



# Company

For 60 years PVR has been a leader providing high quality and reliable vacuum pumps. PVR means primarily trusted and advanced technologies, but also sustainable development for the stakeholders, environmental protection and focus on energy saving. The experience acquired during these years of activities, allows PVR to offer products and services that are always reliable and innovative.



## Machining Division

With a view to verticalization of its processes and increased capacity to provide more services to customers, PVR has had a specialized Machining Division for brass, steel, cast iron, stainless steel, and aluminum components since 2023.

Professionalism, experience, and quality characterise PVR Machining Division in the machining of numerous parts for vacuum pumps and components in the industrial, automotive, petrochemical, hydraulic, and electrical sectors.



## Service

PVR guarantees a qualified advice for every inquiry thanks to its skilled technical/sales office that supports every project. The Service Department assists and advises our customers with scheduled maintenance, qualified overhauls and spare parts ready for delivery.

**PVR Srl**  
**HEADQUARTERS:**

Via Santa Vecchia, 107 - 23868 Valmadrera (LC), Italy

+39 0341 1918 51

[sales@pvr.it](mailto:sales@pvr.it)

[www.pvr.it](http://www.pvr.it)

**SERVICE:**

+39 339 1495 976

[service@pvr.it](mailto:service@pvr.it)

**LOCAL UNIT:**

Via IV Novembre, 104F  
23868 Valmadrera (LC), Italy



**MACHINING DIVISION:**

Via Grandi, 12 Loc. Malpensata  
26866 Sant'Angelo Lodigiano (LO), Italy

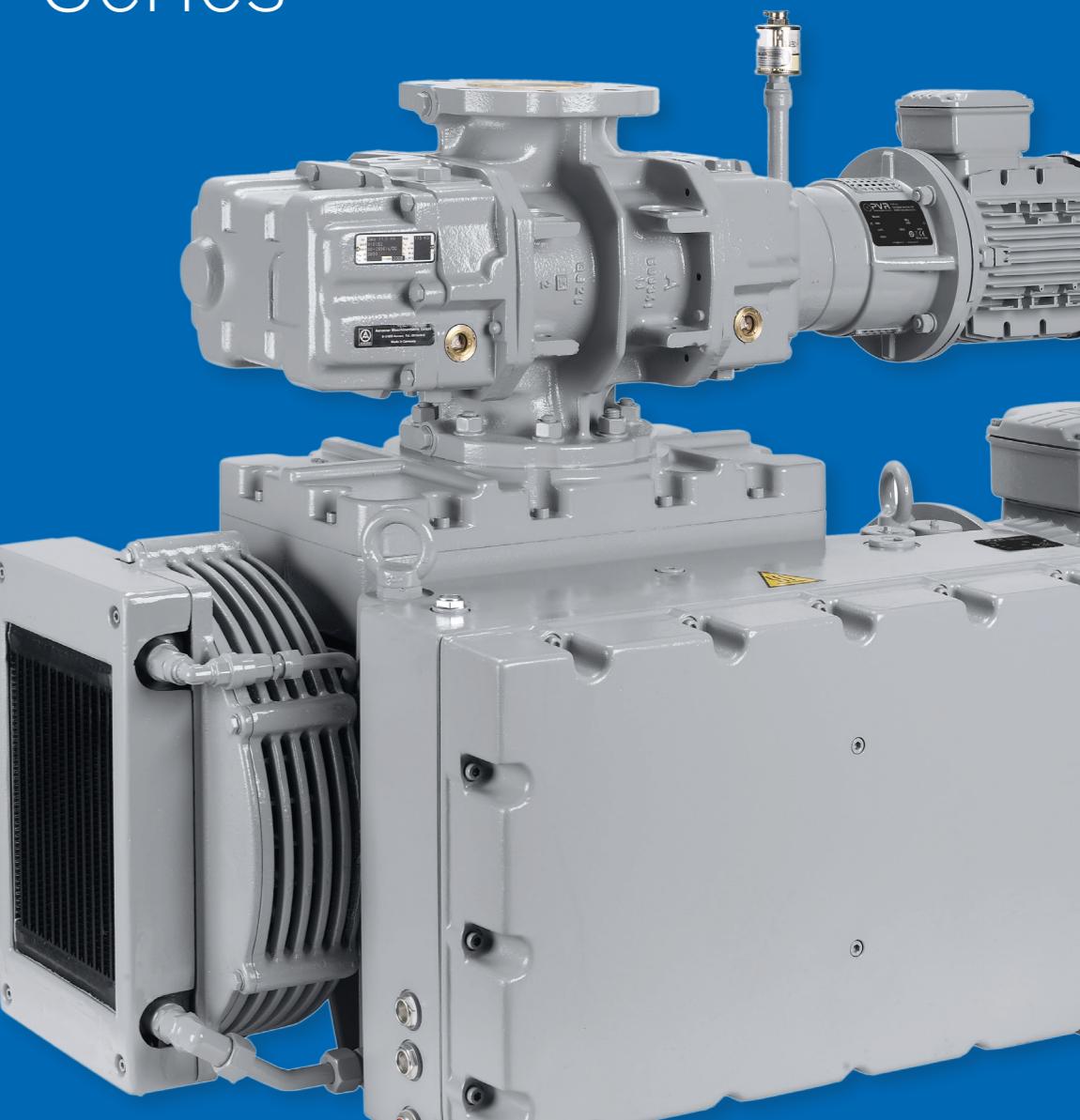
012500-EN



Provide trusted & advanced technologies



## Vacuum Pump Systems GC - GV Series



[www.pvr.it](http://www.pvr.it)

# GC Series

## Compact vacuum systems

Given the proven performance and reliability of our oil lubricated vacuum pumps and HV Roots vacuum pumps we have designed compact pumping groups that conveniently combine high performance and reduced footprint.

The GC vacuum systems can be supplied with electric control panel compliant with EC standards, inlet filters and process control options. The systems with bypass valve (GC-BP) allow the Roots pump to start against atmospheric pressure.

The GC systems are also available in the version regulated by VFD (Variable Frequency Drive).

GC 12.6-541



GC 13.f7-650



		GC-GV 11.3-401	GC-GV 11.4-541	GC-GV 12.5-401	GC-GV 12.6-541
<b>Pump type</b>	(1)	GMa11.3HV	GMa11.4HV	GMa12.5HV	GMa12.6HV
	(2)	PVL401	PVL541	PVL401	PVL541
<b>Nominal pumping speed</b>	m <sup>3</sup> /h	50 Hz 452 60 Hz 542	655	860	1200
			786	1030	1440
<b>Ultimate pressure</b>	mbar		≤ 2x10 <sup>-2</sup>	≤ 2x10 <sup>-2</sup>	≤ 2x10 <sup>-2</sup>
<b>Motor power</b>	kW	50 Hz 2,2+7,5 60 Hz 2,2+11	3+11	4+7,5	5,5+11
<b>Noise level</b>	dB(A)	50 Hz 79 60 Hz 80	79	79	80
<b>Weight</b>	kg	50 Hz 435 60 Hz 474	505	535	610
			537	589	642

GC-GV 12.6-650	GC-GV 13.f7-650	GC-GV 13.8-650	GC-GV 12.5BP-401	GC-GV 12.6BP-541
GMa12.6HV	GMa13.f7HV	GMa13.8HV	GMa12.5HV/BP	GMa12.6HV/BP
EU650M	EU650M	EU650M	PVL401	PVL541
1430	2000	2890	860	1200
1720	2400	3465	1030	1440
≤ 2x10 <sup>-2</sup> (≤ 7x10 <sup>-3</sup> )*	≤ 2x10 <sup>-2</sup> (≤ 7x10 <sup>-3</sup> )*	≤ 2x10 <sup>-2</sup> (≤ 7x10 <sup>-3</sup> )*	≤ 2x10 <sup>-2</sup>	≤ 2x10 <sup>-2</sup>
5,5+15	7,5+15	11+15	3+7,5	4+11
5,5+18,5	7,5+18,5	11+18,5	3+11	4+15
76	77	78	79	80
78	79	80	80	81
867	919	1051	542	630
936	985	1139	588	676

(1) Roots pump / (2) Vane vacuum pump / \*Value reached in combination with our H pump series.

# GV Series

## Vacuum systems

Vacuum systems have been designed for those customers who need to couple vane vacuum pumps to Roots pumps. This solution allows to achieve higher capacity with higher ultimate pressure (up to  $7 \times 10^{-3}$  mbar) in a relatively small space.

Technical features of the system can be tailor-made according to customer's requirements.

PVR can develop vacuum systems choosing among the different technologies of the pumps of its production with ad hoc solutions. The GV systems are also available in the version regulated by VFD (Variable Frequency Drive).

GVZ 12.6-11.3 S300



GV12.6-350S



Available Technologies:



## Applications

Packaging machines  
Vacuum chambers  
Thermoforming machines  
Deaeration tunnels

Freezing chambers  
Dryers  
Oil decontamination  
Chemical processes

Leak detectors  
Laboratories  
Metallizing  
Heat treatments

Lamps and bulbs  
Solar panels  
LCD panels  
Autoclaves

Degassing materials  
Solvent recovery systems  
Distillation systems  
Drying transformer systems

Centralized vacuum plants  
Motor/transformer impregnation process

