

Tandem Piston Compressor Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 By Types (Stationary and Portable), By Stages (Single Stage and Two Stage), By Applications (Oil Refineries, Chemicals & Petrochemicals, Natural Gas Processing & Distribution, and Others), By Region

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Abstracts

Global tandem piston compressor market is anticipated to grow robustly in the forecast period 2024-2028. Tandem piston is used in many applications due to its great efficiency, including air cooling, separation, and refrigeration. Facilities that produce chemicals and petrochemicals also employ tandem piston compressors. These businesses are expanding significantly on a global scale, increasing the market under research. A tandem piston compressor is a positive displacement compressor that uses pistons, driven by a shaft to deliver gases or fluid at high pressure. These gas compressors include two valves that regulate the airflow into the cylinder to create a constant air pulse. From the inlet channel, gas or oil enters the suction manifold. It travels to the cylinder compression chamber, which is compressed by the piston's reciprocating motion, which is powered by the crankshaft and then released. Oil refineries, gas pipelines, natural gas, and refrigeration facilities employ piston compressors in various applications. Compressor pistons are specifically used in the blasting process to clean polyethylene terephthalate-based plastic bottles (PET).

Adoption of Natural Gas Consumption & Less Maintenance Cost Propelling the Market in Future

Tandem piston compressors are frequently used to transport and process natural gas.

As a result, the market is expected to be dominated by rising natural gas demand for power generation, over the projected period.

Additionally, expansion of the natural gas sector is anticipated to fuel the market for study during the forecast period, as natural gas production has surged due to an uptick in output from shale deposits. The fact that these compressors demand more room is seen to be a hindrance to the market's expansion.

Compared to a regular piston, the energy cost is decreased by up to 20% using a tandem piston compressor. In contrast to a standard diaphragm compressor, the life of a tandem piston compressor is extended by around ten times with less maintenance. To improve the effectiveness and economy of operation, ionic liquid and numerous seals are connected to a piston compressor and separated from a standard compressor. The heat exchanger panel is removed, and the heat is forced to evacuate by suction in the cylinder. Utilizing a tandem piston compressor in a double-acting pump or machine can reduce energy loss from rejected heat.

Latest Trend of Food And Beverage And Aerospace Sectors Is Adopting Tandem Piston-Based Compressors To Pressurize Gases To High Pressures.

The shale gas explosion is primarily to blame for the rise in natural gas, owing to the development of shale gas production technology during the past years. Simultaneously, natural gas-powered energy generation also surged by 25%. Due to this, the market is expected to grow with a high CAGR in the forecast period.

Natural gas may gradually replace coal in electricity generation, according to the Gas Generating Corporation (GGC). Gas is expected to play a more significant role in the global energy mix since it produces half as much carbon dioxide per unit of electricity as coal does. Owing to this, market players are focusing on tandem piston compressors.

The construction of LNG (Liquefied natural gas) terminals has led to a rapid expansion of LNG infrastructure globally, which has increased the demand for natural gas. As a result, pipeline operators also utilize piston compressors to transfer natural gas, which drives the market over the forecast period.

Additionally, the market would continue to grow as more industries, such as those in the food and beverage and aerospace sectors, adopt tandem piston-based compressors to pressurize gases to high pressures.

Market Segmentation

The Global Tandem Piston Compressor Market is segmented based on types, stages, and application. Based on type, the market is segmented into stationary and portable. Based on stages, the market is divided into single and two stages. Based on application, the market is segmented into oil refineries, chemicals & petrochemicals, natural gas processing & distribution, and others.

Market player

Major players operating in the Global Tandem Piston Compressor Market include ABAC air compressors, BOGE KOMPRESSOREN Otto Boge GmbH & Co. KG, Bitzer SE, Officine Mario Dorin SpA, and NuAir compressors (FNA SpA), Dorin India Private Limited, KULTHORN KIRBY PUBLIC CO., LTD, SPERONI spa, FNA S.p.A., Danfoss A/S, RefPower Srl.

Report Scope:

In this report, Global Tandem Piston Compressor Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Tandem Piston Compressor Market, By Type:

Stationary

Portable

Tandem Piston Compressor Market, By Stages:

Single Stage

Two Stage

Tandem Piston Compressor Market, By Application:

Oil Refineries

Chemicals & Petrochemicals

Natural Gas Processing

Distribution

Others

Tandem Piston Compressor Market, By Region:

North America

United States

Mexico

Canada

Asia-Pacific

India

Japan

South Korea

Australia

Singapore

Malayasia

China

Europe

Germany

United Kingdom

France

Italy

Spain

Poland

Denmark

South America

Brazil

Argentina

Colombia

Peru

Chile

Middle East

Saudi Arabia

South Africa

UAE

Iraq

Turkey

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Tandem Piston Compressor Market.

Available Customizations:

Global Tandem Piston Compressor Market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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