

COMPANY PROFILE

SANCO S.p.A.

Who we are



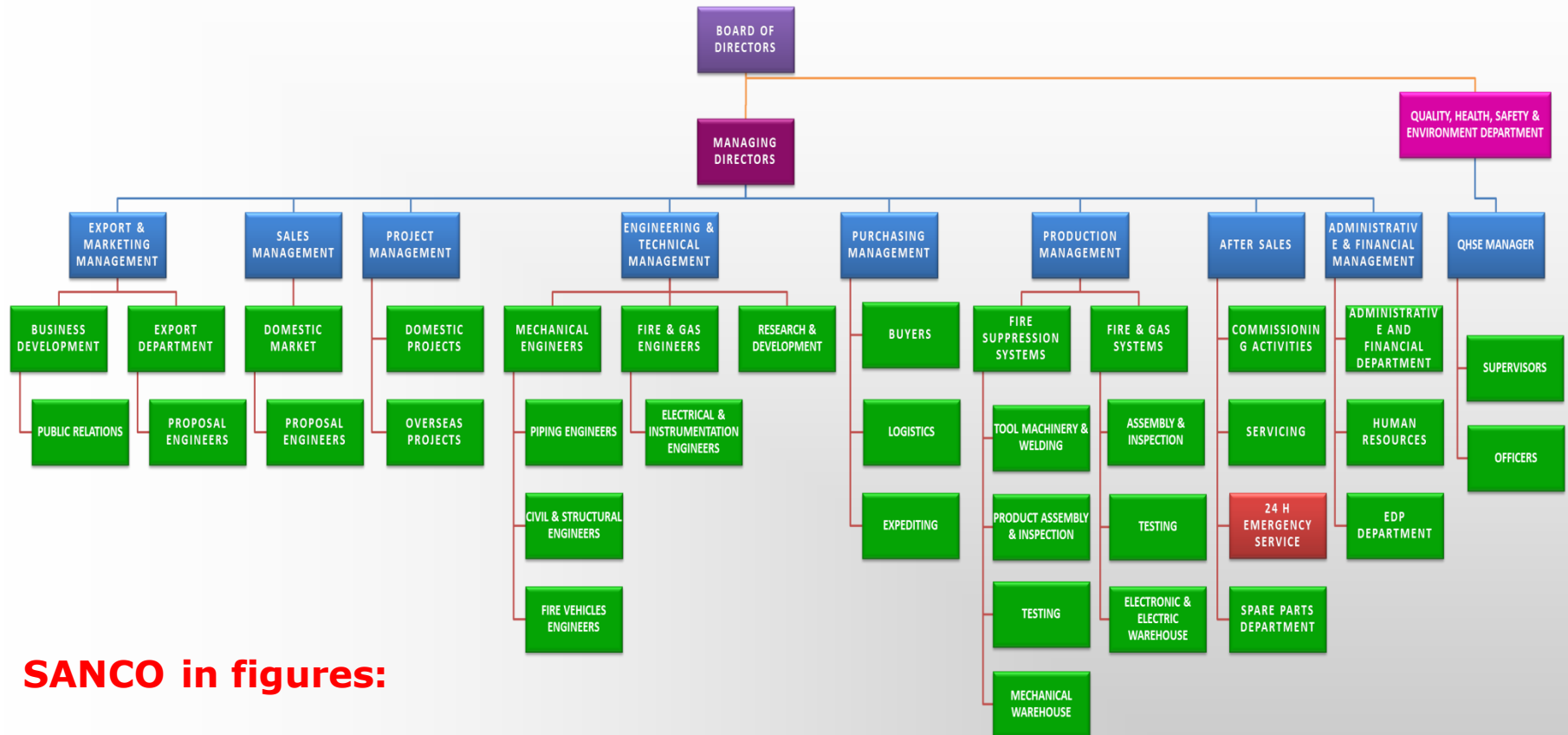
- Fully independent Italian stock Company
- Covers an area of 28,000 sq.m.
- Chamber of Commerce Registration:
01842700039
- Fully paid-up capital: € 2,000,000.00
- Worldwide presence in more than 95 Countries
- Design, manufacturing, assembling and management of complete projects
- All activities are carried out according to ISO-EN 9001 – 2008 , 14001:2004 and OHSAS 18001 – 2007 procedures certified by Lloyd's Register

Headquarters and Works:
Via Ravizza 13/A - 28066
GALLIATE (Novara) - ITALY
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Fax +39 0321 806699
email: marketing@sanco-spa.it
www.sanco-spa.it

"Customer's satisfaction is our primary aim"

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Company structure

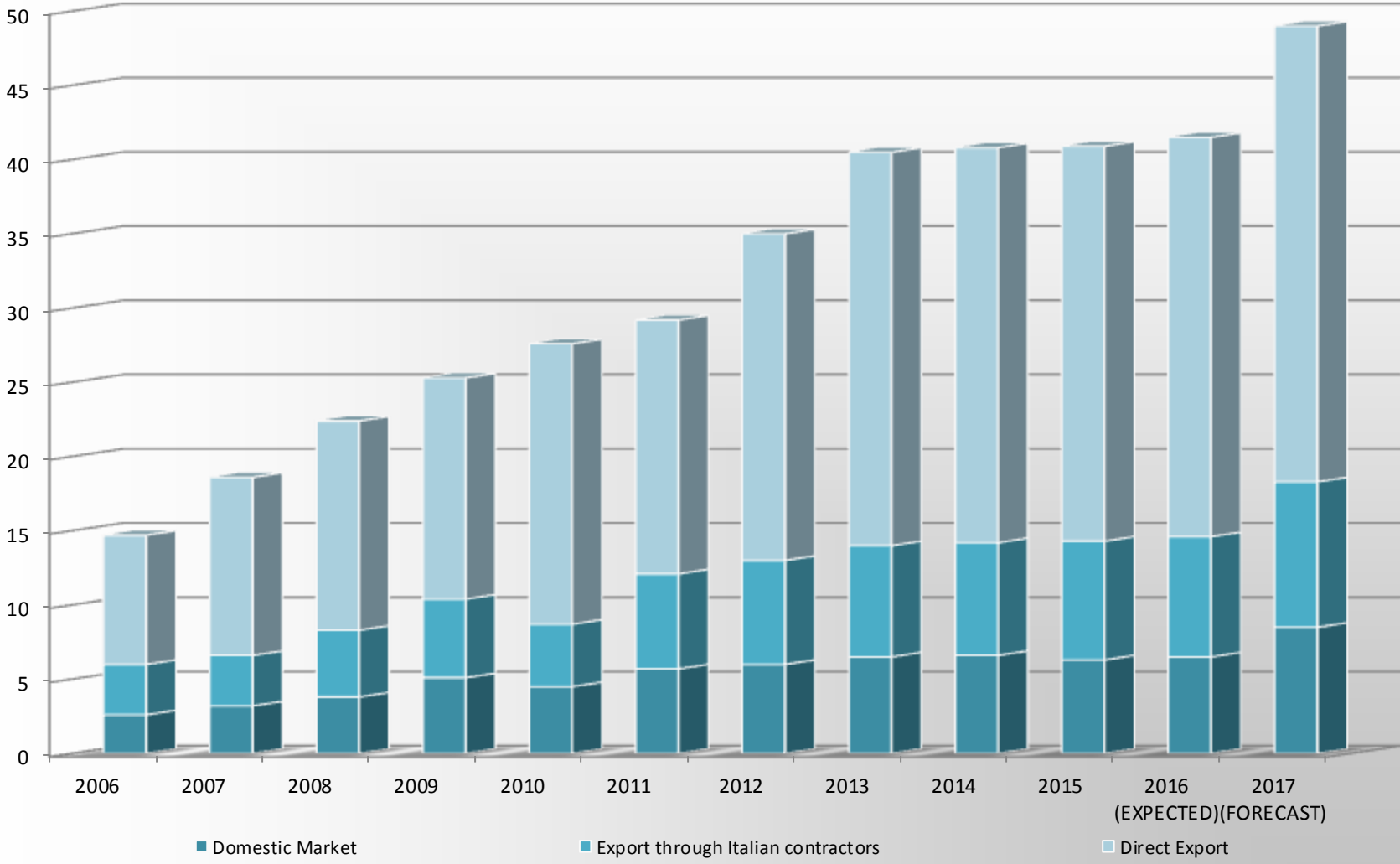


SANCO in figures:

- 160 employees
- 38 dedicated engineers (Design Department)
- 2 manufacturing lines: electronic and mechanical
- 1 dedicated R&D department

Our growth

Million €



Engineering Service

Fire Risk Engineering

SANCO engineers are able to find the most suitable solution in order to reduce the fire risk level defined by the client during the design stage.

Our aim is to supply reliable, efficient and cost effective fire protection systems design for the protection of lives and assets.



Detailed Engineering of Fire & Gas Detection and Fire Suppression Equipment/Systems

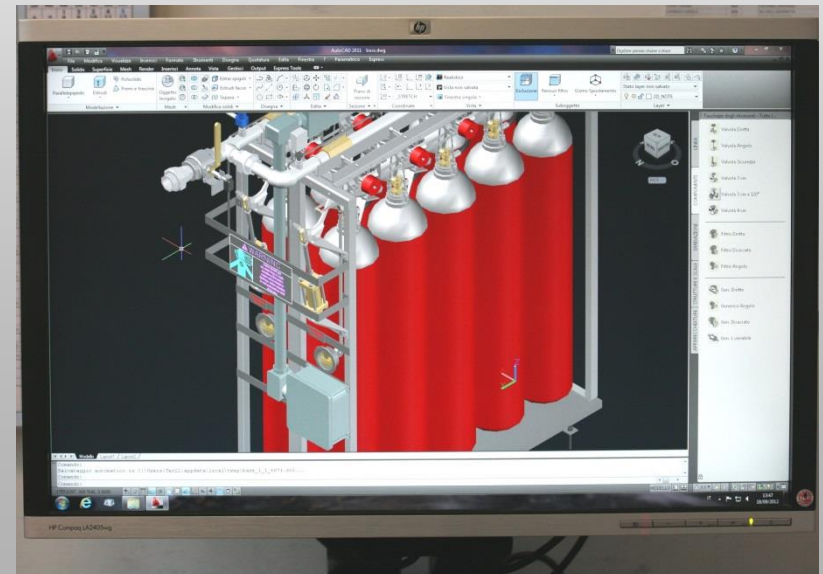
SANCO dedicated engineers (35) are fully aware of International standards and they design performant and reliable fire protection systems.

They interface with different engineering disciplines (civil, mechanical, process, HSE, HVAC, electrical) in order to ensure that systems are properly integrated and that they operate on demand.

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We project

- Advance studies
- Basic design
- Detailed design
- Project control
- 3D system design



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We manufacture

MANUFACTURING DEPARTMENTS:

MECHANICAL SHOP

- Welding
- Assembling
- Painting
- Machines and equipment
- Testing

ELECTRONIC SHOP

- (with climate chamber for the storage of electronic components used for the assembly of fire alarm panels)
- Assembling
- Testing

WAREHOUSE

- Production stage
- Parts & Components
- Complete units for immediate sale
- Spares & Components for customer care service



Design & Manufacturing according to the following rules:

- **N.F.P.A.**
(National Fire Protection Association - USA)
- **U.N.I. - EN**
(Italian/European Standard Organisation)
- **FM** (Factory Mutual)
- **UL** (Underwriters Laboratories)
- **I.S.O.** (International Standardisation Organisation)
- **V.d.S.**
- **M.E.D.**
(Marine Equipment Directive)



- **A.N.S.I. - A.S.M.E.**
(American National Standards Institute - American Society of Mechanical Engineers)



- **B.S.** (British Standards)



- **Italian Ministry of the Interior**

- **Italian Ministry of Transport**

- **Italian Navy**

- **Italian Ministry of Defence**

Design & Manufacturing according to the following rules:

- **D.I.N.**
(Deutsches Institut für Normung)



- **A.R.H.**
(Autorité de régulation de hydrocarbure)



- **GOST**
(Russian standard)



- **C.E.I.**
(Italian Electric Committee)



- **P.E.D.**
(Pressure Equipment Directive)



- **SOLAS** (Safety of Life at Sea)



- **D.N.V.** (Det Norske Veritas)



- **T.U.V.** (Technischer Überwachungs Verein)



- **A.T.E.X.** (Equipment for use in potentially Explosive Atmosphere)



- **Other standards**
(on customer request)

Our products

PORTABLE AND WHEELED EXTINGUISHERS:

- water
- CO₂
- foam
- twin agent
- Monnex powder
- dry chemicals: BCE-ABCE-D



FOAM-MAKING EQUIPMENT:

- fixed and portable foam-making branch pipes
- high and medium expansion foam generators
- foam monitors
- automatic proportioning units
- liquid displacement proportioning units



FIRE BRIGADE MATERIALS AND EQUIPMENT:

- mobile monitors
- mobile foam units
- fog and spray nozzles
- hose reels and fire hoses
- pressure reducing valves
- branch pipes (water - foam)
- pillar and underground hydrants
- fire pumps (portable and tractable)
- fire cabinets & hydrant valves (globe & gate)

Our products



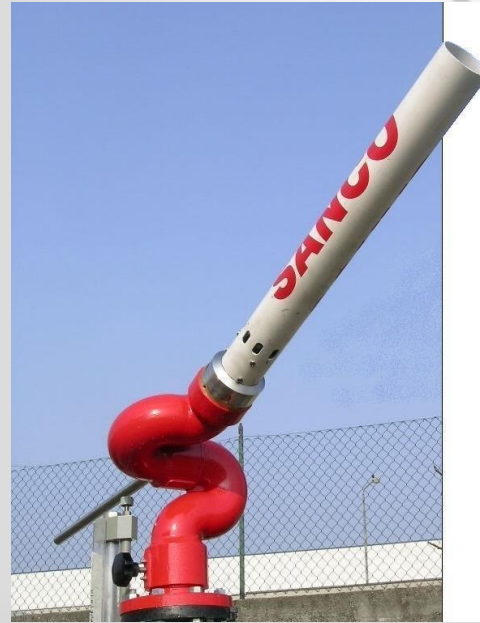
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Our products

MONITORS

(water, foam and dry chemical)

- Complete range
 - bronze made
 - stainless steel made
- Portable
- Manual operated
 - by bar
 - by wheels
- Single or double outlets
- Self-oscillating
- On tower
 - cable /chain operated
 - remote controlled operated
- On trailers and vehicles

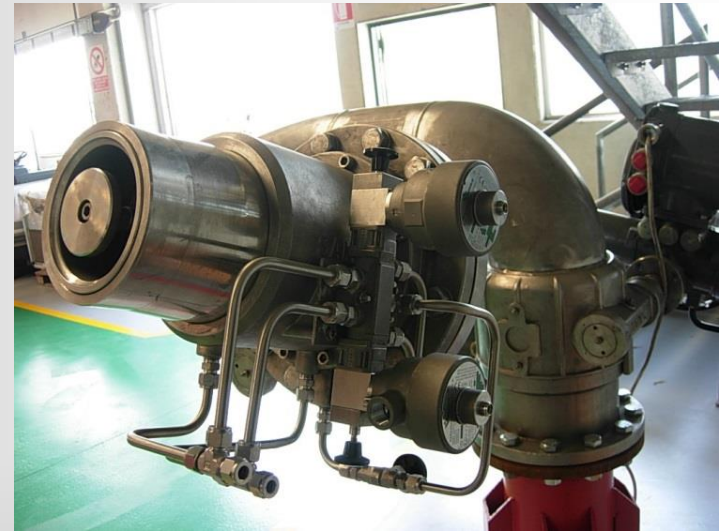


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Our products

MONITORS high flow/ long throw

Able to discharge from 20 to 40.000 lpm, designed and manufactured for massive fire risks, for large tank farms, civil military defence and for marine application (FiFi1 and FiFi2).



A mobile version (model RED TYPHOON) has been designed for high-risk operations (hydrocarbon tanks, chemical / petrochemical complexes and oil refineries, conventional and nuclear power plants).

Our products

FIXED INSTALLATIONS:

FIRE & GAS SYSTEMS (UL, SIL2 & SIL3)

- Optical smoke detectors both addressable and conventional
- Rate of rise heat detectors
- Multifunctional detectors
- Combined detectors (UV-IR)
- IR high tech gas detectors
- Optical fiber temperature detectors
- Spark and flame detectors
- H.S.D. smoke detectors (aspirating type)



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Our products

Features of fire alarm panel FB6100

- Analogue and digital I/O
- Conventional and optical fiber single – redundant loop of communication
- Modbus RTU 485/232 TCP-IP protocol of communication
- C.P.U. performance as for P.L.C. equipment (DCS)
- SIL 2 / SIL 3 system architecture configuration as per IEC 61508 TUV certified
- Touch screen HMI
- Hot swap for CPU and other boards



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Our products

FIXED INSTALLATIONS:

FIRE FIGHTING SYSTEMS - *Water*

- Sprinkler
- Deluge
- Hydrant and post indicator
- Pumping station
- Spray (low & medium speed)
- Water mist (medium, high pressure) by means of cylinders or pumps (medium, high pressure)



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Water Deluge Skid Mounted Units **Our products**



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Water Deluge Skid Mounted Units **Our products**



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Water Deluge Skid Mounted Units **Our products**



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Our products

Water Mist and Spray Systems



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Our products

FIXED INSTALLATIONS:

Carbon Dioxide (CO2)

- Low pressure (cryogenic)
- Vacuum type
- Carbon steel and stainless steel tanks
- Capacities: from 5000 to 15000 Its
- Manufactured in accordance with several international rules



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Our products

FIXED INSTALLATIONS:

Carbon Dioxide (CO2)

- High pressure (cylinders) with weighing systems on each cylinder (more than 20,000 cylinders/year)
- Rack solutions (with or without sun shield)
- In enclosures or containers (10'-20'-30'-40' and 50')
- Insulated as well for hot and very low temperatures



Gas systems *(Halon 1301 substitutes)*

- IG01 (Argon)
- IG100 (Nitrogen)
- IG 541 (Inergen)
- HFC 227ea (FM200)
- IG55 (Argonite)
- Novec 1230
- Fe25
- Other gases as per NFPA 2001

Our products



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FIXED INSTALLATIONS:

Our products

Foam Systems

- Foam systems preassembled on skid
- Foam proportioner (injection, balanced, hydraulic motor, bladder tank)
- SFSSS/E (Sanco Fixed Sub-Surface System): foam injection system for tank protection
- Foam systems for protection of floating roof tanks with modular units "Fastseal" (Rimseal type)



Our products

Foam Systems

- Low expansion
(from 2:1 to 15:1)
- Medium expansion
(from 20:1 to 150:1)
- High expansion
(from 200:1 to 1.000:1)

Suitable to be used with any type of foaming agent.



Our products

Dry chemical systems

- ABC multipurpose and MONNEX, capacities from 50 Kgs up to 5,000 Kgs

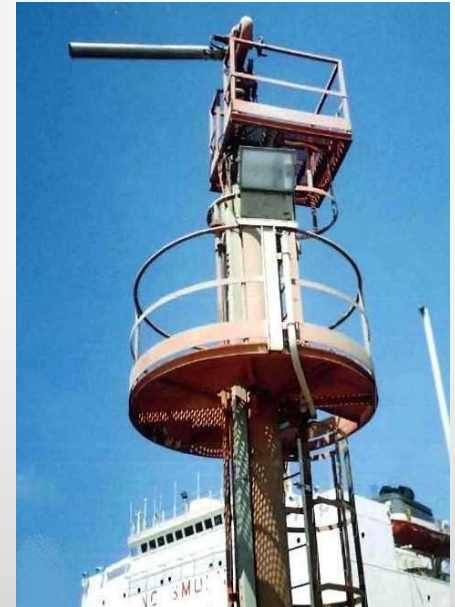


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Our products

Remote controlled monitors systems

- Electrically controlled
- Hydraulically controlled
- Electrically - hydraulically controlled
- Special type, with programmed control systems



Water/foam deluge systems

- Deluge control valve with manual and remote control release system



Twin Agent Systems

- All capacities: from 100/100 to 1,000/1,000 lt/Kg



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FIRE TRUCKS:

Our products

Municipal vehicles

- Rescue
- Tankers
- RW-crane
- Water/foam
- Ladder/platforms
- Rescue and salvage



Our products

FIRE TRUCKS:

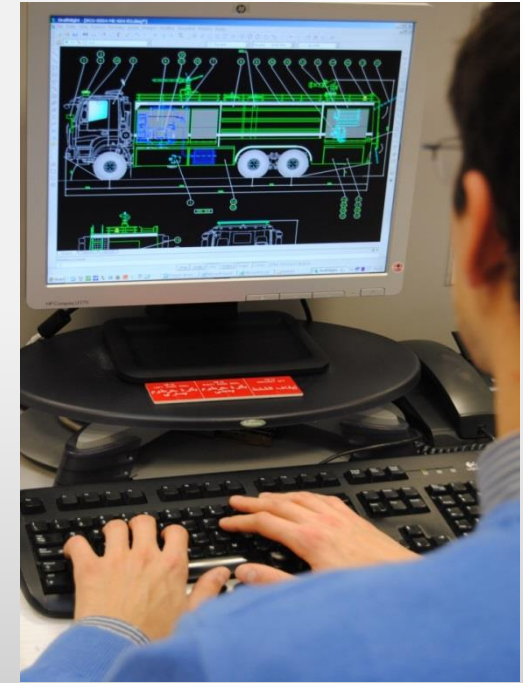
Industrial vehicles

- ❑ Foam
- ❑ Twin agent
- ❑ Water/foam
- ❑ Dry chemical
- ❑ Special telescopic
- ❑ Quick response pumper
- ❑ Polyvalent (water/foam/dry chemical)



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Our products



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FIRE TRUCKS:

Our products

Other vehicles and roll "on/off" containers

- Ambulance
- RIV (Rapid Intervention Vehicle)
- RFF (Rescue Fire Fighting Vehicle) - in accordance with ICAO rules
- Runway landing foam spreader



FIRE TRUCKS:

Our products

Special purposes vehicles and trailers

- Anti-riot
- HAZMAT
- Bullet proof
- TRI agent
- Water / foam tower
- Trailer mounted lighting units "ATEX" 3G (Zone 2) II B – T3 (200°C)



EXTINGUISHING AGENTS:

Our products

Dry Chemicals:

- BCE and BCE compatible with foam
- ABCE Polyvalent
- Monnex powder
- D specials for metals

Gas Systems

- Our own gas filling stations are available for first filling and refilling of CO₂, HFC227ea and other gases



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Our products

EXTINGUISHING AGENTS:

Foam Concentrate Liquids

- Protein foam (P)
- Fluoroprotein Foam (FP)
- Fluoroprotein Film Forming Foam (FFFP)
- Synthetic foam (S)
- Aqueous Film Forming Foam (AFFF)
- Alcohol resistant, both Fluoroprotein (FP/AR) and Synthetic (AFFF/AR) foam



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Quality System

All the activities are carried out in compliance with a Quality Management System certified by **Lloyd's Register UNI-EN ISO 9001-2008** and **ISO 14001-2004**



Our commitment on occupational health and safety: SANCO promotes a safety culture, and it has been certified by **Lloyd's Register OHSAS 18001-2007**

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Quality Award



On May 2014, during Lloyd's Register Award Ceremony, SANCO received the "**Quality Award 2014**".

It was the only fire fighting manufacturing Company to win this prize, among selected 1500 Italian Industrial Manufacturers participating to this Event.

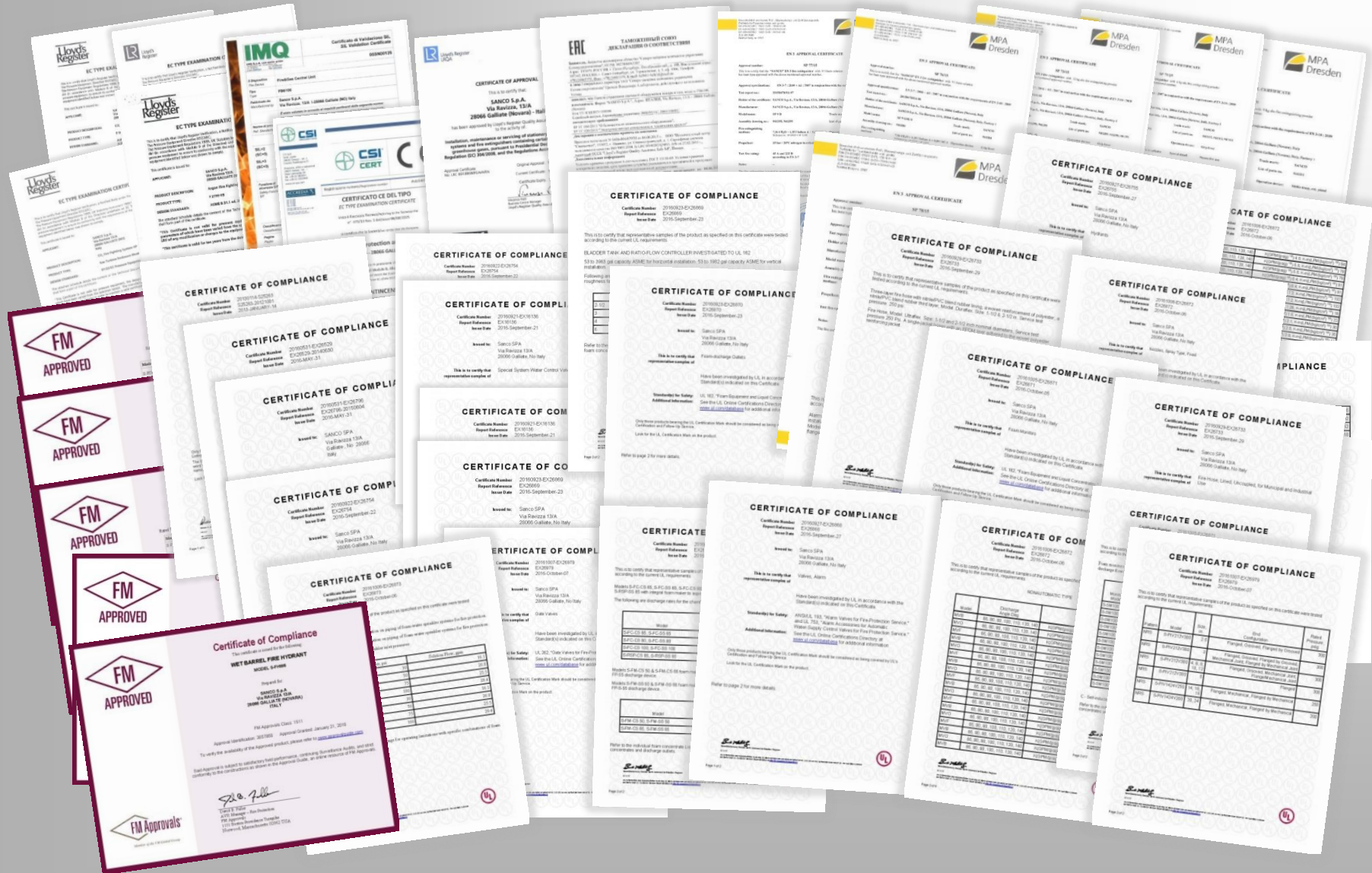
This reveals the appreciation of the quality SANCO has been providing by improving and implementing its Quality and Safety Systems, giving priority to technical excellence.

This motivates us to push further in our aspirations to provide quality at **the highest level**.

"Reliability from the design to the realization"

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Our Products' Certificates



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Systems and products are certified by:

▪ **R.I.Na.**
(Italian Naval Register)



▪ **L.R.** (Lloyd's Register)



▪ **B.V.** (Bureau Veritas)



▪ **I.M.Q.**
(Italian Institute of
Quality Mark)



▪ **CSI**



▪ **I.M.O.**
(International Maritime
Organization)



▪ **CEPAS**



▪ **MPA Dresden GmbH**



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Activities

- **COMMISSIONING & START-UP SERVICES**
- **FACTORY/ON SITE TRAINING**
- **AFTER SALES SERVICE**



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Protected Risks

- Harbours, Jetties & Fire Tugs

- Fire Brigade & Civil Defence

- Power Generations / Power Plants & Turbines, OM&GAS

- Oil Industry & Refineries

- Oil & Gas (LNG – LPG) Terminals and pipelines

- Ships and Off-shore Platforms

- Transportation:

- Airports
- Trains locomotives
- Underground
- Railway Stations
- Tunnels

- Post & Telecommunications

- Industrial Complexes:

- Plastic
- Motor
- Aerospace
- Electronic
- Paper
- Metallurgical
- Food & Drink
- Tobacco & Cigarettes
- Pharmaceutical

- Radio & TV

- Civil Building Works:

- Hospitals
- Museums
- Theatres
- Cinemas
- Commercial centres
- Schools and Universities

- Warehousing

“A specific solution for any problem”

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Harbours, oil jetties & firetugs

- The most important systems for a reliable protection by remote controlled monitors:

- electric control
- hydraulic control
- electro-hydraulic control
- radio control



Flow rate between 2,000 and 40,000 lpm, stainless steel AISI 316L or marine bronze made.

- Fire tugs:
- long range monitors for FF1 and FF2 Marine services stainless steel AISI 316L made.



Fire Brigade & Civil Defence

For municipal and civil defence fire brigade, we can supply:

- fire trucks
- foam concentrate liquids
- generating and lighting sets
- portable and wheeled monitors
- portable and wheeled pumps
- foam generators (medium & high expansion)
- fire hoses



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Power plants

- Over than 220 power plants
- Systems supplied:
 - fire and gas detection systems
 - water systems:
 - deluge
 - water mist
 - hydrant network
 - fire pumping station
 - portable & mobile extinguishers
 - miscellaneous & fire trucks
 - CO2 low and high pressure
 - foam systems
 - dry chemical systems
 - twin agents systems
 - trailer mounted equipment



Oil industry and refineries

A large range of fixed systems and mobile units is involved for the protection of:

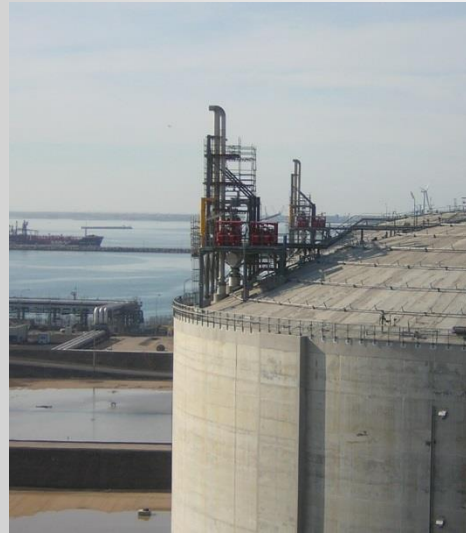
- n oil refineries
- n petrochemical plants
- n oil terminals
- n tank farms
- n LNG and LPG plants



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Oil and Gas Terminals

- Fire & Gas detection systems
- Dry chemical systems (from 50 up to 5,000 Kgs)
- Cooling systems
- Remote controlled monitors systems (water, foam or dry chemical) both for oil or LNG-LPG terminals
- Mobile equipment
- Fire vehicles
- Special ATEX power generating set



Ships & Off-shore platforms

- Sprinklers
- CO2 systems (high and low pressure)
- Foam systems (low and high expansion)
- Dry chemical systems
- Water / foam systems
- Deluge systems
- Argon systems
- Water/foam monitors
- Foam proportioning systems
- Water mist systems
- Self oscillating monitors
- FF1 and FF2 long range monitors for fire tugs



Transportation

- Airports
- Railways
- Underground
- Tunnels
- Ships
- For each type of risk a suitable system is provided.
- Fire detection, sprinkler systems for buildings, foam systems for refilling and hangar fire detection and protection.
- Fire trucks in accordance with ICAO rules.
- Special smoke/fire water fire suppression both for tunnel & railways:
 - inert gas for locomotive
 - ship protection systems in accordance with Naval Registers



Post & Telecommunications

- Radio-TV centres
- Airport radar rooms
- Phone communication centres and post offices

Mainly protected with:

- Fire detection systems
- CO2 and other gases Water mist systems
- Mobile & portable equipment



Industrial complexes

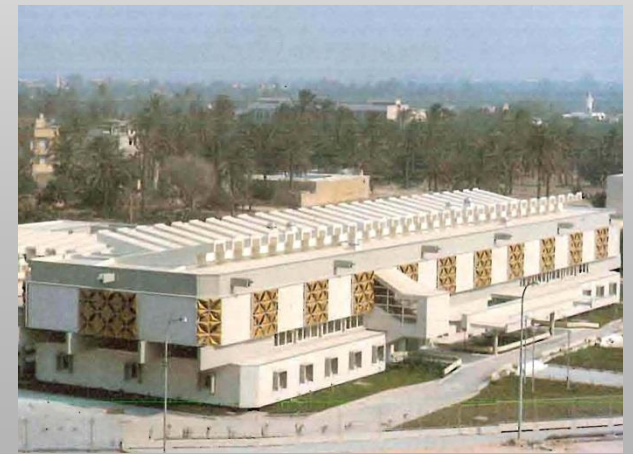
- Steel industries
- Paper industries
- Pharmaceutical industries
- Tobacco & cigarettes industries
- Food & drinks industries
- Plastic and rubber industries



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Civil building works

- n Hospitals
- n Universities
- n Malls
- n Museums
- n Theatres
- n Cinemas



Demonstration Facilities & Training

A suitable demonstration area is reserved for fire tests and research of new technologies for implementation of fire systems.

Moreover, in our Training Centre (or on our client's site) we can organise courses for fire service in several languages.



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Emergency Service



Sanco has a 24-hours Emergency Service, 365 days per year.

A skilled team quickly provides warehouse availability, equipment & foaming agents, and information to deal with urgent situations.

The emergency number is the following:

Tel. : **+39 0321 807580**

Website: www.sanco-spa.it

"SANCO ensures an answer"



SANCO s.p.a.

Countries

ABU DHABI
ALGERIA
ANGOLA
ARGENTINA
AUSTRALIA
AUSTRIA
AZERBAIJAN
BAHRAIN
BANGLADESH
BELGIUM
BOLIVIA
BRAZIL
BRUNEI
BULGARIA
CAMEROON
CHILE
CHINA
CONGO
COSTA RICA
CROATIA
CUBA
CYPRUS
DUBAI
ECUADOR
EGYPT
EQUATORIAL GUINEA
FRANCE

FINLAND
GERMANY
GHANA
GREECE
CRETE ISLAND
HUNGARY
INDIA
INDONESIA
IRAN
IRAQ
IRELAND
ITALY
IVORY COAST
JAMAICA
JAPAN
JORDAN
KAZAKHSTAN
KENYA
KURDISTAN
KUWAIT
LATVIA
LEBANON
LIBYA
LITHUANIA
MADAGASCAR
MALAYSIA
MALTA

MAURITANIA
MEXICO
MOROCCO
MYANMAR
NIGERIA
NORWAY
OMAN
PAKISTAN
PERU '
PHILIPPINES
POLAND
PORTUGAL
QATAR
REPUBLIC OF
MOZAMBIQUE
ROMANIA
RUSSIA
SANTO DOMINGO
SAUDI ARABIA
SCOTLAND
SENEGAL
SHARJAH
SIERRA LEONE
SINGAPORE
SLOVAKIA
SOUTH AFRICA

SOUTH KOREA
SOUTH SUDAN
SOUTHERN IRAQ
SPAIN
SUDAN
SWITZERLAND
SYRIA
TCHAD
THAILAND
THE NETHERLANDS
TIMOR
TRINIDAD
TUNISIA
TURKEY
TURKMENISTAN
U.A.E.
U.K.
U.S.A.
UKRAINE
UZBEKISTAN
VENEZUELA
VIETNAM
VIRGIN ISLAND
YEMEN
ZAMBIA

Our Clients



SANCO s.p.A.

We look further.

Thanks for your attention

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