

TF SERIES MARINE GAS TURBINE ENGINES

The TF series for ship propulsion and integrated power offers the ideal solution for marine power where compact size and light weight can be translated to faster vessel speed, greater payload or simply more power per foot of machinery space. The design of the TF series allows direct mounting to the reduction gear, resulting in the lightest possible installed weight for the package and the most efficient design.

Proven Benefits

FUEL FLEXIBILITY

Operates on marine diesel and LNG.

LIGHT WEIGHT

The lightest installed weight of a 4 MW gas turbine.

HIGH DEGREE OF SYSTEM FLEXIBILITY

The TF series are used in single engine and twin- engine packages and can be combined with diesel engines in a variety of propulsion systems, COGAG, CODOG and CODAG.

DIRECT MOUNTING

Direct mounting to the reduction gear allows the lightest overall package weight.

PROVEN IN NAVAL PROPULSION SERVICE

There have been more TF series marine gas turbines installed in navel service than any other engine in its class.





Applications

Propulsion

- Fast Attack Craft, Corvettes, High Speed Petrol Vessels
- Air Cushion Vehicles, Surface Effect Ships
- High Performance Mega Yachts
- Fast Ferries, Platform Supply Vessels

Power Generation

- Integrated Electrical Power Systems
- Ship Service Generators
- Hybrid Systems

Features and Capabilities





LIGHTEST WEIGHT

GT package weights 25% of the weight of diesel engines



UNIQUE DESIGN

Create a "Single Machine Package"



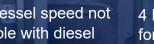
HIGHER SPEED

COLD START

No required

warm-up time

Allows vessel speed not achievable with diesel only propulsion systems





VERSATILE

4 MW building block for combined and hybrid systems



COMPACT SIZE

Allows configurations not available with diesels or even other gas turbines



LOWER NOISE

Lower structure borne noise signature with gas turbines



MORE PAYLOAD

Compared to a diesel, allows payload and space to be allocated to other priorities

Turbines Specifications

		ETF40B	TF50B
Continuous power (MCR) ¹	shp	5,031	5,100
	kW	3,752	3,803
Boost power (MIP) ¹	shp	5,850	5,600
	kW	4,362	4,176
Weight ²	lb	1,425	1,440
	kg	647	654
Specific fuel consumption	lb/shp-hr	0.465	0.461
SFC at MCR ¹	gr/kW-hr	282	280
Length flange to flange	in	52	52
	mm	1,321	1,321
Height	in	41	41
	mm	1,041	1,041
Width	in	35	35
	mm	889	889
Fuel		Marine Diesel, Jet Fuel, Kerosene, LNG	

