

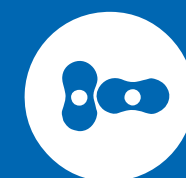


Company

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.



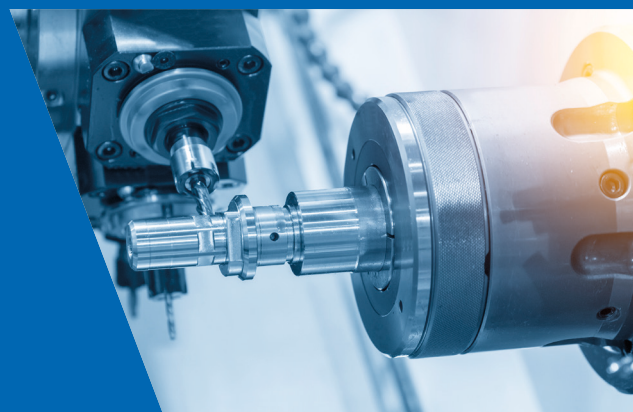
Provide trusted & advanced technologies



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.



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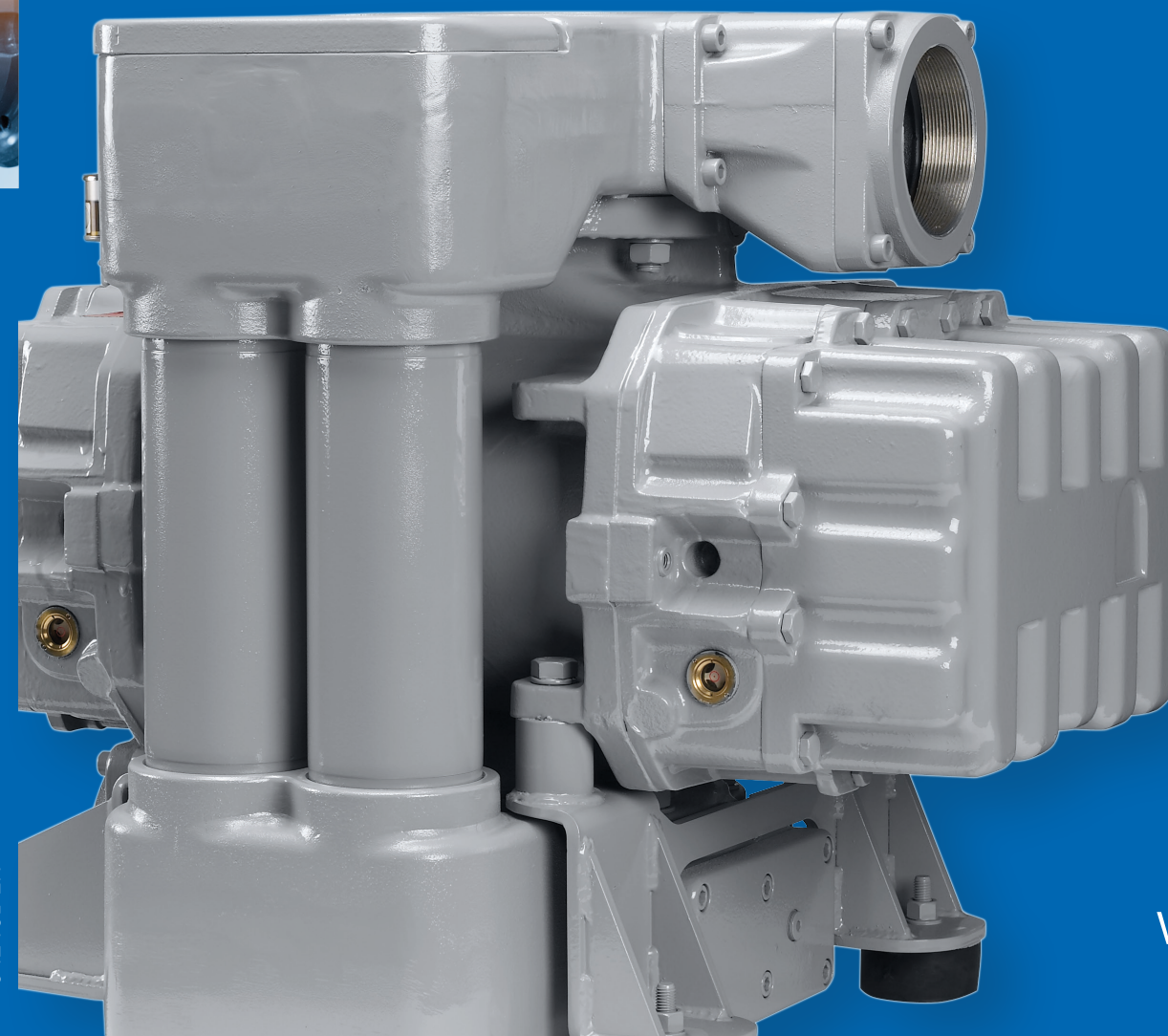
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23868 Valmadrera (LC), Italy

MACHINING DIVISION:

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042401-EN



Rotary Lobe Vacuum Pumps **HV - HV/BP** Series



www.pvr.it

HV Series

Roots pumps for high vacuum

Vacuum blowers HV Series have been designed for conveying air and neutral gases and are especially used in industrial high vacuum technology. With its extended range of models, a nominal capacity from 180 m3/h to 97.000 m3/h is covered. The pressure ranges from 10-3 mbar up to approx. 200 mbar abs.

Applications

Packaging machines
Vacuum chambers
Thermoforming machines
De-aeration tunnels
Freezing chambers
Dryers
Oil decontamination
Chemical processes

Degassing materials
Drying medicinal products
Solvent recovery systems
Distillation systems
Drying transformer systems
Lamps and bulbs

Semiconductors
Solar panels
LCD panels
Motor/transformer impregnation process
Autoclaves
Leak detectors

Laboratories
Thermoforming packaging machines
Metallizing
Heat treatments
Central vacuum systems

			GMa 10.0 HV	GMa 10.1 HV	GMa 10.2 HV	GMa 11.3 HV	GMa 11.4 HV	GMa 12.5 HV
Nominal pumping speed	m³/h	50 Hz	180	250	365	500	750	1000
		60 Hz	220	300	450	600	900	1200
Δp standard motor power*	mbar	50 Hz	130	140	130	140	130	130
		60 Hz						
Standard motor power	kW	50 Hz ~ 3	0,75	1,1	1,5	2,2	3	4
		60 Hz ~ 3	-	-	-	-	-	-
Motor speed	min ⁻¹	50 Hz	3000	3000	3000	3000	3000	3000
		60 Hz	3600	3600	3600	3600	3600	3600
Dimensions	mm	L x B x H	780x332x264	816x332x264	933x332x264	951x390x320	1100x390x320	1118x440x360
Total weight	kg	Bareshaft	95	105	125	150	180	230

* Variable according to the installed motor power

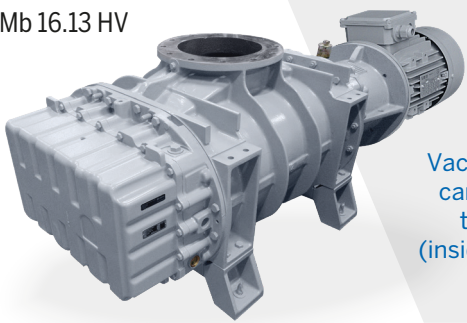
			GMa 11.3 HV/BP	GMa 11.4 HV/BP	GMa 12.5 HV/BP	GMa 12.6 HV/BP	GMa 13.7 HV/BP	GMa 13.8 HV/BP
Nominal pumping speed	m³/h	50 Hz	500	730	1000	1400	2000	2840
		60 Hz	600	880	1200	1700	2400	3420
Ultimate pressure(abs)*	mbar	50 Hz	≤ 0,02	≤ 0,02	≤ 0,02	≤ 0,02	≤ 0,02	≤ 0,02
		60 Hz						
Motor power	kW	50 Hz ~ 3	1,5	2,2	3	4	5,5	7,5
		60 Hz ~ 3	2,2	3	4	5,5	7,5	11
Motor speed	min ⁻¹	50 Hz	3000	3000	3000	3000	3000	3000
		60 Hz	3600	3600	3600	3600	3600	3600
Noise level	dB(A)	50 Hz	71	71	72	72	75	75
		60 Hz	72	72	73	73	76	76
Dimensions	mm	L x B x H	928x418x446	1053x443x446	1099x463x496	1220x496x510	1272x550x633	1412x563x633
			953x418x446	1098x443x446	1108x463x496	1277x496x510	1272x550x633	1575x563x633
Weight	kg	50Hz	178	184	232	295	387	513
		60Hz	184	189	246	317	410	526



Also available in VFD version
Variable Frequency Drive



Gmb 16.13 HV



HV EX Special Series

Roots pumps for Atex environments

Vacuum pumps HV Series as well as vacuum pumps with canned motor CM series have been approved according to directive 2014/34/EU and certified for Atex Zone 0 (inside), temperature class T3 (200°C). They are certified for zone 1 outside, temperature class T4 (135°C).

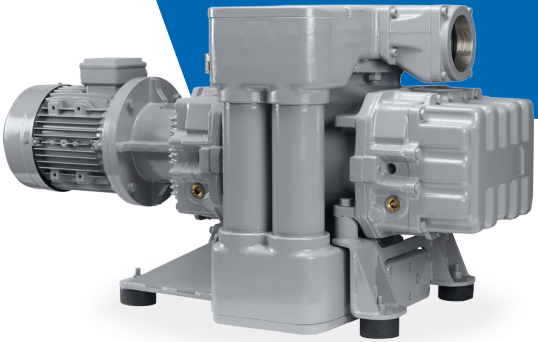
GMa 12.6 HV	GMa 13.7 HV	GMa 13.8 HV	GMb 14.9 HV	GMb 15.10 HV	GMb 15.11 HV	GMb 16.13 HV	GMb 16.13 HV	GMb 17.15 HV
1430	2000	2900	3900	5600	7500	8150	9750	16000
1700	2400	3450	4700	6700	9000	9800	11700	18825
130	110	90	80	80	80	75	75	35
5,5	7,5	11	11	15	18,5	18,5	22	30
-	-	-	-	-	-	-	-	-
3000	3000	3000	3000	3000	3000	1500	1500	1500
3600	3600	3600	3600	3600	3600	1800	1800	1800
1289x500x360	1276x570x400	1560x570x400	1606x652x500	1629x800x630	1813x800x630	2036x910x710	2204x910x710	2421x930x1000
295	345	485	580	770	840	1350	1400	2300

HV/BP Series

Roots vacuum pumps with bypass valve

Roots vacuum pumps HV/BP Series complete with bypass valve are mainly used coupled to a backing pump to speed up pumping down times and to achieve vacuum level up to 0.02 mbar abs.

The bypass valve allows to start the Roots pump at the same time as the backing pump, protecting the Roots pump from any operation at high overpressure.



GMa 13.7 HV/BP

