

MS5001 Gas Turbines

The MS5001 single shaft turbine is a compact heavy-duty prime mover designed for long life and ease of operation and maintenance. The three main features of its simple design are:

- 17-stage axial compressor
- Combustion system with 10 chambers capable of burning a wide range of fuels including natural gas, light and heavy distillates, and crude and residual oil. A DUN System is also available.
- Two-stage turbine with high energy stage design. The first-stage nozzles are cooled by the axial compressor discharge air.

The MS5001 Gas Turbine is the ideal solution for power generation where low maintenance, reliability and economy of fuel utilization are required. Low operating and investment costs make the MS5001 package power plant an economically attractive system for load generation. The MS5001 is also ideally suited for cogeneration achieving a very high fuel utilization index and considerable fuel savings. Typical applications are industrial plants for cogeneration of power and process steam or district heating systems.

As a consequence of the extremely favorable operating, maintenance and economic characteristics of the MS5001 it has been very well accepted in the industry and there are more than 2500 units in operation all over the world.

MS5001 Gas Turbine



Ge Ms5001 Turbine Service Manual

Huangqi Zhang



Ge Ms5001 Turbine Service Manual:

Van Nostrand's Scientific Encyclopedia Douglas M. Considine, Glenn D. Considine, 2013-12-11 Advancements in science and engineering have occurred at a surprisingly rapid pace since the release of the seventh edition of this encyclopedia. Large portions of the reference have required comprehensive rewriting and new illustrations. Scores of new topics have been included to create this thoroughly updated eighth edition. The appearance of this new edition in 1994 marks the continuation of a tradition commenced well over a half century ago in 1938. Van Nostrand's Scientific Encyclopedia First Edition was published and welcomed by educators worldwide at a time when what we know today as modern science was just getting underway. The early encyclopedia was well received by students and educators alike during a critical time span when science became established as a major factor in shaping the progress and economy of individual nations and at the global level. A vital need existed for a permanent science reference that could be updated periodically and made conveniently available to audiences that numbered in the millions. The pioneering VNSE met these criteria and continues today as a reliable technical information source for making private and public decisions that present a backdrop of technical alternatives. **Coal**

Gasification United States. Division of Coal Conversion, 1979. Includes glossary of terms. **ASME Technical Papers**, 1984

Coal Conversion United States. Department of Energy. Division of Fossil Fuel Processing, 1979. **Coal Gasification**, 1978. Includes glossary of terms. *Coal Conversion* United States. Department of Energy. Division of Coal Conversion, 1978

Coal Conversion, 1978. *Diesel Engineering & Gas Turbines*, 1978. **Paper**, 1985. *Development of High-temperature Turbine Subsystem Technology to a "technology Readiness Status", Phase I* A. Caruvana, 1978. The primary objective of the Phase I ERDA High Temperature Turbine Technology HTTT Program was to provide a Program and System Definition of the three phase program which would culminate in the testing of a Technology Readiness Vehicle TRV at the end of a six year period. The TRV is designed for use in a combined cycle using coal derived fuels at a firing temperature of 2600 F. Growth capability to 3000 F is projected. The Phase I results reported are based on a 2600 F gas turbine burning coal derived fuels. The following major areas are covered: overall plant design descriptions, systems design descriptions, turbine subsystem design, combustor design, phase II proposed program and phase III proposed program. Details regarding final results of each of these areas are presented. It is concluded that the water cooled gas turbine in combined cycle has been shown to be capable of extremely attractive levels of performance both in terms of efficiency and specific output. Coupled with the ability to tolerate a wide range of coal derived fuels with minimum fuel treatment, an extremely attractive system is presented for the generation of electric power. Future technology development of the high firing temperature water cooled gas turbine is expected to result in the commercial introduction of this concept in combined cycles by the late 1980s or early 1990s. **Development of high temperature turbine subsystem technology to a "technology readiness status".**

General Electric Company. Gas Turbine Division, 1976. **Water and Energy International**, 2014. *Fossil Energy*, 1977

Energy Information Abstracts Annual, 1990 ,1990 **Proceedings** ,1981 **Operator's and Unit Maintenance Manual** ,1991 **Model 502-10MA Gas Turbine Engine** Boeing Airplane Company. Industrial Products Division. Service Publications and Training Unit,1963 Model 551 Gas Turbine Engine Boeing Airplane Company. Turbine Division. Service Publications and Training Unit,1965 **Gas Turbine Engine Commercial Series Maintenance Manual** ,1975 *Gas Turbine Engine Basic Training Course* Ford Motor Company. Industrial Power Products,1971

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