0	12 - 2.0
<b>Fuel</b>	Diesel fuel (ASTM No.2-D)	Diesel fuel (ASTM No.2-D)	Diesel fuel (ASTM No.2-D)	Diesel fuel (ASTM No.2-D)	Diesel fuel (ASTM No.2-D)
<b>Dry weight (1500/1800 rpm. spec.) kg</b>	71	75	135	155	174
<b>Flywheel</b>	SAE #6.5	SAE #6.5	SAE #7.5	SAE #7.5	SAE #7.5
<b>Flywheel Housing</b>	SAE #5	SAE #5	SAE #5w	SAE #5w	SAE #5w
<b>Emission compliance</b>	--	--	EU Stage 3A	EU Stage 3A	EU Stage 3A
<b>Dimensions mm L x W x H</b>	419 x 418 x 500	527 x 418 x 500	548 x 427 x 573	637 x 427 x 573	637 x 505 x 631



PTO connection



LE-series



SL-series

# SQ-, SS- & SK- series

	S4Q2	S4S	S4S-DT	S6S*	S6K
<b>Type</b>	4-cycle, water-cooled, diesel engine	4-cycle, water-cooled, diesel engine	4-cycle, water-cooled, diesel engine	4-cycle, water-cooled, diesel engine	4-cycle, water-cooled, diesel engine
<b>Aspiration</b>	Natural-aspirated	Natural-aspirated	Turbocharged	Natural-aspirated	Turbocharged
<b>Number of cylinders</b>	4	4	4	6	6
<b>Bore and stroke mm</b>	88x103	94x120	94x120	94x120	102x130
<b>Displacement cc</b>	2505	3331	3331	4996	6373
<b>Combustion system</b>	Swirl chamber	Swirl chamber	Direct Injection	Swirl chamber	Direct injection
<b>Max. gross output (ISO 3046) kW/min<sup>-1</sup></b>	34.6 / 2500	47 / 2500	55 / 2500	57.4 / 2500	120 / 2000
<b>Fuel system</b>	Distributor type	Distributor type	Distributor type	Distributor type	In-line type
<b>Charging alternator V – A</b>	12 - 50	12 - 50	12 - 50	12 - 50	24 - 50
<b>Starting system V – kW</b>	12 - 2.0	12 - 2.2	12 - 2.2	12 - 3.0	24 - 5.0
<b>Fuel</b>	Diesel fuel (ASTM No.2-D)	Diesel fuel (ASTM No.2-D)	Diesel fuel (ASTM No.2-D)	Diesel fuel (ASTM No.2-D)	Diesel fuel (ASTM No.2-D)
<b>Dry weight (1500/1800 min<sup>-1</sup> spec.) kg</b>	195	245	250	345	500
<b>Flywheel</b>	SAE #7.5	SAE #11.5	SAE #11.5	SAE #11.5	MHI Standard
<b>Flywheel Housing</b>	SAE #4	SAE #3	SAE #3	SAE #3	SAE #3
<b>Emission compliance</b>	EU Stage 3A	--	--	--	--
<b>Dimensions mm L x W x H</b>	707 x 593 x 710	781 x 559 x 715	781 x 568 x 822	1044 x 622 x 749	1487 x 743 x 974

\* Also available in DT-version



Turbocharger



SQ-series



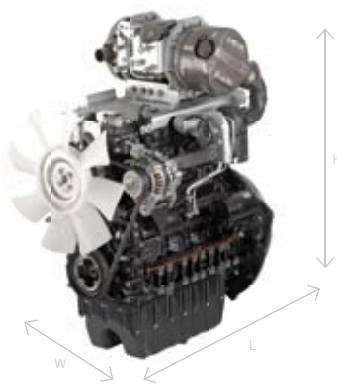
SS-series

# CJ-, EG- & FRC-series

	3CJ	4CJ	4EG	6FRC
<b>Type</b>	4-cycle, water-cooled diesel engine	4-cycle, water-cooled diesel engine	4-cycle, water-cooled diesel engine	4-cycle, water-cooled diesel engine
<b>Aspiration</b>	Turbocharged	Turbocharged	Turbocharged	Turbocharged
<b>Number of cylinders</b>	3	4	4	6
<b>Bore and stroke mm</b>	86 x 95	86 x 95	94 x 120	102x130
<b>Displacement cc</b>	1655	2207	3331	6400
<b>Combustion system</b>	Direct injection	Direct injection	Direct injection	Direct injection
<b>Max. gross output (ISO 3046) kW/rpm</b>	36 / 2500	44 / 2500	74 / 2000	138 / 2100
<b>Fuel system</b>	Common rail system	Common rail system	Common rail system	Common rail system
<b>Charging alternator V - A</b>	12 - 50	12 - 50	24 - 50	24 - 50
<b>Starting system V - kW</b>	12 - 2,0	12 - 2,0	24 - 3,2	24 - 6,5
<b>Fuel</b>	Diesel fuel EN 590	Diesel fuel EN 590	Diesel fuel EN 590	Diesel fuel EN 590
<b>Dry weight kg</b>	235	270	360	560
<b>Flywheel</b>	SAE # 4	SAE # 4	SAE # 3	SAE # 3
<b>Flywheel Housing</b>	SAE # 7,5	SAE # 7,5	SAE # 11,5	SAE # 11,5
<b>After treatment</b>	DOC / DPF	DOC / DPF	DOC / DPF / SCR	DOC / DPF / SCR
<b>Emission compliance</b>	EU stage 3B / EPA TIER 4	EU stage 3B / EPA TIER 4	EU stage 3B / EPA TIER 4	EU Stage 3B
<b>Dimensions mm L x W x H</b>	534 x 505 x 651	631 x 505 x 651	715 x 625 x 750	1131 x 746 x 1037



Common rail



CJ-series



EG-series

# Application areas



## Construction

Clearing, dredging, excavating and land grading. Construction machines power the project execution. The right reason to choose our high performance engines for your equipment.



## Pump compressor

Compact pump compressors due to a highly resilient built in engine to handle all your heavy and less strenuous cleaning.



## Agriculture

Cultivating the ground, including the harvesting of crops, and the rearing and management of live stock; tillage; husbandry are just a small portion of areas for which we provide a growing range of high performance engines.



## Lawn & garden

Reliable engines optimized, with ease of maintenance for all greenery-related work. Opting for quality means opting for us.



## Material handling

Moving, transporting, delivering of your material forms no issue. Our engines make material handling seem effortless.



## Mini car

Being mobile and getting to where you want. Highly dependable engines assure you mobility with great ease.



## Forestry

A rough and demanding working area where workers depend on their machinery. Reliability and power make the difference.



## General equipment

Ready for the job - our broad range, compact power units supplies you top performance for a variety of applications.

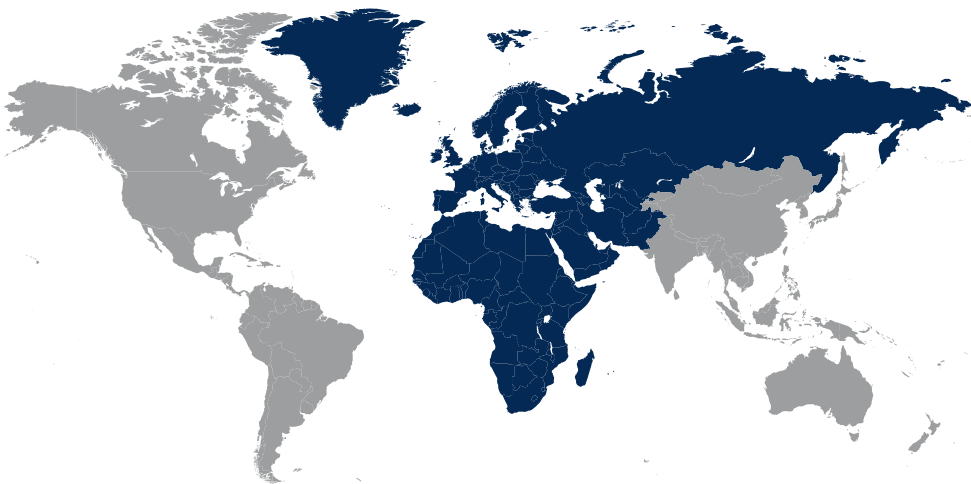
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# Your loyal, reliable partner since 1917

In 1917, Mitsubishi Heavy Industries (MHI) became the first Japanese company to develop and build a diesel engine, and since then has steadfastly pioneered technologies for the reciprocating engine. MHI offers a broad line-up, ranging from construction machinery and marine engines to engines for power generation. In recent years, the company has been involved in the general development of advanced gas turbines, rocket engines, and other types of internal combustion engines, even as it continues to look at the true significance and its decades-long quest to further refine the reciprocating engine.



GL Systems Certification



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