

# DEFENSE & AEROSPACE COMPANIES

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## VOLUME II

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### SAMPLE

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## GKN plc

**Pratt & Whitney F135**

The F135 is a twin-spool, low-bypass-ratio, augmented turbofan engine designed for Lockheed Martin's F-35 Joint Strike Fighter. GKN Aerospace Engine Systems produces the intermediate case and low-pressure shaft for Pratt & Whitney's F135.

**Pratt & Whitney PW4000**

The PW4000 is a two-spool, high-bypass-ratio, advanced-technology turbofan engine designed for heavy commercial transports and possible military variants thereof. GKN Aerospace Engine Systems produces the exhaust nozzle; the exhaust system nozzle and plug; the lower aft pylon fairing; and the primary exhaust cowl.

**Rolls-Royce Trent**

This is a three-spool, high-bypass-ratio, turbofan engine designed for large commercial transport aircraft. GKN Aerospace Engine Systems is supplying a lower-weight, higher-performance intermediate compressor case for the enhanced-performance Trent XWB-84 engine. This engine will power the A350-900 family, entering service in early 2020.

**Industrial & Marine Turbine Programs****GE LM1600**

The LM1600 is a simple-cycle, dual-rotor, axial-flow aeroderivative industrial/marine gas turbine. Applications include electrical generation, such as cogeneration, and various mechanical load drives, including use as a compressor driver for pipeline platform, and process operations. GKN Aerospace Engine Systems (formerly Volvo Aero) produces turbine stator components for this engine.

**GE LM2500**

The LM2500 is a twin-spool, axial-flow, aeroderivative industrial gas generator/gas turbine. Applications include utility and industrial electric power generation, including cogeneration and cogeneration installations; various mechanical load drives; and

marine propulsion. In October 2005, GKN Aerospace Engine Systems and GE signed an agreement whereby GKN would increase its stake in the LM2500 industrial gas turbine. The total turnover for the additional agreement is estimated at SEK1 billion for GKN. The new contract applies to Stages 10-13 of the high-pressure compressor (HPC) spool for the same gas turbine. With the latest addition, GKN Aerospace Engine Systems will be responsible for substantially all of the disks and spools in the HPC section (i.e., Stages 1-16).

**GE LMS100**

The LMS100 is GE Energy's 50-Hp/60-Hz intercooled 100-MW aeroderivative gas turbine for electrical generation duty. GKN Aerospace Engine Systems is designing and manufacturing power turbine (PT) case and compressor rear frame, and is manufacturing the intermediate pressure turbine (IPT) frame.

**Rolls-Royce Industrial Trent**

The industrial and marine Trent is a three-shaft, axial-flow, aeroderivative industrial and marine gas turbine engine. The twin-shaft Marine Trent MT30 became available in 2004. GKN Aerospace Engine Systems provides the intermediate pressure compressor (IPC).

**Aerospace System Programs****Ariane 5**

The Ariane 5 is a European heavy-lift expendable launch vehicle. The Vulcain and Vulcain 2 rocket engines are the main-stage engines on the Ariane 5 rocket. GKN Aerospace Engine Systems supplies several of the engines' key parts, such as the hydrogen turbines, oxygen turbines, and hydrogen-cooled nozzle. GKN Aerospace Engine Systems also provides components such as the hydrogen turbine and oxygen turbine for the Vinci upper-stage engine on the Ariane 5. In June 2017, GKN Aerospace delivered the first advanced Ariane 6 nozzle (SWAN) to Airbus Safran Launchers in France for the Vulcain 2.1 engine.

**U.S. Contract Awards**

The following is a listing of major contracts awarded to GKN Aerospace and its subsidiaries from the U.S. government in the past few years (contracts as of press date). Note that the Description section is excerpted directly from U.S. DoD listings. For full details on individual contracts and their associated modifications, visit <http://www.defense.gov/contracts> and enter the contract number in the Search Contracts box.

Date	Award (USD millions)	Contract #	Description
9/9/14	9.7	SPRTA1-14-C-0114	TURBINE AUGMENTER EXHAUST NOZZLE REPLENISHMENT SPARES.
9/30/16	9.7	SPRTA1-16-C-0017	AIRCRAFT FAN DUCTS.
8/3/17	10.1	SPRTA1-17-C-0025	F-100 AIRCRAFT ENGINE FAN DUCT SPARES.

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