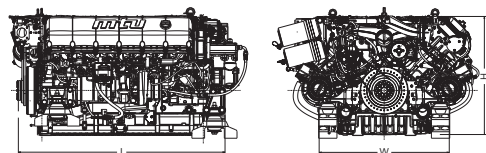
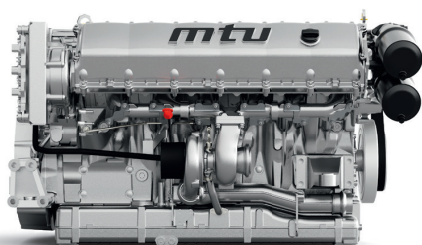




## Rail

# DIESEL ENGINE 12V 1600

for engine room installation  
EU Stage IIIB / EU Stage V



Optional equipment and finishing shown. Standard may vary.

Engine	Dimensions (LxWxH) mm (in)	Mass, dry kg (lbs)
12V 1600 R	1531 x 1394 x 850 (60.3 x 54.9 x 33.5)	approx. 2300 (5070)

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

\* Including mass of exhaust gas aftertreatment system

Engine		
Bore/stroke	mm (in)	122/150 (4.8/5.9)
Cylinder configuration		12V
Displacement	l (cu in)	1.75 (107)
Displacement, total	l (cu in)	21 (1284)
Fuel specification		DIN EN 590; other fuels are under investigation

Engine type	Rated power			Peak torque			Fuel consumpt. at		Optim.*
	kW	bhp	rpm	Nm	lb-ft	rpm	g/kWh	g/kWh	
12V 1600 R70	565	757	2100	3083	2274	1200-1575	207	190	IIIB
12V 1600 R70L	625	838	2100	3410	2515	1200-1575	207	190	IIIB
12V 1600 R80	660	885	1900	3395	2504	1800	200	191	IIIB
12V 1600 R80L	700	952	1900	3601	2656	1800	200	191	IIIB
12V 1600 R71	565	757	1900	3150	2323	1600	192	184	V
12V 1600 R71L	625	838	1900	3446	2542	1600	190	183	V
12V 1600 R81L	700	952	1900	3518	2595	1900	191	183	V
12V 1600 R91	736	987	1900	3699	2728	1900	192	183	V

\* Emission Regulation (EU) 2016/1628

Standard equipment	Optional equipment
12 cylinder V diesel engine	Coolant water pump for additional low temperature circuit
Four stroke diesel direct injection	PTO drive on driven side for hydrostatic pump
Electronic engine management	Adapter flange to drive auxiliary unit on free end side
Common rail injection system	Oil preheating unit in oil pan
Aftertreatment system with SRC (Stage IIIB) or combi system with DOC, DPF and SCR (Stage V); reducing agent injection with supplying and dosing unit	Without 24V starter or with second 24V starter
Turbocharging with charge air cooling (air/air)	
24V starter	
Resilient engine mountings	

Reference conditions:

- > Intake temperature: 25°C (77°F)
- > Ambient air pressure: 1000 mbar
- > Charge air coolant temp.: 45°C (113°F)
- > 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.