

# INDUSTRIAL ENGINE

## S6D108-1



### SPECIAL FEATURES

**High quality:** The S6D108-1 has a long service life and low maintenance costs. This is owing to various items of fit and design, including precision manufacturing methods and use of high-quality materials.

**High reliability:** Thanks to its low-vibration design and various engine manufacturing techniques, the S6D108-1 has a long life and low maintenance. Recommended equipment and standard parts are available in all markets.

**Excellent operation:** The great operating power and special turbocharging design of the S6D108-1 provide optimum economy and low fuel consumption in all operating conditions.

**Lightweight and compact design:** Advanced design and an all-aluminum construction reduce the weight and improve the compactness and maneuverability of the engine.

**Wide application:** A wide range of turbocharging equipment offers a variety of applications, such as for special conditions, engine conversions.

**Low noise operation:** Special damping and engine noise and vibration is a minimum.

### SPECIAL MODELS

Power rating	Basic	High
Intermediate	100 kW	107 kW
Standard	110 kW	117 kW
High	120 kW	127 kW
Low	130 kW	137 kW
Special	140 kW	147 kW
Super	150 kW	157 kW
Ultra	160 kW	167 kW
Extra	170 kW	177 kW
Super Extra	180 kW	187 kW
Ultra Extra	190 kW	197 kW
Super Ultra	200 kW	207 kW
Ultra Super	210 kW	217 kW
Super Ultra Super	220 kW	227 kW
Ultra Super Ultra	230 kW	237 kW
Super Ultra Super Ultra	240 kW	247 kW
Ultra Super Ultra Super	250 kW	257 kW
Super Ultra Super Ultra Super	260 kW	267 kW
Ultra Super Ultra Super Ultra	270 kW	277 kW
Super Ultra Super Ultra Super Ultra	280 kW	287 kW
Ultra Super Ultra Super Ultra Super	290 kW	297 kW
Super Ultra Super Ultra Super Ultra Super	300 kW	307 kW

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## MINI 1 Design Features

**Structural** The Mini One is built on a reinforced steel chassis and features a torsion bar front suspension and a coil-over rear suspension. The front suspension is a MacPherson strut design, and the rear suspension is a multi-link design. The chassis is designed to provide a rigid frame for the engine, transmission, and drivetrain.

**Engine** The Mini One is powered by a 1.6-liter four-cylinder engine with a cast-iron block and an aluminum head. The engine is designed to provide a balance of power and fuel economy. The engine is mounted in a front-engine, front-wheel-drive layout.

**Drivetrain** The Mini One features a front-wheel-drive layout with a front-wheel-drive engine and a front-wheel-drive transmission. The transmission is a five-speed manual transmission. The drivetrain is designed to provide a responsive and agile driving experience. The front-wheel-drive layout allows for a compact design and improved handling.

**Exterior** The Mini One has a distinctive boxy design with a rounded front end. The exterior is designed to be functional and durable. The car features a large front grille, round headlights, and a prominent front bumper. The rear features a large rear window and a prominent rear bumper.

**Interior** The Mini One has a simple and functional interior. The car features a dashboard with analog gauges and a steering wheel with a three-spoke design. The seats are upholstered in a durable fabric. The interior is designed to be practical and easy to use. The car also features a radio and a power window.

**Wheels** The Mini One is equipped with steel wheels and tires. The car features a front-wheel-drive layout with a front-wheel-drive engine and a front-wheel-drive transmission. The wheels are designed to provide a stable and responsive driving experience. The tires are designed to provide good traction and handling.

**Performance** The Mini One is designed to provide a responsive and agile driving experience. The car features a front-wheel-drive layout with a front-wheel-drive engine and a front-wheel-drive transmission. The car is designed to be fun to drive and easy to maneuver. The car also features a steering wheel with a three-spoke design.

**Handling** The Mini One is designed to provide a responsive and agile driving experience. The car features a front-wheel-drive layout with a front-wheel-drive engine and a front-wheel-drive transmission. The car is designed to be fun to drive and easy to maneuver. The car also features a steering wheel with a three-spoke design.

**Reliability** The Mini One is designed to provide a responsive and agile driving experience. The car features a front-wheel-drive layout with a front-wheel-drive engine and a front-wheel-drive transmission. The car is designed to be fun to drive and easy to maneuver. The car also features a steering wheel with a three-spoke design.

## DIMENSIONS



REAR FACE

1000

2000

3000

4000

5000

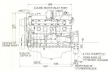
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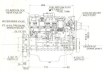
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FRONT VIEW



PLAN VIEW & H.S.O



# INDUSTRIAL ENGINE

## SA6D108-1



### SPECIAL FEATURES



**Highly efficient** The SA6D108-1 achieves excellent performance of low fuel consumption, excellent torque, low starting oil consumption and low oil consumption through advanced engine technology and excellent use of components.

**Highly reliable** The SA6D108-1 is a robust engine with a long life span. It has a proven design and a proven maintenance system. It has a low maintenance cost and a long life span.

**Excellent operation** The SA6D108-1 is a robust engine with a long life span. It has a proven design and a proven maintenance system. It has a low maintenance cost and a long life span.

**Lightweight and compact design** The SA6D108-1 is a robust engine with a long life span. It has a proven design and a proven maintenance system. It has a low maintenance cost and a long life span.

**Wide application** The SA6D108-1 is a robust engine with a long life span. It has a proven design and a proven maintenance system. It has a low maintenance cost and a long life span.

**Excellent operation** The SA6D108-1 is a robust engine with a long life span. It has a proven design and a proven maintenance system. It has a low maintenance cost and a long life span.

### SPECIFICATIONS

Operating		Basic	Options
Rated power	(at 1800 RPM)	130 kW	160 kW
Rated torque	(at 1200 RPM)	3700 N·m	4500 N·m
Total			As per engine model
Cylinder		6	6
Cylinder arrangement		In-line	In-line
Displacement		10.8 L	10.8 L
Stroke		135 mm	135 mm
Compression ratio		16.5	16.5
Crankshaft speed		1800 rpm	1800 rpm
Weight		1000 kg	1000 kg
Rated capacity		1000 kg	1000 kg
Oil capacity		100 L	100 L
Dimensions			
Height		1000 mm	1000 mm
Width		1000 mm	1000 mm
Depth		1000 mm	1000 mm

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## HYDRAULICS

### Performance



Operating flow and pressure characteristics are based on hydraulic pressure with the engine at 1800/2000 rpm (ISO).

- |                    |               |
|--------------------|---------------|
| ● Maximum flow     | ○ Full range  |
| ● Maximum pressure | ● Maximum dig |

### Flow

**Flow** The only hydraulic flow rate, 2300 l/min, is available for any one hydraulic circuit. The hydraulic system is designed to allow the operator to operate with maximum efficiency.

**Pressure** The hydraulic system is able to deliver 28 bar of pressure. This pressure is used to drive hydraulic actuators. The hydraulic system is designed to allow the operator to operate with maximum efficiency.

**Flow** The hydraulic system is designed to allow the operator to operate with maximum efficiency. The hydraulic system is designed to allow the operator to operate with maximum efficiency.

## STANDARD EQUIPMENT

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|---|--|
| <ul style="list-style-type: none"> <li>● Hydraulic</li> <li>● Engine monitor</li> <li>● Air filter</li> <li>● Air conditioning</li> <li>● Air conditioning (add on)</li> <li>● Exhaust</li> <li>● 600 hour meter</li> <li>● 600 hour</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> </ul> | <ul style="list-style-type: none"> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> <li>● 600 hour warning light (add on)</li> </ul> |
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## OPTIONAL EQUIPMENT

- 600 hour warning light (add on)
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Standard equipment is shown in a separate chapter of this manual.

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