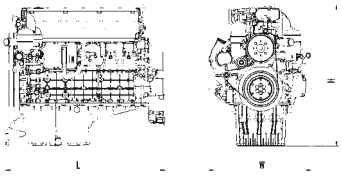
Industrial

DIESEL ENGINE 6R 906 C

for C&I, Mining, Agriculture and Forestry applications



Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
6R 906 C01	1087 x 688 x 956 (43 x 27 x 38)	530 (1168)

All dimensions are approximate, for complete information refer to the installation drawing.

Engine		
Bore/stroke	mm (in)	102/130 (4.05/5.1)
Cylinder configuration		6 cyl./In-line
Displacement/cylinder	l (cu in)	1.06 (65)
Displacement, total	l (cu in)	6.4 (391)
Fuel specification		EN 590, Grade No.1-D/2-D

manufactured by

customized by

Optional equipment and finishing shown. Standard may vary.

	Rated power ICFN			Peak torque			Optimization
	kW	bhp	rpm	Nm	lb-ft	rpm	
Application	**Heavy duty operation (5A)**						
6R 906 C21	130	174	2200	700	516	1200-1600	20, 23, 31
6R 906 C31	150	201	2200	750	553	1200-1600	20, 23, 31
Application	**Medium duty operation (5B)**						
6R 906 C51	170	228	2200	810	597	1200-1600	20, 23, 31
6R 906 C61	190	255	2200	1000	738	1200-1600	20, 23, 31
6R 906 C71	205	275	2200	1100	811	1200-1600	20, 23, 31

Optimization:
20 EPA Nonroad T3 Comp (40CFR89)
23 EU Nonroad St IIIA Comp (97/68/EC)
31 China NRMM Stage III (GB20981-2014)

A Rolls-Royce solution

Application	Power definition	
5A	Continuous operation w/100% load	Load factor: ≥ 60 %, Operating hours: unrestricted, Overload: Fuel stop (ICFN)
5B	Continuous operation w/variable load	Load factor: < 60 %, Operating hours: unrestricted, Overload: Fuel stop (ICFN)

Power output within 5% tolerance at standard conditions. Power definition according to ISO 3046 (ratings also correspond to SAE J 1995 and SAE J 1349 standard conditions)
Consult your distributor/dealer for the rating that will apply to your specific application.

Standard equipment	
Starting system	Electrical starter 24 V, alternator 28 V/80 A
Fuel system	High pressure fuel injection with solenoid-valve controlled unit injection pumps and multijet fuel injectors, fuel filter
Lube oil system	Oil filter
Air system	Turbo charging with charge-air cooling
Exhaust gas system	Tree valves per cylinder
Coolant system	Water-charge-air cooling
Flywheel/housing	SAE 1/SAE 2
Engine mounting	Resilient
Electronics and instrumentation	Electronic engine management

Optional equipment	
on request	

Reference conditions:
> Intake-air temperature: 25°C (77°F)
> Ambient air pressure: 1000 mbar (14.5 psi)
> Altitude above sea level: 100 m (328 ft)
Subject to change without notice. Customization possible.
Engines illustrated in this document may feature options not fitted as standard.

Subject to change. | 3233641 | Edition 01/19 | ESM 2019-10.