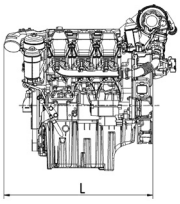
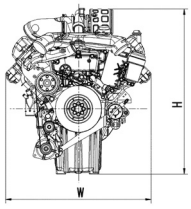
Industrial

Diesel Engines 6V 501 C

for C & I, Agriculture, Mining and Forestry Application with EPA Tier 3 / EU Stage III A / EPA Tier 4i / EU Stage III B Certification





Dimensions and Masses

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
6V 501 C01	1206x1020x1158 (47x40x46)	885 (1951)
6V 501 C02	1190x1020x1130 (47x40x44)	895 (1973)

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

Engine Model		
Bore/stroke	mm (in)	130/150 (5.1/5.9)
Cylinder configuration		6 Cyl./90° V
Displacement/cylinder	l (cu in)	1.99 (121)
Displacement, total	l (cu in)	12.0 (732)
Fuel specification		EN 590, Grade No.1-D/2-D

Engine Type	Rated Power ICFN			Peak Torque			Optimization
Model	kW	bhp	rpm	Nm	lb-ft	rpm	
Application	**Heavy duty operation (5A)**						
6V 501 C31	**260**	**349**	1800	1730	1275	1300	⑦ ⑧
6V 501 C32	**265**	**355**	1800	1850	1365	1300	16 17
Application	**Medium duty operation (5B)**						
6V 501 C51	**290**	**389**	1800	1850	1365	1300	⑦ ⑧
6V 501 C52	**300**	**402**	1800	2000	1475	1300	16 17
6V 501 C61	**315**	**422**	1800	2000	1475	1300	⑦ ⑧
6V 501 C62	**320**	**429**	1800	2100	1550	1300	16 17
6V 501 C72	**350**	**469**	1800	2300	1695	1300	16 17

Optimization

⑦ Exhaust emission EPA 40 CFR 89/Tier 3
16 Exhaust emission EPA 40 CFR 89/Tier 4i

⑧ Exhaust emission EU 97/68 EC/Stage III A
17 Exhaust emission EU 97/68 EC/Stage III B

Power. Passion. Partnership.

Application	Power definition	
5A	Continuous operation w/100% load	Load factor: ≥ 60 %, Operating hours: unrestricted, Overload: Fuel stop (ICFN)
5B	Continuous operation w/variable load	Load factor: < 60 %, Operating hours: unrestricted, Overload: Fuel stop (ICFN)

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 Detroit Diesel or MTU distributor/dealer for the rating that will apply to your specific application.

Standard Equipment	
Starting System	Electrical starter 24 V, Alternator 28 V/80 A
Fuel System	High pressure fuel injection with solenoid-valve controlled unit injection pumps and multijet fuel injectors, Fuel filter
Lube Oil System	Oil filter
Air System	Turbo charging with charge-air cooling
Exhaust Gas System	Four valves per cylinder
Coolant System	Water-charge-air cooling
Flywheel/Housing	SAE 1
Engine Mounting	Resilient
Electronics and Instrumentation	Electronic engine management
SCR Aftertreatment System (engines with EPA Tier 4i/ EU Stage 3B certification only)	Engine mounted SCR components with urea dosing unit, urea injection nozzle and heating valve, vehicle mounted SCR components with SCR catalyst including muffler, urea supply unit and SCR control unit

Optional Equipment	
on request	

Reference conditions:
> Intake-air temperature: 25°C (77°F) > Ambient air pressure: 1000 mbar > Altitude above sea level: 100 m (328 ft)
Subject to change without notice. Customization possible. Engines illustrated in this document may feature options not fitted as standard to standard engine.

Subject to change. | 323 3611 | 1/10 | VMD 2010-04.

Europe I **Middle East** I **Africa** I **Latin America,** MTU Friedrichshafen GmbH, 88040 Friedrichshafen, Germany, T +49 7541 90 7004, F +49 7541 90 7084, industrialregion1@mtu-online.com, www.mtu-online.com I **Asia** I **Australia** I **Pacific,** MTU Asia Pte. Ltd., 1 Benoi Place, Singapore 629923, Republic of Singapore, T +65 6861 5922, F +65 6861 3615, industrialregion2@mtu-online.com, www.mtu-online.com.sg I **USA** I **Canada** I **Mexico,** MTU Detroit Diesel, Inc., 13400 Outer Drive West, Detroit, Michigan 48239, USA, T +1 313 592 3870, F +1 313 592 5158, industrialregion3@mtu-online.com, www.mtudetroitdiesel.com