



G Drive Range
Power,
Performance &
Peace of Mind!

20 hp (15kW) - 1210 hp (890 kW)

k^orloskar
South Africa

About Us

Kirloskar Oil Engines Limited, founded in 1946 and popularly known as KOEL, possesses more than 7 decades of engineering excellence. At Kirloskar, we believe that industry and environment can and must coexist in a mutually beneficial way. This thought has been brought into practice whereby not only are our generating sets eco-friendly, but they are also manufactured in an eco-friendly way.

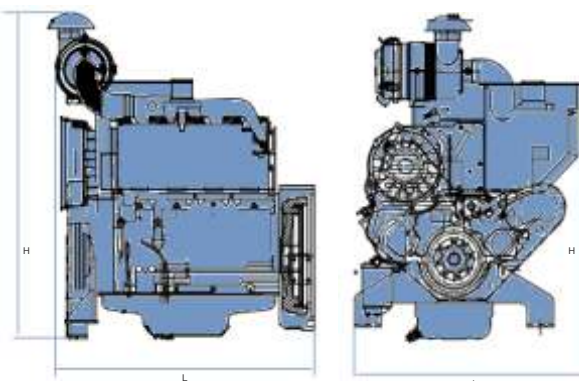
- India's leading manufacturer of diesel engines and generating sets with manufacturing facilities at Kagal, Nashik, Rajokt
- Annual production of over 2,25,000 diesel engines from 4 hp to 11,000 hp and 12,000 generating sets.

- Independent research & engineering cell using high end engine design software and emission testing labs.
- Engines used for more than 100 different applications and supplied to over 60 countries.
- Critical components like crankcase, crankshaft, camshaft, cylinder head, connecting rod, gear casing and many more are manufactured in-house.
- Adopting the principles of Toyota Production systems, we utilize the best combination of man, machine and method for efficiency, speed and high quality.

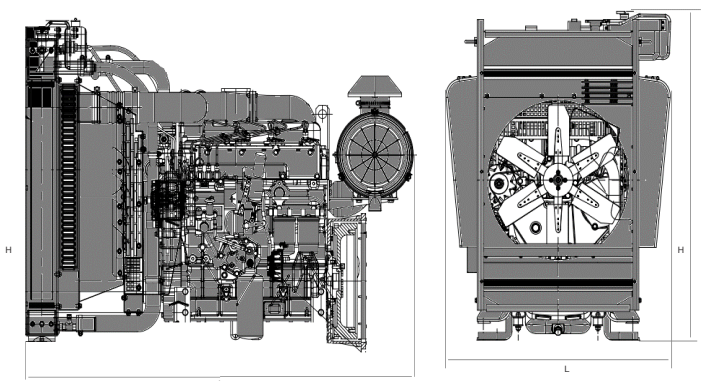
Features & Benefits

Features	Benefits	Available on
500 hours service interval	Higher uptime, Reduced man hours and OPEX	All engines
Precise sensors	Enhanced engine safety	All engines
Higher fuel efficiency	Reduced OPE	All engines
Unmatched transient performance	Improved operational stability	All engines
Rugged design for different climatic conditions	Ensured reliability, Higher uptime	All engines
Unmatched engine safeties liquid cooled	Low oil pressure, high engine temperature, low coolant level	Liquid cooled
Stone guards for radiator core protection	Protection to the radiator core	Liquid cooled
Unmatched engine safeties air cooled	Low oil pressure, high engine temperature, V belt failure	Air cooled
Guards for rotating parts	Enhanced personnel and equipment safety	All engines
Synchronization compatible	Increased flexibility for synchronization	156hp to 1210hp
Dual rpm switchability	Reduced inventory, space requirement, lead time	On select ratings

Air Cooled



Water Cooled



Kirloskar G Drive Engines Specifications - Air Cooled

Engine Model		HA294		HA394		HA494		HA494TC		HA694		HA694TC							
		Unit																	
Rated speed	RPM	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800						
Prime power output (Gross) as per ISO3046	hp	20.5	23	32	38	43	52	56	65	65	78	83	98						
	kWm	15.0	16.9	23.5	27.9	31.6	38.2	41.2	47.8	47.8	57.4	61.0	72.1						
Standby Power output (Gross) as per ISO3046	hp	22.55	25.3	35.2	41.8	47.3	57.2	61.6	71.5	71.5	85.8	91.3	107.8						
	kWm	16.60	18.62	25.91	30.76	34.81	42.10	45.34	52.62	52.62	63.15	67.20	79.34						
Suitable for Prime power generating set rating as per ISO8528 (At 0.8 pf lag)	kVA	15	17	25	28	30	35	40	45	50	58	62.5	70						
	kWe	12	13.6	20	22.4	24	28	32	36	40	46.4	50	56						
Suitable for Standby power generating set rating as per ISO8528 (At 0.8 pf lag)	kVA	16.5	18.7	27.5	30.8	33	38.5	44	49.5	55	63.8	68.75	77						
	kWe	13.2	14.96	22	24.64	26.4	30.8	35.2	39.6	44	51.04	55	61.6						
Fuel consumption* at Prime power output	75% L/hr	3.07	3.45	4.94	5.83	6.83	8.21	8.15	9.12	10.32	12.53	12.67	14.44						
	100% L/hr	4.03	4.60	6.25	7.35	8.35	10.03	11.07	12.31	12.69	15.32	16.11	18.33						
Cyls & configuration		2 - Inline		3 - Inline		4 - Inline		4 - Inline		6 - Inline		6 - Inline							
Bore x Stroke	mm	100 x 120		100 x 120		100 x 120		100 x 120		100 x 120		100 x 120							
Displacement	L	1.88		2.82		3.78		3.78		5.65		5.65							
Aspiration		NA		NA		NA		T		NA		T							
Starting System	V	12		12		12		12		12		12							
Governor		Mechanical		Mechanical		Mechanical		Mechanical		Mechanical		Mechanical							
Lub oil sump capacity	L	5.5		9		12.5		12.5		15.5		15.5							
Engine Dimensions	mm	678	704	872	808	704	873	938	704	868	938	704	868	1145	704	922	1277	760	878
Engine weight dry net with flywheel	kg	285		340		405		410		497		502							

NA - Naturally Aspirated, T - Turbocharged, TA - Turbocharged After cooled

Notes 1. *With 0.845 Specific Gravity of diesel (5 % Tolerance) 2. These weight are for handling & transportaon only. 3. For site condions other than standard operating condions consult KOEL for available prime power.

Definitions of Ratings : PRP (Prime Power) - PRP ratings are applicable for supplying continuous electrical power at variable load in lieu of commercial purchased power. There is no limitation to the annual hours of operation and this model can supply 10% overload power for 1 hour in 12 hours.

ESP (Emergency Standby Power) - ESP rating is defined as the maximum power available during a variable electrical power sequence, under the stated operating conditions, for which a generating set is capable of delivering in the event of utility power outage.

Kirloskar G Drive Engines Specifications - Liquid Cooled

Engine Model	Unit	2R1040		3R1040		3R1040TA		4R1040		4R1040T		4R1040TA		4K1080TA		6K1080TA									
		Rated speed	RPM	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800						
Prime power output (Gross) as per ISO3046	hp	27.0	30.0	42.0	46.0	56.0	62.0	56.0	62.0	83.0	90.0	105.0	112.0	156.0	170.0	200.0	230.0								
	kWm	19.9	22.1	30.9	33.9	41.2	45.6	41.2	45.6	61.1	66.2	77.3	82.4	114.8	125.1	147.2	169.3								
Standby Power output (Gross) as per ISO3046	hp	29.7	33.0	46.2	50.6	61.6	68.2	61.6	68.2	91.3	99.0	115.5	123.2	171.6	187.0	220.0	253.0								
	kWm	21.9	24.3	34.0	37.2	45.3	50.2	45.3	50.2	67.2	72.9	85.0	90.7	126.3	137.6	161.9	186.2								
Suitable for Prime power generating set rating as per ISO8528 (At 0.8 pf lag)	kVA	20.0	23.0	30.0	35.0	40.0	45.0	40.0	45.0	62.5	72.0	82.5	87.0	125.0	135.0	160.0	184.0								
	Kwe	16.0	18.4	24.0	28.0	32.0	36.0	32.0	36.0	50.0	57.6	66.0	69.6	100.0	108.0	128.0	147.2								
Suitable for Standby power generating set rating as per ISO8528 (At 0.8 pf lag)	kVA	22.0	25.3	33.0	38.5	44.0	49.5	44.0	49.5	68.8	79.2	90.8	95.7	137.5	148.5	176.0	202.4								
	kWe	17.6	20.2	26.4	30.8	35.2	39.6	35.2	39.6	55.0	63.4	72.6	76.6	110.0	118.8	140.8	161.9								
Fuel consumption* at Prime power output	75% L/hr	3.6	4.1	5.1	5.9	6.9	8.1	6.9	8.1	10.8	12.8	13.8	14.7	20.7	23.6	25	31.9								
	100% L/hr	4.7	5.3	6.7	7.6	9.1	10.6	9.1	10.6	14.4	17	18.3	19.2	26.8	31.0	34	42.1								
Cycle & configuration		2 - Inline		3 - Inline		3 - Inline		4 - Inline		4 - Inline		4 - Inline		4 - Inline		6 - Inline									
Bore x Stroke	mm	105 x 120		105 x 120		105 x 120		105 x 120		105 x 120		105 x 120		105 x 125		105 x 125									
Displacement	L	2.08		3.12		3.12		4.16		4.16		4.16		4.32		6.48									
Aspiration		NA		NA		TA		NA		T		TA		TA		TA									
Starting System	V	12		12		12		12		12		12		12		12									
Governor		Mechanical		Mechanical		Mechanical		Mechanical		Mechanical		Mechanical		Electronic		Electronic									
Lub oil sump capacity	L	7		9		9		11		11		11		17		21									
Coolant capacity	L	10		12		12		18		24		24		54		54									
Engine Dimensions including radiator	mm	891	896	840	1039	749	899	1134	788	898	1219	790	1114	1286	784	997	1420	860	1180	1434	930	1257	1825	930	1420
Engine weight with radiator gross / net	kg	395 / 295		520 / 400		540 / 405		615 / 480		645 / 520		750 / 645		750 / 645		----									
Engine weight without radiator gross / net	kg	----		----		----		----		----		----		----		930 / 820									
Radiator and accessories weight gross / net	kg	----		----		----		----		----		----		----		120 / 98									

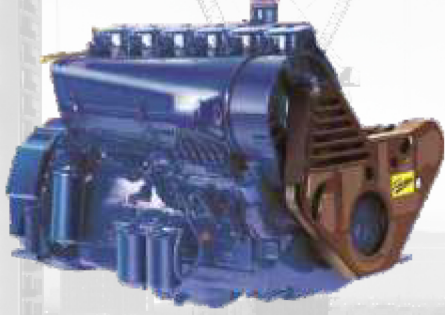
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Kirloskar G Drive Engines Specifications - Liquid Cooled

Engine Model	Unit	6SL1500TA		6SL8800TA		DV8		DV8		DV10		DV12		DV12ETAG12		DV16ETAG1	
Rated speed	RPM	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800	1500	1800
Prime power output (Gross) as per ISO3046	hp	248.0	279.0	310.0	310.0	400.0	400.0	490.0	490.0	608.0	608.0	750.0	750.0	900.0	900.0	1210.0	1210.0
	kWm	182.5	205.3	228.2	228.2	294.4	294.4	360.6	360.6	447.5	447.5	552.0	552.0	662.0	662.0	890.6	890.6
Standby Power output (Gross) as per ISO3046	hp	272.8	306.9	341.0	341.0	440.0	440.0	539.0	539.0	668.8	668.8	787.5	787.5	990.0	990.0	1270.5	1270.5
	kWm	200.8	225.9	251.0	251.0	323.8	323.8	396.7	396.7	492.2	492.2	579.6	579.6	728.0	728.0	935.1	935.1
Suitable for Prime power generating set rating as per ISO8528 (At 0.8 pf lag)	kVA	200.0	225.0	250.0	250.0	320.0	320.0	400.0	400.0	500.0	500.0	600.0	600.0	750.0	750.0	1010.0	1010.0
	kWe	160.0	180.0	200.0	200.0	256.0	256.0	320.0	320.0	400.0	400.0	480.0	480.0	600.0	600.0	808.0	808.0
Suitable for Standby power generating set rating as per ISO8528 (At 0.8 pf lag)	kVA	220.0	247.5	275.0	275.0	352.0	352.0	440.0	440.0	550.0	550.0	660.0	660.0	825.0	825.0	1111.0	1111.0
	kWe	176.0	198.0	220.0	220.0	281.6	281.6	352.0	352.0	440.0	440.0	528.0	528.0	660.0	660.0	888.8	888.8
Fuel consumption* at Prime power output	75% L/hr	31.9	39.5	41.9	44.4	49.5	51.8	61.6	63.2	75.6	79.5	92.7	92.5	115	118	161	165
	100% L/hr	42.3	51.4	55.1	56.2	66	69.2	80.4	84.9	97	106.7	124	127	152	159	208	218
Cycle & configuration		6 - Inline		6 - Inline		8 - V		8 - V		10 - V		12 - V		12 - V		16 - V	
Bore x Stroke	mm	118 x 135		118 x 135		130 x 150		130 x 150		130 x 150		130 x 150		130 x 150		130 x 150	
Displacement	L	8.86		8.86		15.91		15.91		19.91		23.88		23.88		31.86	
Aspiration		TA		TA		TA		TA		TA		TA		TA		TA	
Starting System	V	24		24		24		24		24		24		24		24	
Governor		Electronic		Electronic		Electronic		Electronic		Electronic		Electronic		Electronic		Electronic	
Lub oil sump capacity	L	24		24		41		41		45		45		53		130	
Coolant capacity	L	43		43		123		123		133		144		166		180	
Engine Dimensions including radiator	mm	2038 1216 1574		2043 1227 1752		2056 1624 1547		2056 1624 1547		2247 1715 1684		2424 1730 2027		2840 1704 1175		3465 2056 2140	
Engine weight with radiator gross / net	kg	----		----		----		----		----		----		----		----	
Engine weight without radiator gross / net	kg	1210 / 950		1210 / 950		2030 / 1920		2030 / 1920		2530 / 2230		3030 / 2540		3180 / 2690		4240 / 3750	
Radiator and accessories weight gross / net	kg	300 / 200		300 / 200		690 / 570		690 / 570		900 / 770		1110 / 970		1230 / 1090		1370 / 1220	

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HA Series
20.5hp to 98hp



R Series
27hp to 112hp



K Series
156hp to 230hp



SL Series
248hp to 310hp



DV Series
400hp to 1210hp

kirloskar
South Africa

limitless

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