Power Onward™

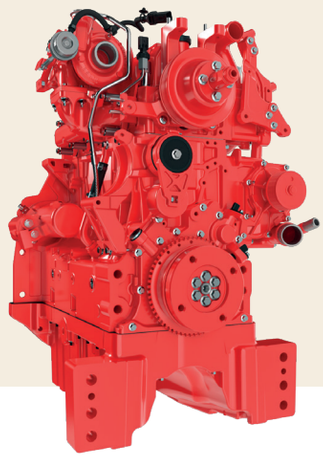
F4.5 Structural engine

A compact structural engine purpose-built for small to mid-sized tractors.



Flexibility OEMs require. Performance farmers demand.

The Cummins F4.5 Structural engine, fully Stage V certified, provides farmers with outstanding machine performance and significant productivity gains across a wide range of tasks, from ploughing, seed drilling to baling, trailer hauling, and front-loader operations.



Compact and power dense

- Strong pulling power and smoother operation in tough conditions, season after season
- Excellent load handling during field work for confidence when operating heavy implements
- Smart calibrations for responsive power and reliable performance

Efficiency and serviceability

- Common rail fuel system delivers precise combustion for better fuel efficiency and lower fuel costs
- Up to 600-hour oil drain intervals to maximize productivity in the busiest seasons
- Easy access to service points for faster maintenance and reduced workshop time

Tractor specific structural design

- Cast-iron block, oil pan and gear housing are all part of the chassis for increased strength and durability while reducing overall machine weight

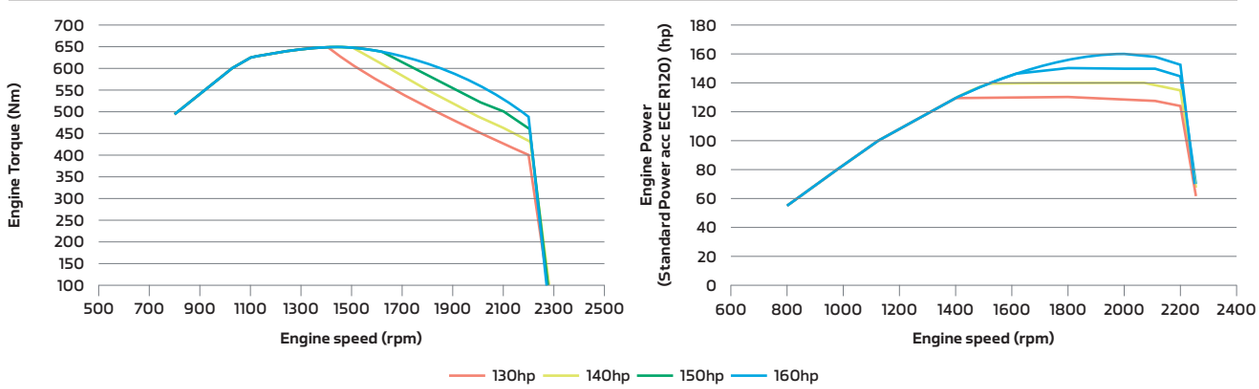
Simplified integration

- Single electronic control module for both the engine and aftertreatment
- No cooled EGR
- Cummins engineering experts can help OEMs develop the best integration configuration to fit a variety of installations

Specifications	
Displacement	4.5L (275 in³)
Cylinder Configuration	4-cylinder inline
Power (Range)	130-160hp (96-118KW)
Peak Torque	646 Nm / 476 lb-ft
EGR (Exhaust Gas Recirculation)	EGR Free
Aftertreatment	Flex Module DOC-DPF-SCR
Turbocharger	Holset® wastegate turbocharger
Bore/Stroke	4.21 in x 4.88 in/107.0 mm x 124 mm
Engine Weight (Dry)	1,140 lb / 517 kg

Fuel Rating	Nominal Power, peak (hp)	Peak Power (kW(hp))	Power @ Rated Speed (kW (hp))	Rating Type
FR97816	160hp	118kW (160hp) @ 2000 RPM	112kW (153hp) @ 2200 RPM	Intermittent
FR98121	150hp	110kW (150hp) @ 2000 RPM	107kW (145hp) @ 2200 RPM	Intermittent
FR98122	140hp	102kW (140hp) @ 2000 RPM	99kW (135hp) @ 2200 RPM	Intermittent
FR98123	130hp	95kW (130hp) @ 2000 RPM	92kW (125hp) @ 2200 RPM	Intermittent

Performance Curves



Stay in Control, stay in the field.

When offered through an OEM gateway or third-party telematics provider, Cummins Digital Solutions can put the power of advanced engine management in your hands. With tools like Connected Diagnostics®, Connected Software Updates™, and Guidanz®, so you reduce downtime, improve performance, and simplify service and save time and money while maximizing productivity. Whether you're managing a single tractor or an entire fleet, Cummins helps you make smarter decisions, faster.

Monitor with Connected Diagnostics®

Monitor engine health and receive predictive insights to avoid unplanned downtime and reduce costs.*

- Prioritize any fault codes
- Notify of potential derate situations before they happen
- Identify probable root causes and provide recommended action(s)

*Requires connection via OEM Gateway or third-party Telematics provider

Maintain and optimize with Connected Software Updates™

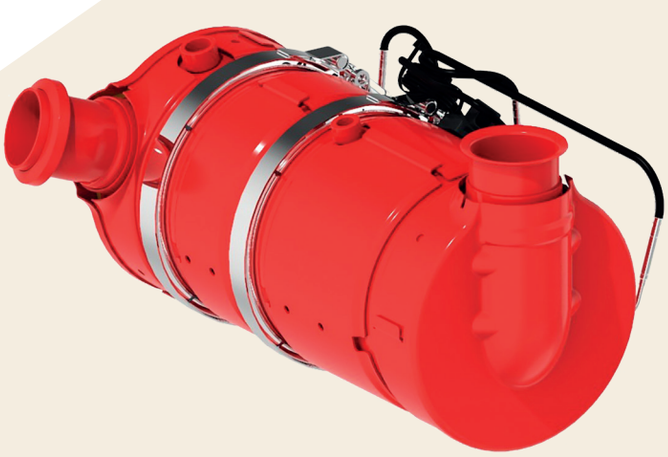
Calibrate ECM software and a wide range of programmable engine parameters from anywhere using over-the-air technology.*

- Receive automatic equipment status updates
- Optimize performance with ECM calibrations and other software parameters remotely with minimal downtime
- Apply software updates to a single piece of equipment or an entire fleet

*Requires connection via OEM Gateway or third-party Telematics provider

Diagnose and service with Guidanz®

Cummins Guidanz® technology is a simple, plug-in device that streamlines the service experience, accelerating the diagnostic and repair process in a few simple steps. The Guidanz® mobile app, when paired with the Bluetooth® -enabled INLINE™ mini datalink adapter, displays Cummins fault codes and other key engine information even when connectivity isn't an option.





Aftertreatment

The F4.5 Structural engine is paired with a compact Stage V Flex Module™ aftertreatment. Separate DOC/DPF and SCR modules allow OEMs to explore different mounting and packaging options for a clean, compliant system that doesn't compromise tractor design or visibility.

Global support. Local commitment.

In today's fast-paced agricultural world, uptime is everything. Whether you're planting, harvesting, or hauling, your equipment needs to perform reliably—day in and day out.

Cummins' dedicated service and support network is the largest in the industry and provides rapid responses to reduce equipment downtime worldwide. Farmers can be assured that service, support, and parts are available, whether they're in town or in the field.



24,000+
Global Cummins Qualified Technicians

450+
Global Distributor Locations

10,000+
Global Dealer Locations

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