HA air-cooled diesels

Model: HA Series of Engines

Specifications:

No. of Cylinders	No. of Cylinders		
Aspiration	Naturally Aspirated (NA), Turbocharged (TC) (4 and 6 cylinder versions)		
Model nomenclature	HA294 (2cyl NA),HA394 (3 cyl NA), HA494 (4cyl NA), HA494TC (4cyl TC), HA694 (6 cyl NA),HA694TC (6 cyl TC)		
Bore X Stroke (mm X mm)	100 X 120		
Cooling	Aircooled, integral cooling system using engine driven axial blower.		
Power range	14 kW - 84.5 kW		
Speed range	1500 rpm - 2500 rpm (2800 rpm for special applications)		
Torque range	92 N.m - 443 N.m		
Weight to power ratio (kg/hp) Wt : Dry weight w/o flywheel Hp : Max. continuous Duty rating	HA394 6.38		
Space envelope	Engine model LXWXH (dimensions in mm) HA294 678 X 704 X 872 HA394 808 X 704 X 868 HA494 938 X 704 X 868 HA494TC 938 X 704 X 868 HA694 1207 X 704 X 922 HA694TC 1145 X 760 X 878		
Emmission (@ 1500 rpm)	Enginemodel Smoke level in Bosch Scale Unit HA294 < 3.5 HA394 < 3.5 HA494 < 3.5 HA494TC < 2.5 HA694 < 3.5 HA694 < 3.5		
Power take off	Clutch Torque converter Coupling Jackshaft		
Optional accessories	24 V Electrical (as against 12 V standard) Instruments Flywheel housing (SAE 1,2,3 & 4), fresh air inlet and exhaust-hot air outlet, ductings to suit containerised equipment applications Safety system against low lub oil pressure, high cylinder head temp. V- Belt failure, overspeed Hydraulic oil cooler		

Hand start arrangement (2 and 3 cyl)
Absorption type silnencer
Spark arrestor
Dry type air cleaner (as against oil bath type std)
Special lub oil sumps to suit high inclinations
Raised oil filling and raised dipstick arrangement
Gear driven hydrualic pump
Belt/gear driven compressor
Flexible coupling
PTOs

Maintenance and usage warranties: 12 months from the date of despatch or 18 months from the date of manufacturing or 3600 working hours whichever is earlier under normal working conditions. (Only for sale in India)

Service call - time response: Average Mean Time to repair is 3 days. (Only for installation in India)

Additional product information:

User Application Sector	Power, Oil and Gas, Construction and Earthmoving, Agriculture, Utilities, Transport	
User Sub Sector	Power generation, Exploration, Extraction, Residential and commercial, Excavation and mining, Large community irrigation schemes, Farm irrigation, Harvesting, Water supply and sewerage, Natural disaster	
Industry Sector	Diesel power, Co-generation, Fire fighting systems, Road transport, Water transport	
Application Areas	Power plants, Prime movers, Electrical systems, Pumping systems, Refrigeration systems, Extraction equipment, Ground breaking, Excavation, Irrigation systems, Flood irrigation, Sprinkler irrigation, Agricultural implements, Tractors, Water supply systems	

Name	Designation	Mobile	
Mr. Ravichandrakumar. R	– Director	- 9841018485	_
Mr. Bhaskaran. S	– Manager – Projects	- 9841819845	
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