



Doosan Compact Diesel Engines SP/SU Series 7~139kW



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High Performance Compact Engines

Doosan Compact Diesel Engines deliver optimized performance even under the harshest conditions in any application thanks to turbocharging with an intercooler and advanced fuel injection systems.

Easy Operation

Customers benefit from easy maintainability. Simple aftertreatment without a Diesel Particulate Filter (DPF) minimizes maintenance needs, preventive repairs and operating costs. In addition, operator is made easier through longer oil and filter service intervals.

Reliable and Durable

By analyzing the root cause of customer downtime, Doosan Infracore has developed engines robust enough to increase the uptime and minimize unplanned downtime. Challenging working conditions are now overcome with extremely high build quality.

Innovative Aftertreatment System

SP Electronic Engines meet Tier 4 Final emissions regulations with the use of Diesel Oxidation Catalyst (DOC) but without DPF. A non-DPF system contributes to easy and flexible installation, long maintenance intervals and low total life cycle costs. Also, we introduce reliable cooled Exhaust Gas Recirculation (EGR) to reduce up to 95% of NOx.

SP/SU Mechanical Engines

Model Name		SP103N				SP173NA		SP224NA		SP244TA		SP484TA		SP484LA	
Performance	rpm	50Hz		60Hz		50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
		Max.power kW	Prime	1500	3000	1800	3600	1500	1800	1500	1800	1500	1800	1500	1800
	Stand by	7.2	14.8	9.0	14.8	13.5	15.3	16.2	21.6	22.5	27.0	85.0	107.0	107.0	125.0
		8.0	16.4	10.0	16.4	15.0	17.0	18.0	24.0	25.0	30.0	95.0	118.0	118.0	139.0
Main Characteristics	Cylinder	I-3				I-3		I-4		I-4		I-4		I-4	
	Engine control	Mechanical				Mechanical		Mechanical		Mechanical		Mechanical		Mechanical	
	Fuel Injection System	In-direct injection				In-direct injection		In-direct injection		In-direct injection		In-direct injection		In-direct injection	
	Aspiration	NA				NA		NA		TC		TC		TI	
	Turbocharger	-				-		-		Wastegate Type		Wastegate Type		Wastegate Type	
	Valve arrangement	2 valves				2 valves		2 valves		2 valves		2 valves		2 valves	
	Emission compliance	US	Tier4				Tier3		Tier3		Tier3		Tier3		Tier3
	EU	StageIIIA				StageIIIA		StageIIIA		StageIIIA		StageIIIA		StageIIIA	
Technical Features	Bore X Stroke (mm)	75 X 76				87 X 92.4		87 X 92.4		87 X 102.4		105 X 137		105 X 137	
	Displacement (cc)	1007				1647		2197		2435		4800		4800	
	Engine weight (kg)	101				178		207		214		580		590	
Dimension	L (mm)	505				615		766		766		1500		1500	
	W (mm)	482				495		495		510		1000		1000	
	H (mm)	553				628		630		723		1420		1420	

Model Name		SU103NA	SU103NB	SU173NB	SU224NA	SU244TA	-	-
Performance	power (kW)	16.2 / 2,800	17.5 / 3000	26.1 / 2,600	33.6 / 2,600	44.0 / 2,600	-	-
	Torque (Nm)	63.8 / 1,900	61 / 2300	107 / 1,700	140 / 1,700	190 / 1,700	-	-

SP/SU Electronic Engines

Model Name		SP183CA		SP244CA		SP344CA	
Performance	rpm	50Hz	60Hz	50Hz	60Hz	50Hz	60Hz
		Max.power kW(ps)	1500	1800	1500	1800	1500
	Prime	23(31)	25(34)	38(52)	44(60)	60(82)	63(86)
	Stand by	26(35)	29.5(40)	42(57)	50.5(69)	66(90)	72.6(99)
Main Characteristics	Cylinder	I-3		I-4		I-4	
	Engine control	Full electronic engine management					
	Fuel Injection System	High pressure common rail (1800bar) : Delphi					
	Aspiration	TI		TI		TI	
	Turbocharger	Wastegate Type					
	EGR	External cooled EGR					
	Aftertreatment	DOC		DOC		DOC + SCR	
Valve arrangement	4 valves per cylinder						
Emission compliance	US	Tier4F		Tier4F		Tier4F	
	EU	StageIV		StageIV		StageIV	
Technical Features	Bore X Stroke (mm)	90 x 94		90 x 94		98 x 113	
	Displacement (cc)	1794		2392		3409	
	Engine weight (kg)	211		246		360	
Dimension	L (mm)	606.5		706.5		817.1	
	W (mm)	519.8		519.8		597.4	
	H (mm)	699		699		766.1	

Model Name		SU183CA	SU244CA	SU344CA
Performance	power (kW)	36.5 / 2,800	55 / 2,600	100 / 2,400
	Torque (Nm)	165 / 1,800	280 / 1,600	500 / 1,400

*Aspiration : NA (Naturally Aspirated) / TC (Turbocharged) / TI (Turbocharged Inter-cooled)