

WITTIG

by Gardner Denver

Glass Industry Solutions

Wittig Rotary Vane Compressors & Vacuum Pumps





“Reduced energy consumption, increased uptime, lower total cost, and the **sheer reliability of air delivery**”

Wittig Rotary Vane Compressors & Vacuum Pumps **for the Glass Industry**

Wittig has been a trusted partner in providing pressure and vacuum for the glass industry for more than 50 years. Machines supplied and commissioned in 1965 are still running today!

The industrial production of packaging and bottle glass requires a special breed of compressor and vacuum pump, because of the very high quantities required. It is essential that the production site is able to keep up with this high demand, as the process does not allow for downtime – systems typically operate 24/7, 365 days of the year.

Large volumes of compressed air and vacuum are required. Therefore, it is crucial that all units and components are high quality and extremely reliable. Equipment failure during production invariably results in enormously high costs.

Rotary Vane Technology

- High volumetric efficiency allows low speed of only 900 - 1780 r/min
- 2 bearings – no axial forces
- Very low heat loss
- Low energy consumption
- Bearings can be changed on site
- Perfect lubrication with oil film between vanes and housing (no wear)
- Pulsation free compression
- Low maintenance
- High durability

Wittig combines unique design features and engineering refinement to deliver real advantages for our customers. The advantages include reduced energy consumption, increased uptime, lower total cost, and the sheer reliability of air delivery, when the pressure is on.

For continuous 24-hour operation, rotary vane compressors and vacuum pumps offer the best solution.



Rotary Vane Compressors

Rotary Vane Air Compressors offer 250 – 6000 m³/h and 2 – 14 barg.

Oil-injected rotary vane compressors Wittig RO L & Wittig RO L Topline

- Flow rate from 250 to 6000 m³/h
- Low maintenance
- Low pulsation
- Little oil carry over
- Low life-cycle costs
- Direct driven
- Low speed
- Available with microprocessor monitoring and control systems
- Microprocessor control Wittig MPC 3010 as standard

RO L series

The RO L series compressed air rotary vane compressors are air-cooled or water-cooled and come in the following sizes: 170, 230, 300, 370, 460, 600, 740 and 920.

RO L Topline

The RO L Topline compressor series is a particularly compact design. It is available in either air or water-cooled versions. In addition to providing the necessary oil cooling, the built-in multifunctional cooler reduces exhaust gas temperatures to approximately 15°C above the ambient temperature. The series provides maximum energy efficiency. They also have a variable speed drive because of their frequency converters. Available in sizes 50, 65, 75, 85, 100, 120 and 150.



Cost Efficiency

- High efficiency at high availability
- Low energy consumption
- Exceptional safety standard
- Optional heat recovery
- Up to 100,000 operating hours without overhaul
- Long service life of bearings and rotors
- Bearings can be changed on site
- Easy to install

Technology

- Maximum compression – final pressure from 2.0 to 14 barg
- Compressor designed for optimum energy efficiency at the specified operating point
- Direct drive via coupling
- Low residual oil content: 0.8 to 3 mg / m³
- Maximum reduction of residual oil content to 0.003 mg / m³ using post-filters
- Frequency between 30 and 60 Hz
- Limp-home capability
- Single shaft: simple and rugged design, few rotating parts
- Low rotational speed of 1,480 rpm
- Low noise and vibration
- Small footprint & foundation-free installation

Performance





Vacuum Pumps

Our Wittig series WPSO vacuum pumps offer the world's most durable and efficient solution to vacuum generation in the bottle glass industry. The WPSO series has by far the lowest life cycle costs for glass plants. As an overview, rotary vane vacuum pumps provide between 720 and 4500 m³/h and between 10 and 200 mbar abs.

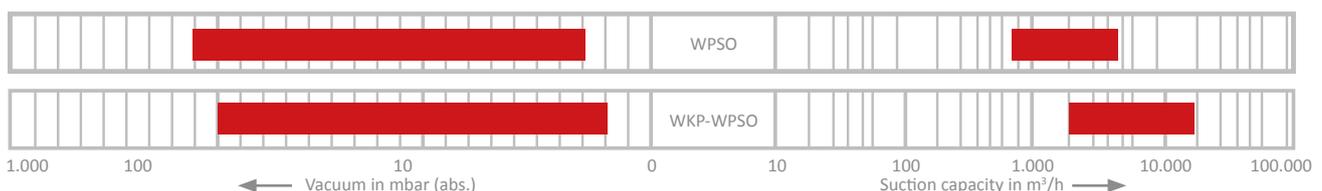
Vacuum pumps Wittig WPSO

- Effective suction capacities to 4500 m³/h
- High efficiency
- Low maintenance and easy to service
- Robust construction
- Few moving parts
- Microprocessor control Wittig MPC 3010 as standard
- Low speed

Vacuum pumping units Wittig WKP-WPSO

- Effective suction capacities to 18000 m³/h
- Low power requirement
- Small footprint
- Low life cycle cost

Performance



WITTIG

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Genuine parts and professional services delivering total peace of mind

Gardner Denver's vast international network of engineers, service professionals and distribution, ensures total peace of mind with quality genuine spare parts and lubricants designed for optimum performance and efficiency – despatched within hours of ordering – supplied and fitted by maintenance experts who work as part of your team.

Genuine parts and professional services that guarantee more uptime, better performance and deliver value for money that affects your bottom line.

Rotary vane technology – designed, manufactured and supplied by Wittig.

- Replacement part deliveries within 24 hours for stocked parts
- Service kits
- Personalised maintenance and service contracts
- Complete and fully qualified overhauls of your compressed air system
- Service training of customers with competent advice in the construction, operation and maintenance of machinery

Gardner Denver **Industrials** The **Ultimate** Technology Choice

Gardner Denver Industrials designs, manufactures, markets and services rotary screw, reciprocating and sliding vane compressors in addition to multistage and positive displacement, centrifugal and blowers.

The end market sectors served by Gardner Denver Industrials are primarily industrial manufacturing, transportation, energy, mining, construction, environmental, plus food and beverage. Gardner Denver Industrials delivers the broadest range of compressors and vacuum products, in a wide array of technologies, to end-user and OEM customers worldwide.

The global offering also includes innovative service and warranty programmes.

Industrials is part of Gardner Denver, Inc., a leading global manufacturer of highly engineered, critical flow-control products. Gardner Denver is headquartered in Milwaukee, Wisconsin, USA and has facilities in more than 30 countries.

www.gardnerdenver.com/industrials

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Gardner Denver policy is one of continuous improvement and we therefore reserve the right to alter specifications and prices without prior notice.

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