Cummins ® ISV5.0
ADVANCED DIESEL ENGINE

Blue Bird's Lowest Cost Diesel Product Option

The Cummins ISV5.0 V8 diesel significantly reduces your cost of operation, achieving leading urban fuel economy. The ISV5.0 combines the latest in Cummins combustion technology, with advanced weight-saving components that include a compacted graphite iron (CGI) block, and high-strength aluminum alloy head and composite valve covers. The high power-to-weight ratio of the ISV5.0 helps you get the most out of every gallon of fuel.

Proven Technology With A Clear Advantage

The ISV5.0 utilizes Cummins advanced technology that has been proven effective and reliable in the toughest on-highway applications. This includes a HPCR fuel system, dual overhead camshafts and the Cummins VGT™ Turbocharger. The Aftertreatment System from Cummins Emission Solutions is fully integrated with the engine to deliver optimum fuel economy and near-zero emissions. The ISV5.0 has been certified to meet the latest near-zero NOx and PM emissions levels as well as the latest GHG requirements.

Get the most out of every gallon of fuel.

BLUE BIRD

A heritage of looking ahead.

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Proven Technology With A Clear Advantage: Features

VGT™ Turbocharger from Cummins Turbo Technologies – The VGT Turbocharger's patented design is widely recognized as the industry leader for performance. Precision boost control across the speed range delivers performance and fuel economy.

High Pressure Common Rail (HPCR) Fuel System – Higher injection pressures with Piezo fuel injectors produce precise fuel control for optimized in cylinder combustion delivering quick throttle response, quieter operation, better cold-weather starting and better fuel economy.

Cummins Aftertreatment System from Cummins Emission Solutions – Proprietary system features a Diesel Particulate Filter (DPF) and Selective Catalytic Reduction (SCR) technology for better fuel economy with near-zero emissions.

Compacted Graphite Iron Block – Advanced materials technology provides a combination of high strength at reduced weight for a higher power-to-weight ratio, exceptional performance and fuel economy.
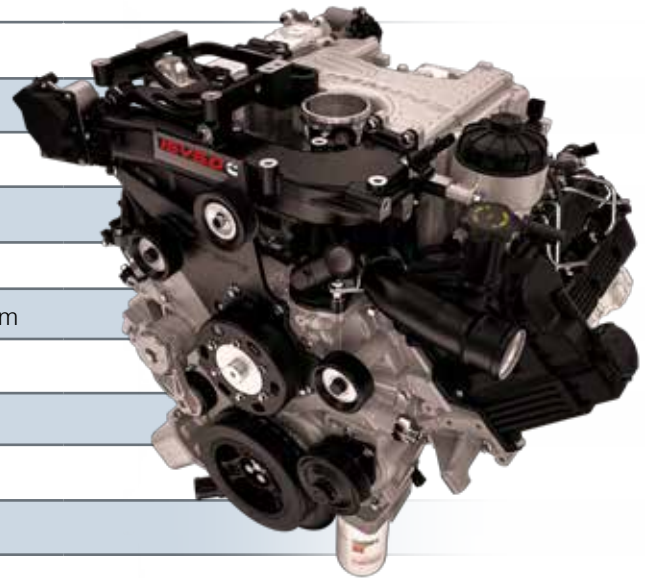
Dual Overhead Camshafts – Dual Overhead camshafts deliver high speed capability that improves engine performance. This design enables cost-effective hydraulic adjustment with no maintenance required.

Forged Steel Crankshaft – The crankshaft is created from high-strength, durable micro-alloy forged steel, precision ground for increased durability with smooth, quiet operation.

Advanced Glow Plugs – The advanced ceramic glow plug system significantly reduces startup time in cold weather conditions and the low current draw reduces vehicle charging system requirements. Unlike traditional bi-metal style glow plugs, these ceramic glow plugs are designed to last the life of the engine.

SPECIFICATIONS

Advertised Horsepower	220 hp	164 kW
Peak Torque	520 lb-ft	707 Nm
Governed Speed	3400 rpm	
Peak Injection Pressure	2,000 Bar	29,000 psi
Number of Cylinders	8	
Bore and Stroke	3.70 in x 3.54 in	94 mm x 90 mm
Number of Valves	4 per cylinder	
System Weight	899 lbs	408 kg
Engine (Dry)	804 lbs	365 kg
Aftertreatment System	95 lbs	43 kg

Contact your local Blue Bird Dealer to learn more about the Cummins ISV5.0 Engine Product Offering!

www.blue-bird.com/find-a-dealer

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