



# Desran two-stage compression screw air compressor

Why should you choose desran air compressor?

Our machines adopt the two stage compression technology, which not only increases the efficiency of compression, but also avoids the negative influence from the high discharge air temperature and increases the reliability and running life of aircend. Desran Compressor is the leading air compressor manufacturer in China.

What is a two-stage rotary screw air compressor?

Two-stage rotary screw air compressors are a transformative technology, offering substantial advantages over traditional single-stage air compressors, particularly in energy savings and operational performance. Much of the discussion in this article is theoretical since low-horsepower two-stage air compressors are new to the U.S. market.

Who is desran compressor GmbH?

More than 200 agents and after-sales service network, truly local service, local care Desran Compressor GMBH is registered in Frankfurt oder, Germany, it is a German company specializing in air compressors. German Desran is comparable to the top brands of German descent, such as BMW and Mercedes-Benz in the automotive industry.

How does a two stage air compressor work?

A cross-section of a two-stage air compressor. The first stage compresses air to an intermediate pressure level, after which the air passes through an intercooler (usually an oil shower) that reduces the air temperature. Then, the partially compressed air enters the second stage, where it undergoes final compression to the desired pressure.

Who is desran compressor (Shanghai)?

Desran Compressor (Shanghai) Co., Ltd. not only inherit advanced design concept and precise manufacturing technology from German industry, but also combine both domestic and overseas users' operation conventions. Desran Compressor (ShangHai) Co., Ltd is a subsidiary invested by German Desran Compressor Co., Ltd.

Do two-stage rotary screw compressors save energy?

Two-stage rotary screw compressors demonstrate remarkable energy efficiency compared to their single-stage counterparts. By distributing the air compression workload across two stages, these systems can achieve energy savings ranging from 15% to 25%, translating to significant cost reductions for industrial operations.

A rotary screw air compressor is one of the two types of positive displacement gas compressors. It uses two rotors to create the pressure needed for air ...

With its rich experience and innovative technology, Desran has become the leading supplier of screw



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compressors and piston compressors. After hard work, Deslan has been successfully ...

Our machines adopt the two stage compression technology, which not only increases the efficiency of compression, but also avoids the negative influence from the high discharge air ...

Why is the 2-stage reciprocating air compressor an essential high-pressure application? It works with air in two stages and offers higher efficiency and more performance compared to others. ...

Single and Multiple Stage Compressors As noted in the compressor descriptions, most compressor designs are available in single or multiple stage designs. ...

Desran Compressor is the leading air compressor manufacturer in China. Desran adopts German technology and has a wide range of air compressor products ...

Two Stage models feature a frequency-controlled cooling fan. This advanced system only operates when required and at the optimal speed, providing ...

Explore the advantages of rotary screw compressors: reliability, 100% duty cycle, low noise, energy savings, and more. Find the right compressor for your ...

Overview of Air Compressors If you're looking to purchase a 2 stage air compressor, it can be helpful to first understand how this type of ...

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OPTIMUM EFFICIENCY AND POWER SAVINGS Sullair Two-Stage Air Compressors feature a superior end-to-end design for optimum efficiency and ...

A two-stage compressor operating at the same pressure will have a compression ratio of 2.8 to 1 in each stage (2.8 is the square root of 7.9) achieving the compressor's power savings.

Two Stage Screw Compressor is a type of Rotary Screw Air Compressor that works in two different steps to acquire higher efficiency and pressure balances compared to ...

Whether in industrial manufacturing, construction, or energy production, our Two-Stage Screw Air Compressor caters to your needs. Offering precise control, efficient energy utilization, and ...

Unlike single-stage compressors, this advanced 100 HP air compressor integrates first- and second-stage compression into one air end, reducing energy consumption and improving output.



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A two-stage rotary screw air compressor contains two sets of gear-driven airends to maximize energy efficiency and increase reliability. The KRSP2 air compressor features efficient ...

CTS II - Series, a 2 Stage Screw Air Compressor Series to enhance the profitability of your production. The regulated speed models or VFD+ models ...

A two-stage air compressor will compress twice the amount of air, doubling the pressure and allowing for a cost effective and far more efficient way of handling any project that requires a ...

When it comes to efficient air compression, the two-stage compression screw air compressor stands out as a solution that combines both performance and reliability.

Find Out How Multistage Compressors Work, What's the Difference Between 3-stage and 2-stage Compressors, and What are the Pros of Multiple-Stage Applications.

Two-stage rotary screw air compressors are a transformative technology, offering substantial advantages over traditional single-stage air ...

Air compressors are indispensable in numerous industries, from woodworking and automotive repair to manufacturing and food processing. Among the many types of ...

Compared to single-stage compressors, a two-stage is much closer to isothermal compression. This is achieved by the injection of fresh oil between the stages ...

The cooled compressed gas enters the second-stage rotor, undergoes two-stage compression, and is compressed to the final exhaust pressure. Finally, the ...

Kaishan KRSP 2-Stage Industrial Rotary Screw Air Compressors are renowned for their quality engineering, performance, efficiency, and energy-saving ...

The ability to fine-tune the rotor of each stage allows for achieving an optimal linear speed range of 25 to 35 m/s, thereby maximizing ...

Two stage screw compressor H series: After the air is compressed in the first stage, it is cooled by enhanced oil injection to reduce the temperature of the second stage suction.

Two-stage compressor with parallel two-stage compression; the whole machine adopts a box structure, highlighting the humanized design and reserving a ...



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A two-stage rotary screw air compressor compresses air in two steps, improving efficiency, reducing heat, and delivering reliable high-pressure air for industries.

Kaishan JN Series Two-stage Compression Screw Air Compressor Adopting two stage compression main engine means adopting two sets of SKY screw rotors of different sizes to ...

Screw compressors are most commonly used because of their different advantages over other types of compressors, mainly for applications ...

Boost productivity & reliability with ELGi two-stage screw air compressor. Achieve optimal compressed air output for industrial applications. Find your ideal solution.

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