

AGP®



VP140 Vacuum Pump and Vacuum Base System

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Internal & Confidential

AGP® | VP140 Vacuum Pump

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Introduction

Target group & Applications

VP140 Introduction

The VP140 is a compact, yet potent vacuum pump. It incorporates many unique features which make it a safer and more effective unit. It of course has a built-in vacuum gauge and water separator, but it also has integrated power supply for the power tool. The connected power tool will only receive power when the prescribed vacuum is achieved. If there is a leak and vacuum is decreasing, the power tool's power will be shut off for safety. In addition, there is a built-in warning buzzer, which will signal the operator whenever the vacuum is not sufficient. The motor unit is a brushless induction type which can run for long duty cycles, and it is rated at IPX4 water resistance. We recommend the use of the separate vacuum tank for an additional level of security.

Target Groups and Applications

The VP140 is primarily used in conjunction with a vacuum base, such as the VB400 for fixing drillstands to the work surface. This saves time, since drilling and setting an expansion anchor is not necessary, which makes stitch drilling a dream. It also leaves the work surface unmarked, which may be important in some situations, such as when there are expensive coatings, such as porcelain or stone cladding. In addition, The VP140 can be used with the vacuum base adapter for our magnetic drills, as well as any competitors' vacuum bases.

The VP140 + VB400 vacuum fixing system serves well for both wet and dry diamond core drilling, and is a useful addition to the equipment of specialist drilling companies, general construction companies, plumbers, electricians, HVAC installers, or anyone who needs a reliable vacuum fixing system for their diamond core drilling needs.



Applications



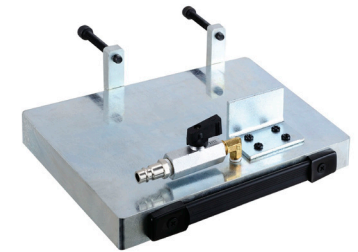
VP140 Vacuum Pump



Vacuum Tank



VB400 Vacuum base



Mag Drill Vacuum Base



Sales Arguments



Integrated Power Socket

Only supplies the connected power tool when the vacuum is at the proper level.



Warning Buzzer

Auditory warning whenever the vacuum is less than the proper level.



Safety Reset Button

The connected power tool must also be intentionally energized by pressing the button before use.



Vacuum Gauge

Built-in vacuum gauge alerts operator to vacuum conditions



Water-Resistant Design

IPX4 water resistant construction and brushless motor.



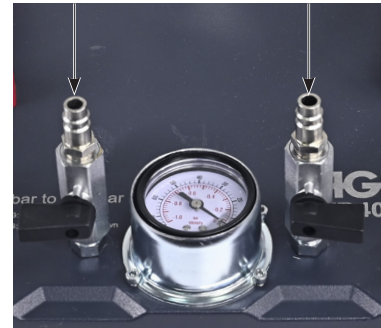
Quick-Release Fittings

Quick-release fittings for faster setup.

VB400 Vacuum Base Sales Arguments



Large area of base allows superior holding power. Rated for drilling up to 450 mm diameter.



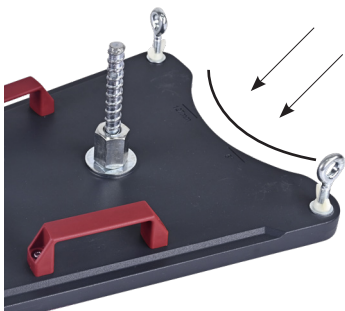
Dual valves give a lot of versatility. They allow more than one base to be connected in series. They also allow controlled release and repositioning of the base while keeping a head of vacuum in the vacuum tank.



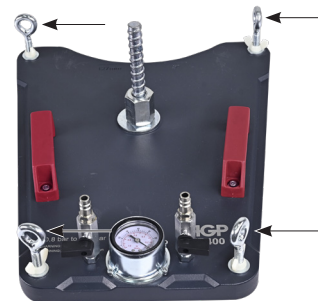
Built-in vacuum gauge allows the operator to directly monitor vacuum conditions.



Built-in quick nut anchor for securely mounting the drill stand.

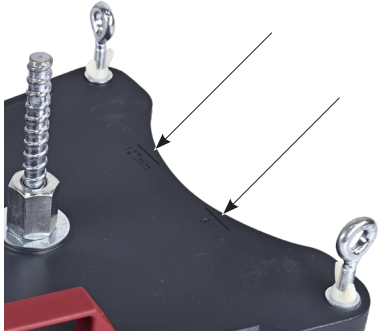


Half-moon cut-out allows larger bits and maximum holding power, providing maximum support as close as possible to the core bit.



Tool-free levelling screws

VB400 Vacuum Base Sales Arguments



Inscribed distance markings simplify set-up.



Dual handles help in establishing initial sealing.

The VB400 is compatible with the following AGP drill stand models



S170



AS200



NS250



S350



S500



QS600

Technical Specifications

Model	VP140
Power Input	200 W
Voltage, Frequency	220-240 V~ 50-60 Hz, or 110-120 V~ 50-60 Hz
Air Flow	30.5 l/min (1.07 cfm)
Max. Vacuum	- 0.9 bar (-13 psi)
Ingress Protection	IPX4
Dimensions (LxWxH)	310 x 238 x 250 mm
Weight	6.7 kg (14.8 lb)

- ① VP140 Vacuum Pump
- ② Vacuum Gauge
- ③ Power Supply Socket
- ④ Warning Buzzer
- ⑤ Quick-Release Fitting
- ⑥ Safety Reset Button
- ⑦ On-Off Switch
- ⑧ Water Separator Drain
- ⑨ 2.5 m Vacuum Hose with Quick-Release Fittings



Offer Content

Standard Accessories

- ① VP140 Vacuum Pump
- ② Hose, 2.5 m

Optional Accessories

- ③ Vacuum Tank w/ hose
- ④ VB400 Diamond Coring Vacuum Base
- ⑤ Mag Drill Vacuum Base



①

②

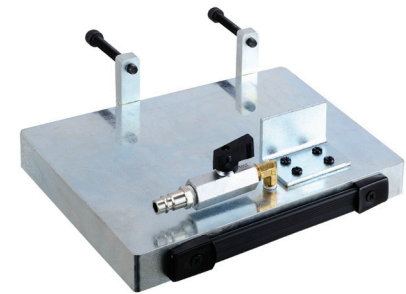


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④



⑤



The Vacuum Tank increases the volume of vacuum in the system, which allows the vacuum base to hold longer in the case of a power failure.

Comparison Table

Brand

AGP

CARDI

Husqvarna

METZGER Technik

TYROLIT

DR. SCHULZE

HILTI

























Model	VP140 + Tank	PV 4-S	VP200	Beta 0150	VPE 600	VP 80	DD VP-U
Power	200 W	120 W	550 W	400 W	400 W	200 W	450 W
Flow Rate	30.5 l/min	66.7 l/min	240 l/min	100 l/min	100 l/min	80 l/min	100 l/min
Max. Vacuum	-0.9 bar	-2.0 bar	-0.8 bar	-0.9 bar	-0.9 bar	-0.9 bar	-0.7 bar
Weight	6.7 kg	11.0 kg	19 kg	12.0 kg	12.0 kg	10.0 kg	9.0 kg
Vacuum Tank	Separate	Integrated	Integrated in frame, 5 L	Integrated	Integrated	Integrated	Integrated
Power Supply Socket	Yes (vacuum dependant)	No	No	No	No	No	No
Low Vacuum Alert	Yes (buzzer)	No	No	No	No	No	No
Vacuum Gauge	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Water Trap	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Quick-Release Couplings	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Street Price (w/o tax)		1 005,00 €	690,00 €	991,60 €	1 013,66 €	962,50 €	1 399,34 €

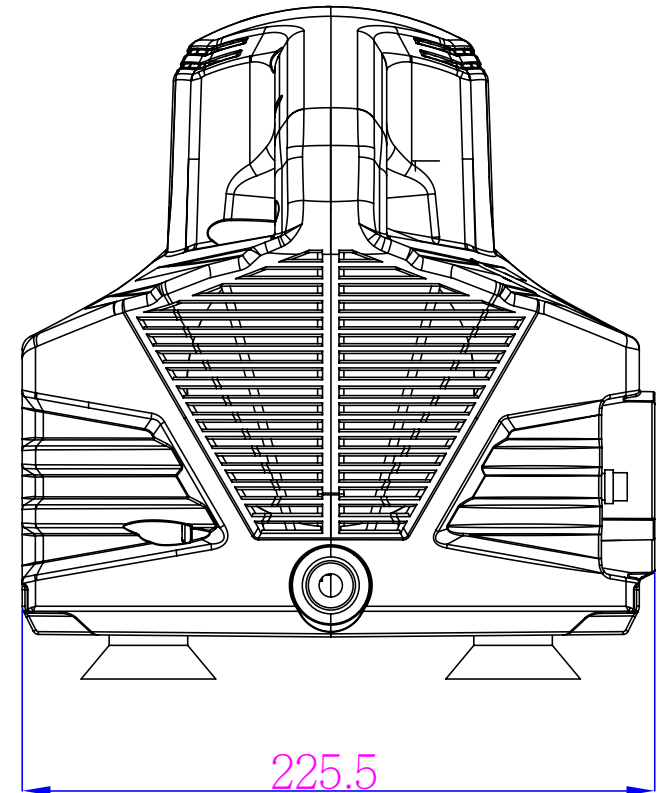
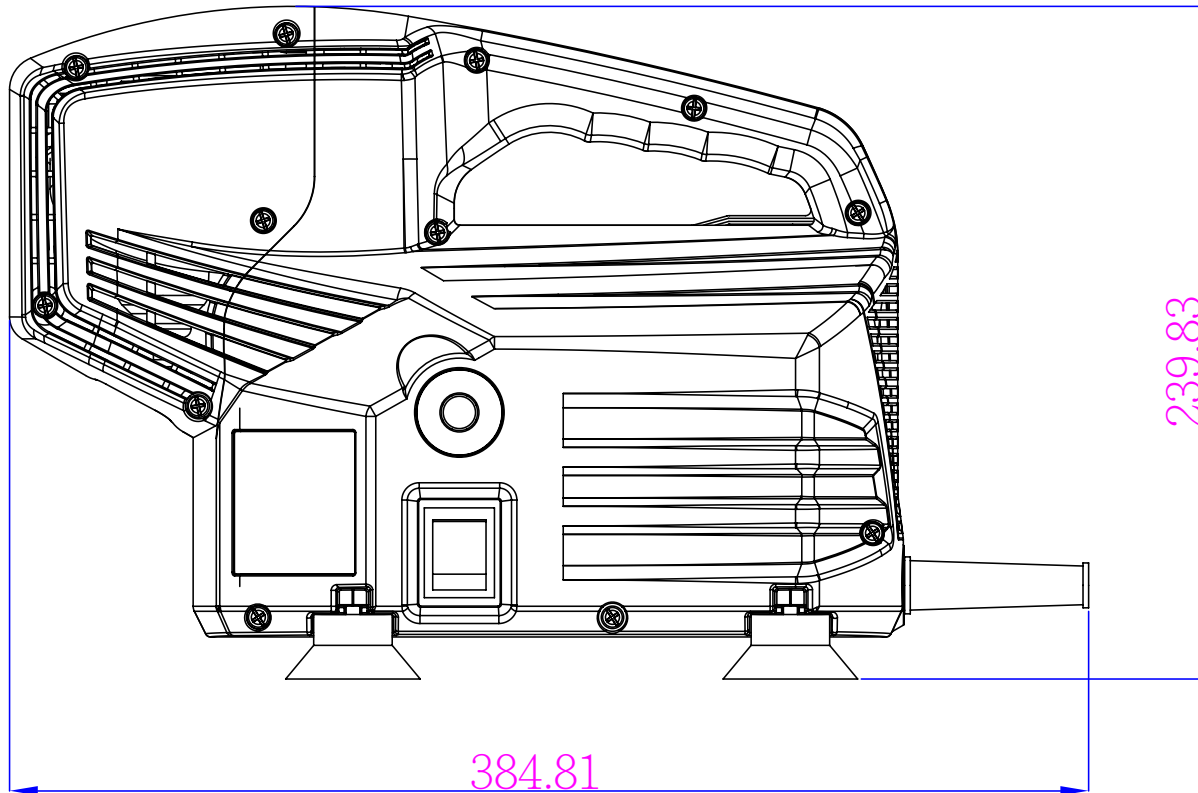
Conclusion

The **AGP** VP140 has a number of special features which make it especially effective for power tool applications. Although it is not the most powerful unit, it is perfectly adequate to the job. It is notable in having an integrated power tool socket, which will only supply power when the vacuum is adequate. This is an important safety feature. In addition, there is a buzzer which sounds an auditory signal if vacuum is not enough. This allows the operator to be fully aware if there is any vacuum leak in the system, allowing the power tool to be shut off before the vacuum base loses adhesion. The VP140 is also light in weight and compact in size, for the convenience of the operator. Altogether, the **AGP** VP140 is a very cleverly designed vacuum pump system.

Comparison Table

Brand									
Vacuum Base Plate									
Model No.	VB400	Vacuum Plate 35857000	DD-HD30-VBP	DS 500	505066	505063	DRU 400 (combination base)	KS 30 (combination base)	Vacuum Set 3585G000
Max. Recommended Drilling Ø	450 mm 	350 mm	300 mm	400 mm	250 mm	250 mm	250 mm	200 mm	350 mm
Applicable Stands	S170 AS200 NS250 S350 S500	PLB 450 G PowerLine PLB 450 PowerLine BST 250 BST 300	DD-HD 30 drill stand	DS 500 drill stand	L160 L180	L250 C520 C600	DRU 400 (integral to the stand)	KS30 (integral to the stand)	BST 352 V (combination) DBE 352 (combination)
Dimensions (L x W)	450 x 350 mm	510 x 340 mm	not listed	395 x 240 mm	250 x 250 mm	300 x 330 mm	507 x 300 mm	340 x 223 mm	N/A
Halfmoon Cutout	yes	yes	yes	yes	no (will limit capacity)	no (will limit capacity)	yes	yes	N/A
Handles	yes (2) 	no	yes (1)	no	no	no	yes	no	no
Valve	yes (2, for controlled release) 	no (nipple only)	no (nipple only)	no (nipple only)	no (nipple only)	no (nipple only)	no (nipple only)	no (nipple only)	yes (1)
Vacuum Gauge	yes 	no	yes	no	no	no	no	no	no
Street Price, EU w/o tax		396,63 €	1190,00 €	232,95 €	164,00 €	212,50 €			186,60 € (kit only)
Conclusion	The AGP has the most complete features of any of the vacuum base plates here. Its dual valves allow it to be removed from the work surface in a controlled way and also allows multiple bases to be connected in series. The built-in vacuum gauge alerts the operator to vacuum conditions for additional safety. The halfmoon cutout allows the base to provide maximum support as close as possible to the core bit. Altogether, it's the most effective vacuum base available.								

Tool Dimensions



Tool Dimensions

