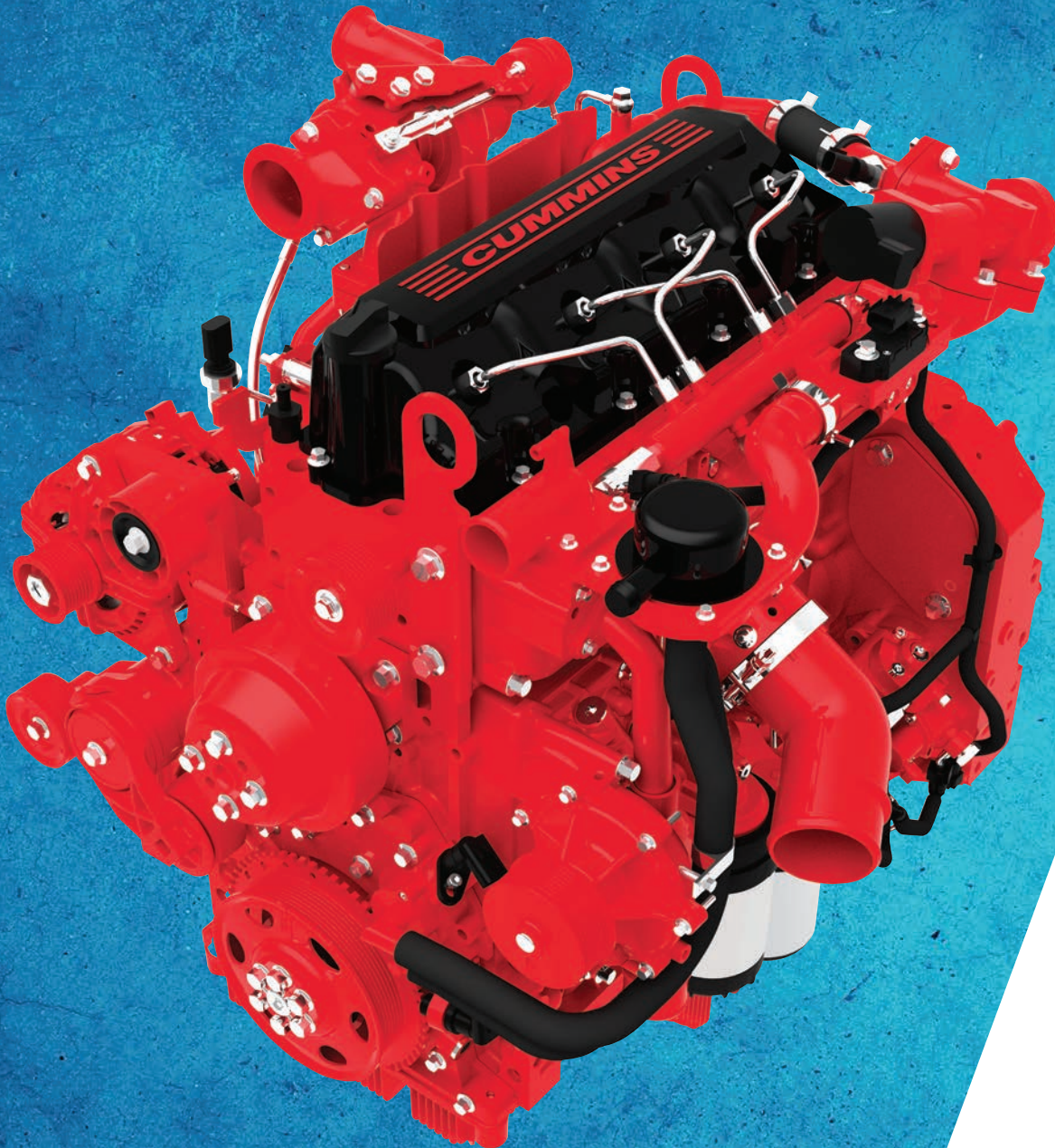


# QUANTUM SERIES

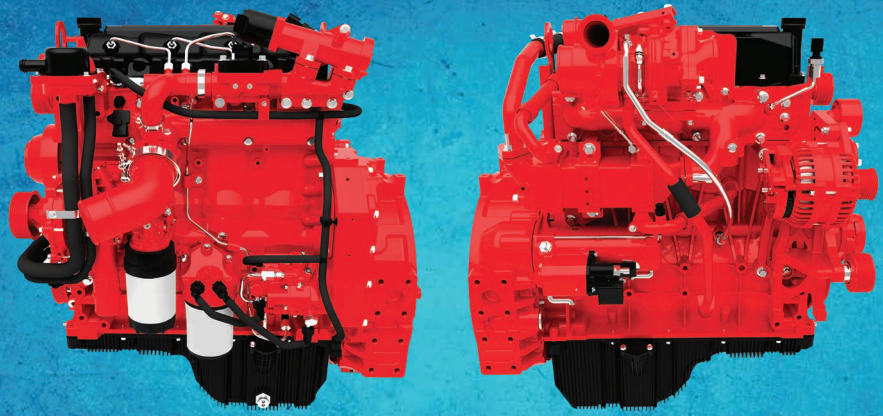
QSF3.8 TIER 4 FINAL



**FOR  
A WORLD  
THAT'S  
ALWAYS ON™**

# DELIVERING MORE FOR LESS

The Tier 4 Final QSF3.8 engine is one of the Quantum Series of engines from Cummins with innovative technology that delivers more for less.



## Compact Power Redefined

Achieving near-zero emissions levels in an engine delivering 74 hp to 132 hp (55-98 kW) without compromising power, performance or fuel economy is a big challenge. Yet that's exactly what Cummins engineers have achieved in the QSF3.8. At 74 hp, the QSF3.8 uses a simple "fit and forget" diesel oxidation catalyst (DOC). Cummins DOC is a flow-through device requiring no ash-cleaning service. There are no sensors and no operational lamps in the equipment cab.

Its compact size enables an easier and more flexible equipment installation while meeting the requirements for near-zero emissions.

From 100 hp to 132 hp (75-98 kW), the QSF3.8 is paired with a DOC and Selective Catalytic Reduction (DOC/SCR) system. Designed by Cummins Emission Solutions it meets and exceeds Tier 4 Final levels without the need for a diesel particulate filter (DPF). Cummins SCR system features a decomposition tube designed to enable more effective mixing of the Diesel Exhaust Fluid (DEF) ahead of the catalyst. In certain applications, the QSF3.8 can be paired with an SCR-only aftertreatment system.

This technology path also allows the QSF3.8 to reduce the amount of cooled exhaust gas being recirculated through the combustion chamber, increasing the power output to the highest level of any engine in the sub-4-liter engine class while simultaneously keeping fuel efficiency comparable to that of our 3.3-liter engine.

Full-authority electronic controls and industry-standard data links make it easier to electronically integrate the QSF3.8 with equipment, as well as track engine performance data and perform routine servicing on this engine. A wastegated turbocharger from Cummins Turbo Technologies is simple and robust in design. The QSF3.8 engine's small size and multiple SCR configuration options make installation easier for design engineers.

The QSF3.8 delivers an unprecedented combination of high-performance, reliable emissions technology, lowcost installation and reduced operational costs, making it ideal for rental applications – all in an engine with the ease of use and robust performance that is critical for rental equipment, redefining the meaning of compact power for an entire industry.

## FEATURES AND BENEFITS

- Highest power output in the sub-4-liter class
- Simple, compact installation for Tier 4 Final
- Exhaust Gas Recirculation (EGR) + SCR-only solution
- Proven aftertreatment solution to meet EPA Tier 4 Final/EU Stage IV regulations
- Smaller space claim
- Service-free

## SPECIFICATIONS

<b>Engine Type</b>	In-line 4-cylinder
<b>Displacement</b>	3.8 liters
<b>Engine Weight (Wet)</b>	767 lbs (348 kg)
<b>Aftertreatment Weight</b>	75 lbs (34 kg)
<b>Fuel System</b>	Electronic High Pressure Common Rail (HPCR) Fuel System
<b>Air Intake</b>	Cummins Direct Flow Air Cleaner
<b>Turbo</b>	Cummins Wastegate Turbo
<b>Emissions Control</b>	EGR + SCR
<b>Electronics</b>	Remote Electronic Control Module (ECM)
<b>Crankcase Filter</b>	Open Crankcase Ventilation
<b>Fuel Performance</b>	BSFC Optimized for Industrial Duty Cycles

## RATINGS

Engine Model	Power HP / (kW)	Peak Torque – lb-ft / N•m @ rpm	Tier 4/Stage IIIB	Tier 4/Stage IV
QSF3.8 74	74 (55) @ 2500	295 (400) @ 1300	✓	
QSF3.8 74	74 (55) @ 2200	295 (400) @ 1300	✓	
QSF3.8 130	132 (99) @ 2300	360 (488) @ 1600		✓
QSF3.8 130	130 (97) @ 2200	360 (488) @ 1600		✓
QSF3.8 120	127 (95) @ 2300	360 (488) @ 1600		✓
QSF3.8 120	120 (89) @ 2000	360 (488) @ 1600		✓
QSF3.8 110	110 (82) @ 2500	306 (415) @ 1600		✓
QSF3.8 100	104 (78) @ 2000	306 (415) @ 1600		✓

Additional ratings may be available; contact your distributor for more information.

## ANY CUSTOMER, ANY QUESTION, ANY CHANNEL, **ANY TIME.**

Cummins Care is not a typical call center. We are a solutions center helping to prevent issues, provide answers quickly and reimburse accurately. We are your connection to a whole new level of customer service, to support and deliver faster personal attention with rapid results. From the moment you engage Cummins Care, you will have access to a Cummins expert with specialized skill sets, experience and in-depth knowledge to take care of your needs.

- **CUSTOMER SERVICE**
- **WARRANTY ASSISTANCE**
- **TECHNICAL SUPPORT**
- **CONNECTED SERVICE**

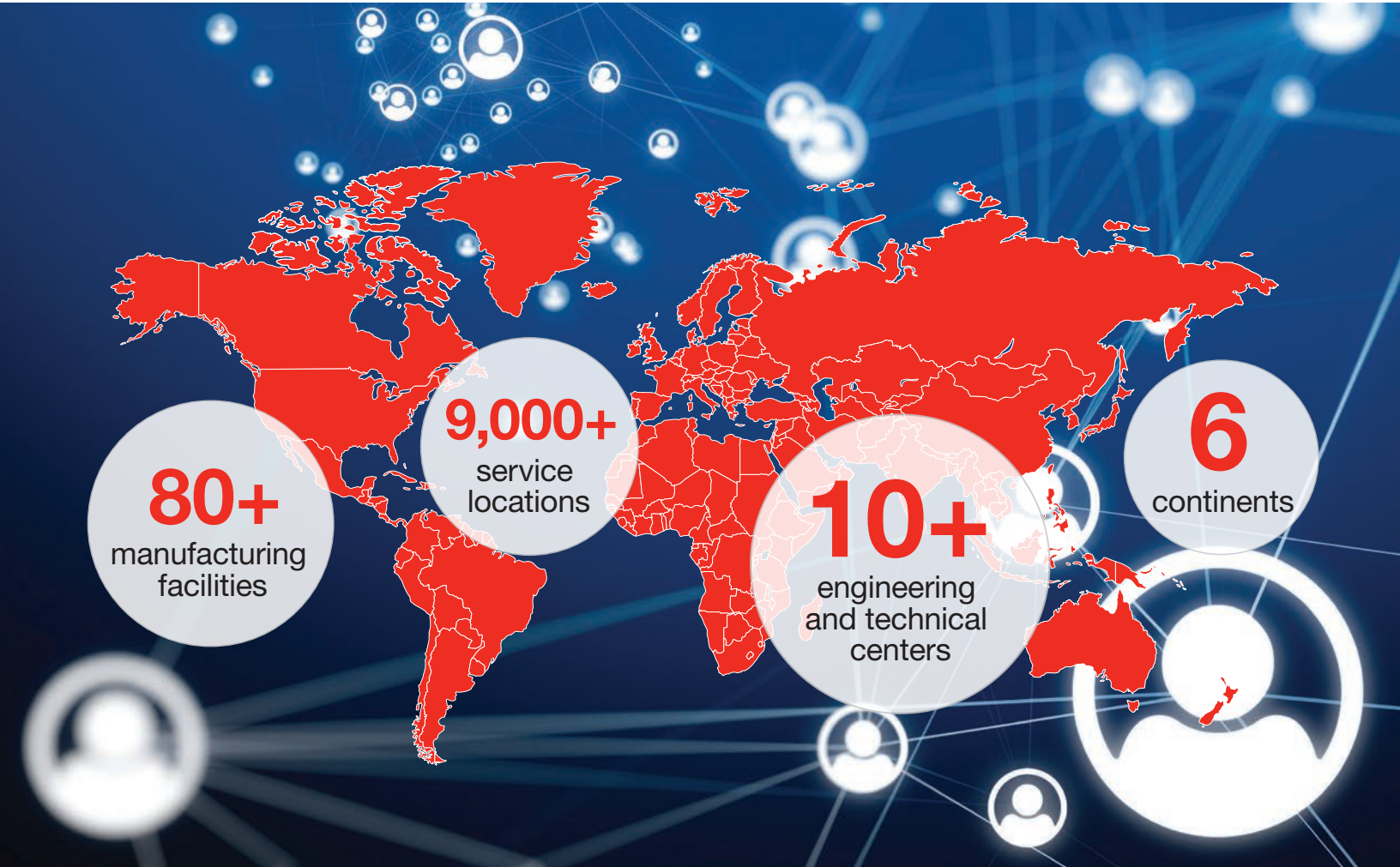
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CUMMINS' GLOBAL FOOTPRINT OF ENGINEERING, MANUFACTURING, AND SERVICE LOCATIONS MEANS WE ARE WHERE OUR CUSTOMERS NEED US TO BE.



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