



SISTEMI
INDUSTRIALI
The noise of silence

THE NOISE of silence





THE NOISE *of Silence*

Welcome to Sistemi Industriali S.p.A. a World Class specialist in Noise Management solutions.

Sistemi Industriali is providing customized solutions based on a proven track record in design, engineering and manufacturing of auxiliary systems for turbogas packages and any rotating machines. We have particular expertise in dealing with the problem in the oil and gas market. Sistemi Industriali produces Soundproofing Enclosures that can be used in all environmental conditions and for all types of installation (heavy duty, marine and offshore).

We're also specialists in designing and producing silencing systems for gas turbine exhausts, as well as for the forced ventilation of machines and their thermal and acoustic insulation by "tailor made" cladding.

The range of products at Sistemi Industriali also includes shut-off or regulation dampers, expansion joints, electrical and instrumental systems to control conditions inside the enclosures, and gas and fire detection systems. Both new systems as well as upgrades, retrofits and spare part kits are provided.

Our customers are gas turbine manufacturers (OEM), boiler suppliers, power producers, EPC contractors or end users.



**Over 20
Years of
Experience**

SISTEMI INDUSTRIALI S.p.A. was founded in 1998 and has been operating for over twenty years in Noise reduction market and thermal and noise insulation, keeping up with increasingly severe market conditions and facing the challenge launched by the global market.

Engineering

Every one of our projects is carried out by a team of experts, with decades of experience in engineering every detail of system.

We pay the utmost attention to ensuring every component is totally reliable.

We also ensure our systems will work in all environmental conditions, even in extreme cases such as **BLAST LOADS** or **FIRE**.



Production

Sistemi Industriali is a leading producer of enclosures, exhaust systems and emission control for industrial gas turbines and all kinds of rotating machines.

We develop new installations and revamp existing ones for many global leaders in the Power, and Utilities markets.

We design our products rigorously at our Italian headquarters, and produce them at our production facilities in a series of strategic locations around the world.



Quality & EHS

For over 20 years, customer satisfaction has been the key to our success, largely based on long-term relationships built on the installations and maintenance that Sistemi Industriali has carried out at customer facilities and production sites around the world.

Our after-sales solutions allow us to maintain, renovate and update equipment, reducing the risk of faults and avoiding costly downtimes for systems.



Acoustic Enclosures

Application:

- Compressor
- Gas turbine
- Steam turbine
- Every noisy equipment



With over 1000 GAS TURBINE acoustic enclosures installations worldwide and 100% delivery record, Sistemi Industriali equipment noise control solutions are available whenever and wherever you need them.

Sistemi Industriali is an experienced acoustic manufacturer. Our acoustic enclosures provide the right system to control any type of equipment noise, for indoor, outdoor and off-shore applications. They are the best and most complete solutions to reduce industrial noise.

Our acoustic enclosures are self supporting or steel frame applied. They can include silencing of the ventilation air, cooling and exhaust system to give you the most comprehensive sound mitigation solution available. Acoustic panels are easily installed and dismantled. Panel intersections, the sealing of joints and the treatment of assembly penetrations have been carefully considered to ensure the highest acoustical performance.

The acoustic performance of our enclosure has been verified on site after installation. We also constantly test our products in the laboratory, to fit the best technical solution at the right price.



Application:

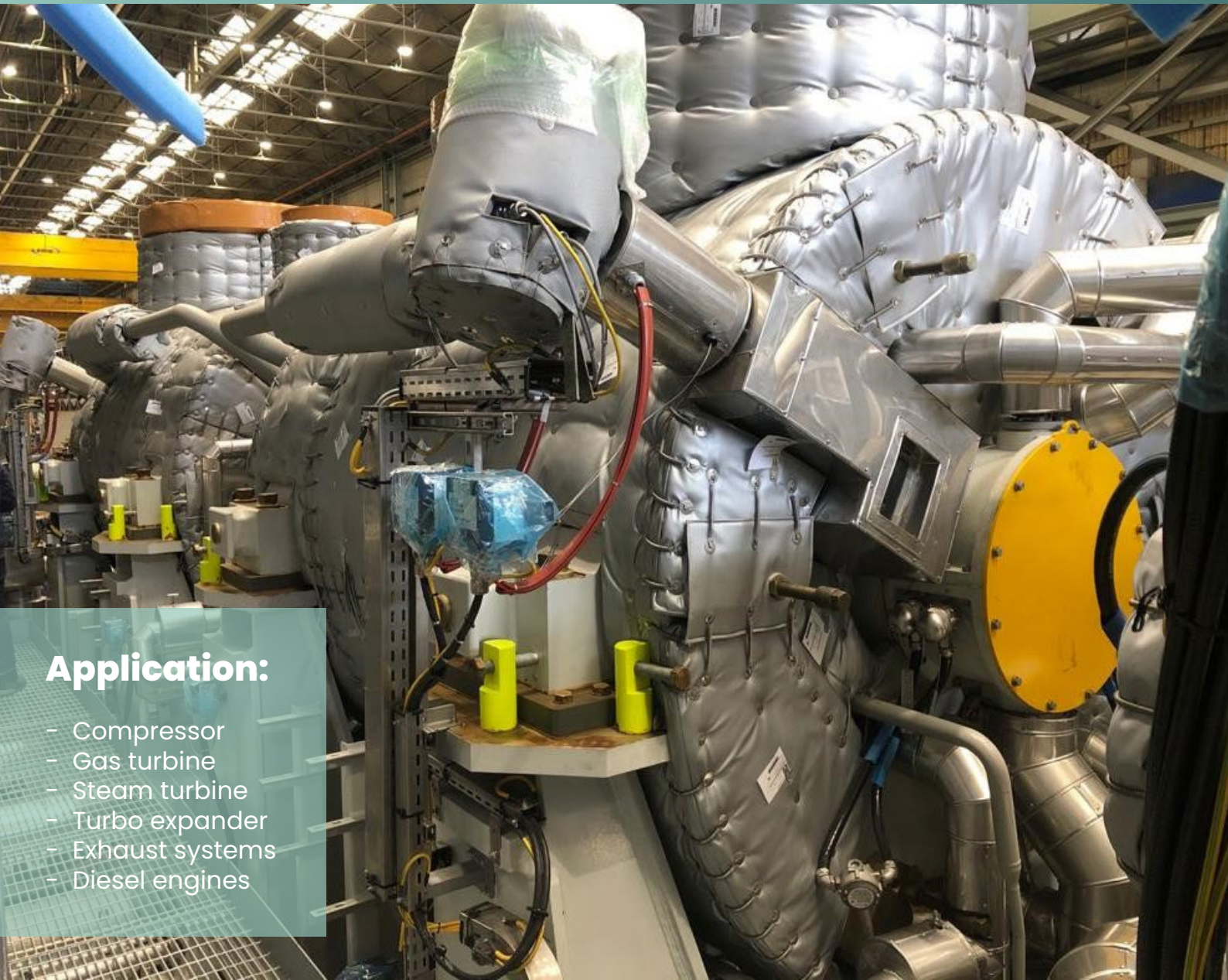
- Power generation units
- Oil & Gas booster station
- Boiler shroud
- LNG module cladding

Acoustic Buildings & Claddings

Our team is able to design and produce soundproofing buildings, off-base enclosure and cladding for power plants or large plants like LNG units. For these applications, the purpose of the enclosure is not only to reduce the noise produced by the machines inside it, but it is the real engine room. These enclosures are complete with all the auxiliary systems needed for the operation of the plant, starting from the ventilation system or HVAC to the electro-instrumental control system and fire and gas detection and extinguishing system. The supply will be made "turnkey", customized according to the customer's needs, starting from the design basic data, dealing with all aspects of both mechanical and electro-instrumental engineering, up to the construction and supply of each single part.



Acoustic Blankets



Application:

- Compressor
- Gas turbine
- Steam turbine
- Turbo expander
- Exhaust systems
- Diesel engines

Acoustic blankets are a versatile and functional solution for noise reduction. They are a flexible insulation system, completely removable and reusable. This system is easy to install and remove on field. Acoustic blankets are tailor made on noisy machinery and they reduce noise at the source. This system is applicable in each installations, indoor or outdoor and even on many high heat equipments.

Acoustic blankets are available in many kinds of materials according to the noise reduction required and to the heat surface temperature.

Acoustic blankets can be made with many kind of fabric. According to the type, weight and surface treatment, fabrics have an application range from 100°C to 1100 °C, satisfying every requirement of plant. The insulating materials are selected according to the surface equipment temperature and the noise reduction required.

Application:

- Ventilation system -
- GT Exhaust system & Stack -
- Intake air system -
- Scrubbers -



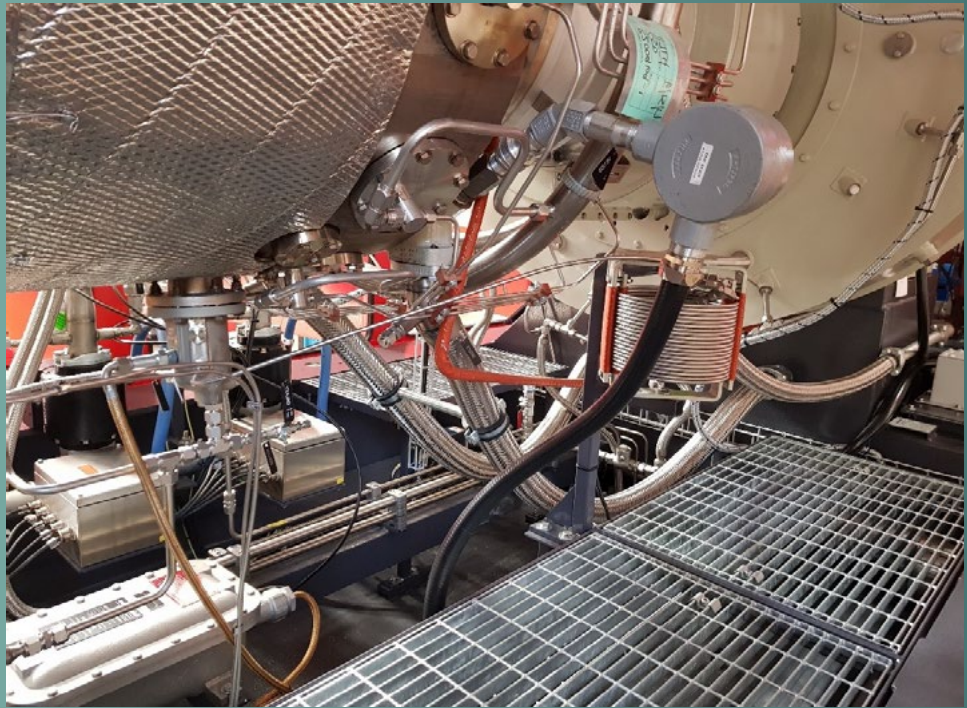
Ducting & Exhaust Systems

We provide a wide range of ducting used in various services within the plants.

First of all, the ventilation system of our enclosures, designed to ensure the correct internal conditions for the operation of the machines installed inside. We also design and supply air intake and exhaust systems for turbomachines, suitable for any condition, both for on-shore and off-shore installation, including anti-ice skids for application in very cold conditions, meant to avoid the freezing on the filtering front. Our ducting systems are completed by a wide range of expansion joints and regulation, shut-off and gravity dampers, designed for extreme uses typical of oil & gas applications, including MED fire rating class.



Gas Turbine Packaging & Auxiliary Systems



Sistemi Industriali has recently launched a new business unit for the packaging of gas turbines.

The company has two different production sites, both equipped with the necessary lifting tools to operate on large and heavy machines.

The GT packages are intended for Industrial Power generation market. We take care of the assembly of the auxiliary and electro-instrumental system built in on the enclosure, as well as the assembly of the gas turbine core, under license and control of the gas turbine maker.

We also take care of the supply chain of all the mechanical and electrical components necessary for the completion of the GT package and, at the end of the assembly, all the necessary tests are carried out in our factories to guarantee the functionality of the machine and make it ready for direct shipment to the end user installation site.

The noise reuction required and to the heat surface temperature.

Every material used has technical and safety certification.



Application:

- HRSG boilers
- Fired boilers
- Blow-off vent
- Natural gas vent

Silencers

Exhaust fluid silencers under pressure are used to reduce noise coming from the steam, air, natural gas, azote, oxygen and other gaseous. These equipments are usually placed downstream interception valves.

The opening of these valves generally causes the fluid to outflow at sonic speed, and this cause a critical pressure drop that generate an extremely high sound level, not easy to tolerate.

The silencer is able to keep the fluid under pressure, reducing it gradually until released into the atmosphere.

Atmospheric conditions are then gradually reached and the sound level produced is highly reduced.



New Technologies



The Oil & Gas market always requires innovative products to reduce both the impact that the environment have on them and that these products have on the environment itself. For this reason, our **products and services** are “customer oriented” with technical solutions aimed to allow them to be used in the worst possible condition. For offshore applications, for example, the market requires technical solutions to reduce the overall weight, with high corrosion resistance and easy handling of components. The soundproofing enclosures made with composite panels (Kevlar, carbon fiber, glass fiber) fully meet these characteristics.

- Low weight – 33 % compared to Carbon Steel equivalent
- High resistance to chemical agents
- High impact resistance
- High corrosion resistance

This panels also allows to completely remove the need for welding and painting, two of the steps with major impact on the environment due to the power consumption and the chemicals used.

For a Sustainable Future

To produce our systems, we want to use only eco sustainable insulating materials, obtained from recycled materials, using processes with low energy impact, compared to traditional insulating materials. The advantages in the use of recycled materials are many:

- Greater economic sustainability of a recycled product than one obtained through the use of raw materials.
- The amount of undifferentiated waste to be disposed of is reduced, with benefits for health and the environment.
- Waste becomes a resource, without waste and closing the circle of the life cycle.
- The use of raw materials is reduced and research and eco-innovation are promoted.

PET - Systems



SISTEMI-PET is a Fireproof insulation material manufactured with polyester recycled fibers from recycled plastic bottles. The main features and advantages of the product are:

- Excellent soundproofing features
- Non-allergenic
- Rot-proof & water repellent
- Breathable
- 100% recyclable
- Durable over-time

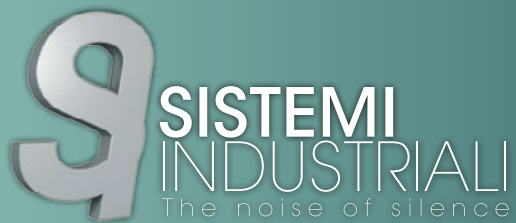
TEX - Systems



SISTEMI-TEX is an acoustic insulation material manufactured in recycled textile fibers from processing scraps from the textile industry and used clothes that have reached their end life. The main features and advantages of the product are:

- Excellent soundproofing features
- Non-allergenic
- Rot-proof & water repellent
- Breathable
- 100% recyclable
- Durable over-time





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