



■ Product brochure

Compressor
Wet cleaning

Turbotect
Saint-Petersburg Ltd.

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TURBOTECT® ТУРБОТЕКТ®



Turbotect Saint-Petersburg Ltd. was founded in 1998 in Saint-Petersburg as a fully integrated company with in-house analytical, design, engineering, manufacturing and service departments. Turbotect Saint-Petersburg provides solutions to enable its clients to meet the increasingly demanding environmental regulations and maintain the efficiency and productivity of their power plants as close as possible to the nominal values.

Turbotect Saint-Petersburg is focused on the development and manufacturing of washing systems for gas turbine axial compressors and gas coolers, washing detergents and antifreeze agents, electrostatic oil cleaners, oil-filling and oil-collecting units for compressors and power stations.

Relying on its flexible organizational structure, Turbotect Saint-Petersburg offers customized solutions for the needs and requirements of its customers. Installation and maintenance services are available upon request and regular field visits by its engineers ensure continuous improvement and development of the company's products based on the needs of its customers.

Turbotect Saint-Petersburg guarantees the supply of spare parts and consumables over the entire lifetime of its products.

In 2006 Turbotect Saint-Petersburg Ltd. has implemented a quality management system certified to ISO 9001:2008. Starting 2014 the quality management system complies to ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007.



Short description

A differentiated and integrated approach to the problem of axial compressor fouling is the cornerstone of our research and activity.

We offer :

- Integrated solutions for axial compressor cleaning based on a combination of "OFF LINE" and "ON LINE" cleaning procedures
- Cleaning systems adapted to the individual construction features of various gas turbines

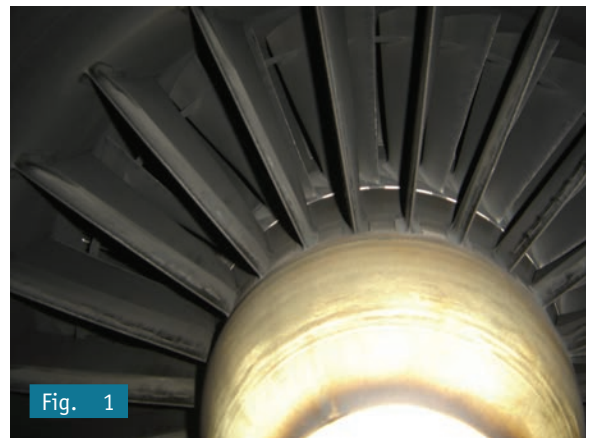
The cleaning system includes:

- A nozzle injection system for "OFF LINE" cleaning
- A nozzle injection system for "ON LINE" cleaning
- A wash skid
- Cleaning fluids

Regular cleaning cycles maintain the output and efficiency of the gas turbine unit close to their current nominal values.

Contamination on the compressor blades (fig. 1-2)

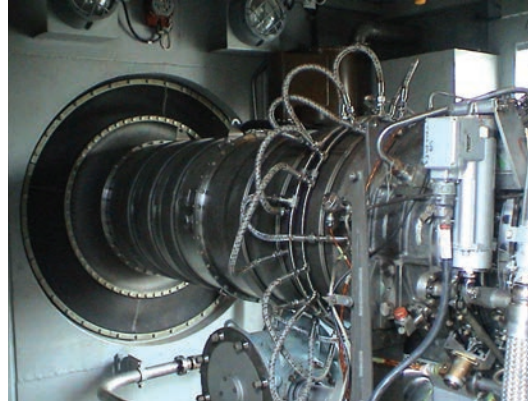
Compressor blades after wet cleaning (fig. 3-4)



Nozzle injection system for “OFF LINE” cleaning

Specially engineered and designed “OFF LINE” nozzle systems ensure:

- High efficiency and quality cleaning
- Avoidance of erosion
- Restoration of gas turbine unit output and efficiency to near nominal values
- Cleanliness of compressor blades



Nozzle injection system for “ON LINE” cleaning

Specially engineered and designed “ON LINE” nozzle systems ensure:

- Longer intervals between shutdowns
- High efficiency and quality cleaning
- Avoidance of erosion
- Cleanliness of compressor blades
- Absence of effluent water for disposal



A combination of “OFF-LINE” and “ON-LINE” cleaning procedures keeps GTU output and efficiency near nominal values.

Wash skids for the preparation and injection of cleaning fluids are available in different versions, according to customers' requirements. Mobile, stationary and explosion-proof versions can be supplied. The general characteristics of the wash skids are given in Table 1.



TPM01



TPM02

Table 1

Parameter	TPM01	TPM02
Length, mm	2636	1450-1985
Width, mm	1690	905-1312
Height, mm	1854	1700-1750
Tank capacity, liter	2x1250	2x400
Net weight, kg	950	350-500
Working power, kW	6	2-3
Power supply	three-phase, 400 V, 50 Hz	



TPM02V-03



TPM02S-2

TSP-3030

- Water-based compressor cleaner
- For use in "OFF LINE" and "ON LINE" cleaning procedures
- Non-toxic
- Non-flammable
- Fully biodegradable, low-foaming, special inhibitors ensure compatibility with common coatings and paintings
- Recommended for situations where fouling is caused by salt and water-soluble deposits



TSP-5050

- Solvent-based compressor cleaner
- For use in "OFF LINE" and "ON LINE" cleaning procedures
- Recommended for removing grease, oil, soot and other heavy fouling contaminants
- Special inhibitors ensure compatibility with common coatings



Antifreeze and rinsing fluid TSP-A283

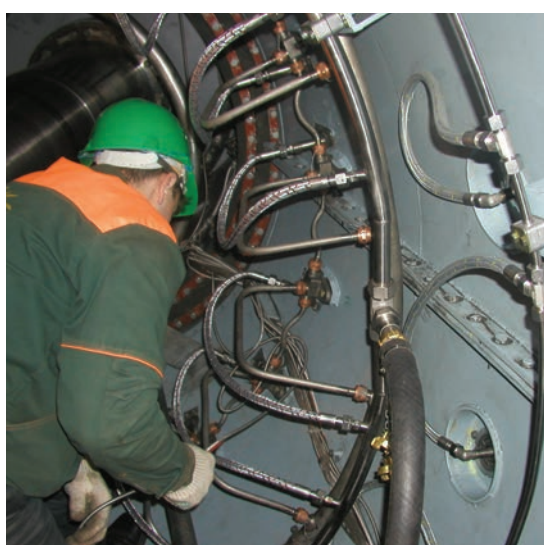
- Antifreeze fluid for use in an ambient temperature range of (-15 to +5 °C) for "OFF LINE" and (-10 to +10 °C) for "ON LINE" modes of compressor washing.
- Fully compatible and designed for use with TSP-3030 and TSP-5050
- Ready to use
- Non-toxic
- Non-flammable



Department of mounting and technical service

The department of mounting and technical service provides a full range of services, including:

- Mounting, startup, adjustment and turnkey installation of all equipment
- Training of clients' operating staff
- Service during the guarantee and post-guarantee period





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