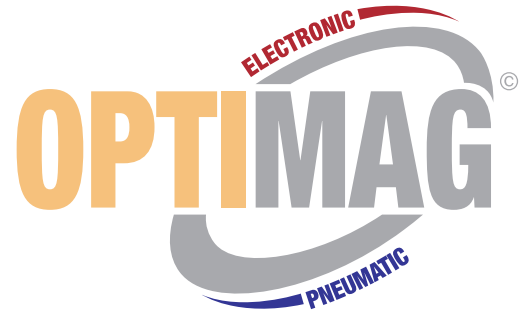


Pneumatically Actuated Optimag



The Optimag Pneumatic gripper is a pneumatically switched magnet. It is supplied as a modular system in 5 standard sizes, each having the option of fine or coarse pole configuration. This ensures that the maximum clamping power is made on the minimum thickness materials.

Fine Pole

Used for clamping or lifting thin or perforated ferrous pressings and sheet material. The fine pole version has double the magnetic poles of the coarse pole version. This means the magnetic circuit is completed by far thinner material. This is why the fine pole **Optimag** can pick up single sheets from the top of a stack without attracting the sheet below.

Coarse Pole

Used for clamping and or lifting of materials with rough, uneven surfaces. The coarse pole **Optimag** also provides greater clamping forces on thicker materials than the fine pole **Optimag**.

Fail Safe

This system is the ultimate fail-safe magnet. The cylinder houses a high performance Neodymium magnet pack. This is moved to contact the work piece when the magnet is switched on. If the air fails, the magnet pack stays in position, the **Optimag** stays energised and the load stays held. **Optimag** does not become de-energised until it is switched off.

Optional Sensing

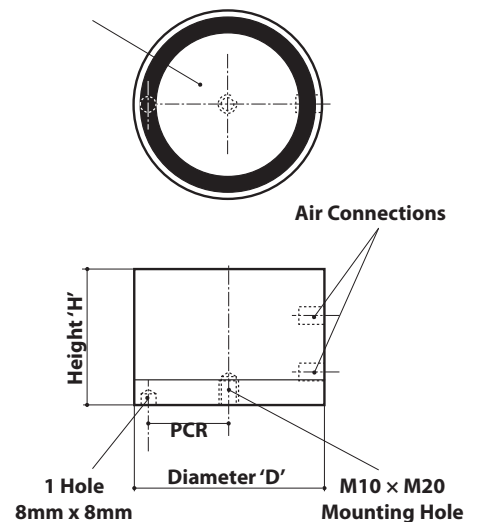
Optimag offers an optional sensing attachment. This unique device signals only when the magnet is in contact with a component and is energised. This feature is key in the integration of the magnet and the robot.

Fixing

Each magnet has a central M10 x 20 deep fixing hole. This is supported by one anti-rotation hole 8mm diameter x 8mm deep.



Working Magnet Face



PNEUMATICALLY ACTUATED OPTIMAG SPECIFICATIONS							
Part No	Pole Configuration	Diameter (D)mm	Height (H)mm	Anti Rotation Hole (PCR)	Air Usage cc	Weight Kgs	Minimum sheet thickness reqd. for single part lifting mm
PSPM80F	Fine	80	65	32	74	1.00	1.6
PSPM80C	Coarse	80	65	32	74	1.00	2.0
PSPM100F	Fine	100	85	42	146	1.50	1.6
PSPM100C	Coarse	100	85	42	146	1.50	3.0
PSPM125F	Fine	125	93	55	340	2.60	1.6
PSPM125C	Coarse	125	93	55	340	2.60	2.0
PSPM150F	Fine	153	109	69	742	4.40	3.0
PSPM150C	Coarse	153	109	69	712	4.40	6.0
PSPM300F	Fine	300	120	140	5700	10.00	-
PSPM300C	Coarse	300	120	140	5700	10.00	-

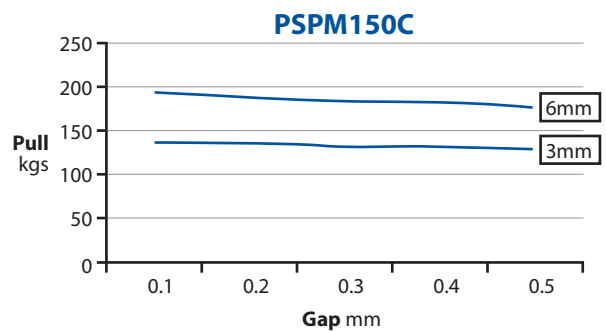
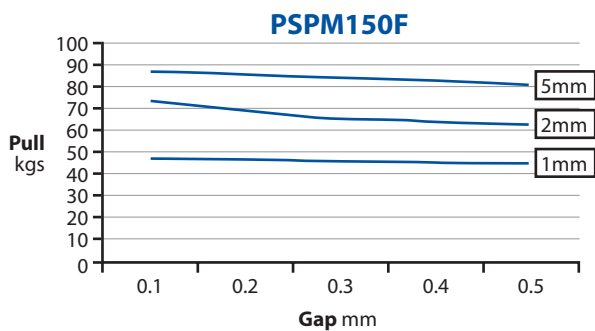
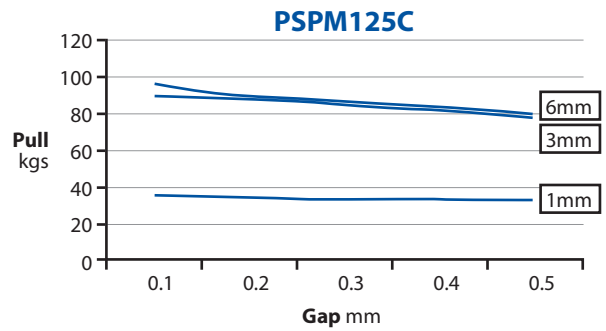
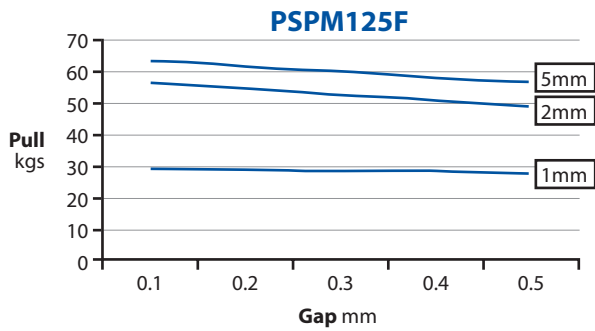
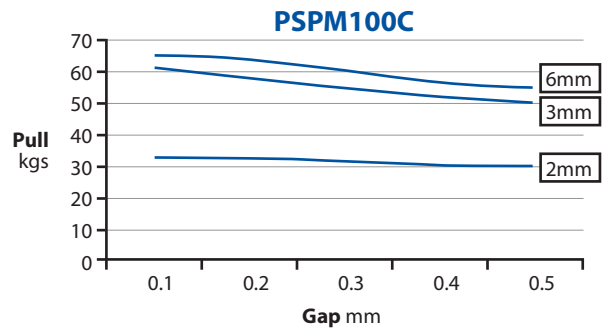
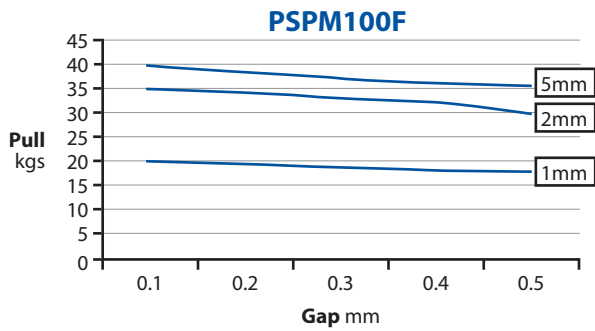
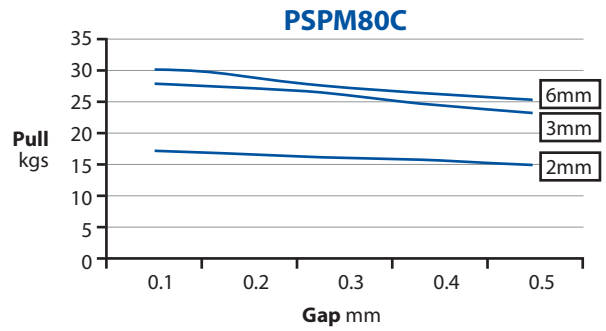
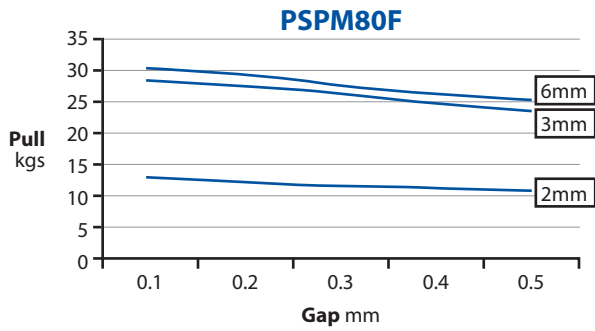
Specifications

- Outer shell material: Aluminium blue anodise finish
- Front working face: Stainless steel with product protection ring
- Air requirements: Only required during switching
- Air pressure: 1.5 bar min – 2 bar max
- Air connection: 1/8" BSP
- Max operating temp: 50°C

PICK | CLAMP | HOLD | MANIPULATE

PERFORMANCE DATA

Typical Performance on Various Plate Thicknesses



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