



HI TECH

COMPRESSOR SOLUTIONS

www.hitechcompressor.in

OUR COMPANY

It is the prerogative of Hi-Tech Compressor Solutions to utilize its knowledge and resources to cater to the customer and stakeholders across India and throughout the world.

Hi-Tech has come to the fore front to serve the users by identifying their needs and providing them appropriately with the high quality products and services. Incepted by Mr. Harsh Singhania, Hi-Tech has grown across the country thus establishing itself as a high end solution provider in the Compressor Spares industry.

WHY SELECT US?

Shortest Delivery Period in the Industry avoiding production loss of our clients ◀

OEM quality products ◀

Economical Rates enabling cost savings ◀

Innovative ability and Constant improvement of technical competence ◀

Best after sales service and support for customer satisfaction ◀

INDUSTRIES WE DEAL IN

- Steel & Ferro Alloy Industries
- Petrochemical & Refinery
- Cement Industry
- Pharmaceutical Industry
- Power Plants
- Agro Based Industries



PRODUCTS WE OFFER

1) RECIPROCATING COMPRESSOR

3) AIR DRYER

5) RECIPROCATING SPARES

- ▶ PISTON
- ▶ PISTON ROD
- ▶ CYLINDER AND CROSS HEADS
- ▶ VALVE ASSEMBLY
- ▶ O RINGS AND GASKETS
- ▶ PTFE PRODUCTS
- ▶ CRANKSHAFT AND CONNECTING ROD
- ▶ HEAT EXCHANGERS

2) ROTARY SCREW COMPRESSOR

4) RECEIVER TANK

6) ROTARY SCREW SPARES

- ▶ AIR/OIL FILTERS
- ▶ AIR/OIL SEPARATORS
- ▶ LIUBRICANTS
- ▶ HOSES AND SENSORS
- ▶ VALVE AND OTHER KITS
- ▶ COUPLINGS
- ▶ OIL/AFTER COOLER

SERVICES WE OFFER

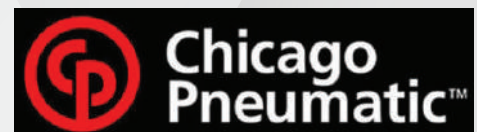
Health Check up ◀

Reconditioning of Valves ◀

Preventive and Breakdown Maintenance ◀

On site Repairing ◀

BRANDS WE DEAL IN



Air/Oil Filter

It is imperative for the compressors to be mounted with air filters to get rid of the impurities of the environment. Hi-Tech provides high quality air filter which is capable of removing 97% of the pollutants which ranges in size from 1 Micron or larger. Air Filters offered by Hi-Tech have high efficiency and cause minimum drop in pressure. Oil filters of a particular screw compressor prevent solid particles from damaging the rotors and bearings. The filter specifically prevents the compressor being damaged by an insufficient supply of oil.

Hi-Tech has achieved the niche in developing oil filter with drain and pressure relief valves. The oil filters are interchangeable and provides shield for the variable equipment's of the compressor.

Air-Oil Separators

Separators maintain the quality of the discharge of the air and helps in preventing oil loss. The separator is utilized for visual monitoring as well. The residual oil which is being utilized by the compressor is channeled through the air oil separator unit.

Hi-Tech offers a full line of air-oil separators which include horizontally and vertically mounted separators, in-to-out as well as out-to-in separators having pressure differences up to 7 bar. The amount of oil left in the compressed air is 1-2 ppm given normal loading and working pressure for vertically mounted applications. For horizontal applications, where the pressure drop is greater, the design is different requiring special elements which achieve 3-5 ppm under normal conditions. efficiency.





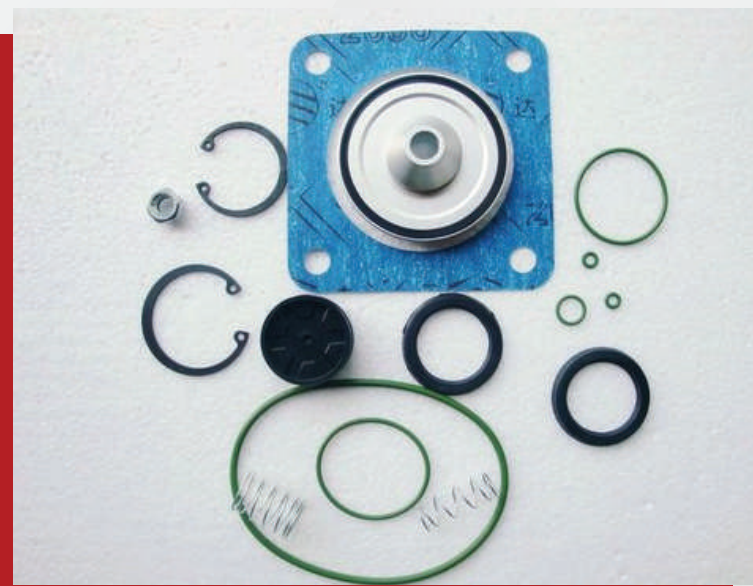
Compressor Lubricants

Hi-Tech offers a wide range of lubricants for both Screw and Reciprocating Compressor. We offer 100% replacement oil which will not affect any part of the compressor including the screw element. We guarantee the life of the Oil for a minimum of 6000hrs and more depending upon the type of the oil.

Valve and other kits

Hi-Tech offers a variety of the valves and valve kits which help reduction of the failure and malfunction, keeping the system fit to run at desired level of efficiency without much of maintenance. The valves are available at variable sizes and variants. The interval and drain time duration can be manipulated as per the user requirement. Different Valves which are available at Hi-Tech includes :

- Auto Drain Valve, Solenoid Valve
- Oil Stop Valve, Check Valve
- Minimum Pressure Valve, Relief Valve
- Bypass Valve, Oil Suction Valve



Couplings

The requirements of the drive are met either by a powerful electric motor, which is connected with the compressor via a coupling or by a combustion or gas-powered engine, which is coupled to the compressor via a coupling and gearbox. This is independent of whether the compressor is a reciprocating one, a screw-type one or a rotary compressor. The most important functions of the coupling are: Balancing the offset between the prime mover and the machine that is being driven, torque transmission and minimization of torsional vibrations.

CONTROLLER

We at Hi-Tech provide OEM controller of all the brands we deal in. These controllers can be modified as per your requirement and shall give the same performance as compared to OEM. However, being in aftermarket, our prices tend to be lower when compared with OEM. We also offer repairing services of controllers whether or not purchased from us. With a nominal cost, our clients get an extended life on the controllers.



Piston

We manufacture a wide range Piston of any make and size. Our scope includes Piston of MOC -Alloys and Cast Iron. All our manufacturing is based on the specific mechanical drawing of the material to ensure high accuracy. Hi-Tech Piston's shall give you the following benefits :

- ▶ No Porosity in materials
- ▶ Dimensional and Weight Accuracy
- ▶ Balanced Performance



Piston Rods

Hi-Tech Piston Rods are made of forged steel only and it undergoes a set of various exhaustive services for quality assurance checks including Raw Material Analysis, Hardness and Surface finish with Machine or Roll Threaded, Induction Hardening, etc. We manufacture Rods for both Lubricated and Non-Lubricated Compressors. Our Rods have the following features :

- Thread Rolling & Induction Hardening ◀
- Certification of Raw Materials ◀



Valve Plates

We offer a wide range of valve plates, damper plates and Spring Plates made from Stainless Steel, Alloy Steel, Virgin Peek and VictexPeek 450g as per your requirement and use. The plates are hardened, ground and lapped on automatic machines to achieve 100% flatness and sealing .i.e. 8-10 microns. All our plates are checked on seats after assembly for 100% leak proof service. Some of our main features are :

- Flatness
- Concentricity
- Even Thickness
- High Impact Strength



Ptfe Products

Hi-Tech offers a wide range of Polytetrafluoroethylene products like Sealing Ring, Rider Ring, Piston Ring, Bearing Ring, Scrapper Rings, Gland Packing Rings, Packing Rings, etc. All the materials are manufactured from Cast Iron, Bronze and Carbon filled PTFE. We ensure optimum efficiency of the rings and it is duly tested on mandrel as per the cylinder bore to ensure accuracy of the same.

Cylinder

We offer cylinders from graded cast iron and alloy with greater wall thickness and large cooling area to facilitate optimum heat exchangers. All cylinders are subject to hydrostatic tests. Honing is done on the surface to minimize the wear and tear of the piston rings.



Oring & Gasket

Hi-Tech offers O rings made from Neoprene, Nitrile and Viton material as per the client specification. All types of Gaskets are manufactured by us against the sizes provided to us whether it be of Stainless Steel or Aluminum. The materials are made with perfection so that it prevents any passing of air or fluid.



Valve Assembly

Valves are considered as the heart of a compressor and its life is very crucial for the compressor. We offer the following type of valves for any compressor :

Disc valves, Channel valves, Ring valves, Poppet valves, Non-Return Valves

We manufacture valves for High Pressure applications also. Our valves can sustain working pressure up to 250 kg/cm². Hi-Tech Valves used in compressor results in better efficiency of the compressor and 10-15% reduction in power consumption.

Crankshaft & Connecting Rod

We are an acclaimed name engaged in offering our precious clients a superior quality range of Metal Crankshafts. Rigid in design, these crankshafts of reciprocating compressor translates reciprocating linear piston motion into rotation. Crankshafts offered by us are manufactured from the premium quality raw material that we procured from the reliable vendors of the market and the latest technology. Also, we provide these crankshafts in different specifications and at reasonable rates similar to other items.



Heat Exchanger

A heat exchanger is a system used to transfer heat between two or more fluids. Heat Exchangers are used in both cooling and heating processes. The fluids may be separated by a solid wall to prevent mixing or they may be in direct contact. They are widely used in space heating, refrigeration, air conditioning, power stations, chemical plants, petrochemical plants, petroleum refineries, natural-gas processing and sewage treatment. Hi-Tech manufactures Heat Exchangers against the drawing which has to be developed by the client.

We also provide Raw material test certificate for client reference. With the growing needs for Oil cooler, After cooler and other heat exchanger spares required in screw compressor we have expanded our reach in that sector also. We currently manufacture all the Oil and After coolers required in the screw compressor of the Make of compressor we offer. All these are supplied against the part number as we have the drawing for these compressor. These are made from 100% copper tubes or Stainless Tubes as the case maybe so that our product can provide you maximum efficiency.



Reciprocating Compressor

Hi-Tech reciprocating air compressor are designed for optimum efficiency while requiring minimum maintenance to meet your demand of compressed air. And with an extensive service network and easy availability of spares, this compressor is undoubtedly the wisest choice for unparalleled performance in the long run.

Motor Capacity - 2HP to 25HP
CFM - 5 to 200

Maximum Pressure of upto 35 bar

SCREW COMPRESSOR

Rotary screw air compressors are simply rotary positive displacement machines capable of high-speed operation over a wide range of operating pressures and flow rates at high efficiencies. In screw air compressors, there are no valves or other mechanical forces that can cause unbalance. This allows a compressor to operate at high speeds while combining a large flow rate with small exterior dimensions.

Hi-Tech rotary screw air compressors

represent a giant leap in design and performance, with every single component designed for reliability and ease of maintenance.

Motor capacity - 10 HP to 200HP

CFM - 20 to 1600

Maximum Pressure upto 13Bar



Refrigerated Air Dryer

When atmospheric air cools down, as happens following a compressor compression process, water vapour precipitates as condensate. This is the form of water that is naturally present in the air we breathe. So, Compressed air contains oil, solid particles and water vapors. This untreated compressed air poses a substantial risk to your air system and end products. Its moisture content alone can cause corrosion in pipe work, premature failure of pneumatic equipment, product spoilage and more.

Hi-Tech refrigerant dryers provide the clean, dry air you need to expand the life of your equipment and ensure the quality of your products. Our dryers meet or exceed the international standards for compressed air purity and are tested according to ISO 7183:2007.

Inlet Flow capacity upto 3000 cfm

Power consumption under 6 KW

Air Receiver Tanks

Hi-Tech Air Receiver is engineered to handle the stress of fluctuating air demands, reduce wear and tear and increase the life of the end use equipment.

Vertical air receiver manufacturing in accordance with IS2825, ASME section VIII Division 1 design code. Material of construction for shell and dish end will be IS 2062 (optional material SA516 GR.70, IS2002, SS 304/316). The air receiver supplied with complete inside anti corrosion black bitumen & epoxy primer with epoxy grey painted.

Safety valve, pressure gauge, drain valve will be supplied with tank as standard. Dimensions are approximate. / Air receivers of higher capacities are available on request. Due to continuous engineering improvements, technical specifications are subject to change without prior notice. Capacity upto 5000 Ltrs



Compressor Servicing

► **Reconditioning Of Valves** - If the compressors are not kept under maintenance on a regular basis, it not only leads to deterioration of the valves but also raises the operating costs. Compared to entirely replacing the valves, a far better solution is to recondition them. We at Hi-Tech, offer our clients to recondition the cylinder valves so that it gets an extended life at a nominal cost.

► **Preventive and Breakdown Maintenance** - Maintenance of a compressor is an ongoing and troublesome job for the owners. We offer Preventive as well as Breakdown Maintenance for our clients so that they don't have to worry about the operational maintenance of the compressor whether reciprocating or rotary screw.

► **Health Check up** - We are having experienced / well trained compressor. We provide technical advice and assistance to clients for trouble shooting and also carryout overhauling of Air & Gas compressor of all sizes.

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Proprietor

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