



**Well thought out
Diesel Engines**
HA Series - Air-Cooled



karloskar
South Africa

A RICH TRADITION OF ENGINEERING EXCELLENCE

The Kirloskar HA Series range of Air Cooled Diesel Engines has undergone significant evolution since its inception, adapting to technological advancements and ever changing market needs. Here's a look at its journey through the decades:

1960s-1970s: The Foundation Years

Launch and Inception: The first generation of HA Series Engine was launched in the late 1960s. These engines were immediately well-received for their robust construction and reliable performance specifically attributed to the Air Cooled nature of its design.

1980s-1990s: Expanding Horizons

Technological Upgrades: During this period, Kirloskar introduced several technological upgrades to the HA Series Engine. Improvements in fuel injection systems and cooling mechanisms enhanced the engine's efficiency and performance.

2000s: Embracing Modernity

Emission Standards: With increasing focus on environmental sustainability, Kirloskar upgraded the HA Engine to comply with stringent emission standards. The adoption of cleaner technologies reduced the engine's environmental footprint.

Digital Integration: The incorporation of digital controls and monitoring systems marked a significant leap in the evolution of the HA Series Engine. These advancements enabled better performance monitoring, predictive maintenance, and remote diagnostics.

2010s-Present: Leading the Future

Efficiency and Sustainability: The latest iterations of the HA Series Engine are designed with a strong emphasis on fuel efficiency and sustainability. Innovations such as turbocharging have further optimized performance.

Global Reach: The HA Series Engine has not only maintained its strong presence in India but has also gained recognition in international markets. Its reliability, cost-effectiveness, and adaptability have made it a preferred choice worldwide. It has specifically made inroads in the underground mining sector and is a preferred choice powering trackless mobile machinery for various well known mining houses.

The Legacy Continues

The Kirloskar HA Series Engine's journey from a humble beginning to becoming an industry icon is a testament to Kirloskar's unwavering commitment to excellence. Today, the HA Series Engine stands as a symbol of innovation, resilience, and customer-centricity.

The Kirloskar HA Series Engine is more than just a piece of machinery; it is a legacy of trust and innovation. Its evolution over the decades reflects KOEL's dedication to meeting the changing needs of its customers and embracing advancements in technology. As the HA Series Engine continues to power progress in various sectors, it remains a shining example of engineering excellence and a proud emblem of the Kirloskar Group's enduring legacy.

"Built Africa Tuff"

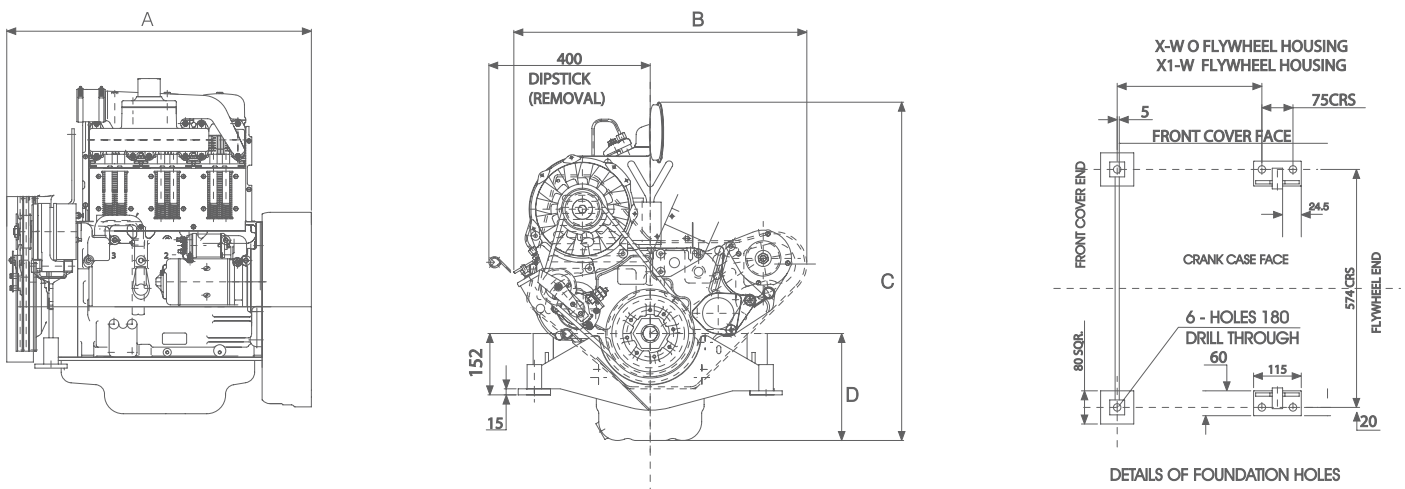


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BRIEF SPECIFICATIONS

Engine Model	HA294	HA394	HA494	HA594	HA694	HA694TC
Cylinder Arrangement	2	3	4	5	6	6
Aspiration	Naturally Aspirated					Turbocharged
Bore x Stroke (mm)	100 x 120					
Displacement (Ltrs)	1.88	2.83	3.79	4.71	5.66	5.66
Compression Ratio	17:01				18:01	
Firing Order	1-2	1-3-2	1-3-4-2	1-2-4-5-3	1-5-3-6-2-4	1-5-3-6-2-4
Governing	Mechanical					Mechanical/ Electronic
Direction of Rotation	Counter-clockwise (looking at the flywheel end)					
Starting Method	Electrical					
Flywheel Housing	SAE - 3					
Flywheel	Centaflex / Industrial 11.5"					
L X W X H (mm)	678 X 704 X 872	808 X 704 X 868	938 X 704 X 868	999 X 704 X 874	1277 X 704 X 922	1145 X 704 X 878
Dry Gross Weight	346kg	403kg	405kg	493kg	497kg	502kg
Power Rating	kW bhp Nm	kW bhp Nm	kW bhp Nm	kW bhp Nm	kW bhp Nm	kW bhp Nm
1500rpm	14 19 99	24 32 167	32 43 202	43 58 275	48 65 305	61 82 389
1800rpm	17 23 98	28 38 164	38 51 201	52 70 271	58 78 303	72 97 376
2000rpm	18 24 97	30 40 161	41 55 197	55 74 262	63 85 298	76 102 366
2300rpm	20 27 94	35 47 156	46 62 193	58 78 242	70 94 290	81 109 342

Note: Please consult with us directly to select an engine that best suits your requirement.



limitless

STANDARD SCOPE OF SUPPLY

- 12V Starter Motor
- 12V Charging Alternator
- SAE 3, 4 or 5 Flywheel Housing
- 10" Centaflex or 11.5" Industrial Flywheel
- Tin Sump
- Exhaust Manifold cum Silencer
- V-Belt Guard
- Dry Type Air Cleaner
- Solid Engine Mountings
- First Fill Engine Oil
- Bosch Inline Mechanical Fuel Pump
- Mechanical Shutdown Device (Excluding HA294)
- All Sender Units
- Maintenance and Spare Parts Manuals



OPTIONAL FEATURES

- 50mm Heavy Duty Stub Shaft
- Engine Mounted Fuel tank
- 12V to 24V Electrical Conversion
- 12/24V Stop Solenoid Kit
- Anti-Vibration Engine Mountings
- Various Starting Panel Options
- Engine Throttle Cable
- 12V Starter Motor c/w 9 Pin Bendix and Ring Gear
- Engine Mounted Hydraulic Oil Cooler
- Hydraulic Pump Drive Gear
- 16cc Hydraulic Pump
- LK1500 Compressor Arrangement
- Heavy Duty Air Cleaner Arrangement
- Hydraulic Pump Carrier Plate c/w Coupling, Machined
- 180mm Centrifugal Clutch Kit (HA294 & HA394)
- 12V Battery & Cables

INDUSTRIAL APPLICATIONS



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