

**karloskar**

**OFF HIGHWAY &  
INDUSTRIAL ENGINES**



## ***Engine you can rely on***

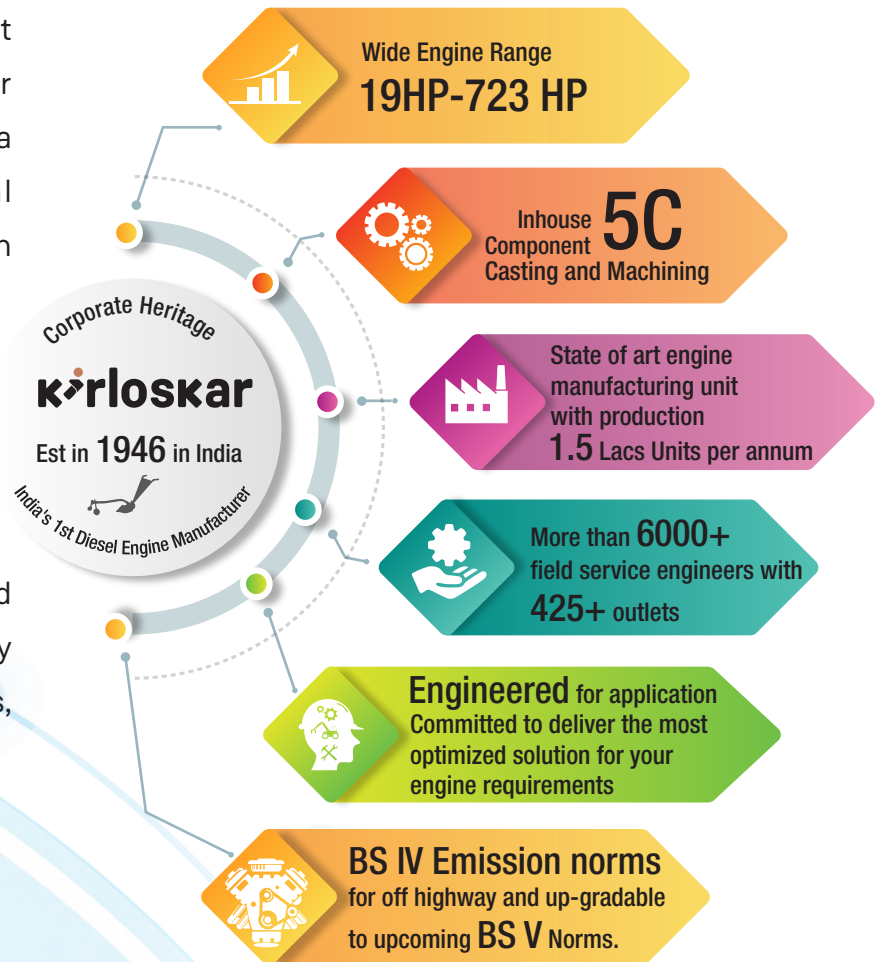
- Highest Reliability
- Lowest Operating Cost
- High Backup Torque
- 24 x 7 KOEL Care Support

**karloskar**  
Oil Engines

Incorporated in 1946, Kirloskar is the flagship company of the Kirloskar group. We have four state-of-the-art manufacturing units in India that offer world-class service. The company has a sizable presence in international markets, with offices in Dubai, South Africa, Kenya & the United States with representatives in Indonesia and Nigeria. Kirloskar also has a strong distribution network throughout the Middle East and Africa.

Today Kirloskar is an acknowledged leader in the manufacturing off highway diesel engines, agricultural pumpsets, power tillers and generating sets.

## FACTS AND FIGURES









































# BS IV ENGINES

## Vertical, Water Cooled, Direct Injection, 4 Stroke Variable Speed Diesel Engines

The Kirloskar 4R Series is the most proven and widely used medium horse power water cooled engine, in the power range 74 HP to 150 HP.

Engine Model	No of Cylinder	Displacement (CC)	Rated Power @Speed (HP@RPM)	Max. Torque @Speed (Nm@RPM)	EGT	Applications
4R810	4 Cyl	810	49HP@2200 RPM	203 Nm@1400 RPM	Not Required	 Crane  Forklift  Self Loading Concrete Mixer  Excavator
4R1040NA	4 Cyl	1040	49HP@2200 RPM	227 Nm@1200 RPM	Not Required	 Excavator  Backhoe Loader
4R1190NA	4 Cyl	1190	74.5 HP@2200 RPM	300 Nm@1320 RPM	DOC	 Crane  Forklift  Self Loading Concrete Mixer  Backhoe Loader  Paver  Excavator  Soil Compactor  Wheel Loader  Tele-handler
4R1190TA ( High Torque )	4 Cyl	1190	74.5 HP@2200 RPM	400 Nm@1320 RPM	DOC	 Backhoe Loader  Excavator  Tele-handler
4R1190TA	4 Cyl	1190	110HP@2200 RPM	450 Nm@1320 RPM	DOC+SCR	 Crane  Forklift  Self Loading Concrete Mixer  Paver  Excavator  Motor Grader  Soil Compactor  Wheel Loader  Harvester
4R1190TA	4 Cyl	1190	130HP@2200 RPM	550 Nm@1320 RPM	DOC+SCR	 Motor Grader  Wheel Loader  Excavator  Paver  Harvester
4K	4 Cyl	1080	150 HP@ 2200 RPM	650 Nm@1320 RPM	DOC+SCR	 Excavator  Wheel Loader  Motor Grader  Paver

### Salient Features

#### 4R810NA ENGINE - 49 HP

- 1) Naturally aspirated engine
- 2) No requirement of After-treatment
- 3) Mechanical Fuel system

#### 4R1040NA ENGINE - 49 HP

- 1) Naturally aspirated engine
- 2) No requirement of After-treatment
- 3) Mechanical Fuel injection system

#### 4R1190NA ENGINE - 74.5 HP

- 1) Naturally aspirated engine
- 2) Engine mounted DOC
- 3) No requirement of SCR and DPF
- 4) Engine Mounted ECU

#### 4R1190 TA ENGINES - 110 & 130 HP

- 1) Turbocharged after cooled engine
- 2) Engine Mounted ECU
- 3) Engine mounted DOC + SCR

#### 4K TA ENGINE - 150 HP

- 1) Turbocharged after cooled engine
- 2) Engine Mounted ECU
- 3) Single line after treatment













BSIV 74HP

BSIV 110HP

# WATER COOLED ENGINES - R SERIES

## Vertical, Water Cooled, Direct Injection, 4 Stroke Variable Speed Diesel Engines.

The Kirloskar R Series are the compact and low horse power water cooled engines, in the power range of 60 HP to 170 HP.

Engine Model	Number of Cylinders	Displacement (CC)	Rated Power @Speed (HP@RPM)	Max. Torque @Speed (Nm@RPM)	Applications
3R810NA	3 Cyl	810	39 HP@2200 RPM	144Nm@1500 RPM	 Tractor  Mini Compactor
3R1040NA	3 Cyl	1040	45 HP@2000 RPM	188 Nm@1300 RPM	 Tractor
			50 HP@2200 RPM	188 Nm@1300 RPM	
4R810NA	4 Cyl	810	49.5 HP@2000 RPM	212 Nm@1200 RPM	 Forklift  Crane  Backhoe Loader  Self Loading Concrete Mixer
			49.5 HP@2200 RPM	203 Nm@1400 RPM	
4R810T	4 Cyl	810	60 HP@2400 RPM	215 Nm@1600 RPM	 Crane  Air Compressor  Backhoe Loader  Self Loading Concrete Mixer



3R 1040




















4R 810

1. Engine test standard - ISO 3046.
2. Direction of rotation - Counter clock wise from fly wheel end side.
3. Engine Electrical Sytem - 12 Volts ( For 24 Volts system please get in touch with KOEL representative ).

# WATER COOLED ENGINES - R SERIES

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The Kirloskar R Series are the compact and low horse power water cooled engines, in the power range of 60 HP to 170 HP.

Engine Model	Number of Cylinders	Displacement (CC)	Rated Power @Speed (HP@RPM)	Max. Torque @Speed, (Nm@RPM)	Applications
4R1040 NA	4 Cyl	1040	72 HP@2200 RPM	300 Nm@1500 RPM	 Tractor
			60 HP @2000 RPM	300 Nm@1500 RPM	 8T Excavator
			76 HP@2200 RPM	290 Nm@1320 RPM	
4R 1040 T	4 Cyl	1040	94 HP@1950 RPM	375 Nm@1400 RPM	 Compressor
			105 HP@2200 RPM	375 Nm@1400 RPM	 Excavator
			110 HP@2500 RPM	375 Nm@1400 RPM	 Compressor
4R 1040 T	4 Cyl	1040	76 HP@2200 RPM	300 Nm@1500 RPM	 14T Excavator
					 Harvester
					 Backhoe Loader
4R 1040 TA	4 Cyl	1040	90 HP@2000 RPM	350 Nm@1400 RPM	 Forklift
			90 HP@2200 RPM	350 Nm @1400 RPM	 Asphalt Compactor
			96 HP@2200 RPM	377 Nm@1400 RPM	 Wheel Loader
			105 HP@2200 RPM	375 Nm@1300 RPM	 Backhoe Loader
			110 HP@2500 RPM	380 Nm@1300 RPM	 Forklift
					 Soil Compactor
					 Self Loading Concrete Mixer
					 Dumper Truck
					 Paver



4R 1040



4R 1040T











4R 1040TA

1. Engine test standard - ISO 3046.
2. Direction of rotation - Counter clock wise from fly wheel end side.
3. Engine Electrical Sytem - 12 Volts ( For 24 Volts system please get in touch with KOEL representative ).

# WATER COOLED ENGINES - R SERIES

## Vertical, Water Cooled, Direct Injection, 4 Stroke Variable Speed Diesel Engines.

The Kirloskar R Series are the compact and low horse power water cooled engines, in the power range of 60 HP to 170 HP.

Engine Model	Number of Cylinders	Displacement (CC)	Rated Power @Speed (HP@RPM)	Max. Torque @Speed, (Nm@RPM)	Applications
6R1080T	6 Cyl	1080	133 HP@1800 RPM	525 Nm@1800 RPM	 Compressor  Excavator  Paver  Fishing Trawler
			166 HP@2200 RPM	530 Nm@2200 RPM	
			150 HP@1900 RPM	591 Nm@1500 RPM	
			169 HP@2300 RPM	585 Nm@1600 RPM	
6R1080TA	6 Cyl	1080	180 HP @ 2100 RPM	670 Nm@1400 RPM	 Concrete Pump
6R1080TA	6 Cyl	1080	125 HP@2300RPM	422 Nm@1700 RPM	 Wheel Loader  Paver  Motor Grader
			130 HP@2500 RPM	415 Nm@1600 RPM	
			169 HP@2300 RPM	625 Nm@1300 RPM	
















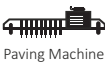

6R 1080TA

1. Engine test standard - ISO 3046.
2. Direction of rotation - Counter clock wise from fly wheel end side.
3. Engine Electrical Sytem - 12 Volts ( For 24 Volts system please get in touch with KOEL representative ).

# HA ENGINES

## Vertical, Air Cooled, Direct Injection, 4 Stroke Variable Speed Diesel Engines.

The Kirloskar HA 294, HA 394, HA 494 and HA 694 series are the flagship Air Cooled Diesel Engines series. This series offers engine from 2 cylinder to 6 cylinder with a displacement from 1.9 Ltr to 5.6 Ltr and power output ranging from 25 HP to 110 HP. These engines are best known for its compact size and low maintenance. They go into variety of applications for Construction, Material Handling and other Industrial segments.

Engine Model	Number of Cylinders Bore x Stroke (MM)	Displacement (CC)	Rated Power @Speed (HP@RPM)	Max. Torque @Speed, (Nm@RPM)	Applications
HA294NA	2 Cyl (100 x 120)	940	25 HP@2000 RPM	93 Nm@1400 RPM	 Bitumen Sprayer  Plastering Machine
			27.5 HP@2300 RPM	93 Nm@1400 RPM	
HA394NA	3 Cyl (100 x 120)	940	38 HP@1800 RPM	158 Nm@1400 RPM	 Transit Mixer  Concrete Pump
			47 HP@2300 RPM	158 Nm@1400 RPM	
HA494NA	4 Cyl (100 x 120)	940	52 HP@1800 RPM	213 Nm@1800 RPM	 Transit Mixer  Ground Powering Unit  Drilling Rig  Concrete Pump
			66 HP@2300 RPM	210 Nm@1500 RPM	
			70 HP@2500 RPM	210 Nm@1500 RPM	
Ha694	6 Cyl (100 x 120)	940	120 HP@2800 RPM	426.7 Nm@1700 RPM	 Transit Mixer  Concrete Pump  Ground Powering Unit
			110 HP@2500 RPM	330 Nm@1500 RPM	
			106 HP@2300 RPM	330 Nm@1400 RPM	
			106 HP@2500 RPM	330 Nm@1500 RPM	
HA694T	6 Cyl (100 x 120)	940	100 HP@2300 RPM	318 Nm@1500 RPM	 Piling winch  Concrete Pump  Paving Machine  Low Haulage Dumper
			101 HP @ 2300 RPM	390 Nm @ 1500 RPM	
			110 HP @ 2300 RPM	350 Nm @ 1500 RPM	



HA 394



HA 494



HA 694

1. Engine test standard - ISO 3046.
2. Direction of rotation - Counter clock wise from fly wheel end side.
3. Engine Electrical Sytem - 12 Volts ( For 24 Volts system please get in touch with KOEL representative ).





# WIDEST SERVICE COVERAGE

## 24 X 7 WE ARE THERE BECAUSE WE CARE



- 425+ KOEL Care Centres
- 6000+ KOEL Trained Service Personnel
- 4 Zonal KOEL Service Training Centres
- 17 KOEL Area Offices
- 70+ KOEL Helpdesk Personnel

**Kirloskar**  
Oil Engines

[www.kirloskarlimitless.com](http://www.kirloskarlimitless.com)

**Kirloskar Oil Engines Limited**

A Kirloskar Group Company

Laxmanrao Kirloskar, Khadki,

Pune 411 003 INDIA.

For more information,



**8806334433**

**koel.helpdesk@kirloskar.com**

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