











Design Integrity



Service & Support









## **WORLDWIDE** REACHABILITY





## **ABOUT US**

associated Group Companies Manufacture & Service Compressors in Industrial And Refrigeration Applications. Our compressors are suitable for various industries including Auto Ancillaries, Pet Bottling, General Industry, Sugar Mills, Chemical Plants, Steel Plants, Glass Industries, Cement Plants, Food Processing Industry, Cold Storages & Gas Generation Plants Etc.

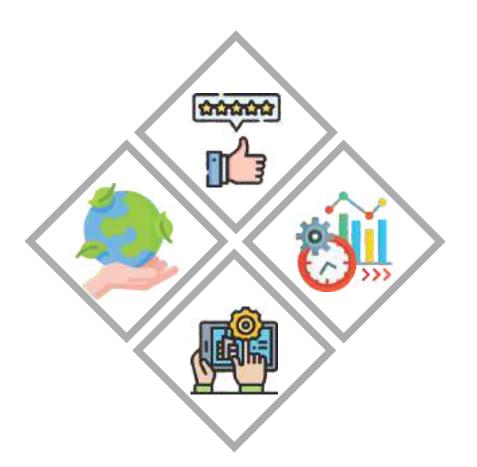
Colt Equipments (P) Ltd. has a dedicated experienced team working to enhance efficiency and reliability of every equipment manufactured and supplied by us.

Colt Equipments have a countrywide Sales And Service Network for the upkeep of every compressor it manufactures & every package it builds. Our product are being supplied to global customers in the Middle East, South East Asia And African Sub Continent. Our commitment to quality and reliability ensures customers retention and we offer the best value for money.

Colt Equipments has developed the required infrastructure to support all its manufacturing processes. We have in house Testing Lab, CNC Machining Centers, Stress Relieving arrangements, Testing Facilities And Paint Shop. With decades of experience and reliable performance of our compressors and equipments across the country, we have earned the trust of many customers. We are now one of the renowned name among the manufacturers of screw and reciprocating compressors.



## **OBJECTIVES**OF QUALITY POLICY



We believe in a healthy competition and in order to deliver no less than quality service, we push ourselves constantly to deliver what is expected. Customizable solutions to wide range of clients by constant improvement in service delivery, time management and quality constraints are what form the base of execution here.

- Adhering to statutory, regulatory health, safety and environmental regulations.
- 2. Maintaining customer satisfactory ratio.
- 3. Time management to ensure delivery within given time constraints.
- 4. Monitoring manufacturing and production unit by guiding them for improvement.

To ensure a sustainable mode of development the team at Colt Equipments Pvt. Ltd. is committed to use raw materials that maintains environment commitments and is eco friendly. These adherences to the guidelines paves way for better utilization of power and monetary resources, which ultimately benefits the society Updates on industrial trends are communicated with the help of societies like EEPC, CII, AIIGMA, ISHRAE, ASHRAE, AAR IIAR etc.



## MISSION & VISION



Our vision is to provide cost effective customizable solutions that could improve customer productivity and profit. To accomplish the task, we constantly try to incorporate customer feedback.

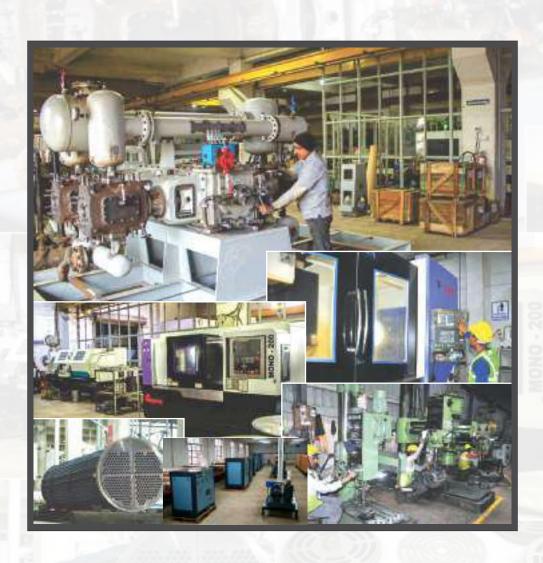
Our mission is to ensure customer satisfaction with on time supply of zero defect and high quality products. Innovation and improvement in our products and services is our priority. We aim to serve the world with high quality products at effective costs.

We are trying to utilize latest techniques that can deliver intelligent solutions to a business. With their growth, our growth is inevitable, so our actions are focused on improving standards of our clients. We as a brand are committed to quality delivery adhering to the norms and guidelines of the prevalent industry.









# A Glimpse of our MANUFACTURING FACILITY

As a leading supplier in Compressor Industry for more than 35 years, Colt Equipments Private Limited, and its associated Group Companies Manufacture & Service Compressors in Industrial and Refrigeration Applications.

Our compressors are suitable for various industries including auto ancillaries, Pet Bottling, General Industry, Sugar Mills, Chemical Plants, Steel Plants, Glass Industries, Cement Plants, Food Processing Industry, Cold Storages & Gas Generation Plants Etc.



## A Glimpse of our MANUFACTURING FACILITY



Colt Equipments has developed the required infrastructure like:

- In house Testing, Quality Control and tool room,
- CNC/VMC Machining Centers,
- Stress Relieving arrangements,
- Equipment Performance Testing Facilities and
- Paint Shop to support all its manufacturing processes.

With decades of experience and reliable performance of our compressors across the country, we have earned the trust of many customers. We are now one of the renowned name among the manufacturers of screw and reciprocating compressors.



## **Screw Air Compressor**



#### **Applications**

- Food & Beverages
- Sugar / Chemical
- Pharmaceuticals
- Rice & Dal Mills
- Laser Cutting Machines

#### **Features**

#### **Screw Air Compressor (VFD)**

- Highlight features of screw Compressprs
- Built with european Quality standards
- Two Years/8000 hours warranty and free service
- Screw element life for over 6 years or 30000 hours
- Lowest possible Maintainance cost, Consumables cost can be fixed for 6 years/30000 hours under AMC contract
- Large Pre Filter to increase life of internal components
- Easy access to all components, doors open from all sides

#### **Touch Screen Controller**

- Large Display Size
- Additional parameters such as amperes/voltage and power displayed for main motor and fan motor
- consumable lifetime/service due Indicator

#### Radial Fan

- High Efficiency Radial Fan
- VFD Controlled (25 HP Onwards)
- No Thermostat
- Fan Start/Stops on the basis of temperature

#### **High Efficiency Motor**

• Permanent magnet IE4 Efficiency Motor

#### **High Efficiency Combi Cooler**

• Oversized Coolers designed for High Ambient Temperatures upto 48° C

#### Complete Stainless Steel Piping

- No Rubber Hoses
- Less maintenance cost

#### **Low Speed - Direct Drive Screw Element**

- low maintenance cost
- Increased life of bearing

#### **Energy Efficient Drive**

- Specially designed for compressor application
- Safety protections like Single Phasing "Motor Overload, Current imbalance, over voltage, low voltage, High Pressure Tripping"

#### **High Efficiency Oil Separator**

Less Oil Carryover



### **Pressure Vessel**



We manufacture Pressure Vessel starting from 50 ltrs capacity to upto 100M3capacities, both in horizontal and vertical design, for working pressures starting from7kg/cm2(g) to 30kg/cm2(g), for various applications including compressed air, DMplants, CO2 storage.

The design codes followed are latest editions of 152825, ASME, Section VIII, Div I. TheMaterial of construction is as per customer requirement / application which include | +152062 GrB, 152002, SA516 Gr60 / 70, SS304, SS304L, SS316 etc

The manufacturing is done under strict quality control procedures adhering to our internal quality assurance plan (QAP), NDT testing including radiography, UT, MPI, third party and customer inspections. We have manufactured more than 8000 pressure vessel till date



### **Water** Chillers



A chiller is used to deal with the feed throat temperature for water-cooled extruders. Downstream cooling related with vacuum sizing tanks for pipes, profiles, and tubing. Chillers provide a tight-loop water system to cool any equipment or product. As a crucial by-product, the refrigeration emits waste heat which should be dissipated to the adjoining.

#### **Advantages of Chillers**

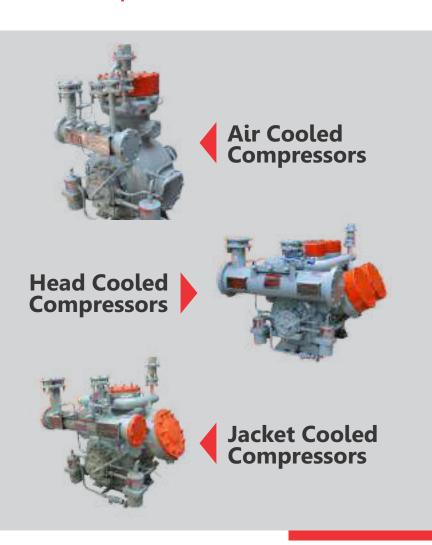
Chiller is broadly used in huge extrusion facilities. Brewery, pharmaceutical and restaurants are to name a few. Considering the requirement, air, water or water-cooled air chiller can be installed. Before you go for picking chillers, you should learn about the advantages they offer.

Finding out the lifespan is the foremost thing that you should pay attention to as water-cooled chillers should not bring you replacement hassles. As these are placed inside which means these remain unaffected to outdoor areas like rain, heat or snow, these are likely to be less vulnerable. Unlike air-cooled chillers, a water-cooled chiller can easily function without noise because the flow of water passing through the structure does not cause any noisy expansion and condensation. Owing to the prime feature, this type of chiller has become the most admired choice of schools and hospitals where silent action is most sought after.

The aspect why water-cooled chillers are applauded is that they transfer heat in a more efficacious manner, which leads to saving more on energy costs of the businesses where they are utilized. When it comes to water-cooled chillers, generally no open space is required. Water acts as the main refrigerant in a water chiller. That is the reason, these are looked as a safer pickup for people who come in their network. If space occupancy is your main concern, a screw chiller compressor is befitting because it has less spare parts and it continue to function for the longer period.



## Ammonia Reciprocating Compressor



#### **Discharge Valve Assembly**

Three Concentric discharge valve rings ensure ample gas at flow passage at low lifting height ensuring less number of breakdowns.

The use of sinusoidal spring made of Sandvik Steel, Sweden together with precision machined and lapped surface result in a trouble -free operation for a remarkable long time.

Minimum inventory for spares since most parts are identical throughout the CT-Series Compressors.

#### **Cylinder Liner**

Interchangeable cylinder liners are made of fine-grained, centrifugally cast, alloy iron.

Fine boring and honing results in a mirror smooth running surface.

#### **Suction Valve**

A hydro-mechanical suction valve lifting mechanism on each individual cylinder achieves loading and unloading.

For unloading, the suction valve ring is lifted from its seat in the cylinder collar by spring tension. Admitting controlled oil pressure to the control piston, allows the suction valve ring to descend on its seat effects loading of the cylinder.

#### **Easy Cleaning**

Suction gas strainer is another example of easy maintenance. Inside gauze strainer element can be easily removed.



## Refrigeration Screw Compressor



Colt screw compressors are state-of- the-art new generation twin-screw oil injected machines with open-drive specially designed & developed for refrigeration & Air-conditioning applications. Compression is obtained by intermeshing rotors of asymmetric profile, the rotors turn in an outward direction forcing the male & female flutes to un-mesh allowing the gas to enter the top of the machine. The gas will travel around the outside of the rotor until ii reaches the bottom where compression actually occurs; the gas is released through the opening in the discharge port. The Rotor used in Colt compressors is of 4+6 SRM asymmetric profile.

#### **Lubricating System**

Oil separation system-efficient multi stage coalescing system is separate from the compressor. Serviceable without removing compressor, chiller, condenser. The oil carries over is maximum 5 Ppm

Intergral built in oil heater maintains oil temperature for start up

Rotary oil pumps ensure positive lubrication to bearings for start up

#### Compressor

Open drive positive displacement oil injected, twin Rotary suitable for low evaporation temperature up to minus 50 degree centigrade.



## Screw Chiller Packages



The Industrial Screw Chillers, Compact Chiller, Glycol Chiller, Industrial Chillers and Industrial Refrigeration Systems are designed and manufactured for the cooling processes, where each process is completely different from the other. The industrial chillers are designed using qualitative materials and metallurgy and are fitted with the most efficient compressors from the world. The materials and metallurgies are chosen according to the process fluid being used as per the specific process requirements.

Complete study of the process to ascertain peculiarity of the requirement, precedes the choice of equipment and accessories being proposed, through an engineering team with specific expertise.

#### **Prominent features**

- The latest most efficient and highly reliable semi-hermetic and open screw compressors from Europe
- Environment friendly, very stable and operation friendly refrigerant R-404A
- Totally skid mounted units with single and multiple refrigeration circuits, with the highest full and part load energy efficiencies
- Factory made and tested DX and Flooded evaporators, made as per highest international standards of manufacturing
- Electronic expansion valves for increased efficiency and precise temperature control
- Fully automatic PLC based units with remote operation and data logging facilities
- High fouling factors, increased condensing area, extra tube thickness and high-flow design, for highest energy efficiency, higher operational reliability and easier maintenance
- Low FPI count and high condensing area together with low noise, high flow, pressure controlled axial fans, ensuring best possible energy efficiency while being operable within the harshest ambient conditions
- Stepless capacity control from 25% to 100% adapting precisely to varying process loads



## **Shell Tube Type** Heat Exchanger



COLT shell & tube condenser are manufactured and designed using the best possible technological solutions as per different applications area. The shell manufactured by us using heavy duty ERW carbon steel pipe or rolled from carbon steel plate (as per requirement )for durable finish standards, robust construction, pre long life and excellent in performance.

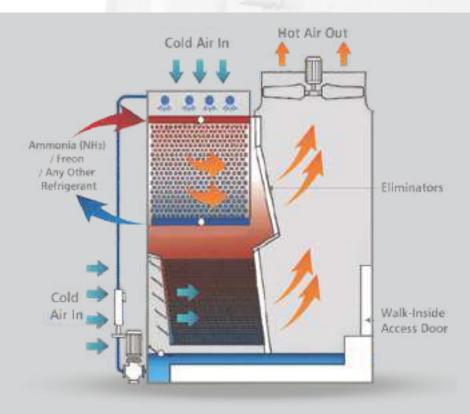
The tube is made of special high performance copper, Mild Steel (MS) and Stainless Steel (SS) both internally and externally grooved fins (as per requirement) for a low fouling factor with high heat transfer capacity. The Offered product is precisely designed in compliance with ASME & TEMA Code.

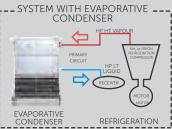
#### **Features:**

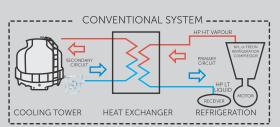
- Highly durable
- Low maintenance
- Easy to install
- Fine-finish
- Sturdy construction
- Leak proof joints
- Rust preventive primer finish of red oxide paint
- Specialized construction material and / or testing producers can be used.



## **Evaporative Condensers**







#### WHY COLT EVAPORATIVE CONDENSERS?

Colt's evaporative condenser offers unmatched flexibility, providing optimized selections for various refrigeration systems & climatic conditions, utilizing multi flow configuration. Colt provides the most energy efficient evaporative condenser in the market.

- Wide Range of Thermal Duties Ideal for Ammonia / Freon condensation with low approach
- Retro Fit & Replacement— Single air inlet models are designed and fit into the existing system
- Selection Customization can optimize foot print and least Power requirements to suit project requirements, large product range & Customized Material of Construction
- Largest sales & support network across India



## REFRIGERATED AIR DRYER



Designed to have better turbulence and maximized heat transfer rate.

#### **SALIENT FEATURES**

- Compact Design
- Low Pressure Drop
- Consistent Dew Point
- Power Saving
- High Quality Finishing
- Non-cyclic System
- More Reliability
- Ease of Installation
- Environment Friendly
- Reduced Maintenance



## **COMPRESSED**Air Piping



Air piping is used to provide compressed air to the usage points. The compressed air requires to be delivered with appropriate quality, adequate volume, and pressure to accurately power the components that utilize the compressed air. Completely air tight and simple to mount, the range is ideal for installations requiring the highest quality air. These are energy efficient and do not require labor for installation. The range is best suited for compressor due to its nil leakage and nil corrosion features. Clients can avail this piping into various specifications to suit the industrial requirements.

Our Compressed Air Piping Systems is specifically constructed for providing maximum efficiency. It has been extensively tested for safe operation in compressed air applications. We offer a safe, reliable system with the many advantages of thermoplastic construction.

#### These include:

- Convenient light weight material
- Faster / lower installation cost
- More flexible installation
- Minimal system pressure drop
- Corrosion resistance



### Air Audit



Measuring the Free Air Delivery (FAD) of an air compressor can be challenging. With a proper flow meter and some mathematics this task is manageable.

The ultimate job of an air compressor is to produce compressed air by sucking in ambient air, pressurizing or compressing it, and discharging it into the compressed air network. Air compressor power is defined by its power rating and the FAD specifications stated by the manufacturer when new. However, as time goes by, an on-site measurement can be very useful. There are several simple questions, which eventually explain the performance of an air compressor:

- How much electrical power is my air compressor consuming?
- How much electrical power is my air compressor consuming?
- What's my pressure profile?

To answer these questions, you may want to measure your air compressor on your own. Performance measurements usually comes into two types:

- Temporary performance measurement, done as part of system assessments, or before investing in a new air compressor.
- Permanent performance measurement, which is performed to monitor the performance at all times in order to trigger services or overhauls timely.



### AIR COMPRESSOR ON RENT



**Colt Equipments Pvt. Ltd.** offers All sizes of air compressors for rent to make sure that you don't lose any of your highly valuable time and resources. While our highly trained service and repair Engineers are working on your equipment, our air compressor rentals are here to ensure that you don't lose productivity.

Our emergency rental options are here to help your company full fill all of it's air compressor needs, whether it's to help while your regular unit is being repaired or Shifted to a new location Colt Equipments Pvt. Ltd. has the rental products for you.

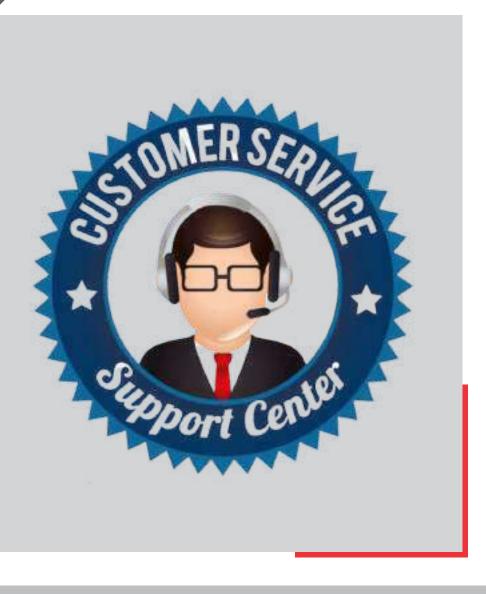
We also offers emergency Air Compressor Rental & Leasing services to full fill your needs and requirements. We offer all Compressors and allied products on rental basis.

#### Accessories available for rent

- Air Dryers
- Filtration
- Hoses & Connections



### **CUSTOMER SERVICE**



Colt has achieved excellence in aspect of reliability and quality of their products. We make sure that our refrigeration equipment is well designed, properly installed and well maintained. On time and correct maintenance prevents breakdowns and increases the life span of the installation.

We are thereby pleased to offer you the following service facilities:

#### Field Service Team

To provide full technical assistance and after-sales service, we have specially trained and experienced service engineers. The commissioning, maintenance, operational problems, on-site inspection, overhauling and repairing of our products – we have a force of specialists of the field service team, which will also assist you with the installations.

#### Annual Maintenance contacts (A.M.C's)

The tailor-made Service contracts to suit your specific requirements can be made to keep your refrigeration compressor running smoothly. As a good practice, we recommend on time preventive maintenance which proved to be value for money rather than breakdown maintenance only. Well trained Colt engineers are capable to carry this service out or to help you to set up your own preventive maintenance schedules.



### **SPARE PARTS**











Colt has been practicing fast working parts organization to supply the necessary spare parts throughout the world. We dispatch the required spare parts as soon as possible and in most cases the parts can be delivered within 24 hours after order.

To further shorten lead time, distribution centers have been created at Colt authorized Distribution centers. To ensure this, we are creating strong network of contractors and agents who stock Colt parts. Colt has an extensive stock of spare parts covering compressors currently manufactured and machines, which are over 20 years old.

#### Do you need spare parts?

Please contact our distribution centers for spare parts or call us on +91-8826997901-04.

#### How to procure spare parts?

Basically, Colt guarantees the high availability of spare parts at their factory warehouses in India as well in its local offices and its distributors. For a swift advice on Spare parts, Please contact our local dealer or contact us on +91-8826997901-04



### **TRAINING**

#### With association of Local ITI – we offer trainings.

For whom To ensure proper application and maintenance of the Colt equipment, we offer courses especially for Training Engineers, Plant Managers, Owners, Supervisors, Technicians and Operators in Refrigeration & Air Conditioning Industry. The course

and documentation can be provided in English. & Regional language also.

Aim To provide training facilities to help industry develop trained Human Resources at various operating levels by offering world class training programs of different durations.



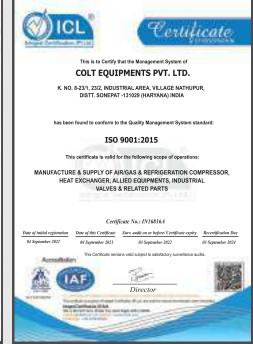


### **CERTIFICATES**













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## **EVENTS** & EXHIBITIONS

#### **Global Participation**

Glance through the trending industrial events across the globe.

Colt takes pride in participating in around 5+ international and domestic congress across 25 countries. We ensure that every delegate has what they need while introducing them to the Colt family with our warm hospitality.







## Few of our Happy Customers















































































































#### Manufactured by:

#### **COLT EQUIPMENTS (P) LTD.**

Works: Khasra No. 8-23/1, 23/2, Village Nathupur - 131 029, Distt. - Sonipat (Haryana) Mob: 7478780000, 7665766517 | Email: sales@coltequipments.com

We reserve the right to modify the specification in accordance with improved designs. Although every effort will be made to maintain the accuracy in the data given, the figures are in no way binding. The claims are as per our knowledge for any variances, we are not bound in anyway.