



History:

Castle Engineering Industries has been established in Abu Rawash Industrial Zone, Giza, Egypt with a specialization in HVAC systems. With over two decades of professional management, the Castle team has utilized its extensive experience to provide exceptional operational expertise to the Egyptian market. Collaborative agreements with prominent contractors have facilitated Castle in supplying ductworks and accessories like flexible duct connectors, air outlets, dampers, sound attenuators, variable air volume systems, fan coils, garbage chutes, and cable tray systems for some of Egypt's most significant projects, all executed with precision. Over time, Castle has consistently met market demands and gained widespread recognition.

Castle Is an ISO(IGC) Certified Company (ISO 9001:2015, ISO 14001:2015 & OHSAS 18001:2007) following the HS&E Regulations, implementing its own Policies.

Castle production has been approved by IGC (Institute of Global Certification), as well as by the major International Consultants, since its method of manufacturing complies with the International Standards, such as SMACNA and DW144, with their latest versions, since its production line meets its Standards & Regulations.

Castle proudly gathers the most expertise and highly motivated staff; it currently consists of One Hundred professional employees, skilled manpower; and yet is consistently seeking to grow its family, concurrently retaining the same level of performance and professionalism.

Our Mission:

As the premier manufacturer of HVAC systems in Egypt, our mission is to consistently improve our production capacity to manage the most extensive ongoing and upcoming projects in the country. We are committed to providing outstanding services and promptly achieving the highest quality fabrication, exceeding customer expectations to ensure successful project completion within deadlines.

Our Vision:

Our distinct future vision is based on our teamwork goals and the target that we are focusing on to become the Number 1 Manufacturer within the few coming years, we intend to expand our Products Range that are all Made in Egypt the Industrial Sector with the most competitive quality, price and execution.

Values:

1- Integrity

To have a work ethic, honesty and transparency.

2- Meet customers requirements

Offer the customer a product at the lowest cost and highest quality.

Provide the customer with fast and accurate engineering solutions.

3- Responsibility and commitment

Commitment to delivery dates agreed with customers.

Make sure you achieve the principle of equality and promote values of humility and respect for others.

4- Innovation

Continuous work to develop and improve the quality of products and the adoption of international standards.

Work on inventing manufacturing methods that save time and effort on the human factor as it saves on the consumption of raw materials

Our Factory:

A mass area consisting of an Office Building, a Workshop occupying an Large Area, equipped with the most Advanced, Sophisticated and Computerized Machines, a large Warehouse for the storage of the fabricated products. The latest Technology of CNC machines utilized in Castle Factory, increases the Speed and the Capacity of Production, which makes Castle distinctive and superior.



Products:

Duct Works:

- Galvanized Steel Ducts

Rectangular Ducts
Spiral Round Ducts
Longitudinal Seam Round Ducts

- Black Steel Welded Ducts

Rectangular Flanged Ducts
Round Flanged Ducts

- Stainless Steel Ducts

(Longitudinal Seam or Argon Welded)
Rectangular SS Ducts
Round SS Ducts

- Aluminum Jacketing

• **Humidification, Exhaust and transferring Duct for Textile Factories:**

- Humidification rectangular duct

Main duct and fittings
Duct accessories

- Round exhaust and transferring

Main duct and fittings
Duct accessories

- Floor air slots

Lower piece
Upper piece (slot)

• **Volume Control Dampers:**

A volume control damper is a device in HVAC systems regulating airflow. It consists of movable blades within ducts, adjusting to control air volume. By opening or closing, it manages air entering or leaving spaces, maintaining desired temperatures and air quality. Dampers can be operated manually or automated, ensuring precise airflow regulation for efficient HVAC performance.



• Inertia Damper:

item	model	material		application
		frame	blade	
Pressure Relief Damper	CID-PR	GI AL SS	GI AL SS	Air Intake & Exhaust Stairwell pressurization In-duct ventilation
Counter balance Damper	CID-CB	GI AL SS	GI AL SS	Fume exhaust Gravity hood intake and exhaust Room pressurization
Back Draft Damper	CID-BD	GI AL SS	GI AL SS	Blower outlets Branch duct isolation Emergency generator radiator outlets



• Fire & Smoke Damper:

A Fire & Smoke Damper is crucial in HVAC systems, closing automatically in a fire to prevent smoke and flames from spreading through ducts. They aid in containing fire outbreaks, safeguarding occupants and property by delaying its spread and allowing for safe evacuation.

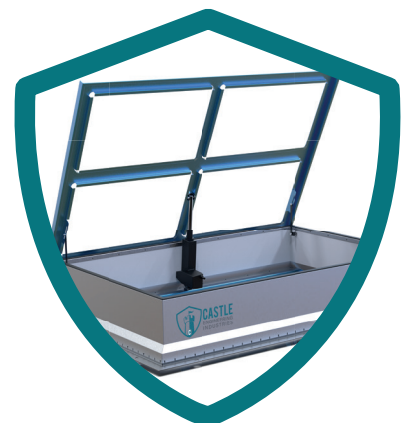


• Explosion proof Back Draft Damper:

An Explosion-proof Back Draft Damper is a safety device installed in ductwork to prevent the backflow of air and potential propagation of explosions, minimizing risks in hazardous environments.

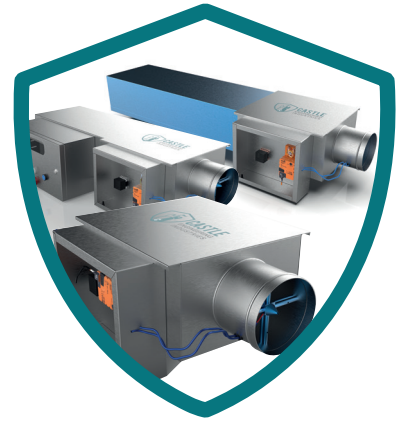
• Smoke Vent:

A smoke vent, also known as a smoke exhaust or smoke control system, is designed to remove smoke and heat from a building in the event of a fire. It typically consists of vents or openings strategically placed in the building's structure to allow smoke to escape, helping to improve visibility for occupants and aiding in their safe evacuation.



• Variable Air Volume:

Variable Air Volume (VAV) refers to a HVAC system that adjusts the volume of conditioned air delivered to different areas of a building based on heating and cooling needs. It employs variable airflow rates to maintain comfortable temperatures efficiently, often controlled by dampers and fan speeds.



• Fan Coil:

Fan coil units are available in ten sizes with airflow capacity ranging from 110 to 2700 m³/h. The ceiling concealed unit is suitable for external static pressures of up to 60 Pa.



• Cable Tray Systems:

Cable tray systems are support structures for organizing and protecting electrical cables, available in various types like Tray, Trunk, and Ladder.

- Cable trays are open-bottomed structures, offering easy access for cable laying and maintenance.
- Trunking provides solid enclosure for cables, ensuring higher levels of protection.
- Ladder racks consist of rails with crossbars, facilitating overhead cable routing.



• Garbage Chute System:

garbage chute system is a long vertical space passing by each floor in a building. It includes a door on each floor where residents can dispose of their garbage into the chute. This door is usually contained in a small room on each floor. Garbage placed in the chute drops to a compactor or dumpster at the bottom.



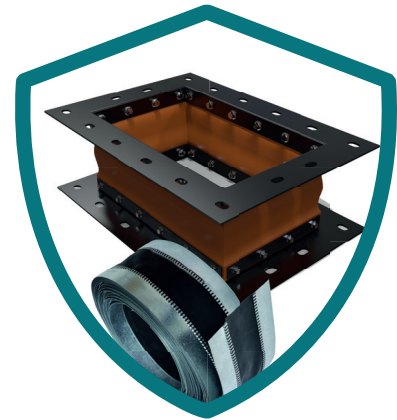
• Fire Cabins:

Fire cabins, also known as fire shelters or fire lookout towers, are structures positioned in wildfire-prone areas. They provide refuge for firefighters during emergencies, offering protection from heat, smoke, and flames. Equipped with safety features, they serve as temporary bases for firefighting operations in remote locations.



• Flexible Duct Connector:

- Silicon Coated Temperature range -30°C to $+250^{\circ}\text{C}$
- Silicon Coated Temperature range -30°C to $+180^{\circ}\text{C}$
- PVC Coated range -30°C to $+80^{\circ}\text{C}$
- All Dimensions are available.



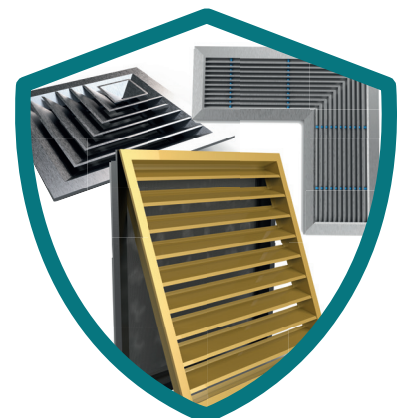
• Access Doors:

- The Insulated Access Door has been designed to create an airtight seal utilizing a moisture, oil and grease resistant neoprene gasket between the door to frame and the frame to duct.



• Air Outlets:

Air outlets are essential components of HVAC systems designed to distribute conditioned air efficiently throughout indoor spaces. They come in various types, including diffusers, grilles, registers, and vents, each serving specific functions and aesthetic preferences. These outlets are strategically placed within buildings to ensure uniform airflow, minimize temperature differentials, and maintain desired comfort levels for occupants. Properly selected and positioned air outlets contribute to optimal air distribution, enhancing indoor air quality and overall HVAC system performance.



SOME OF OUR REFERENCE PROJECTS:

Our company currently contributes to many national Mega projects implemented by the largest Egyptian contracting companies and supervised by major consulting offices in Egypt and the Arab world.

• Ministries Buildings at New Administration Capital:

- Ministry of Antiquities
- Ministry of Military Production
- Ministry of Education
- Ministry of Petroleum & Mineral Resources
- Ministry of Communications and Information Technology
- Ministry of Culture
- Ministry of Water Resources and Irrigation
- Ministry of Civil Aviation
- Ministry of Electricity and Renewable Energy



• National Training Academy – NTA:

National Training Academy in Zayed City.

Main Contractor: Arab Organization for Industrialization

Consultant: SUBBOUR



• Administrative Control Authority:

Administrative Control Authority in New Administration Capital.

Main Contractor: Concord for Engineering and Contracting

Consultant: ECG



• Arab Investment Bank:

Arab Investment Bank in New Administration Capital

Main Contractor: El Soadaa Group

Consultant: EHAF



• Housing & Development:

Housing & Development Bank in New Administration Capital

Main Contractor: ORASCOM

Consultant: ORASCOM



Housing & Development Bank
 بنك التعمير والإسكان

• MIVIDA:

MIVIDA New Cairo

Main Contractor: ASGC

Consultant: RMC


• Military Entity:

Leaders Hospital (El Kada) Saff Officer Hospital

MEP Contractor: MiraTeck

Consultant: Allied Consultants Ltd


• SAUDI MARKET (New Alameen):

SAUDI MARKET Almassa Hotel

MEP Contractor: Al Fath

Consultant: KAM Consultant Engineer


• Renewal of the National Cancer Institute:

Renewal and Development of the National Cancer Institute on Kornish Al Nile, Cairo

MEP Contractor: EMCO

Consultant: Cairo University

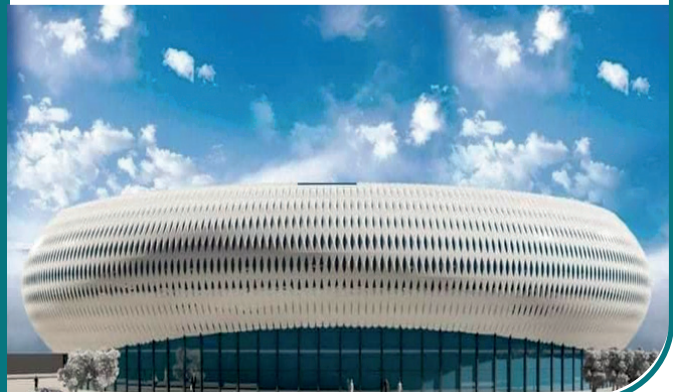

• Egypt City for the Olympic Games Sports Halls:

Main Contractors:

- RME (Rowad Modern Engineering)
- GAMA
- ORASCOM

Consultants:

- SUBBOUR
- MEGC (ENGINEERING CONSULTANT GROUP)
- Cosmos Engineers and Consultants



• **Madinaty:**

Crafts Zone & B10 Administration Zone

Main Contractors: Alex Construction

Consultants: DAR AL-HANDASSA & Space



• **Suiz Medical Complex:**

Clinics building Hospital Building

Main Contractors: Al-Marasem International

Consultants: ECG



• **Central Park (New Administration Capital) All administration Buildings:**

Main Contractors: Al-Marasem International

Consultants: DAR AL-HANDASSA



• **ZED Towers (EL-Sheikh Zayed):**

Towers Ventilation

Main Contractors:

- Rowad RME (Rowad Modern Engineering)

- Redcon

- ORASCOM

Consultants: ECG



• **New Alamein Towers:**

Towers Ventilation and Conditioning

Main Contractors: SIAC

Consultants: ECG



• **R5 - New Administration Capital:**

Buildings Ventilation

Main Contractors:

- ASGC

- RME

- AL-MARSEM

- ORASCOM

Consultants: ECG



• CBD New administration Capital:

Towers Ventilation and Conditioning

Main Contractors:

- CSCES

Consultants: DAR AL-Handasa



• LRT 10th Of Ramadan Railway:

Stations Ventilation and Conditioning

Main Contractors:

- CREC & AVIC JV

Consultants: Khatib & Alami



• Bashtel Railway Station:

Ventilation and Conditioning

Main Contractors:

- Hassan Allam

Consultants: Diao Consulting



Project: El-Dabaa Nuclear Power Plant

Contractor: Hassan Allam Constructure

Consultant: Rusatom



Project: Alamein Down Town Towers

Contractor: CSCEC

Consultant: Dar Al-Handasa



Project: المدينة الثقافية

Contractor: Orascom

Consultant: ECG



Project: Latin District In New Alamein City

Contractor: Gama, Red Sea, Redcon

Consultant: ECG



Project: Greater Cairo Metro Line 3

Contractor: Arab Contractor

Consultant: National Authority For Tunnels & Systra



Project: Greater Cairo Metro Line 3

Contractor: Colas Rail

Consultant: National Authority For Tunnels & Systra



Project: Egypt Japanese University Of Science & Technology

Contractor: SIAC, Dar AL Alamia, Al-Shorouk Construction

Consultant:



Project: Mangrove Hotel

Contractor: Solera

Consultant: Shaker



Project: Badya University

Contractor: Emco Tech

Consultant: Julius Berger



Project: الاسكان الاستثماري

Contractor: السلام للمقاولات

Consultant: الهيئة الهندسية للقوات المسلحة



Project: Military Academies,
New Administrative
Capital, Egypt

Contractor: SIAC ,Arab Contractor
Argynza, ICS , TCC
EL-Mohamadya

Consultant: Dar Al-Handasa



Project: Knowledge City - New
Capital

Contractor: RED SEA ,ICS
El Soadaa Group
Archirodon Construction

Consultant: ECG



Project: السوق التجاري والحضاري بالمنهل
بحى شرق مدينة نصر

Contractor: المؤسسة الهندسية للأعمال المدنية
(ايكو)

Consultant: مجموعة التصميمات المتكامله
(جايد)



SOME OF CASTLE SUCCESS PARTNERS:



Some of the Consultants Accredited by Them:





CASTLE
ENGINEERING
INDUSTRIES

Contact Us:

 28km, Alex-Cairo Desert Road, Abu
Rawash Industrial Zone, Giza, Egypt.

 sales@castle-ei.com

 +202 353 94394

 +20 1288012995

+20 1281217517

+20 1273637171

Contact



Location

