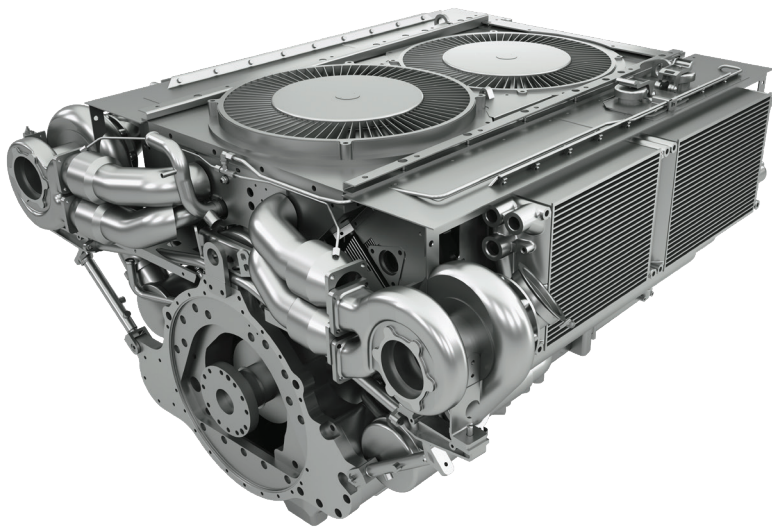


AVDS-1790 ADVANCED CONTROL ENGINE (ACE).

For Combat Vehicles

1007 kW (1350HP), 895 kW (1200HP),
783 kW (1050HP), 700 kW (940HP)



Optionally available as an upgrade package to convert existing AVDS-1790 engines during overhaul

More Power, Increased Reliability

The AVDS-1790 ACE Series represents a transformational upgrade to a modernized configuration including advanced fuel injection technology and an embedded Health Management System (HMS). The resultant engine includes real-time controls and diagnostics, and delivers increased horsepower and a 7X reliability improvement with a 70% reduction in lifecycle cost. The AVDS-1790 ACE provides the power required to maintain the U.S. Army's Single Vehicle Recovery (SVR) requirement for increasingly heavier combat vehicles.



KEY FEATURES:

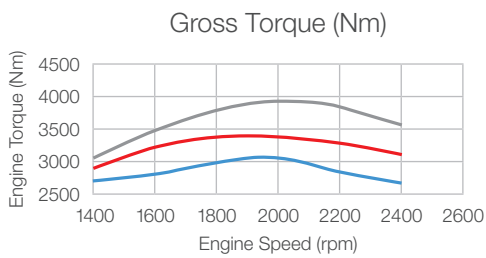
- > Advanced real-time fuel injection management system
- > Adapts to changing load and environmental conditions to maintain highly efficient combustion
- > Increases engine life, fuel efficiency and more consistent and reliable power
- > Starts more easily and reliably, particularly in cold conditions
- > Lowers noise and smoke to dramatically enhance crew comfort and exposure
- > Modular common rail fuel system components, sensors and actuators proven in most severe commercial applications
- > State of the art controller designed specifically for combat vehicle use
- > Reduce total cost of ownership through simplified logistics with worldwide depot support and AVDS-1790 compatibility
- > Plug & play components without any tedious mechanical calibration or alignment
- > Meets industry standards for vehicle communications and security
- > Affordable & available technology

AVDS-1790 ADVANCED CONTROL ENGINE (ACE).

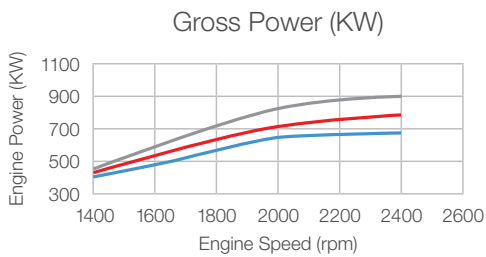


Learn more about engines for combat vehicles from RENK.
www.renk-group.com/goto/ci-edc2b4

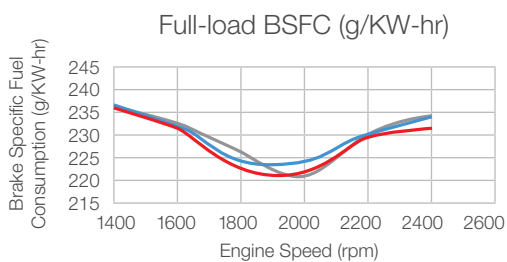
Torque



Power



Fuel Consumption

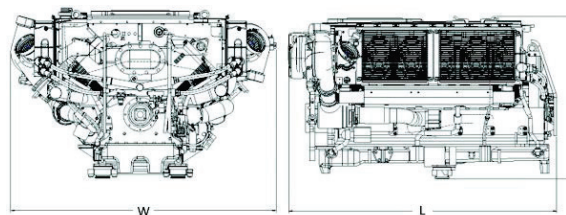


- 701 kW (940HP)
- 783 kW (1050HP)
- 895 kW (1200HP)

Technical Data

BASIC SPECS	
Bore/stroke mm (in)	146 (5.75)
Displacement, Total L (cu. in)	29.3 (1790)
Number of cylinders	12
RATED POWER	
kW (hp)	SPEED (rpm)
700 (940)	2400
783 (1050)	2400
895 (1200)	2400
1007 (1350)	2400
DIMENSIONS & MASS	
Dimensions* (L x W x H) mm (in)	1905 (75) x 1778 (70) x 1143 (45)
Mass, Dry Kg (lbs)	2313 (5,100)

* Dimensions shown are approximate. Engine layout can be adapted to the application of interest.



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