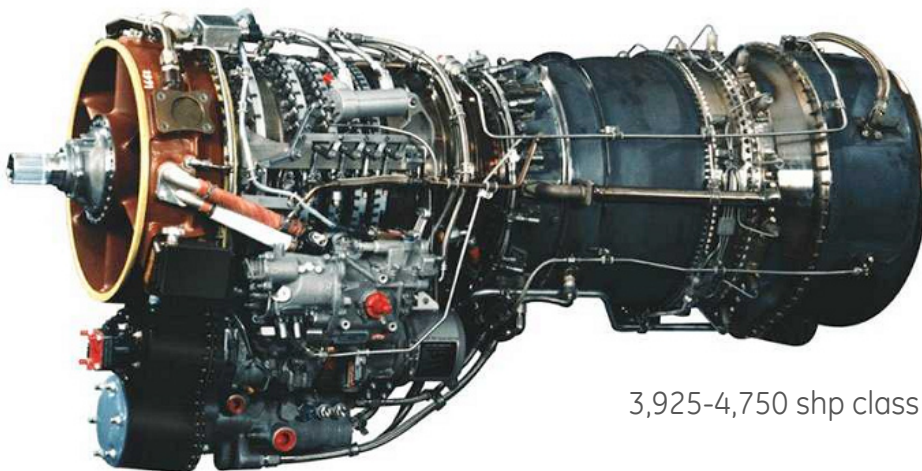




T64

turboshaft/ turboprop engines



3,925-4,750 shp class

With more than 3,300 engines produced and 11-million engine flight hours of field experience, the **T64** continues to incorporate new technologies that contribute to enhanced performance and availability. These advancements have grown the T64-419 model close to 5,000 shaft horsepower and allow further growth capability to 6,000+ shp, while maintaining current clearance dimensions and critical mount locations.

The T64 pioneered a number of technical innovations that have influenced generations of GE engines, such as corrosion resistance and high temperature coatings, front drive free turbines and film cooled turbine nozzles and blades. More recently, an erosion resistant titanium nitride coating has been developed for compressor airfoils, with a time on wing improvement demonstrated of at least 2X.

The T64 powers rotary and fixed wing applications ranging from Sikorsky's H-53E models for Marine Corps and Navy heavy lift helicopters, to short take-off and landing fixed wing transports and a multi-engine amphibious aircraft. The most powerful T64 gives the US Navy's MH-53E helicopter increased power and OEI capability for its mine sweeping operation.

Quick engine facts

Applications: CH-53D/E, MH-53E, MH-53J/M, RH-53D, S-65/C3, CH-53G/S

Thrust range: 3,925-4,750 Shp

T64 turboshaft/turboprop engines

Applications



CH-53E



MH-53E



MH-53J/M



DHC-5A/-5D



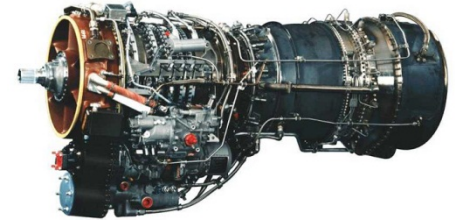
G222/C-27A



Shin Maywa US-1A



NAMC YS-11E



Performance Specifications (Sea level/standard day)

Engine model	Turboshaft				Turboprop							
	T64-100		T64-416A		T64-419		T64/P4D		T64-10J		T64-820-4	
Rating temperature	85°F (30°C) SHP SFC		59°F (15°C) SHP SFC		59°F (15°C) SHP SFC		Flat rated to 113°F (45°C) SHP SFC		Flat rated to 75°F (24°C) SHP SFC		Flat rated to 59°F (15°C) SHP SFC	
Takeoff ⁽¹⁾							3,400	0.494	3,400	0.489	3,133 ⁽²⁾	0.486
30 minute rating ⁽¹⁾	(N/A)		(N/A)		(N/A)		3,135	0.503	3,135	0.495	3,133 ⁽³⁾	0.486
Maximum continuous							2,637	0.529	2,745	0.514	2,745 ⁽³⁾	0.505
OEI capability	-	-	-	-	5,000 ⁽⁴⁾		-	-	-	-	-	-
Maximum power	4,330	0.487	4,380	0.466	4,750	0.474						
Military power	4,090	0.485	4,110	0.472	4,560	0.470	(N/A)		(N/A)		(N/A)	
Normal continuous	3,810	0.485	3,700	0.471	4,230	0.472						
Weight (lbs)	720		720		755*		1,188**		1,240**		1,145**	
Length (in)	79		79		79		110.14**		112.98**		110.14**	
Diameter (in)	20		20		20		20.1		20.1		20.1	

⁽¹⁾Torque limit 1.075 lb-ft

⁽²⁾Flat rated to 100°F (38°C)

⁽³⁾Flat rated to 86°F (30°C)

⁽⁴⁾90°F (32.2°C)

*Includes integral fuel/oil heat exchanger

**Includes prop gearbox

