



DAREX
ENGINEERING
LIMITED

CONTRACTING | DESIGN | ENGINEERING | MAINTENANCE

ABOUT US

A highly professional
organisation with
wealth of experience



DAREX ENGINEERING LIMITED

Darex Engineering Limited is an emerging Electro-Mechanical services company in Nigeria and was incorporated in 2017. The promoters have over 10 years of professional experience in the industry. Darex Engineering specializes in the building services and the industrial infrastructure solution business, is engaged in the design, development, supply, installation, servicing and support in Mechanical, Electrical and Plumbing services. A building infrastructural solutions provider, dedicated to the provision of all Residential, Commercial and Industrial infrastructures that add value, luxury, comfort and security to lives.

Darex Engineering also operates within the sphere of design consulting services and the Extended Enterprise Concept, which integrates our core competencies with those of our strategic alliance partners, better positioning us to provide a much wider range of new, innovative products, services and adequate after sales services and warranty fulfillment obligations.

Darex Engineering is equipped with a team of seasoned professionals in various fields of expertise of our business scope. The experience and expertise of our staff range from design, execution and management of projects from the on-set to commissioning stage.



Goals

Vision



To be the most preferred engineering services provider in Nigeria.

Mission



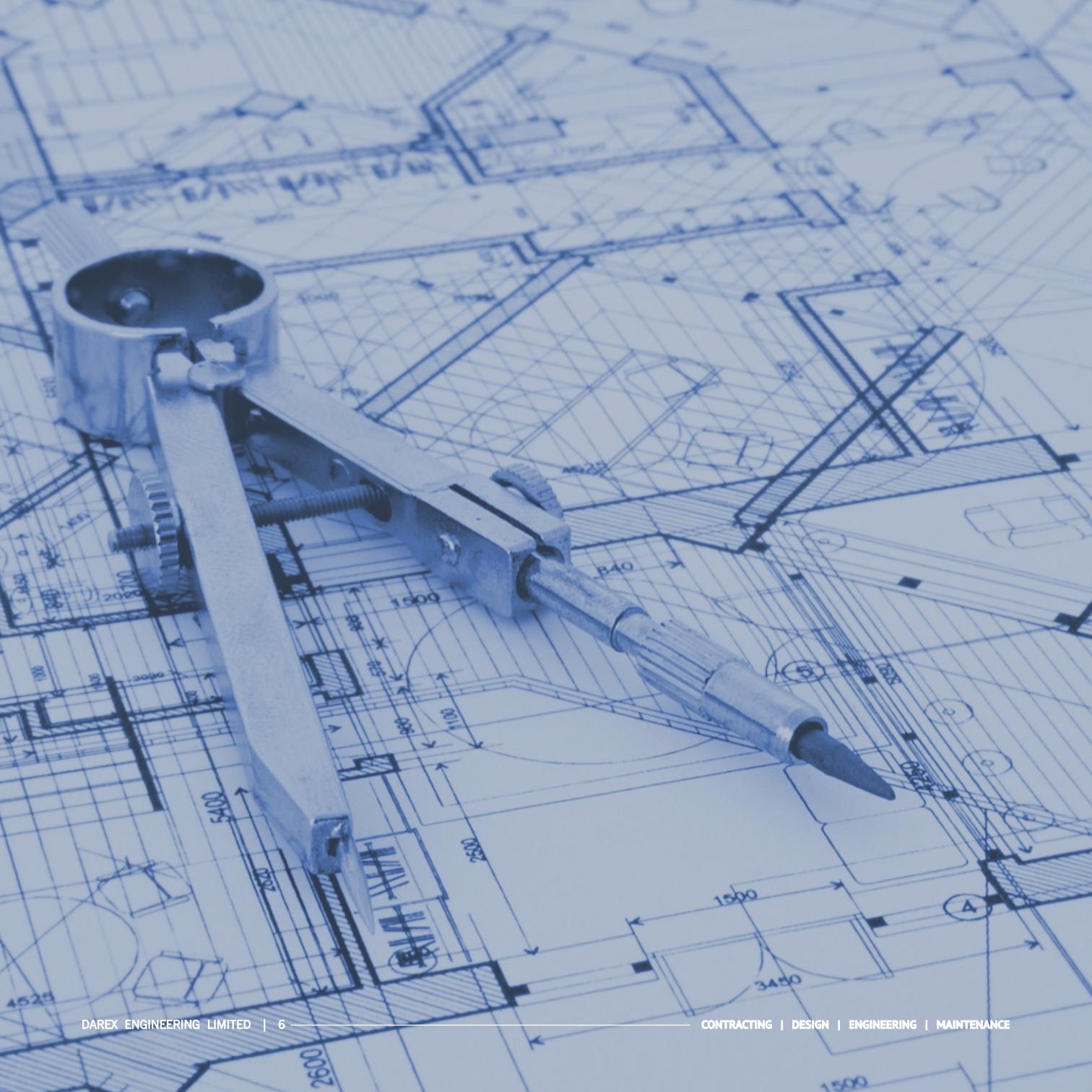
- To be excellent in all our deliverables
- To surpass our clients' expectation with the state-of-the-art technologies.

Corporate Values



People
Service
Integrity
Excellence

Scope of work



MECHANICAL

AIR CONDITIONING AND VENTILATION:

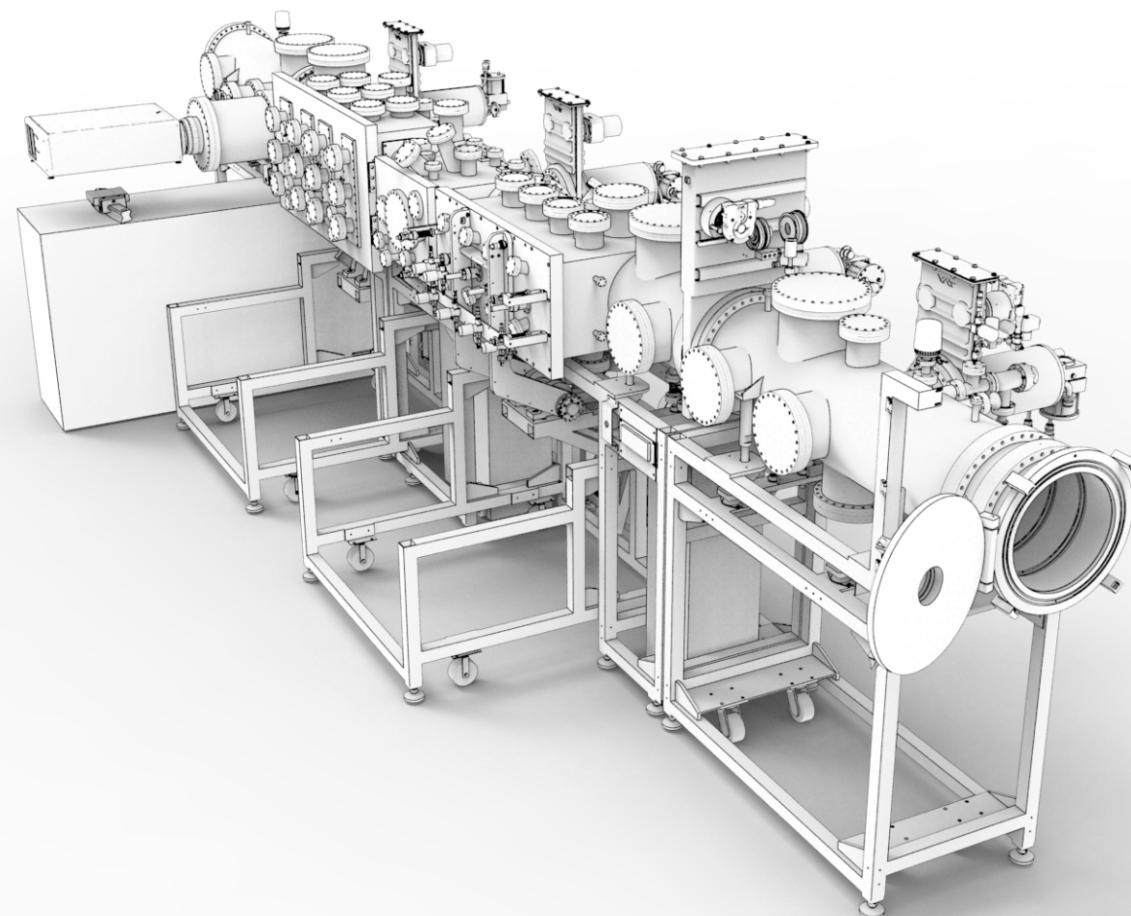
- Variable Air Volume and Chilled water central cooling systems
- VRF, VRV and Regular Air conditioning unit
- Precision air cooling (PAC) systems
- Ventilation duct work (Rigid and Flexible)

INDUSTRIAL & COMMERCIAL REFRIGERATION:

- Cold rooms and Refrigerated stores
- Industrial Process Cooling
- Farm produce cooling stores
- Meat and poultry
- Dairy Industry
- Chemical Industry
- Fish processing & Fishery
- Beverages & Breweries
- Ice rinks
- Marine & Naval
- Oil & Gas Refrigeration systems

FIRE-FIGHTING AND PLUMBING:

- Gaseous extinguishing media (FM-200 and Co2)
- Sprinklers and hydrant system
- Building reticulation and industrial plumbing system



Variable Air Volume and Chilled Water Central Cooling Systems

Darex Engineering has bagged long years of experience in the installation of Variable Air Volume and Chilled water Central cooling systems such as Air-Cooled Chillers, Water-Cooled Chillers as comfort cooling for offices and commercial purposes with the State-Of-the-Art technology. The central cooling system types of this category also use a variety of different Fan Coil Units such as Concealed ducted unit, District cooling Unit, Large AHU ducted Unit, High Static pressure duct, Fresh Air Processing Unit, High walls, Console, Cassette Unit, etc.



Chilled water pipelines



Chilled water systems



Water-cooled chiller



Air-cooled chiller



Air Handling Unit (AHU)/Fan Coil Unit (FCU)



VRF, VRV and Regular Air Conditioning Systems

This category includes fairly large to small Air conditioning systems with refrigerant working fluid (gas) such as Direct Expansion systems, Variable Refrigerant Flow systems (VRF), or Variable Refrigerant Volume (VRV), and regular Air conditioning systems such as Split High wall units, Window unit, Ceiling Cassette, Ceiling concealed etc. Darex's track record of performance and experience also cut across varieties of these Air conditioning systems with State-of-the-art technology by our well-seasoned technical staff.

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Regular split unit



Large direct expansion unit (DX)



Variable refrigerants flow system



Packaged rooftop unit

Precision Air cooling (PAC) systems

Darex Engineering is an expert in the handling of design/estimation, equipment selection, supply and installation of the Data Centre Cooling which ranges from in-rack to on-rack systems according to the requirement and suitability of the space. A Close Control Unit (CCU) is designed for applications where humidity/climate control, high precision air conditioning is essential, including data centre cooling, medium and low density server environments, telecom switching stations, medical operating theatres and clean room environments. Sophisticated Precision Close Control Units in different categories with the latest technology are available for your patronage. There are different type of Precision Air Cooling such as Bottom, Front and upward discharge of cooling according to the space requirement and the layout of the Data centre as there are single and double doors according to the cooling capacity required.

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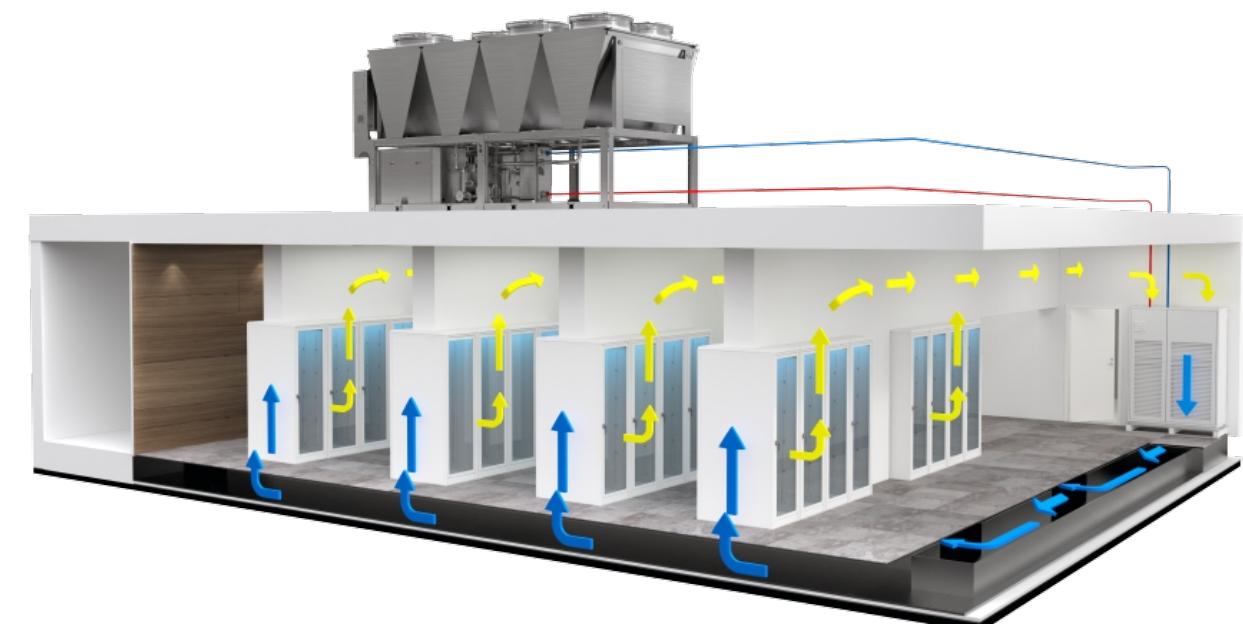


In-rack cooling

On-rack cooling

Smart cooling with
inverter compressor

Free cooling



Typical Data centre layout

Cold Room and Refrigeration Stores

Darex Engineering has tremendous skills in design, engineering, supply, installation and commissioning of both industrial and commercial refrigeration plants and systems in different categories and sizes. Darex Engineering has supports from one of the world's largest and most technically advanced suppliers in the industry. Dare's skills also include the design and installation of Cold storages and refrigerated stores which are suitable for both fresh and dried goods with the sophisticated technology including the remote monitoring. There are different sizes and type of cold rooms based on the client requirement. We can build your cold rooms into 20ft or 40ft container like we have done in our previous projects, we also build into a block walls according to the client choice. Our equipment is capable of providing you with these services.

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MEAT & POULTRY

- Slaughterhouses
- Meat storage



DAIRY INDUSTRY

- Dairy & milk factories
- Cheese factories



CHEMICAL INDUSTRY

- Chemical / Petrochemical
- Pharmaceutical



FISH PROCESSING & FISHERY



BEVERAGE & BREWERIES

- Fruit juices
- Soft drinks



COLD STORES

- Chilled storage
- Frozen storage



ICE RINKS

- Snow domes
- Ice skating rinks



FRESH FRUITS & VEGETABLES

Commercial Refrigeration – Cold storages



Dried seed cold room in a 40ft container



Fresh Goods in a Cold store



Interior view of a multi-purpose cold room

Industrial Refrigeration – Typical Process plant equipment

Types of Compressors



Reciprocating compressors

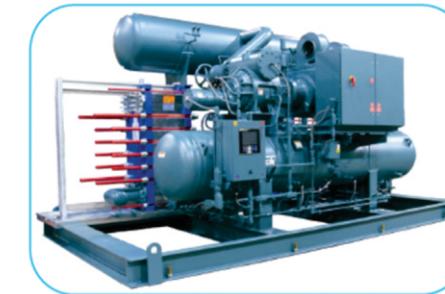


Screw compressors



Multistage centrifugal compressors

Screw & Reciprocating Based Ammonia Chillers



Screw Chiller 200 to 6000 kW



Recip Chiller 100 to 1400 kW - PAC



Heat pump packages



Recip Chiller 100 to 1400 kW - CHILL PAC

Industrial Chemical and Process Cooling



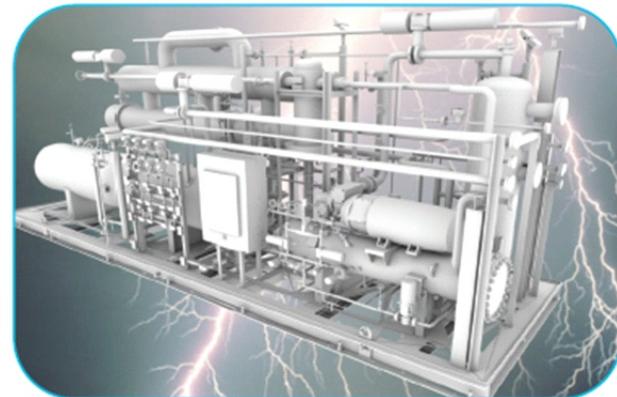
Screw compressor drive line



Multistage centrifugal drive line

Cascade Refrigeration Plant NH₃ / CO₂

R744 (CO₂) systems will be considered in refrigeration plants with evaporating temperature below -35°C and large size cooling capacity.



All categories of Industrial Controllers

Product Line

- Unisab III controller for recips, Screw Compressors and Chillers
- VSD panel, SABflex VSD panel
- Softstarter FSD panel, Y/D starter FSD panel
- Chiller plant controller
- CP Optimiser
- ISAC/SAB Key SCADA packages
- iRIS, Remote monitoring services concepts
- Air purger, etc.

Fully customised solution



VSD screw compressor 'SABflex'



Screw compressor



VSD reciprocating compressor



Customised chiller, screw



Standard NH₃ chiller, recip



Chiller

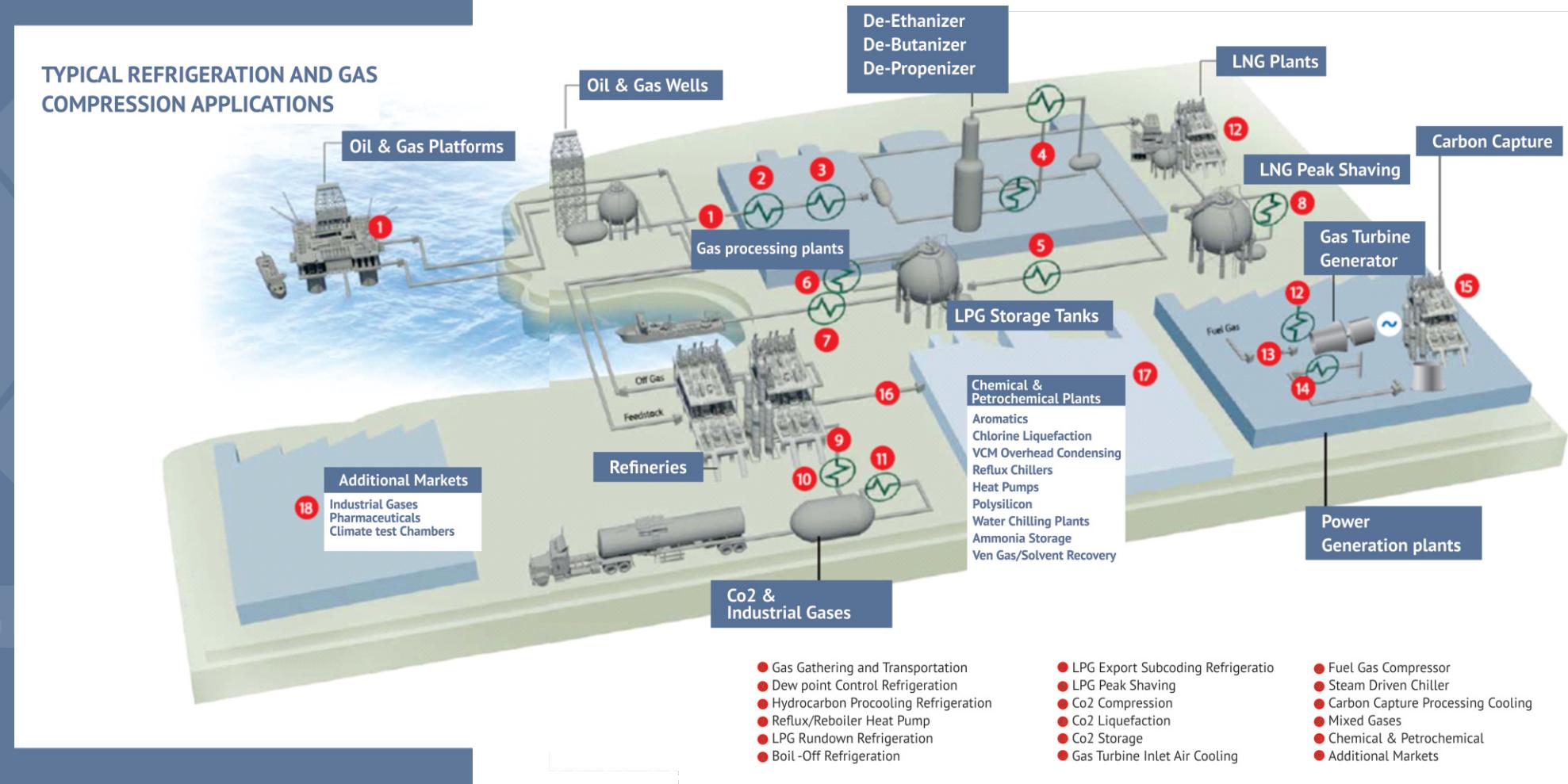


Heat pump



Oil and Gas Refrigeration System

Darex Engineering has a strong back bone with York Process Systems that meets your demands; this equipment brand has a well proven track record of major installations worldwide, numbering more than 10,000 customized refrigeration and gas compression systems currently in operation. Every installation has been designed to meet rigorous customer specifications and application needs, with many exceeding 30 years of continuous reliable service. Darex is aware of your needs for critical applications in the process plants, York equipment emerges as one of the global leaders with high operational reliability and efficiency criteria, it is also durable and complies with all the world's major recognized codes, including ASME, API, TEMA, ANSI, European Pressure Equipment Directive (PED), DIN, and electrical regulations that include DIN, EN, NEMA, IEC and ATEX



Fire - Fighting Systems

Darex Engineering has sufficient experience to handle all categories of firefighting systems, ranging from gaseous extinguishing media, sprinklers as well as fire hydrant system. We are experienced in the handling of different sizes of building structures and applications such as residential, commercial in high rises, estates, shopping malls etc. Our technical competence has given us an edge over our competitors in rendering services in this aspect. Darex Engineering also has a good track record in plumbing services for various applications in the industry. Our skills cut across all areas starting from planning, design, execution and commissioning of a given project.



ELECTRICAL

POWER AND LIGHTING:

- Internal and external power supply:
- Electrical power distribution systems
- Industrial and commercial high voltage power installations
- Electrification
- Transmission and distribution power stations
- Rural Electrification
- Power generation

EXTRA-LOW-VOLTAGE SYSTEMS:

- Closed Circuit Television; CCTV (Analogue and Digital; ip type)
- Access control; Biometrics, Time Attendant, Video Entry etc.
- Fire Detection & Alarm with options in Voice Alarm & Public Address (Fire station extension - optional)
- Intruder Alarm (Police station extension - optional)
- Home Automation
- Building Management Systems (BMS)/Building Automation System
- Systems Control Room (SCR)

TELECOMMUNICATION INFRASTRUCTURES :

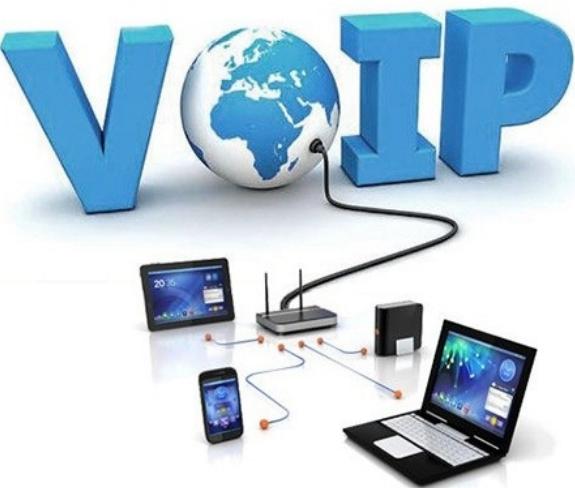
- Erection of network antenna/mast
- Industrial communication cabling i.e. Fibre optics cable, Twisted pair
- Industrial networking, Voice-Over-IP, Video conferencing, etc.



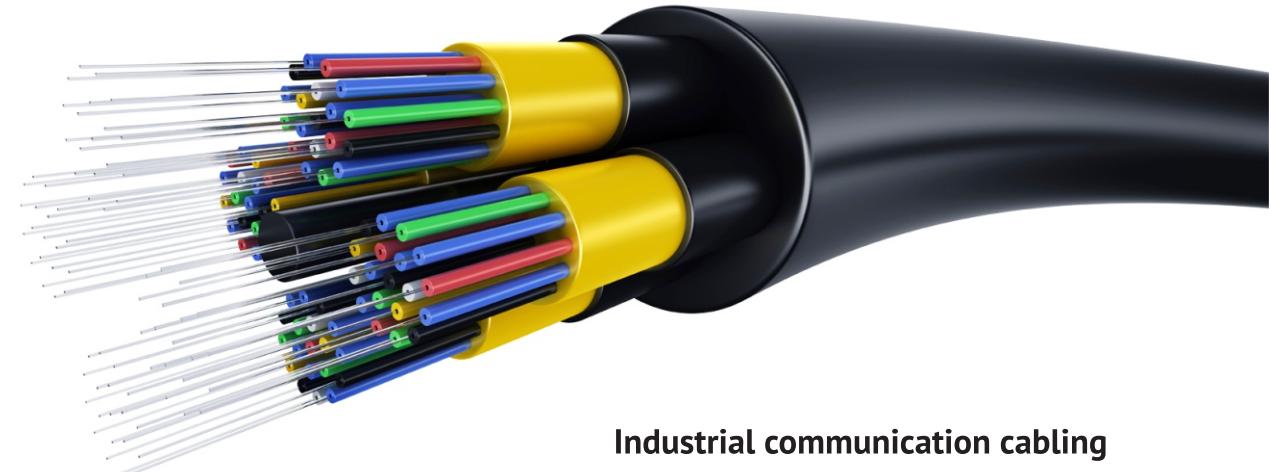
Electrical Services

Darex Engineering has many years of experience in electrical services, our scope includes but not limited to installation and commissioning of electrical systems. We also have sufficient expertise skills in the generation and distribution of electrical power ranging from High Voltage (HV), Medium Voltage (MV) and Low Voltage power (LV). Darex also handles other services which include electrification for residential, commercial and industrial size of infrastructures, street lightings, as well as the category of Extra-Low-Voltage systems.

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Industrial networking, Voice-Over-IP,
Video conferencing, etc.



Industrial communication cabling
i.e. Fibre optics cable, Twisted pair



**Telecommunications
Control Room**



**Industrial and commercial
high voltage power
installations**



**Electrical power
distribution systems**



Electrification



**Transmission and distribution
power stations**



**Access control; Biometrics,
Time Attendant, Video Entry etc.**

Home Automation Systems

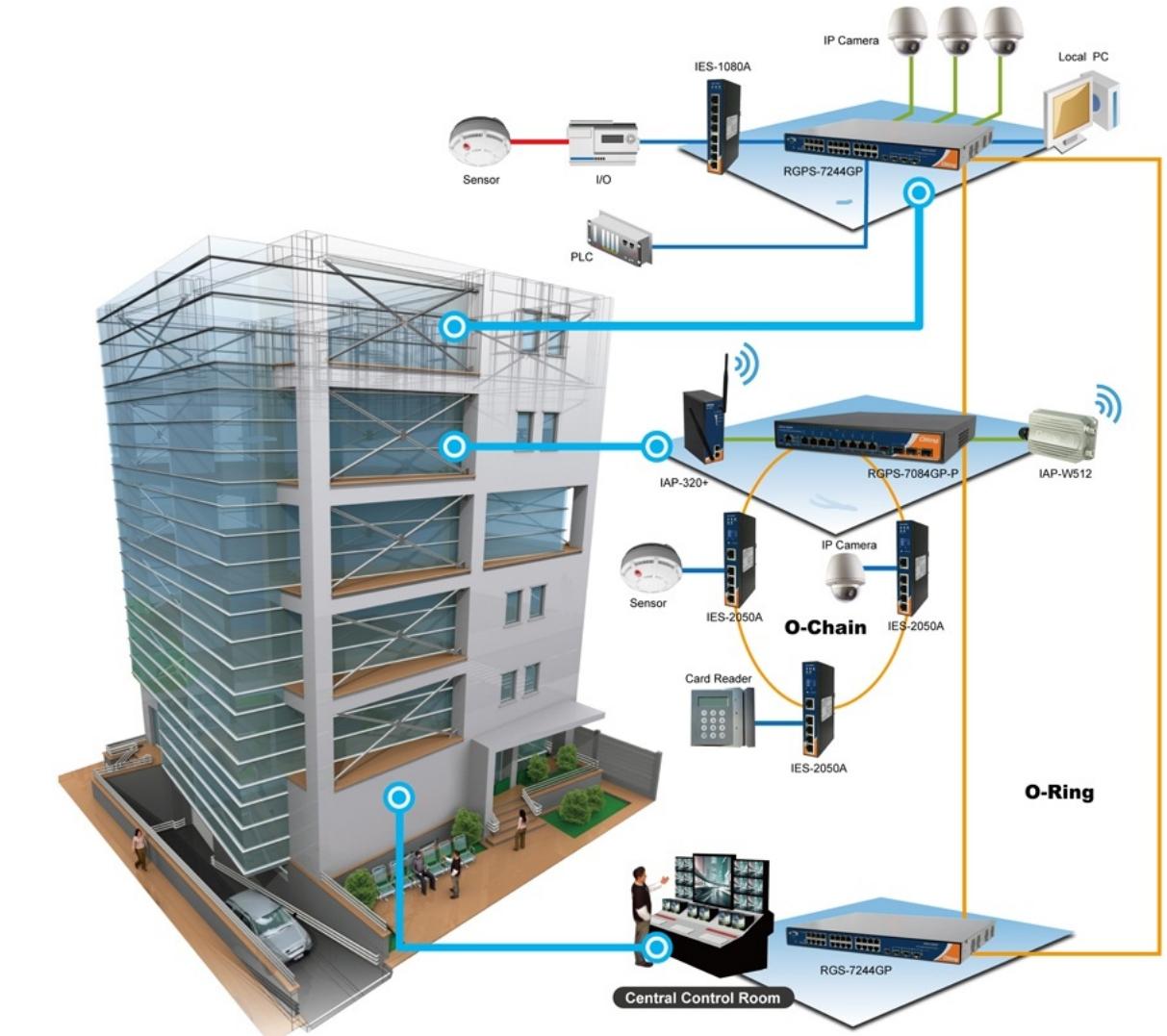
Darex Engineering offers an ultimate home automation solution by making your systems you already have in place and in use every day, work together as a single unit from the comfort of your mobile phone and tablets. By integrating everything from lighting control, music, home theater, climate (Air Conditioners) control, security—even iPads, iPhones and Android smartphones and tablets—a smart house by Auto-home creates personalized experiences that enhance your life and provide added comfort, savings, convenience, and peace of mind.



Building Management Systems (BMS)

Darex Engineering also offers an ultimate Building Management Systems in partnership with reputable brands worldwide. It is otherwise called Building Automation Systems with the state-of-the-art technology. We design and deliver it with other systems based on the choice of the clients.

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Electronic Access Control Systems

In Darex Engineering, we have sufficient resources to handle of supplies and installation of a wide range of Access Control systems, from basic systems for small business offices with few doors, to more intricate systems handling several thousands of users across several locations and entry points, to monitor time and attendance, determine and assign specific access levels to individual users, organize roll calls, track and print event reports, define public holidays thus restricting access on such days to essential staff and executives with the required security clearance for entry, and several other options. We also offer high-end Access Control Systems with Biometric verification (fingerprint, voice recognition or retinal scan), which are suitable for use in enhanced security environments, and depending on a client's requirements, all our systems can capture and store digital images and data specific to each individual user, easily used to produce on-site, high quality, full colour photo ID cards using the integrated card designer package



Closed Circuit Television (CCTV) Systems

Darex Engineering has well-grounded skills in the supplies, designs and execution of CCTV systems for various applications, such as residential buildings & estates, commercial banks & branches, manufacturing factories, airports, campuses, offshore oil producing platforms etc. At Darex, our design approach analysis focuses on the security situation and risk/threat levels, then critically consider crucial factors such as view angles, ambient lighting, image detail required, preferred storage media etc., all of which we carefully considered in the design of the most efficient and cost effective solution to our prospective client.



Fire Detection & Alarm Systems

In Darex Engineering, Assessment, Threat Prevention & Management of Fire Response Plan and Procedures Development & Training are up to date in our skill sets. At Darex, we do supplies and installation of Fire Detection and Alarm Systems, which fall into two major categories – Conventional Systems or Analogue Addressable Systems with either the option of Life or Properties protection or both according to the British Standard (BS). Conventional Systems are well proven means of fire/ smoke detection and alarm, which are often the natural choice for smaller premises due to their simplicity of design, installation and more importantly its affordability. Analogue Addressable Systems however have more flexibility, intelligence, speed of identification of location of a fire threat and scope of control; this is usually proposed for a very big or complex area such as high rise buildings, residential estates, shopping malls, airports, campuses, etc.



Intruder Alarm Systems

Darex Engineering has in depth knowledge of different kind of solutions that help you have an effective guard and response from intelligent systems that watches the same way you would on your behalf...especially when you are not available. The Intruder Alarm system can be wireless or wired depending on the type of building structures on ground or client's want. Our solutions also have options in automatic alert to SOS or nearby police station and the integration with CCTV systems.

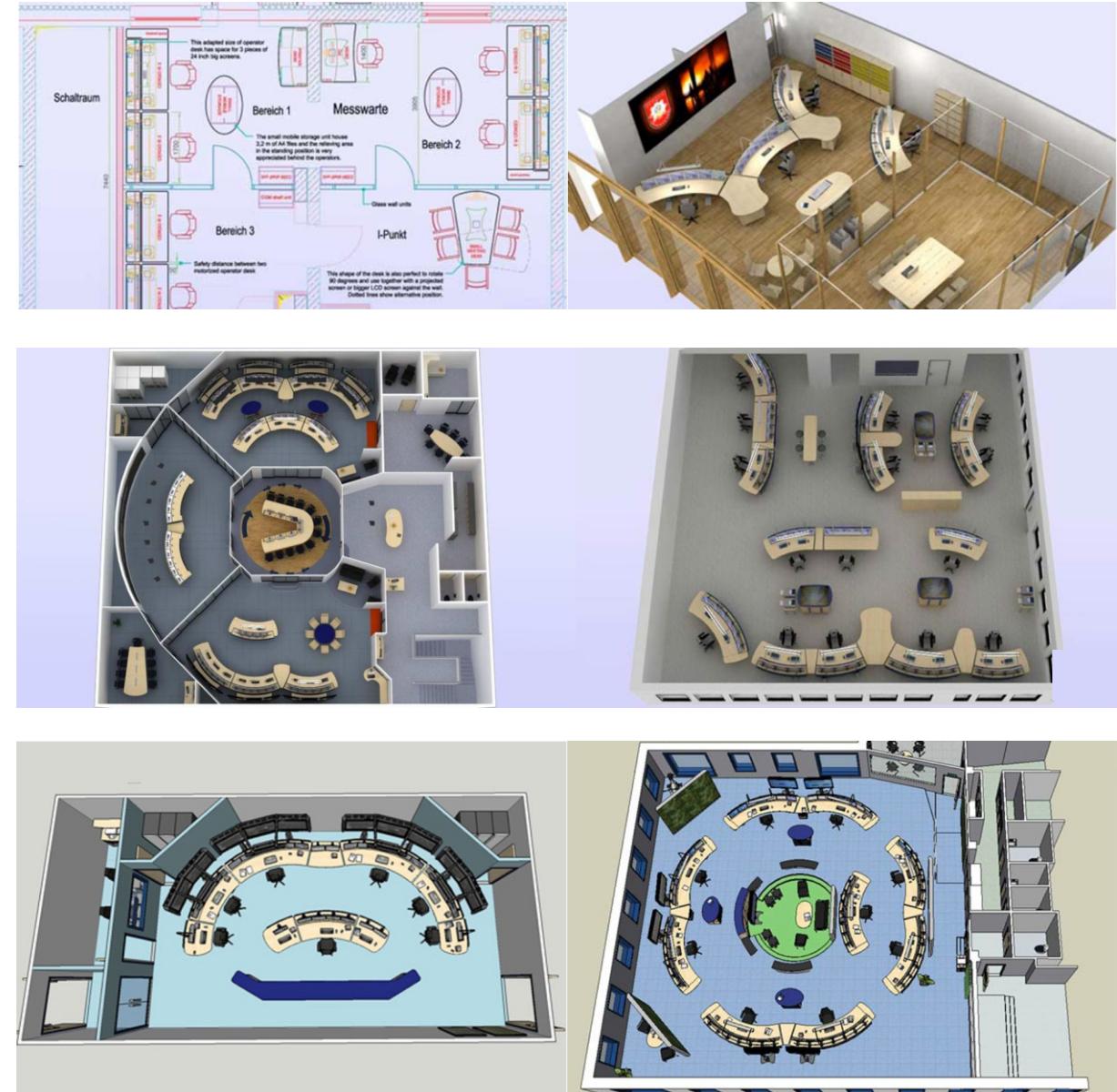
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Systems Control Room

Darex Engineering has a tremendous experience in the handling of different design of control rooms with state-of-the-arts technology. We handles different types of control rooms for varieties of applications; ranging from electromechanical systems, electrical systems, security systems, process systems, protocol facilities, etc.

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PIPED SERVICES

INDUSTRIAL:

- Gas & Steam pipelines
- Compressed & Instrument air pipelines
- Chilled water lines
- Boiler & Fan Coil heater with associated pipelines
- Refrigeration Plant pipework
- Process Plant Pipework



Industrial Piped Services

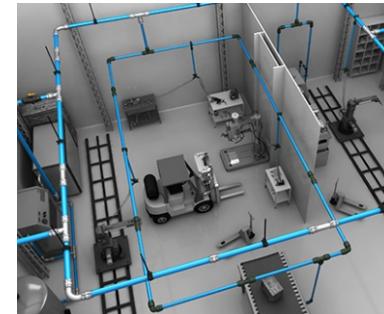
Darex Engineering is well experienced with many years of track records of excellence by our well-seasoned staff in all aspects of industrial pipelines for varieties of engineering applications such as process engineering, gas pipelines, oil and gas engineering with the state-of-the-art technology, town and estate water reticulation systems etc.

DAREX ENGINEERING LTD

INDUSTRIAL PIPED SERVICES



Gas & Steam pipelines



Compressed & Instrument air pipelines



Chilled water lines



Boiler & Fan Coil heater with associated pipelines



Refrigeration Plant pipework



Process Plant Pipework

Integrated security
systems based on
client requests.

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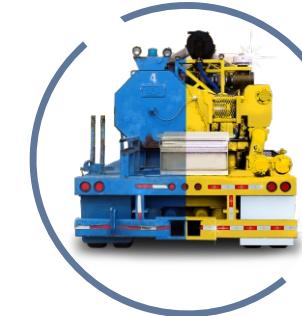
Other Services



Professionalism
Excellence
And Integrity...

DAREX ENGINEERING LTD

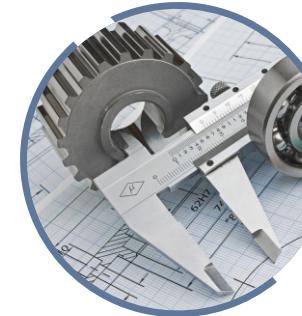
OUR SERVICES



EQUIPMENT
REBUILDING AND
REHABILITATION



ONE-OFF
SERVICES AND
REPAIRS



DESIGN
AND PROJECT



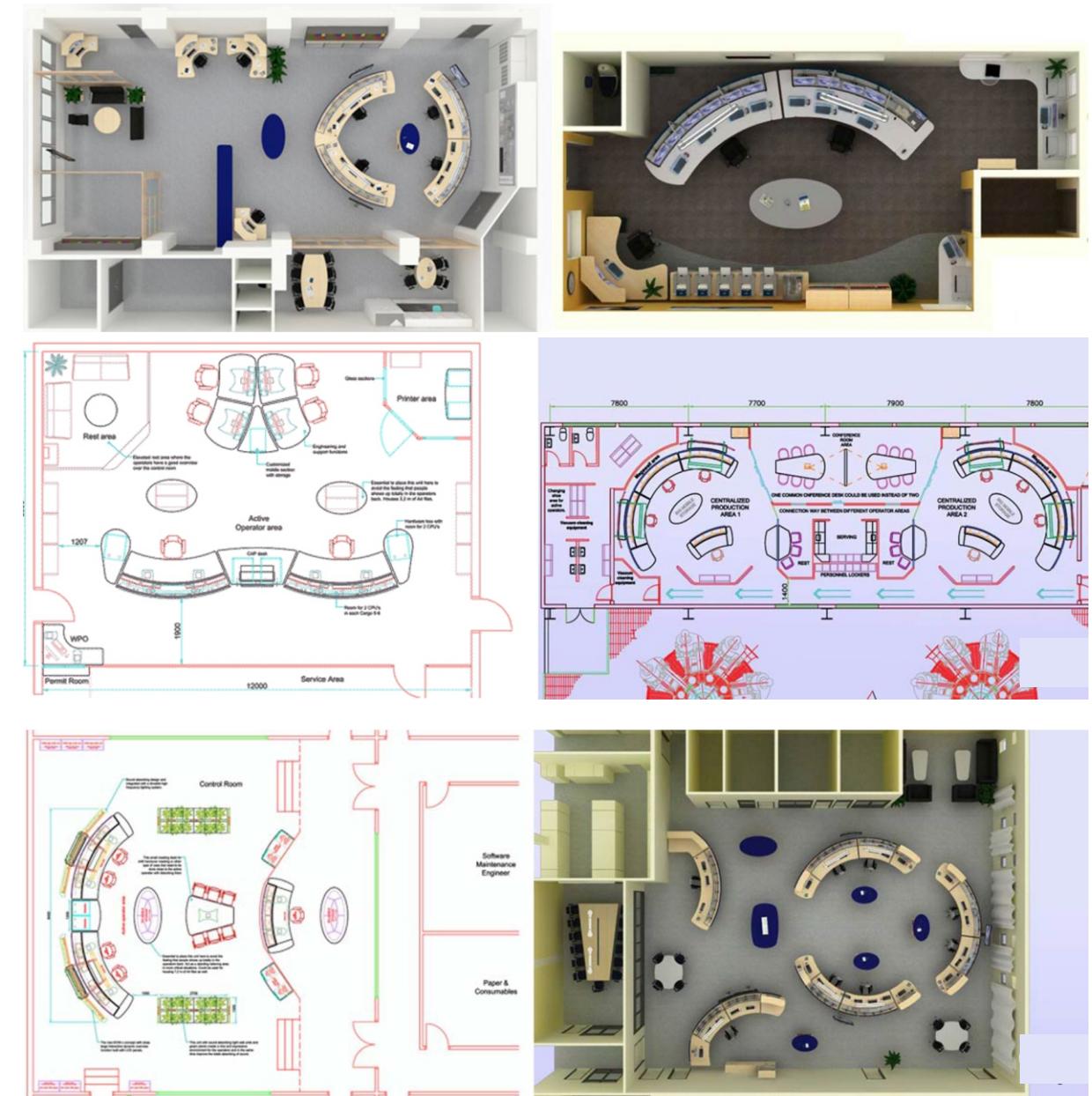
EQUIPMENT
PROCUREMENT
AND SALES

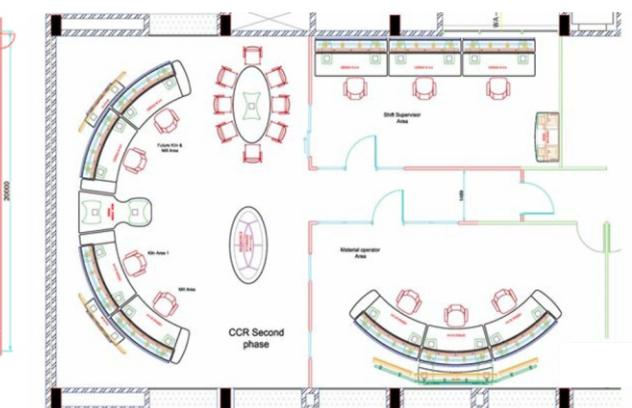
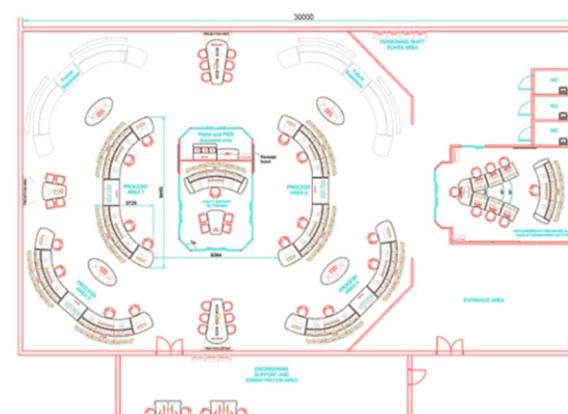
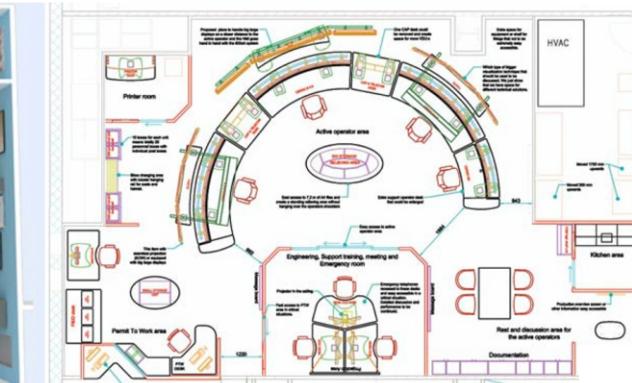
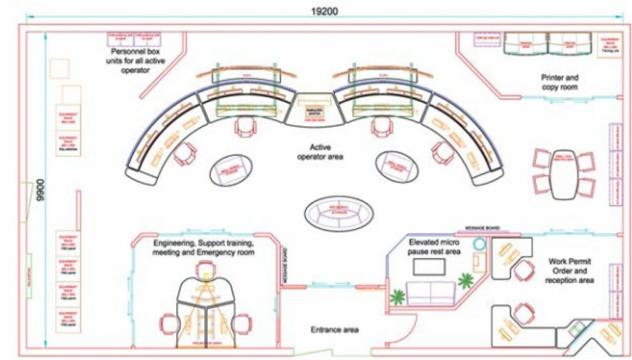
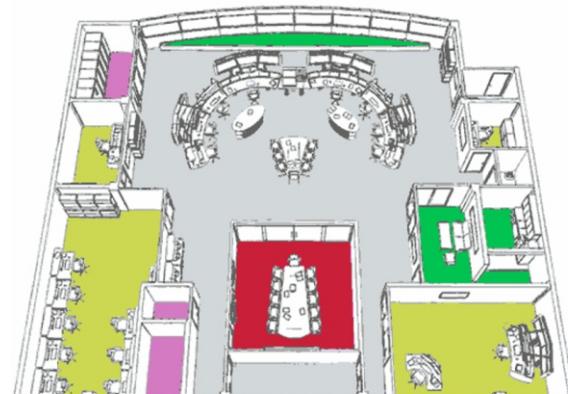
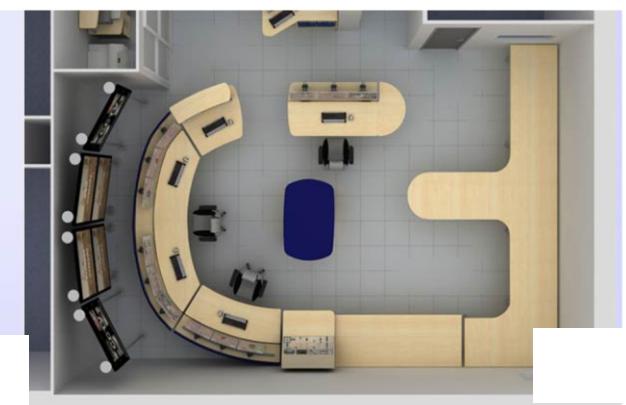
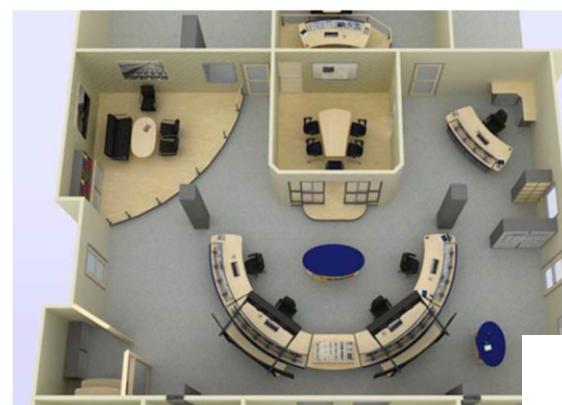
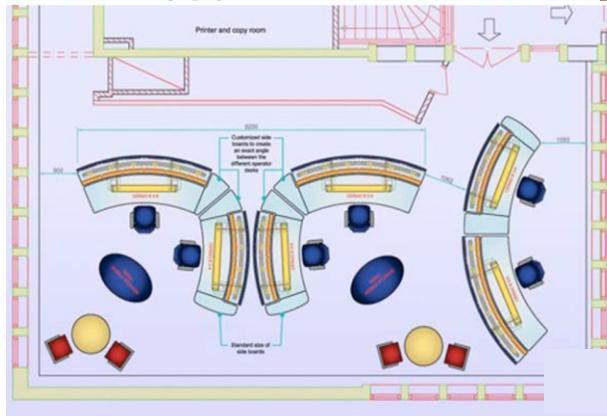
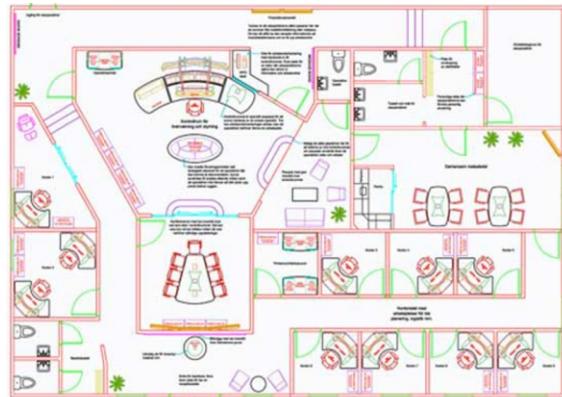


SCHEDULED ANNUAL
MAINTENANCE
CONTRACTS (AMC)

Gallery

DAREX ENGINEERING LTD







Our Partners



AUTHORIZED DISTRIBUTOR



AUTHORIZED DISTRIBUTOR



BY JOHNSON CONTROLS



Our Clients



DAREX ENGINEERING LTD



The Lagos Chamber of Commerce and Industry

...Giving your Business a Voice





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