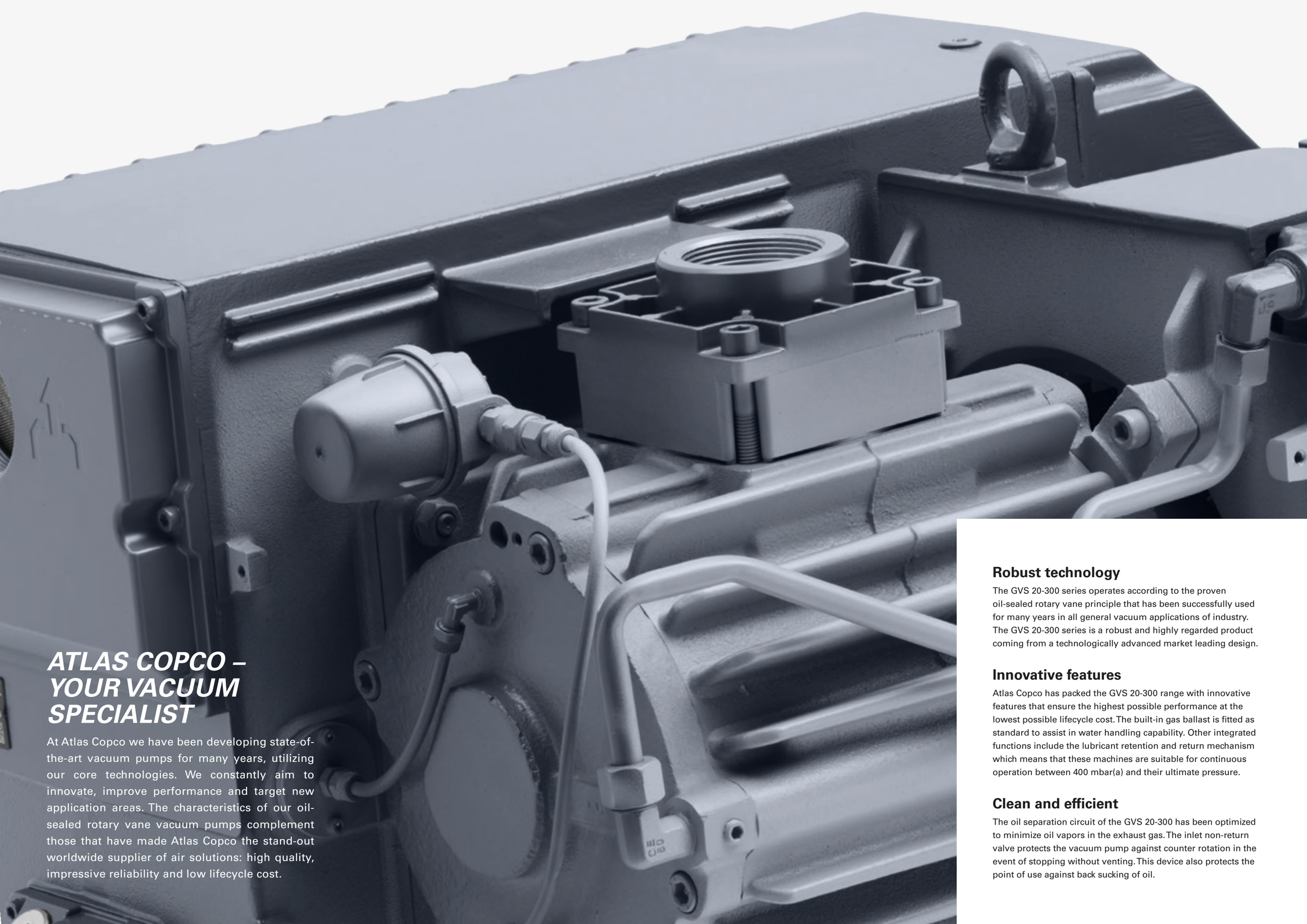
OIL-SEALED ROTARY VANE VACUUM PUMPS

GVS 20-300, 20-365 m^3/h, 12-215 cfm

Atlas Copco



ATLAS COPCO – YOUR VACUUM SPECIALIST

At Atlas Copco we have been developing state-of-the-art vacuum pumps for many years, utilizing our core technologies. We constantly aim to innovate, improve performance and target new application areas. The characteristics of our oil-sealed rotary vane vacuum pumps complement those that have made Atlas Copco the stand-out worldwide supplier of air solutions: high quality, impressive reliability and low lifecycle cost.

Robust technology

The GVS 20-300 series operates according to the proven oil-sealed rotary vane principle that has been successfully used for many years in all general vacuum applications of industry. The GVS 20-300 series is a robust and highly regarded product coming from a technologically advanced market leading design.

Innovative features

Atlas Copco has packed the GVS 20-300 range with innovative features that ensure the highest possible performance at the lowest possible lifecycle cost. The built-in gas ballast is fitted as standard to assist in water handling capability. Other integrated functions include the lubricant retention and return mechanism which means that these machines are suitable for continuous operation between 400 mbar(a) and their ultimate pressure.

Clean and efficient

The oil separation circuit of the GVS 20-300 has been optimized to minimize oil vapors in the exhaust gas. The inlet non-return valve protects the vacuum pump against counter rotation in the event of stopping without venting. This device also protects the point of use against back sucking of oil.

IDEAL FOR ALL YOUR VACUUM NEEDS

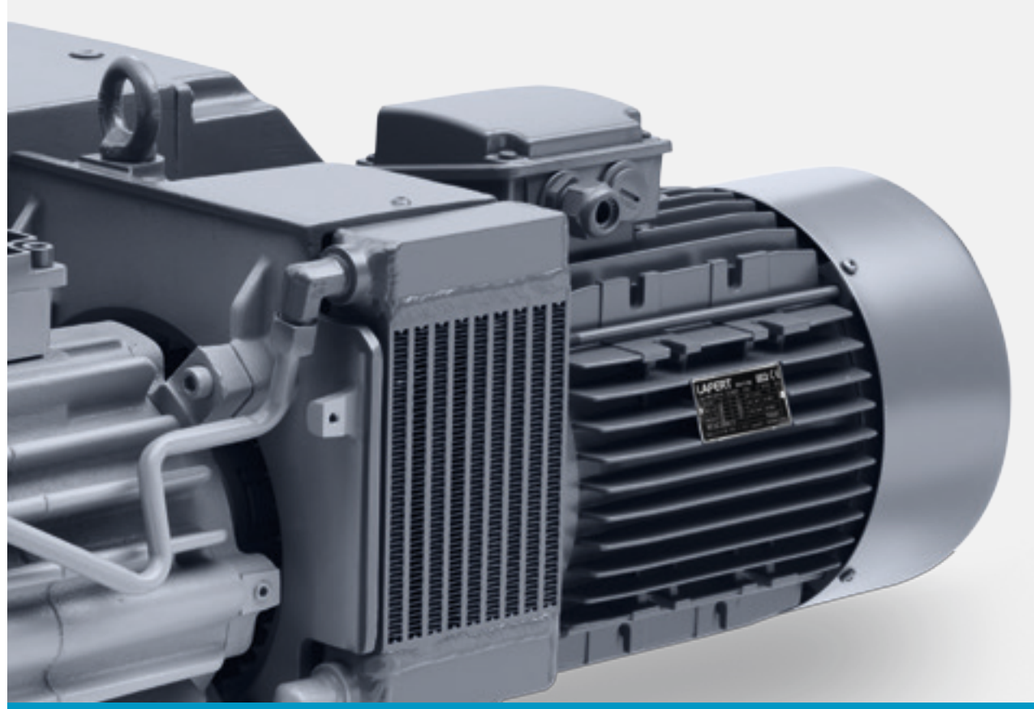
Providing highly efficient vacuum pumping performance, the GVS 20-300 series is ideal for critical applications in packaging, woodworking, rubber, plastics, electronics, paper & printing, material handling and other exacting industries. Moreover, with eight models offering pumping speeds of between 20 and 365 m^3/h (at 60 Hz), you will definitely find the right model for your specific application. Larger capacity needs can be accommodated with the Atlas Copco GHS.

Benefits you can count on

- Easy to install due to compact, space-saving design.
- High reliability through a rugged design and optimal oil retention at all operating pressures.
- Low maintenance and wear due to optimally selected shaft speeds.
- Low noise and vibration levels throughout the pressure range.
- Dimensional information is available on the product specific datasheet.

Ready to use

GVS 20-300 rotary vane vacuum pumps come complete with all the options and accessories you are likely to need for general rough vacuum applications. In case you have a unique vacuum need, please ask the Atlas Copco representative to help you select the best solution.



A MULTITUDE OF APPLICATIONS

GVS 20-300 oil-sealed rotary vane vacuum pumps are perfect for a range of demanding applications:

- **Packaging**:
  - Food processing: general packaging, cheese processing, vacuum cooling of produce.
  - Meat packing: fresh and cooked meats, poultry, modified atmosphere packaging, tumbling, filling and sealing.
- **Woodworking**:
  CNC cutting and routing, loading and unloading systems.
- **Rubber and plastics**:
  thermoforming applications, extruder barrel degassing, mold degassing, material handling.
- **R&D systems**:
  central laboratory vacuum.
- **Electronics**:
  pick and place components, PCB manufacture, central vacuum systems.
- **Material handling**:
  vacuum lifting, pick and place, bulk material transfer, pneumatic conveying, bottling, canning, vacuum sewage.
- **Paper and printing**:
  presses (sheet fed, offset, etc.), bindery equipment including stitching lines and perfect binding, newspaper production, envelope machines.
- **Medical vacuum**:
  various evacuation duties.
- **Environmental**:
  ground remediation etc.

A humid version is available which is suitable for high water content duties, for applications such as plastics, clay molding, drying pipelines, salad cooling, freeze drying etc.

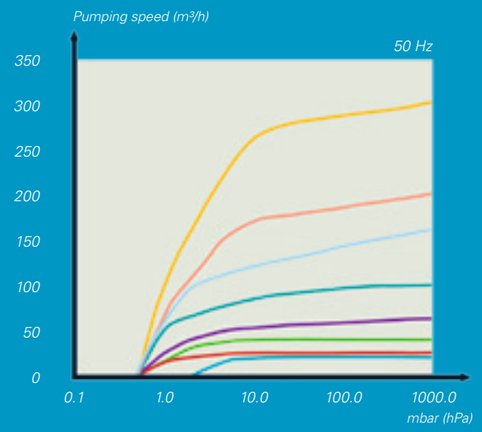
In case your application is not listed or you are considering whether your application will produce the benefits often associated with centralizing your vacuum supply, please contact your local Atlas Copco representative to discuss the suitability of the GVS range of vacuum pumps for your specific application.

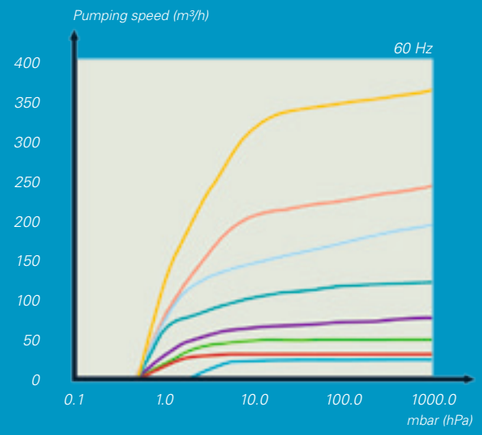
SCOPE OF SUPPLY

Your vacuum pump comes complete with all you require for a vast number of applications.

- Oil separator
- Gas ballast
- Motor
- Inlet non-return valve
- Fill of oil shipped separately

Performance curves*





GVS 300 · GVS 200 · GVS 150 · GVS 100
GVS 60 · GVS 40 · GVS 25 · GVS 20

** With gas ballast open.*
Pump performance measured at the inlet pressure and 20°C. Accuracy is +/- 10%.

TECHNICAL SPECIFICATIONS

PUMP TYPE OIL SEALED ROTARY VANE	Pumping speed		Ultimate pressure (1)		Motor size		Water handling capability		Motor supply specification
					1 ph	3 ph	Vapor limit		
	m³/h	cfm	mbar (hPa)	torr	kW	kW	mbar	kg/h	
GVS 20	20	11.7	2	1.50	0.75	Optional	15	0.25	1 - 220-240V 50Hz
	24	14.1	2	1.50	0.9	Optional	15	0.25	1 - 220-240V 60Hz
GVS 25	25	14.7	0.5	0.38	0.75	0.75	40	0.7	1 - 220-240V 50Hz
	29	17.0	0.5	0.38	0.9	0.9	40	0.7	1 - 220-240V 60Hz
GVS 40 (3)	40	23.5	0.1	0.38	1.1	1.1	14/40 (2)	0.5/1.3 (2)	3 - 175-260/300-450V 50Hz
	48	28.3	0.1	0.38	1.35	1.35	14/40 (2)	0.5/1.3 (2)	3 - 200-300/346-520V 60Hz
GVS 60 (3)	60	35.3	0.1	0.38	-	1.5	14/50 (2)	0.7/2.4 (2)	3 - 175-260/300-450V 50Hz
	72	42.3	0.1	0.38	-	1.8	14/50 (2)	0.7/2.4 (2)	3 - 200-300/346-520V 60Hz
GVS 100 (3)	106	62.3	0.1	0.38	-	2.2	11/40 (2)	1/3.2 (2)	IE2 motor 3 - 230, 400/265, 460V 50/60Hz
	127	74.7	0.1	0.38	-	2.7	11/40 (2)	1/3.2 (2)	IE2 motor 3 - 208-230, 460V 60Hz
GVS 150 (3)	151	88.8	0.1	0.38	-	3.3	11/50 (2)	1.4/5 (2)	IE2 motor 3 - 230, 400/265, 460V 50/60Hz
	181	106.5	0.1	0.38	-	3.7	11/50 (2)	1.4/5 (2)	IE2 motor 3 - 208-230, 460V 60Hz
GVS 200	205	120.7	0.5	0.38	-	5.5	25	3.5	IE2 motor 3 - 230, 400/265, 460V 50/60Hz
	245	144.2	0.5	0.38	-	6.6	25	3.5	IE2 motor 3 - 208-230, 460V 60Hz
GVS 300	305	179.5	0.5	0.38	-	7.5	25	5	IE3 motor 3 - 230, 400V 50Hz
	365	214.8	0.5	0.38	-	8.6	25	5	IE2 motor 3 - 208-230, 460V 60Hz

(1) For standard version, with gas ballast valve open. All units achieve better than 0.5 mbar (except GVS 20).
(2) High water handling capability.
(3) Humid version available: higher ultimate pressure of 4 mbar applies.

COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time. This is what we call – Sustainable Productivity.

LLOYD'S REGISTER · LRQA

ISO 9001 · ISO 14001
OHSAS 18001

Atlas Copco

www.atlascopco.com/vacuum

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