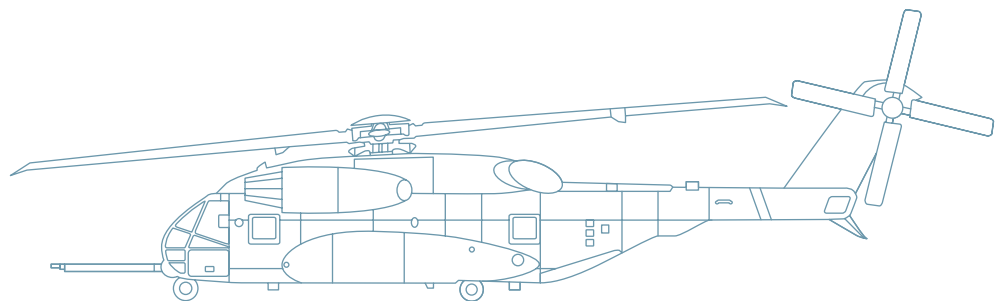


## GE38 turboshaft engine

The innovative power



## GE38 – technology features

The GE38 is a turboshaft engine selected for the CH-53K heavy-lift helicopter for the U.S. Marine Corps and targeted for various other helicopter applications such as the Future Transport Helicopter for European armed forces. Potential future applications include turboprop applications, marine propulsion and power generation systems.

The GE38 is currently being developed and is based upon the GE27 Modern Technology Demonstrator Engine program for the U.S. military and the T700 design. First component tests have meanwhile been successfully completed. The first engine test run took place in the second quarter of 2009. Production of engines for the CH-53 K will commence in 2013.

The engine is designed by General Electric (GE) with MTU as a major partner. The German engine maker has a program stake of 18 percent and contributes the power turbine.

### Facts

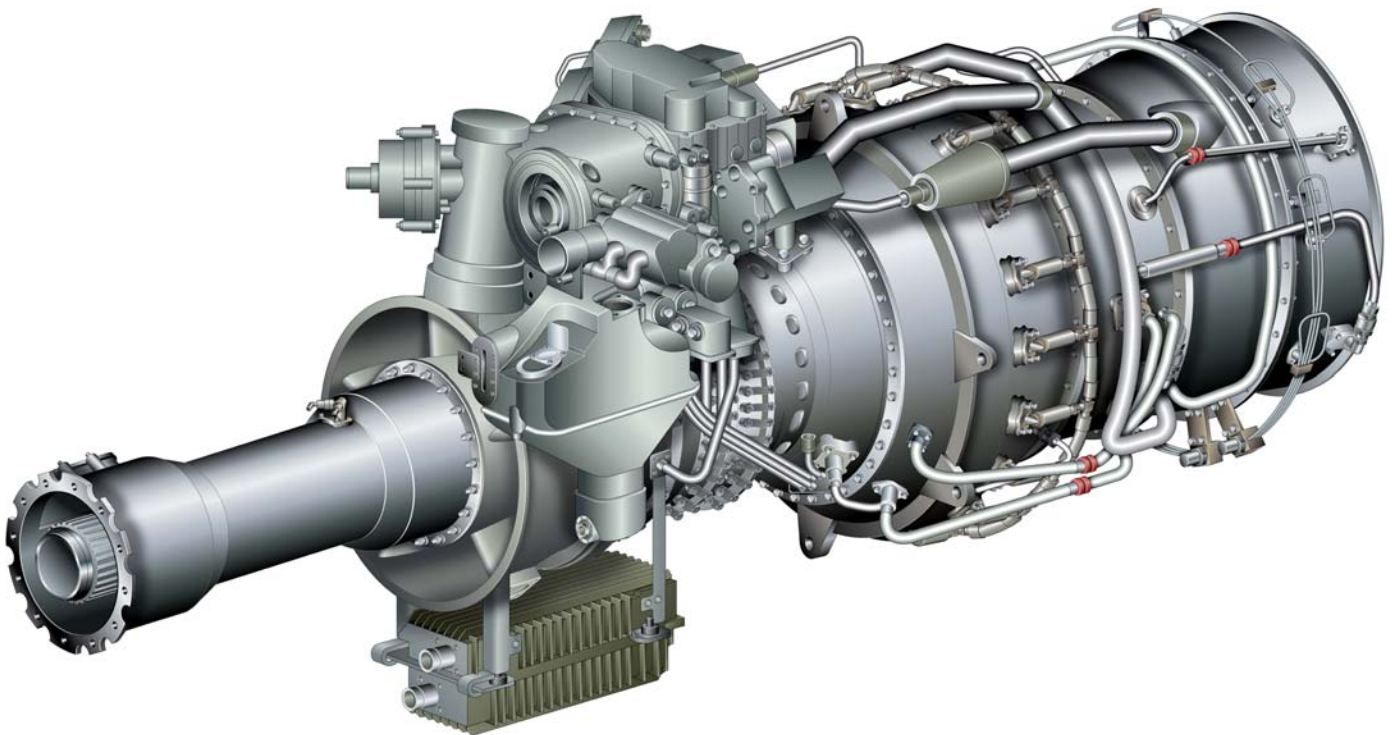
- Turbo-shaft engine with free power turbine
- Five-stage axial compressor, single-stage centrifugal compressor
- Annular combustor
- Two-stage gas generator turbine
- Three-stage power turbine
- FADEC with health monitoring functions

### Support

- Licenses for maintenance, final assembly and testing of the GE38 models to power a future European heavy-lift helicopter (FTH = Future Transport Helicopter)

### Applications

- \* Sikorsky CH-53K
- \* Further applications are planned



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### GE38 engine specifications

Power class	7.500 shaft HP
Compressor Stages:	5 axial and 1 centrifugal
High-Pressure Turbine/Low-Pressure Turbine Stages	2/3
Length (inches)	57.5
Diameter (inches)	27