



Pacific Hoists

QUALITY LIFTING SOLUTIONS

INSTRUCTION MANUAL Pacific Magnetic Lifters



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IMPORTANT

**Please read this instruction manual before using these products.
This manual contains important information regarding safety, operation,
installation & maintenance.
ALWAYS operate, inspect and maintain this product in accordance to the
relevant Australian Standard AS4991**

INTRODUCTION

Thank you for purchasing your new Pacific Magnetic Lifter. This lifting device now uses the latest technology to ensure you of a higher quality, robust design with a high level of operator safety which is easy and safe to use whilst ensuring a longer service life.

It is important that this instruction manual is kept in a safe place where any operator of the Pacific Magnetic Lifter can refer to it to understand the operating principles of this device. All users should read this manual in full and understand the safe operating principles of this device.

FEATURES

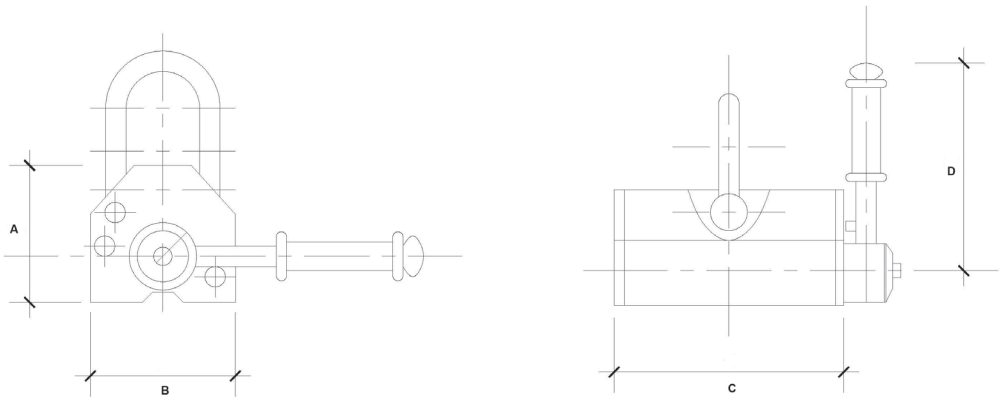
- Designed and tested in accordance with the Australian Standard AS4991.
- The Pacific Magnetic Lifter features a break-away force 3.5 times greater than the rated capacity.
- Weight capacities are available from 100kg to 6 tonne.
- No electricity is needed which will increase product safety. Once operated there is less than 1% residual magnetism.
- The simple switch and safety button design allows for one handed operation.
- Use of plate with high-carbon content will reduce the absorbability to less than 50% of rated capacity. Use of plate with high carbon content is not recommended.



SPECIFICATIONS

MODEL	PML-1	PML-3	PML-6	PML-10	PML-20	PML-30	PML-60
Stock Code	MAG010	MAG030	MAG060	MAG100	MAG200	MAG300	MAG600
Rated Capacity	100 kg	300 kg	600 kg	1 tonne	2 tonne	3 tonne	6 tonne
Cylindrical Carrying Capacity	50 kg	150 kg	300 kg	500 kg	1 tonne	1.2 tonne	1.5 tonne
Max. Break-away Force	350 kg	1.05 tonne	2.1 tonne	3.5 tonne	7 tonne	10.5 tonne	21 tonne
Net Weight (kg)	3	10	23	55	125	218	430

DIMENSIONS (in mm)

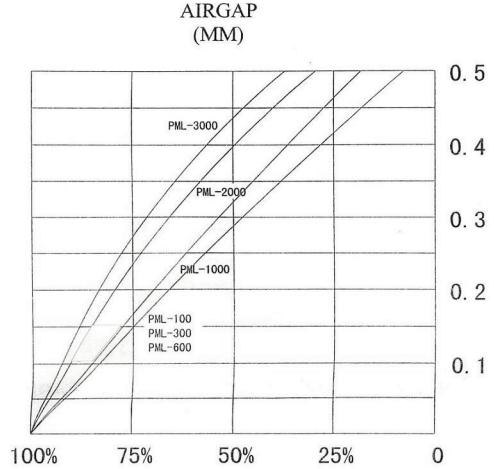
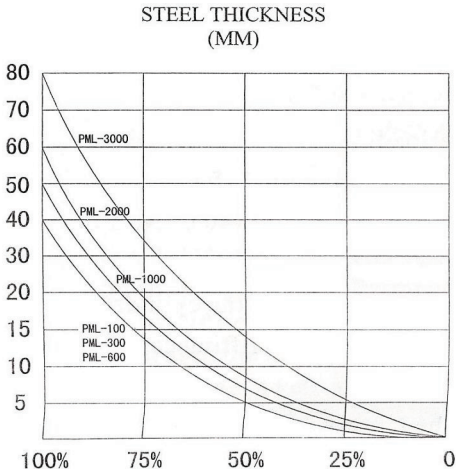


MODEL	PML-1	PML-3	PML-6	PML-10	PML-20	PML-30	PML-60
A	67	91	117	163	212	261	355
B	64	92	122	177	215	255	432
C	90	157	229	270	380	458	623
D	125	200	278	330	450	525	695



MINIMUM PLATE THICKNESS

Rate of Reduction



MODEL	PML-1	PML-3	PML-6	PML-10	PML-20	PML-30	PML-60
Rated Capacity	100 kg	300 kg	600 kg	1 tonne	2 tonne	3 tonne	6 tonne
Suitable Thickness of Plate (mm)	> 25	> 35	> 40	> 50	> 60	> 80	> 120
Plate Materials	≤45# steel	≤45# steel	≤45# steel	≤45# steel	≤45# steel	≤45# steel	≤45# steel
Carbon Content	Low	Low	Low	Low	Low	Low	Low

How to determine the correct Magnetic Lifter for your application?

The rated capacity of the Pacific Magnetic Lifter is determined by the thickness and surface quality of the to-be-lifted object. The Magnetic Lifter performs best on thick ferrous material; at a thickness less than 80 mm, the capacity of the magnet is reduced.

The Magnetic Lifter works better on a smooth surface. If roughness causes air gaps of greater than 6.3um; the capacity of the Magnetic Lifter is reduced.

If the surface roughness (Ra) is above or greater than 6.3um, the lifter gap should be estimated.

To calculate the percentage of maximum lift capacity for the Magnetic Lifter review the graphs above.



The rated capacity is also influenced by the composition to the steel component. As a reference

- Low carbon steel object = 100%
- Medium carbon steel object = 95%
- High carbon steel object = 90%
- Low alloy steel object = 75%
- Cast iron object = 50%

SAFETY INSTRUCTION

DO NOT overload the Magnetic Lifter.

DO NOT shock load Magnetic Lifter.

DO NOT use if vibration occurs during operation.

DO NOT use the Magnetic Lifter to lift people.

NEVER allow the Magnetic lifter operator or other personnel to pass underneath a suspended load.

DO NOT operate a Magnetic Lifter that has been deemed unsafe after inspection/service.

DO NOT swing on a suspended load or leave the suspended load unattended.

DO NOT switch on when the Lifter is not in contact with ferromagnetic material.

DO NOT use when environment temperature is outside range +80°C to -40°C.



OPERATING INSTRUCTIONS

- Do not exceed the rated lifting capacity of Magnetic Lifters.
- The Magnetic Lifter is able to create a strong magnetic attraction through its unique construction from high quality NdFeb. The magnetic path is controlled by turning the handle manually from the “off” to “on” and “on” to “off”.
- Clean surface of object being lifted to remove rust or burr.
- Mount the Magnetic Lifter to lifting device (Electric Hoist, Chain Block etc) by means of shackle.
- Position the Magnetic Lifter in the centre of the lifted object and place on object surface.
- Disengage the safety key by pushing down handle button_hold and turn the handle from “OFF” to “ON”. Release handle button.
- Make sure that the safety key on the handle is automatically locked.
- Proceed to lift object.

Lifting Cylindrical Objects

- Follow the above procedure, use the “V” slot situated underneath the Magnetic Lifter to position the cylindrical object using the 2 lines.

NOTE: Lifting Cylindrical Objects the Magnetic Lifter capacity is downrated to the 30% of its lifting capacity.

- To release lifted objects, disengage the safety key by pushing down handle button_hold and turn the Handle from “ON” to “OFF”.

MAINTENANCE INSTRUCTION

- The robust and simple design of the Magnetic Lifter will provide a long service life with minimal maintenance or repair required.
- To ensure maximum performance, follow the safety warnings.
- Before operation visibly check the Magnetic Lifter for any damage.
- After use wipe the Magnetic Lifter surface lightly with oil.
- Store carefully when not in use. Inspect regularly and remove any damaged magnets from service immediately for examination by a competent person. Contact your local dealer for further assistance.



WARRANTY

All Pacific Magnetic Lifters are guaranteed against any apparent fault arising from manufacturing defects caused by faulty materials and / or workmanship for a period of five years from the date of the original purchase.

Should any part fail due to the above within the specified period, Pacific Hoists Pty Ltd will repair or replace the defective part free of charge provided that the equipment is delivered to Pacific Hoists Pty Ltd. Freight charges both ways are payable by the claimant and no liability is accepted for loss or damage during transit. The claimant is required to produce the original invoice or other purchase documents as proof of purchase.

The warranty does not cover the purchaser or any other person for damage, loss, normal wear or faults caused from misuse or incorrect installation of the equipment.

The equipment is required to have been installed and operated correctly by qualified personnel and has not been subject to abuse, neglect or adjustment carried out by an unauthorized person.

This warranty is in addition to, and in no ways restricts, any of the implied conditions or warranties conferred by Commonwealth, State or Territorial legislation.

This warranty may only be varied with the written approval of the Directors of Pacific Hoists Pty Ltd.



INSPECTION & SERVICE LOG

DATE	NOTES	SIGNATURE

Imported and distributed by Pacific Hoists Pty Ltd via a national distributor network throughout Australia and New Zealand.

For further information in relation to this product, please contact the distributor outlet where the product was purchased.

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