

e m a c o group

fire fighting division

The Company

E m a c o group is an organisation set up to provide total quality-driven fire, safety and security installations of the latest technology sensitive to the environment and human needs with. The wealth of ideas and experience enable us to undertake projects of every scale.

The right people and skills are fundamental to meet all the aspects of any project's challenge. Our holistic approach balances the social, technical, environmental and economic requirements of the project to exceed our client's expectations.

We believe that successful projects result from engaging the client throughout the process of the project, establishing a close relationship between him and our teams, during and after the project's completion. Shared aspirations and commitment guarantee success in every aspect of the project.

Our projects vary according to the opportunities presented by client and site. They reflect our philosophy to use modern technologies and materials, all handled professionally and to the client's particular requirements.

For the past few years, the company has been active in Libya and other North African countries, where we are now further developing our markets. E m a c o group's interest is, primarily, to carrying out the design, supply, installation, commissioning and servicing of fire and security systems, including electrical and mechanical design and installation works.

We do not just supply and install the equipment, we also engineer solutions, basically producing custom solutions to meet a client's specific needs and requirements, and we also provide an after sales service including support and regular maintenance of the equipment.

Furthermore, to satisfy the needs of our customers, E m a c o group has an ISO 9001 certification for its quality management system. On April 14, 2004, the company was awarded ISO 9001:2000 certification for the design, supply, installation and maintenance of Fire, Safety and Security Equipment. E m a c o group achieved this award after being assessed and registered as meeting the stringent ISO 9001 requirements by Bureau Veritas. We also have approvals by ABS Europe, DNV, Germanisher Lloyd's, RINA and Lloyds.

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The Fire Range of Products including:

- Conventional Fire Detection and Alarm Systems
- Addressable Fire Detection and Alarm Systems
- Aspirating Smoke Detection Systems
- Portable Extinguishers
- Fixed Extinguishing Systems, such as, FM200, Argonite, CO₂ and Aragon Systems
- Hose Reel/Hydrant Systems
- Automatic Water Sprinkler Systems
- Foam and Water Deluge systems
- Fire Smoke Stop Doors and Windows
- Fire & Emergency Exit support hardware
- Emergency Lights
- Emergency Escape Systems
- Fire Fighting & Safety Training at various levels

The Security Range of Products which is very extensive and includes:

- Intruder Alarm Systems
- Perimeter Security Alarm Systems
- Closed Circuit Surveillance TV Systems
- Card Access Control
- Car Park Management Equipment
- Hotel Electronics Key Card Systems
- Shatter Proof & Explosion Proof Equipment
- Security Doors & Roller Shutters

Personnel and Equipment Protection, including:

- Lightning Protection
- Surge Protection
- Non Slip Floor Treatments

All the above equipment and systems are fully supported by maintenance and continual staff training.

Company Manpower Support

Staff are the key strength of E m a c o group. The Senior Management Team has years of training and experience in the successful management of the

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company and a wide variety of major and demanding projects. The Engineering Team is responsible for all project design and is supported by the extensive expertise and research available within the major companies that E m a c o group represents.

The Installation Team also has years of experience and specialised personnel for sophisticated installations.

All this is supported by teams of maintenance technicians and engineers to secure equipment efficiency and reliability.

The present manpower complement is 104 including sub-contractors.

The company supports its installations with well-stocked stores and a maintenance workshop, which services the larger equipment required for fixed installations and also the smaller items, such as hand-held fire extinguishers.

Libya Branch

E m a c o group has had an operation in Libya for the past TWENTY FIVE years and registered a subsidiary company there in September 2004. Registering a domestic Libyan Company has opened new doors for the company. We have offices and workshops in Tripoli, and we have permanent staff of Libyans along with the Italian staff.

E m a c o group provides the same services in Libya as it does in Italy and E.U..

Contracts Division

E m a c o group is presently executing a fire-fighting project one of the largest civil construction project in Europe. We have been awarded the supply and installation contract for a Fire Detection and Fire Fighting System, including a Sprinkler System, at the new, 800-bed hospital in Paris. We have also been awarded the automation with CCTV & Access Control Systems.

Bus Ticketing

E m a c o group has the management capacity to plan, control and administer a wide range of specialist and very major projects. These have recently included:

- The supply, installation, commissioning and continuous maintenance of all the equipment and software for a state-of-the-art bus ticketing system. This project has included all the “on-board” equipment and stand-alone vending machines for the sale of tickets and contact cards. The entire

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system is now very successfully installed and is giving benefits to both the client and the public.

- The establishment of a Facilities Management Service covering some 15 areas of activity for a major client which is delivering significant operational improvements and substantial financial benefits.

A number of other major projects are at the final planning stages all of which, when implemented, will deliver important service and cost benefits for E m a c o group's clients and the public in general.

Handling of Hazardous Waste

E m a c o group has established a method to dismantle, handle and remove hazardous wastes. This includes, the destruction of the hazardous waste in compliance with E.U. regulations. E m a c o group has all the necessary approvals from the competent authorities in the EU.

Projects undertaken include the removal of hazardous materials from schools, hospitals, public buildings, ships, power stations and accommodation facilities. This work has been carried out both in E.U. and overseas.

Marine Division

E m a c o group is a leader in the local maritime sector to service and approve the certification for the CO2 total flooding systems, water fire hydrant systems, water mist systems, foam systems, all types of portable extinguishers, self-contained breathing apparatus devices (SCBA), emergency escape breathing apparatus/devices (EEBA/D), analyses of breathing compressed air and detection systems.

We are fully equipped to serve the offshore industry with a team of service engineers and technical staff who are certified and approved by the classification societies mentioned hereunder.

Our company has attained approvals to carry out maintenance works on board vessels by DNV, BV, RINA, GL, Lloyds and ABS and advocates strict adherence to Safety of Life at Sea (SOLAS). Personnel are trained in all aspects of shipboard safety and compliance.

As a Class Approved service company, we can, upon completion of the service, issue valid Certificates of Inspection, ensuring that an owner's vessel always sails on time. Standardised procedures, quality workmanship and strict

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compliance with all rules and regulations ensures that shipowners always receive the very best service.

Projects Division – E m a c o group was involved in the consortium of the Viareggio Waterfront Project. This project is a commercial undertaking, involving:-

- The development of a commercial area
- The construction of a Yacht Marina
- Construction of a modern residential luxury apartments

Just over a hundred luxury apartments have been designed & built to the highest specifications, making them blend in well with the distinguished calibre of the Viareggio Waterfront Project.

The Grand Harbour Marina provides the standard of facilities and services expected from Camper & Nicholsons. The management and operation of the marina has now been passed into the hands of Grand Harbor Marina Ltd, in association with leading international operator of marinas and related facilities, Camper & Nicholsons Marinas Ltd.

The marina has about 35 berths in the size range 20 - 25m (66 - 82 feet), about 14 berths of 26 - 35m (85 - 115 feet), and about 20 berths of 50 - 85m (164 - 279 feet). This means that Grand Harbour Marina is one of the largest, Big Boat marinas in the World.

List of Activities

Fire related Systems

Fire detection

1. Conventional
2. Addressable
3. Aspirated

Gaseous Fire Suppression

1. Argonite
2. FM200
3. Novotec 1230
and Others

Water Based Fire Suppression

1. Hose Reels
2. Water Mist

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3. Sprinklers
4. Dry Risers

Foam Baled Fire Suppression

1. High Expansion & Medium Expansion Foam
2. Foam Base Injection
3. Foam Purses (Rim Ceil Systems)

Fire Fighting & Cooling Systems

1. Ring Mains
2. Fixed & Oscillating Monitors
3. Hydrants

Compartmentation

1. Fire doors, Windows & Partitions
2. Fire Roller Shutters & High Speed Shutters
3. Maintained & Non-maintained Emergency Lights
4. Emergency Exit Doors & Hardware (Panic Bars, Magnetic Locks, etc.)
5. Signage

Security Related Equipment

Surveillance Equipment

1. Intruder Alarm (Including Perimeter)
2. Analogue & Digital Closed Circuit Camera Systems
3. Access Control Systems (Arabic Language Supporting Systems)
4. Time & Attendance Systems
5. Asset Control Systems
6. Car Park Managements Systems (Barriers, Street Blocks, etc.)
7. Security Patrol Systems
8. X ray Equipmen

Safety Equipment

1. Lightening Protection
2. Earthing Systems
3. Surge Protection System

To the above there are other related equipment and services that we provide, such as **Maintenance** to Fire & Security Systems and Fire Extinguishers & Gas System Cylinders.