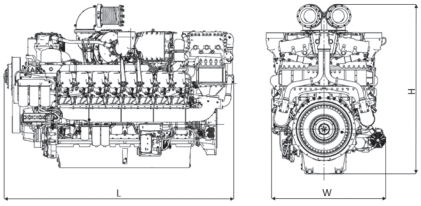
Industrial

SERIES 4000 CX5

for Mining applications



Optional equipment and finishing shown.
Standard may vary.

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
12V	2878 x 1686 x 2393 (113.3 x 66.4 x 94.2)	8455 (18640)
16V	3348 x 1690 x 2393 (131.8 x 66.5 x 94.2)	10644 (23466)

All dimensions are approximate, for complete information refer to the installation drawing.

Engine		
Bore/stroke	mm (in)	170/210 (6.7/8.3)
Cylinder configuration		90° V
Displacement/cylinder	l (cu in)	4.77 (291)
Displacement, total	l (cu in)	12V: 57.2 (3491), 16V: 76.3 (4656)
Fuel specification		Low-sulfur diesel fuel, synthetic fuels *

* See fluids & lubricants specification A001061 for details

Application	Power definition	Operating profile
5A	Continuous operation with 100% load	Load factor: ≥ 60 %, operating hours: unrestricted, overload: fuel stop (ICFN)
5B	Continuous operation with variable load	Load factor: < 60 %, operating hours: unrestricted, overload: fuel stop (ICFN)

All 5A ratings can be used in 5B applications but not vice versa.
ICFN = ISO standard (continuous) fuel stop power. For detailed information regarding engine performance under non-standard boundary conditions, please, contact your local ***mtu*** service partner.

A Rolls-Royce solution

Application	Vehicle type	Rated power ICFN			Peak torque			Optimization
		kW	bhp	rpm	Nm	lb-ft	rpm	
		Heavy duty operation (5A)						
12V 4000 C15		1150	1542	1800	7351	5421	1494	EPA Nonroad T4 (40CFR1039)
12V 4000 C25		1250	1676	1800	7990	5893	1494	EPA Nonroad T4 (40CFR1039)
12V 4000 C35		1500	2012	1800	9588	7071	1494	EPA Nonroad T4 (40CFR1039); EU Nonroad St V (2016/1628)
		Medium duty operation (5B)						
12V 4000 C55		1750	2347	1900	9258	6829	1805	EPA Nonroad T4 (40CFR1039)
12V 4000 C65		1864	2500	1800	10409	7678	1710	EPA Nonroad T4 (40CFR1039)
12V 4000 C65		1864	2500	1900	9861	7273	1805	EPA Nonroad T4 (40CFR1039)
16V 4000 C45		2000	2682	1800	12673	9347	1507	EPA Nonroad T4 (40CFR1039)
16V 4000 C55		2240	3004	1800	13123	9679	1630	EPA Nonroad T4 (40CFR1039)
16V 4000 C65		2400	3218	1800	13403	9885	1710	EPA Nonroad T4 (40CFR1039)

Power output within 5% tolerance at standard conditions. Power definition according to ISO 3046 (ratings also correspond to SAE J 1995 and SAE J 1349 standard conditions). Consult your ***mtu*** distributor/dealer for the rating that will apply to your specific application.

Standard equipment	
Exhaust aftertreatment system (EAT)	Exhaust gas recirculation (EGR) only, no external EAT components (SCR, DOC, DPF) required
Base engine system	SAE 00 flywheel housing with SAE 21 isolated flywheel, 3-point engine mount (Trunnion)
Starting system	Dual electric starter
Lube oil system	Engine pre-lube system (standard for excavator, optional for truck), automatic oil filter (maintenance-free), two oil centrifuges
Fuel system	Common rail injection system with cylinder individual smart injection monitoring, double-walled fuel lines with leakage monitoring, 3-stage fuel filtration
Cooling system	Separate high temperature (HTC) and low temperature (LTC) coolant circuits with separate pumps
Turbocharging system	Two-stage, three turbochargers (1x LP, 2x HP)
Accessory drives (PTO)	Engine-mounted fan clutch (standard for truck, optional for excavator)
Electronics	Electronic engine control and management system, CAN J1939 integration, 4G/LTE data logger (***mtu*** Go!)
Documentation	FAT* protocol, performance diagram, emission compliance requirements, application guidebook, installation drawings, operation manual, fluids and lubricants specification, maintenance schedule, ***mtu*** Go! system documentation (* Factory Acceptance Test (FAT))

Optional equipment	
Base engine system	Flywheel, flywheel housing and coupling options, 4-point engine mounting (excavator only)
Starting system	Without starter
Lube oil system	Oil pan & oil dipstick options, engine pre-lube system, automatic oil filter (maintenance free)
Cooling system	LTC coolant pump options (16V only), winter package
Combustion air system	Air intake options (horizontal or vertical)
Exhaust system	Exhaust outlet options, companion flanges
Accessory drives (PTO)	Battery charging alternators, air compressor, A/C compressor drives, fan drive options (clutches, drive ratios, spacers, cooling fans)
Electronics	Combined customer interface terminal including diagnostic interface, single exhaust temperature monitoring system, customer-specific calibration settings
Miscellaneous	Paints, packing, certificates, multilingual documentation, torsional vibration calculation

Reference conditions:
> Intake-air temperature: 25°C (77°F)
> Altitude above sea level: 100 m (328 ft)
> Ambient air pressure: 1000 mbar (14.5 psi)
> Charge air coolant temperature: 45°C (113°F)
All information is subject to change. Errors, changes and typographical errors excepted. Engine illustrated in this document may feature optional equipment.

Subject to change. | 3237431 | Edition 01/25 | BMC 2025-12.