Optimag P

Pneumatically switched permanent magnet

Datasheet no. 306

Pneumatically switched permanent magnet supplied as a modular system in 5 standard sizes, with either fine or coarse pole magnetic configuration. Choice of pole configuration depends on the material to be held.

Fine Pole

Used for clamping or lifting thin or perforated ferrous pressings and sheet material. Double the number of magnetic poles of the coarse pole unit; the magnetic circuit is completed by far thinner material. This is why the fine pole Optimag P can pick up single sheets from the top of a stack without attracting the sheet below.

Coarse Pole

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

Fail Safe

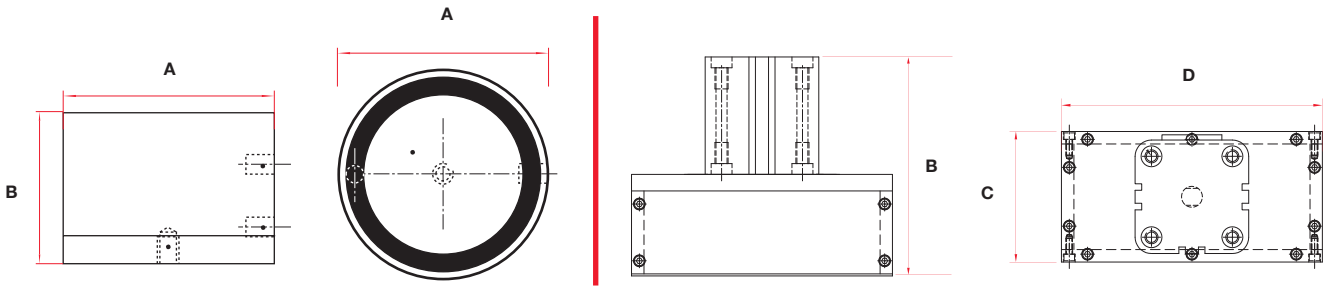
The cylinder houses a high performance neodymium magnet pack. This is moved to contact the work piece when the magnet is switched on. If the air fails, the magnet pack stays in position, the Optimag P stays energised and the load stays held. The Optimag P does not become de-energised until an air supply is used to switch it off.

Typical Uses

- Robotics
- Pick and place
- Transfer machinery
- End of arm grippers for manipulators
- Jigs and fixtures
- General lifting
- Turnover applications

Benefits

- Fail-safe operation
- Ideal for thin or uneven surfaces
- Can hold through large air gaps such as packaging
- No damage to parts being handled
- One module suits many applications
- Simple to extend existing systems
- Multiple parts can be picked in a single operation
- Initial part positioning not critical
- Excellent weight to performance ratio
- Low maintenance
- Single point fixing



Product Information

Product	Lifting	SWL	Dimensions mm				Unit Weight
	mm	kg	Diameter A	Height B	Width C	Length D	kg
Circular							
Optimag 100P	Flat	18.8	100	84	N/A	N/A	3
Optimag 125P	Flat	29	125	93	N/A	N/A	6
Optimag 150P	Flat	59	153	108	N/A	N/A	8.8
Rectangular							
Optimag 1020P	Flat	75	N/A	168	100	200	6
Optimag 2030P	Flat	100	N/A	180	300	200	12

For lifting applications a SWL of 3:1 is recommended

Specification

Air requirements Only required during switching
Air pressure 1.5 Bar minimum – 2 Bar maximum
Air connection 1/8" BSP
Temperature Maximum + 50°C (122°F)

Materials
Outer shell material Aluminium blue anodised finish
Front working face Stainless steel with rubber protection ring
Magnet material Rare earth neodymium iron boron

If you have any more questions, require technical assistance and would like a quotation, simply contact us.

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While every effort has been made to ensure the accuracy of the information in this publication please note that specifications may change without notice.

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