

MILITARY VEHICLES ENGINES

AVDS-1790 ADVANCED ENGINE

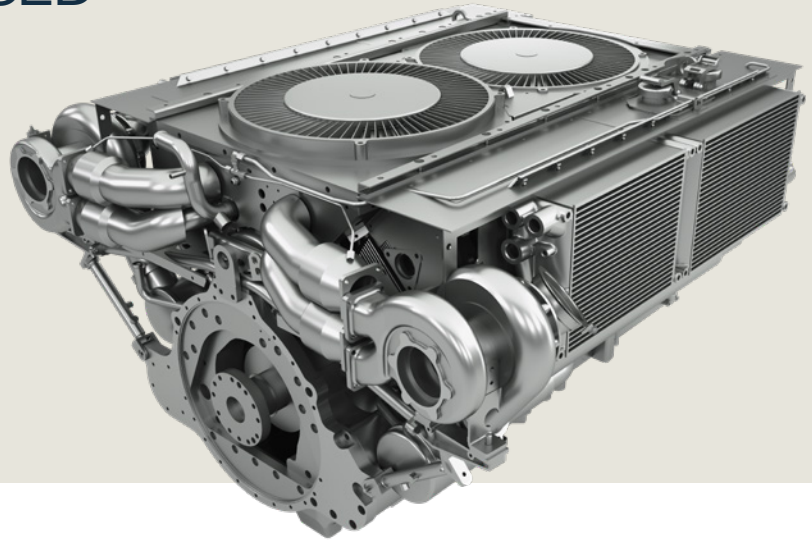
/ FOR COMBAT VEHICLES

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 Advanced Series engine 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 Advanced engine provides the power required to maintain the U.S. Army's Single Vehicle Recovery (SVR) requirement for increasingly heavier combat vehicles.



AVDS-1790 ADVANCED ENGINE

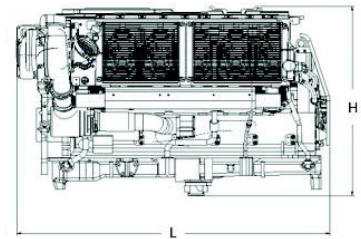
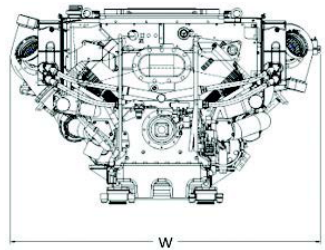
Features

- 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

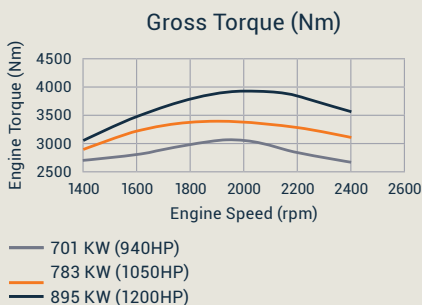
Technical data (dependent on variant)

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

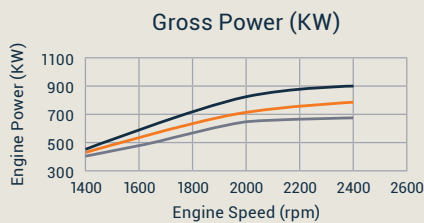
* Dimensions shown are approximate. Engine layout can be adapted to the application of interest.



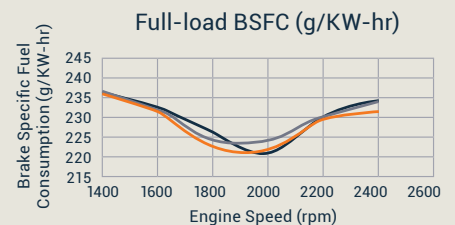
Torque



Power



Fuel Consumption



Trusted Partner.

RENK America

76 S. Getty Street
Muskegon, MI 49442, USA
P +1 231 329-6474
E Corey.Johnson@renk-america.com
www.renk-america.com

Data, including specifications, contained within this document are summary in nature and subject to change at any time without notice of RENK Americas' discretion. Call for latest revision. All brand names and product names referenced are trademarks, registered trademarks, or trade names of their respective holders. This document consists of general capabilities information that is not defined as controlled technical data under ITAR Part 120.10 or EAR Part 772. © 2023 RENK America

More information

www.renk-group.com/goto/r-0386bf9

