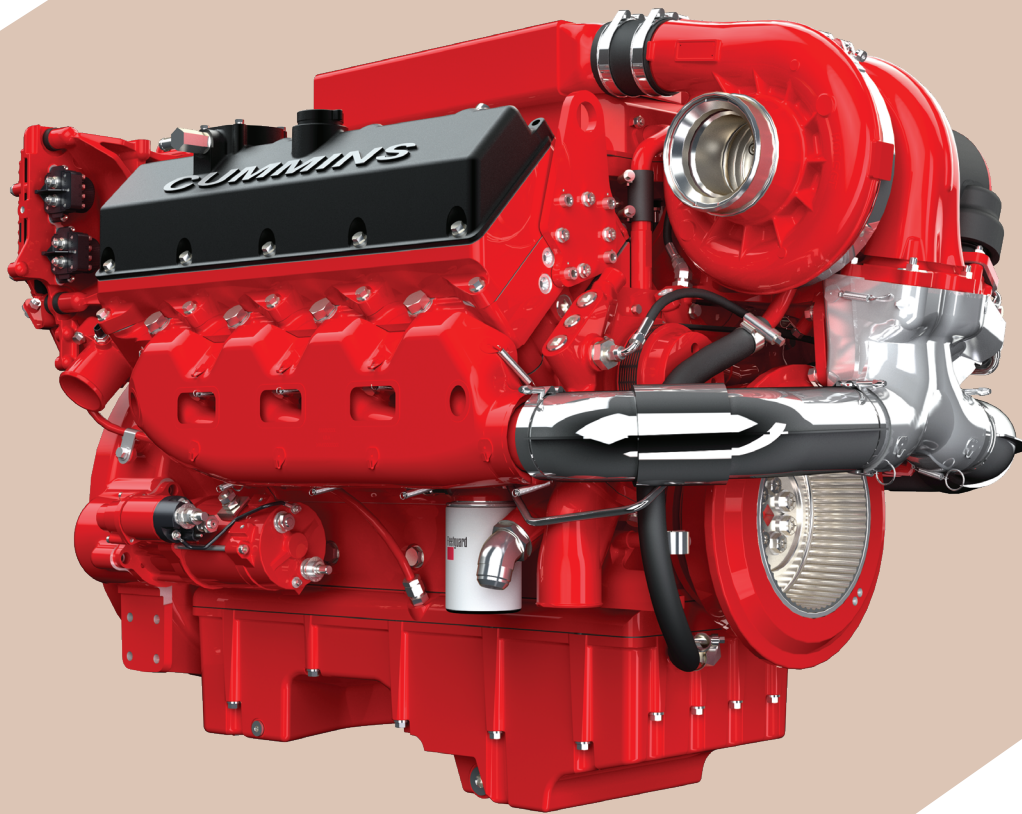


ENGINE

# V903



## Proven engine for military and commercial applications

Cummins has been a leader in integrated defense systems for years and is known for its legacy of reliability and commitment to innovation. Our knowledge and product portfolio can tailor powerful solutions for any obstacle.



# V903

## FEATURES AND BENEFITS

**Engine Design:** Proven and battle-verified 4-stroke 903 cubic inch (14.8L) 90° V-8 architecture. Grey cast iron block and heads provide for continuous loaded operation, robustness to extreme conditions such as harsh cold, desert, and jungle environments and added value through manufacturability.

High power-to-weight and power-to-size ratios enable more troop and equipment capacity and enable more armor for higher vehicle survivability.

**Fuel System:** The Cummins Electronically Controlled CP-STC Fuel System allows the V903 to operate in all conditions, with zero loss in power between the different military fuels, using an on-board fuel quality sensor.

**Lubrication System:** Pressurized lube system with 45° angularity in all directions and maintenance level fault code generation for plugged filters.

**Upgradable:** The V903 is design protected for even higher updates, options, and is hybrid-ready.

**Cooling System:** Integrated jacket water aftercooler and oil cooler optimize heat transfer, and the belt-driven water pump and low-restriction coolant circuit streamline coolant flow.

**Air Intake System:** Each V903 rating is turbocharged and aftercooled to meet the specific performance requirements of each application.

**Exhaust System:** The acoustically tuned and thermally insulated exhaust manifolds and elbows provide even flow to the turbocharger while reducing surface temperatures, improving performance and safety.

**Smart Start:** Push-button starting feature automatically actuates the intake air heaters and starter for reliable starts in cold climates.

**Support:** The V903 is backed by Cummins global support network of distributors and dealers for parts and service.

## GENERAL SPECIFICATIONS

<b>Configurations</b>	90° V-8, 4-stroke diesel
<b>Aspiration</b>	Turbocharged and Aftercooled
<b>Displacement</b>	903 cubic in <sup>3</sup> / 14.8L
<b>Bore and Stroke</b>	5.5 in x 4.75 in / 140 mm x 121 mm
<b>Rotation</b>	Counterclockwise-facing flywheel
<b>Fuel System</b>	Cummins electronically controlled compact pump - step timing control unit injection

## POWER RATINGS\*\*

Configurations	kW	BHP	RPM
VTA903-T525	392	525	2800
VTA903-T600	448	600	2600
VTA903E-T675	504	675	2800
VTA903ET760	567	760	2800

## PRODUCT DIMENSIONS & WEIGHT\*

<b>Overall Length</b>	56.5 in / 1435 mm
<b>Overall Width</b>	35.1 in / 892 mm
<b>Overall Height</b>	38.6 in / 980 mm
<b>Weight (Dry)</b>	2580 lb / 1171 kg

\* Subject to change

\*\* Custom ratings and torque curves upon request



Cummins Inc.  
Box 3005  
Columbus, IN 47202-3005  
U.S.A.

[cummins.com](http://cummins.com)

Bulletin 5600645 Produced in U.S.A. Rev. 9/24  
©2024 Cummins Inc.