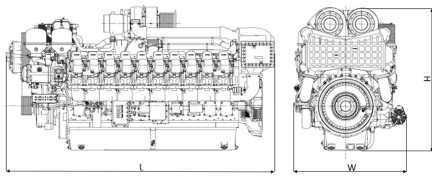


SERIES 4000 CX2

for Mining applications



Optional equipment and finishing shown.
Standard may vary.

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
20V	3845 x 1616 x 2250 (151.4 x 63.6 x 88.6)	9865 (21750)

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

Engine		
Bore/stroke	mm (in)	165/210 (6.5/8.3)
Cylinder configuration		90° V
Displacement/cylinder	l (cu in)	4.49 (274)
Displacement, total	l (cu in)	89.8 (5480)
Fuel specification		Diesel fuel, biodiesel blends, synthetic fuels*

* See fluids & lubricants specification A001061 for details

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

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.

Application	Vehicle type	Rated power ICFN			Peak torque			Optimization
		kW	bhp	rpm	Nm	lb-ft	rpm	
Medium duty operation (5B)								
20V 4000 C22		2720	3648	1800	15159	11181	1500	EPA Nonroad T1 comp (40CFR89)

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	
Base engine system	SAE 00 flywheel housing with SAE 21 isolated flywheel, 3-point mount (Trunnion)
Starting system	Dual electric starter
Lube oil system	Engine pre-lube system, automatic oil filter (maintenance-free), two oil centrifuges
Fuel system	Common rail injection system, double-walled fuel lines, 3-stage fuel filtration
Cooling system	Separate high temperature (HTC) and low temperature (LTC) coolant circuits with separate pumps
Turbocharging system	Single-stage, two exhaust turbochargers
Accessory drives (PTO)	Engine-mounted fan clutch
Electronics	Electronic engine control and management system, single exhaust temperature monitoring system, 4G/LTE data logger (mtu Go!)
Documentation	FAT* protocol, performance diagram, application guidebook, installation drawings, operation manual, fluids and lubricants specification, maintenance schedule, mtu Go! system documentation (* Factory Acceptance Test (FAT))
Optional equipment (including ship loose parts)	
Base engine system	Reinforced flywheel housing, grounding device
Starting system	Pneumatic starter
Lube oil system	Oil dipstick options
Fuel system	Booster pump, hand pump
Exhaust system	Exhaust elbows, bellows, companion flanges
Accessory drives (PTO)	Battery charging alternators, air compressor, A/C compressor drives, fan drive options (clutches, drive ratios, spacers, cooling fans)
Electronics	CAN communication protocol options, frequency converters, customer-specific calibration settings
Miscellaneous	High altitude kit, 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.