

MITSUBISHI DIESEL ENGINE

S4S



MITSUBISHI
DIESEL ENGINE

Diesel engines play a leading role in city construction work, demonstrating excellent power performance combined with low noise and low levels of smoke emission, thus providing heavy duty service with no environmental disturbance.

How can you get clean construction air everywhere? Construction and industrial equipment is often used at night in the worst case in urban areas, especially in residential areas, increasing the importance of "low noise levels", "low levels of smoke emission" and "high-power performance" at construction sites.

The Mercedes-Benz **OM 904 LA** engine is a high-performance engine, featuring the long-stroke-cylinder technology and inter-cooled turbo-charger. These features, the **OM 904 LA** performance of the engine has an absolute reputation for being easy on the functions of "low noise", "low smoke emission".

OM 904 LA has great advantages, including: heavy duty use, low and low-noise, environmental protection.





1. "Quietness," the No. 1 requirement for city work, has been sought. Thus, the lowest noise level has been achieved among engines of the same category.

Due to the optimum building of its combustion system and the thorough analysis of each stroke, the highest level of quietness has been attained. Reduced vibration and noise level in particular have been well achieved by designing the crank case wall in a special shape, adding air as necessary to increase speed, to achieve the same fuel burn and efficiency that are usually achieved in other gas engine systems.

2. The clean exhaust-gas design doesn't burden the environment or people with pollution.

Low levels of smoke emission have been achieved in the exhaust by improving the combustion system, by thorough research on the shape of the combustion chamber, and by using, for example, a design providing optimum displacement volume to achieve complete combustion. In the city, this construction has been tested for 100% in clean engines which require special design for environmental protection.



However, which of these methods is more suitable depends on the engine's operating conditions.



3. Direct injection type or pre-chamber type can be selected according to requirements.

Two engine types—direct injection type and pre-chamber type—are available allowing the engine to respond to other systems in other cars. The engine can also be mounted on various chassis such as sub-compact machines and trucks.

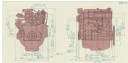
4. Superior performance of Mitsubishi engines

Thanks to low fuel consumption, high torque output and ease of maintenance, the characteristics of Mitsubishi engines are superior to the engine. Thus, the full engine value is demonstrated in people's convenience and ultimate heavy duty service.





Dimension



Specifications

mm		inch	
Cylinder bore		124	4.88
Stroke	140	5.51	21.70
Net displacement	1.9	116	7.07
Maximum gross output kW (PS)	100 (136)	136	185
Maximum torque	300	220	160
Oil weight	10	0.35	1.25
Pressure	Crackling	100	7.38
	Crackling	1.0	0.07
	Crackling	10	0.73

kg is approximate value in this product

Performance Curve



Output

Engine speed (rpm)	kW		PS	
	Net	Gross	Net	Gross
1500	75	85	102	115
1400	70	80	95	108
1300	65	75	88	102
1200	60	70	81	95
1100	55	65	74	88
1000	50	60	67	81
900	45	55	60	74
800	40	50	53	67
700	35	45	46	60
600	30	40	39	53
500	25	35	32	46

Net 1000 r/min output is based on gross output

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