

Global Centrifugal Type MVR Compressor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Centrifugal Type MVR Compressor market size is expected to reach \$ 623 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

Centrifugal Type MVR Compressor refers to a mechanical vapor recompression machine that uses a centrifugal impeller, turbo fan or centrifugal blower structure to increase the pressure and temperature of secondary vapor, so that the vapor can be reused as a heating medium in industrial thermal processes. It includes centrifugal MVR compressors, MVR blowers and MVR fans under the same centrifugal or radial-flow compression principle. This product can recover low-grade vapor, reduce fresh steam consumption, lower operating energy cost and improve the thermal efficiency of evaporation, crystallization, drying and other heat-intensive processes. It is widely used in chemicals, food and beverage, pharmaceuticals, environmental protection, wastewater treatment, salt and mineral processing, pulp and paper, and other industrial fields requiring continuous vapor recycling and energy saving.

In 2025, global Centrifugal Type MVR Compressor production reached approximately 3,048 Units, with an average global market price of around US\$ 132 k per unit.

The upstream raw materials of Centrifugal Type MVR Compressors mainly include stainless steel, carbon steel, alloy steel, castings, forgings, impellers or rotors, shafts, bearings, seals, motors, etc. Major upstream suppliers may include ArcelorMittal, Baosteel Group, Nippon Steel, SKF, NSK, etc.

The downstream applications covered in this report are Evaporator, Crystallization, Dryer and Others. The typical customers including BASF, DuPont, etc.

The gross margin of Centrifugal Type MVR Compressors is at approximately 25%-40%.

By application, Centrifugal Type MVR Compressors are mainly used in Evaporator, Crystallization, Dryer and Others. In Evaporator applications, the compressor recompresses secondary vapor generated by evaporation and sends it back to the heating side of the evaporator, significantly reducing external steam demand and improving energy efficiency in wastewater concentration, food concentration, chemical solution concentration and pharmaceutical evaporation. In Crystallization applications, the product supports evaporation crystallization, salt recovery, brine concentration and zero-liquid-discharge systems, where continuous operation, corrosion resistance, stable pressure rise and high reliability are critical. In Dryer applications, it is used to recover and upgrade moisture vapor generated during drying, enabling heat reuse in sludge drying, pulp and paper, food drying, biomass drying and chemical drying processes.

Market Driving Factors for Centrifugal Type MVR Compressors include the rising pressure on industrial energy saving and carbon reduction, which increases demand for vapor heat recovery technologies; the high cost of steam, natural gas and electricity, which encourages plants to adopt high-efficiency thermal recycling equipment; stricter wastewater treatment and zero-liquid-discharge requirements, which drive demand for evaporation and crystallization systems equipped with centrifugal vapor recompression; the expansion of chemical, food, pharmaceutical and environmental protection industries, where continuous evaporation and drying processes require reliable energy-saving equipment; the increasing maturity of high-speed motors, centrifugal impellers, magnetic bearings, variable-frequency control and digital monitoring, which improves equipment efficiency and reliability; the growing preference for skid-mounted and modular systems, which shortens installation cycles and reduces engineering complexity; and the need for stable long-term operation in large industrial plants, where centrifugal equipment has advantages in large flow rate, continuous service and lower specific energy consumption.

Market Restraints for Centrifugal Type MVR Compressors include high initial investment, especially for high-speed, high-pressure, corrosion-resistant or customized systems; strong engineering dependence, because equipment selection must match vapor flow, temperature, pressure rise, medium composition and process control conditions; high technical requirements for impeller design, rotor dynamics, sealing, anti-surge control, vibration control and system integration; corrosion and scaling risks in high-salt wastewater, chemical evaporation and crystallization processes, which may increase material cost and maintenance requirements; sensitivity to operating condition

fluctuation, since unstable vapor load, entrained droplets or non-condensable gases may affect compressor efficiency and reliability; competition from roots blowers, screw compressors, thermal vapor recompression, multi-effect evaporation and conventional steam heating in certain low-pressure or cost-sensitive applications; and limited service capability in some regions, where lack of experienced commissioning, maintenance and spare-parts support may restrict adoption.

This report studies the global Centrifugal Type MVR Compressor production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Centrifugal Type MVR Compressor and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Centrifugal Type MVR Compressor that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Centrifugal Type MVR Compressor total production and demand, 2021-2032, (Units)

Global Centrifugal Type MVR Compressor total production value, 2021-2032, (USD Million)

Global Centrifugal Type MVR Compressor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Units), (based on production site)

Global Centrifugal Type MVR Compressor consumption by region & country, CAGR, 2021-2032 & (Units)

U.S. VS China: Centrifugal Type MVR Compressor domestic production, consumption, key domestic manufacturers and share

Global Centrifugal Type MVR Compressor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Units)

Global Centrifugal Type MVR Compressor production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Units)

Global Centrifugal Type MVR Compressor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Units)

This report profiles key players in the global Centrifugal Type MVR Compressor market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include PILLER, Chart Industries (Howden), GEA Wiegand, Leheng, Chongqing Jiangzeng, Jiangsu Jintongling, Turbovap, Atlas

Copco, LEKE, SANY, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Centrifugal Type MVR Compressor market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Units) and average price (K US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Centrifugal Type MVR Compressor Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Centrifugal Type MVR Compressor Market, Segmentation by Type:

High Mass Flow

Medium Mass Flow

Low Mass Flow

Global Centrifugal Type MVR Compressor Market, Segmentation by Temperature Lift:

Low Temperature Lift MVR Compressors

Medium Temperature Lift MVR Compressors

High Temperature Lift MVR Compressors

Global Centrifugal Type MVR Compressor Market, Segmentation by End-Use Industry:

Chemical Industry

Food and Beverage

Environmental Industry

Others

Global Centrifugal Type MVR Compressor Market, Segmentation by Application:

Evaporator

Crystallization

Dryer

Others

Companies Profiled:

PILLER

Chart Industries (Howden)

GEA Wiegand

Leheng

Chongqing Jiangzeng

Jiangsu Jintongling

Turbovap

Atlas Copco

LEKE

SANY

Hanwha Power Systems

TLT-Turbo GmbH

Boldrocchi Group

Key Questions Answered:

1. How big is the global Centrifugal Type MVR Compressor market?
2. What is the demand of the global Centrifugal Type MVR Compressor market?
3. What is the year over year growth of the global Centrifugal Type MVR Compressor market?
4. What is the production and production value of the global Centrifugal Type MVR Compressor market?
5. Who are the key producers in the global Centrifugal Type MVR Compressor market?
6. What are the growth factors driving the market demand?

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