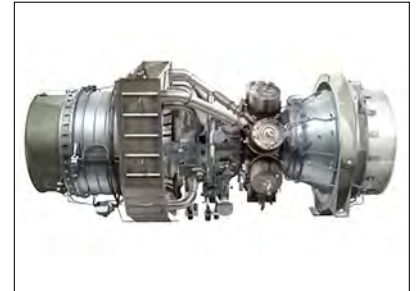


Gas Turbine - Mechanical and Electric Drive

This advanced aeroderivative gas turbine engine sets new standards for the most efficient and most powerful engine available in its class. The engine can be easily configured for mechanical drive and power generation applications rated up to 58 MWe. The unique three-shaft design provides a host of operator benefits including rapid start up times, high availability, and high operating efficiency. Each engine is equipped with a gearbox mounted, multi-stage gerotor style lubrication and scavenge pump developed by Cascon.



Pump Description:

The multi-circuit gerotor pump assembly provides six independent pumping functions; oil supply for gas generator bearing lubrication, and independent scavenge circuits for six engine bearing compartments. Each of the six scavenge housings contain magnetic chip detector-strainer assemblies and resistance temperature detector (RTD) ports. The pump has a quick attach/detach V-Band flange connector per MS3333-2 and a locating dowel to ensure correct alignment on the gearbox mounting pad. The splined input shaft includes a shear section designed to protect against torque overloading of the gearbox. The shear section can be replaced without disassembly of the pump. The pump is a modular construction consisting of cast ductile iron housings mounted on a single steel shaft bolted together with tie rods.

Selected Performance Data:

Fluid	Synthetic ester based oils
Lube Circuit Flow	19.8 GPM @ 215 psid
IGB Scav	31.7 GPM @ 90 psid
EGB Scav	14.5 GPM @ 15 psid
TBH Scav	9.2 GPM @ 40 psid
COT Scav	9.2 GPM @ 0 psid
FBH Scav	14.5 GPM @ 50 psid
HP/IP Scav	14.5 GPM @ 80 psid
Ambient Temp. Range	-45 degF to +250 degF
Operating Speed	4940 rpm
Lube Relief Valve	Integral - 350-375 psid crack
MTBO	60,000 hours
Duty Cycle	Continuous
Weight	75 lbs



