

## VACUUM PAD FOR MAG DRILLS

Vacuum pad is a special type of clamping device for compact mag drills. It enables magnetic drilling machines to effectively operate on non-ferrous materials, where it is impossible to fit the magnetic base of a drill directly to the workpiece.

The vacuum pad provides the ability to drill on non-magnetic or thin surfaces and materials with certain surface imperfections. It is intended for use with stainless steel, aluminum and thin carbon steel plates.

Depending on the requirements and operating conditions, the pad can be powered by vacuum supply or compressed air supply.

### Features & Benefits:

- enables drilling in flat non-ferrous materials
- for use with Promotech mag drill models: PRO-16, PRO-36, PRO-40, PRO-50, PRO-50TCT, PRO-51, PRO-52T, PRO-55 and PRO-55TCT
- includes 2-meter pump connection hose
- 2 possible configurations:
  - vacuum supply (standard)
  - compressed air supply (optional)



**VACUUM SUPPLY**  
(standard configuration)

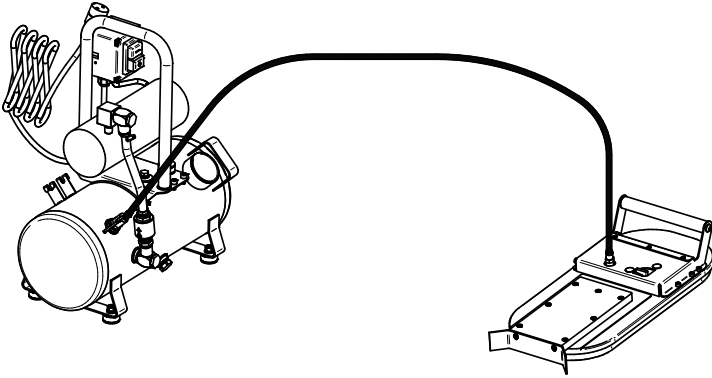


**COMPRESSED AIR SUPPLY**  
(optional configuration)

## ■ Standard configuration - Vacuum supply

Portable vacuum pump with safety reservoir -  
ideal solution for working together with vacuum pad

- AGR-0541-10-20-00-0 for 230 V
- AGR-0541-10-10-00-0 for 115 V with UK plug



**VACUUM SUPPLY**  
(standard configuration)



### TECHNICAL SPECIFICATION OF VACUUM PAD FOR MAG DRILL - VACUUM SUPPLY

Gauge pressure*		-0.8 bar (-11.5 psig)
Connection		Quick coupling DN 7.2
Capacity		4 m <sup>3</sup> /h (141 ft <sup>3</sup> /h)
Holding force (at gauge pressure of -0.8 bar / -11.5 psig)	0 m above sea level	4800 N
	1500 m above sea level	3800 N
Minimum workpiece thickness		5 mm
Drilling depth decrease		40 mm (1-9/16")
Dimensions		488 mm × 214 mm × 107 mm 19-3/16" × 8-7/16" × 4-3/16"
Supply hose length		2 m (6.5 ft)
Required ambient temperature		1-40 °C (34-104°F)
Weight		7.5 kg (16.5 lbs)
Product code		PDS-0587-10-00-00-0

\*where 0 is for atmospheric pressure, and -1 is for perfect vacuum

**Optional configuration - compressed air supply**

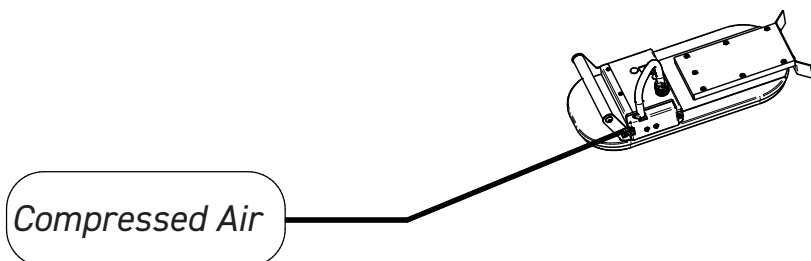
Optional compressed air ejector generates a vacuum thanks to high flow speed of air according to the Bernoulli principle. The vacuum pad equipped with the compressed air ejector can be an effective solution in numerous industrial plants and workshops, where compressed air pipe system is widely utilized.



Compressed air ejector  
ZSP-0587-11-00-00-0



Vacuum pad equipped with  
compressed air ejector



**COMPRESSED AIR SUPPLY**  
(optional configuration)



**TECHNICAL SPECIFICATION OF VACUUM PAD FOR MAG DRILL - COMPRESSED AIR SUPPLY**

Supply	6 bar (87 psi)	
Connection	Quick-coupling fitting DN 7.2	
Air consumption	4 m <sup>3</sup> /h (141 ft <sup>3</sup> /h)	
Supply hose length	2 m (6.5 ft)	
Holding force (at gauge pressure of -0.8 bar / -11.5 psig)	0 m above sea level	4800 N
	1500 m above sea level	3800 N
Required ambient temperature	1-40 °C (34-104°F)	
Diameter of supply hose extension (if needed)	8 mm	
Maximum total length of supply hose (including supply hose extension)	10 m	

## Equipment configurations

Using vacuum pad results in decreasing regular depth of cut by 40 mm.

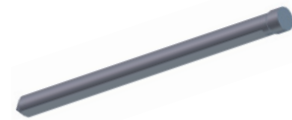
Maximum depth of cut depends on configuration in use.

MAXIMUM DEPTH OF CUT [mm]	ANNULAR CUTTER		EQUIPMENT IN USE	
	type	length [mm]	Vacuum pad	Annular cutter 50 mm extension + pilot pin
N/A	HSS	25	•	
25	HSS	25	•	•
10	HSS	50	•	
50	HSS	50	•	•
35	HSS	75	•	
50	HSS	100	•	
N/A	TCT	35	•	
35	TCT	35	•	•
10	TCT	50	•	
50	TCT	50	•	•
35	TCT	75	•	
50	TCT	100	•	



### Annular cutter 50 mm extension

- Product code: PRD-000004
- Requires pilot pin (see table)



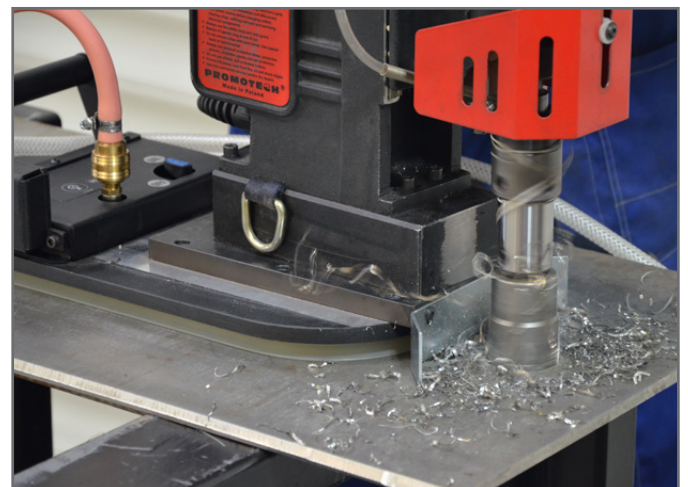
Pilot pin

Product code	Pilot pin length [mm]	Annular cutter type	Cutter length [mm]	Drilling diameter [mm]
PLT-000020	127	HSS - Ø 6,34 mm pilot pin	25	12-50
PLT-000023	153	HSS - Ø 6,34 mm pilot pin	50	12-50
PLT-000021	140	TCT - Ø 6,34 mm pilot pin	35	12-17
PLT-000022	145	TCT - Ø 7,98 mm pilot pin	35	18-50
PLT-000023	153	TCT - Ø 6,34 mm pilot pin	50	12-17
PLT-000025	160	TCT - Ø 7,98 mm pilot pin	50	18-50



**ATTENTION:** Cutter guard is not in place for demo purpose only

More information at [www.promotech.eu](http://www.promotech.eu)



All information is subject to change without notice. 22.08



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