

# T408 turboshaft engine

The innovative power



# T408 – technology features

The T408 is a turboshaft engine selected for the CH-53K heavy-lift helicopter for the U.S. Marine Corps and targeted for various other helicopters. Potential future applications also include turboprop applications, marine propulsion and power generation systems. The CH-53K is also a candidate as a new heavy-lift helicopter for the German Armed Forces.

The T408 technology design is based on the U.S. military GE27 Modern Technology Demonstrator Engine Program and T700 design. Over 4,500 hours of factory testing and 1,200 hours of flight time have demonstrated the engine's world class robustness to deliver maximum time on wing. The engine qualification for the CH-53K was successfully completed in 2016.

The engine is designed by GE Aviation (GE) with MTU as a major participant. The German engine

maker has a stake of 18 percent and contributes the power turbine.

## Facts

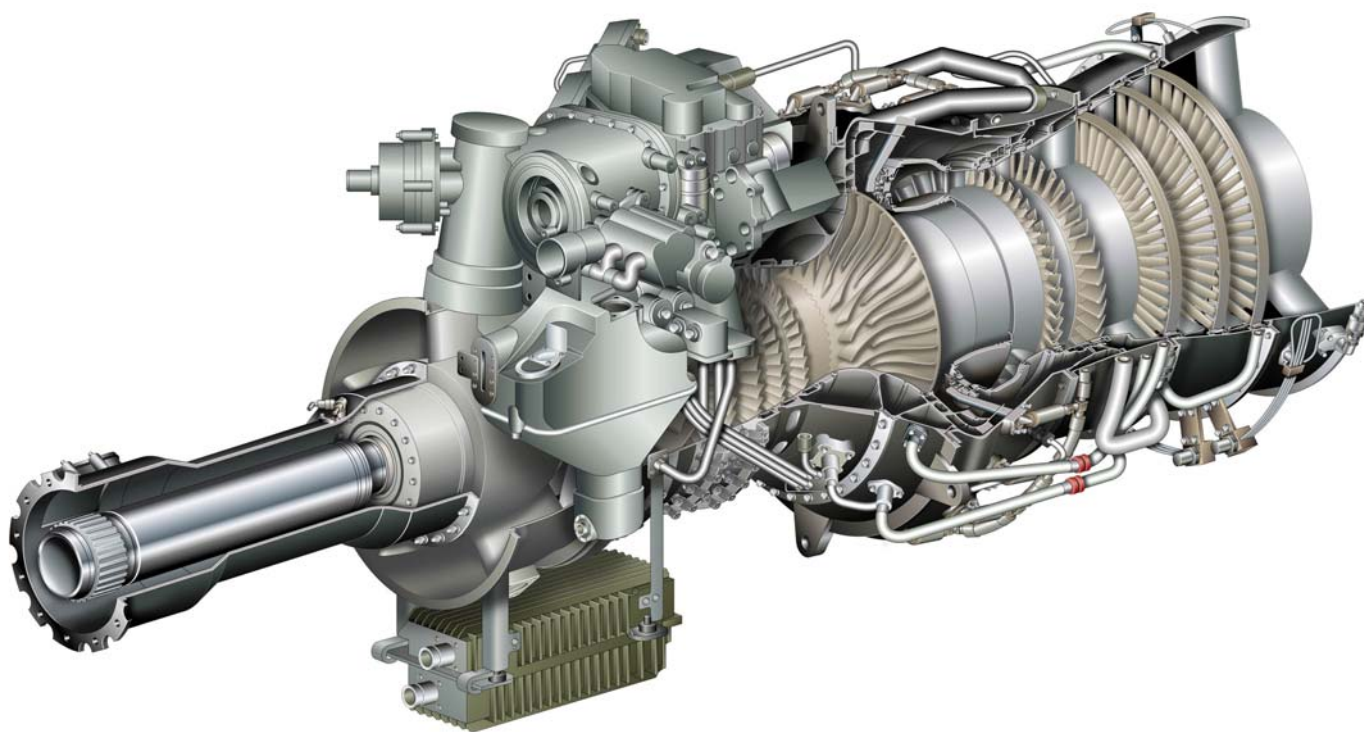
- Turbo-shaft engine with free power turbine
- Five-stage axial compressor, single-stage centrifugal compressor
- Annular combustor
- Two-stage gas generator turbine
- Three-stage power turbine
- FADEC with health monitoring functions

## Support

- Licenses for maintenance, final assembly and testing of the T408 models to power a future European heavy-lift helicopter

## Applications

- Sikorsky CH-53K
- Further applications are planned



MTU Aero Engines AG  
 Dachauer Straße 665  
 80995 Munich • Germany  
 Tel. +49 89 1489-0  
 Fax +49 89 1489-5500  
 info@mtu.de  
 www.mtu.de

### T408 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