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### 1. SERIES 538 TB92 DIESEL ENGINES

The 538 series includes 12, 16 and 20-cylinder diesels with a cylinder displacement of 5.38 liters and power ratings from 1690 to 4120 kW (2300 to 5600 HP) for fast marine propulsion. Some 3600 units have already been delivered.

This series is designed primarily for high-performance applications. Its power potential, dimensions and power/weight ratios make it particularly suitable for fast boats and special-purpose naval craft.

The 538 series exhibits the following principal design features:

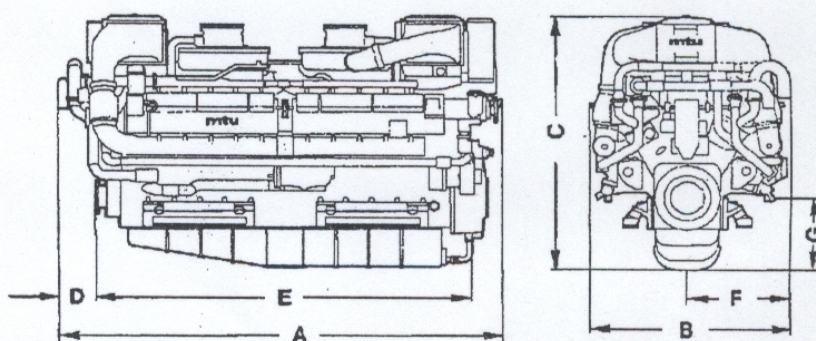
- Four-stroke diesel
- 60° Vee configuration
- Prechamber injection
- Liquid cooling
- Turbocharging
- Charge air cooling

Whether temporary maximum power deployment, high-load continuous service or arduous alternating-load operation, the 538 engine is capable of meeting all the requirements of fast marine propulsion.

Several navies have selected series 538 engines for propulsion of their fighting vessels. The 16-cylinder version, with a homologated power rating of 2650 kW (3600 HP) at 1900 rpm, was chosen as the standard propulsion engine for NATO's FPBs. In addition to naval vessels, 538 engines are extensively used worldwide in rail applications, electric power generation, oil rigs and merchant shipping.

State-of-the-art computation, simulation and test methods as well as a wealth of experience from over 75 years of high-speed diesel development have combined to produce compact high-performance engines, which are acknowledged to be worldwide technical leaders offering the operator all the benefits of modern engine technology.

Dimensions (mm) and Weights (kg)



Engine Model	A	B	C	D	E	F	G	Dry Weight
12V 538 TB92	2545	1640	2325	220	1820	820	760	5230
16V 538 TB92	3160	1640	2305	450	2265	820	595	6710
20V 538 TB92	3800	1640	2320	400	3270	820	665	9030

