

PK-SM-2100 Standard Magnet

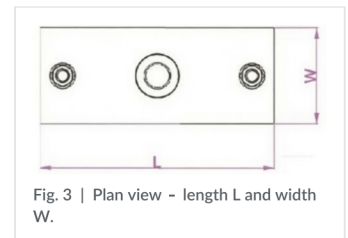
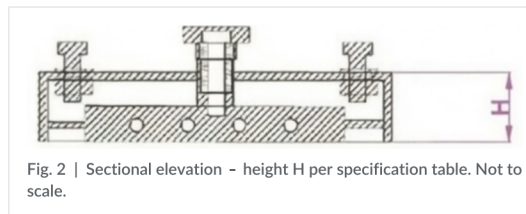
2100 kg VERTICAL PULL FORCE

PRODUCT OVERVIEW

The **PK-SM-2100** is a high-performance stainless steel magnet designed for precast concrete production. It features a durable **304 grade stainless steel** housing and delivers a powerful **2100 kg vertical holding force**. The magnet is used to securely fix side forms and shutters to steel casting beds without the need for welding, drilling or traditional clamping methods.

The PK-SM-2100 is compatible with the **PK-SMA-2100** attachment for fixing to timber or steel shutters. The 304 stainless steel body provides excellent corrosion resistance in wet and aggressive concrete environments, making it ideal for daily use in Australian precast yards.

ENGINEERING DRAWING



TECHNICAL SPECIFICATIONS

SPECIFICATION	VALUE
Model	PK-SM-2100
Length (L)	320 mm
Width (W)	120 mm
Height (H)	60 mm
Weight	7.2 kg
Vertical pull force	2100 kg
Sliding force	600 kg
Housing material	304 stainless steel
Magnet type	High-strength neodymium
Operation	Push-button on/off
Compatible attachment	PK-SMA-2100

Pull force stated is the maximum vertical (direct pull) value on clean, flat mild steel of adequate thickness. Refer to the Disclaimer for in-service derating.

KEY FEATURES

- 304 grade stainless steel housing for superior corrosion resistance
- 2100 kg strong vertical holding force
- Compact and robust industrial design
- Easy push-button engagement and release
- Suitable for both steel and timber/plywood formwork
- No welding or drilling into the casting table required
- Built for continuous daily use in harsh yard conditions
- Compatible with the PK-SMA-2100 attachment for timber or steel shutters

INSTALLATION & OPERATION

STANDARD INSTALLATION

- 01** Ensure the steel casting bed is clean and free of debris.
- 02** Position the magnet against the formwork or shutter in the desired location.
- 03** Push the button down firmly to engage the magnet.
- 04** To release, lift the button using the ProKast release lever PK-MRL-01.

Important: always place the magnet gently onto the bed. Do not drop or strike it.

WITH PK-SMA-2100 ATTACHMENT

- 01** Attach the PK-SMA-2100 bracket to the PK-SM-2100 magnet.
- 02** Screw the complete assembly securely onto the timber or steel shutter.
- 03** Position the assembly on the clean steel casting bed.
- 04** Push the magnet button down firmly to engage.
- 05** To release, use the ProKast release lever PK-MRL-01.

Important: never strike the magnet with a hammer.

CARE & MAINTENANCE

- Clean the magnetic face after every use to remove concrete slurry and debris.
- Wipe the stainless steel body with a clean cloth.
- Apply a light coat of form oil or protective spray if storing for extended periods.
- Store in a dry area.
- Never strike the magnet with a hammer or weld near it - heat will permanently damage the internal neodymium magnets.

SAFETY INFORMATION

- Extremely powerful neodymium magnets - risk of severe pinching injuries.
- Keep clear of people with pacemakers or medical implants.
- Place carefully to avoid damaging the internal magnet core.
- Do not allow concrete to cure on the magnet or button mechanism.

WARRANTY

ProKast provides a **24-month warranty** against manufacturing defects in materials and workmanship under normal precast yard use, commencing from the date of delivery. Warranty is void if the product is damaged by hammering, welding, improper cleaning, or other misuse. This warranty is in addition to, and does not exclude, any rights or remedies available to you under the Australian Consumer Law.

SALES INFORMATION

PRODUCT CODE	MANUFACTURER	ABN
PK-SM-2100	ProKast Pty Ltd	49 692 182 273
EMAIL	WEB	ENQUIRIES
sales@prokast.com.au	prokast.com.au	Bulk pricing & trial samples

DISCLAIMER

The information in this data sheet is provided in good faith and is believed to be accurate at the date of publication. Stated pull force and sliding force are maximum values measured under controlled conditions on a clean, flat, machined mild steel plate of adequate thickness at ambient temperature with full face contact. Holding force achieved in service will be lower than these stated values and varies with surface finish, rust, paint, coatings, contamination, air gap, bed thickness, temperature, vibration, and load direction; shear and peel loads in particular are substantially lower than direct vertical pull. It is the responsibility of the user to determine the suitability of this product for the intended application, to apply an appropriate factor of safety for concrete pressure, vibration and pour dynamics, and to ensure use complies with all applicable Australian Standards, WHS legislation and site-specific risk assessments. This product is not a lifting device and must not be used to lift or suspend loads. ProKast Pty Ltd accepts no liability for loss, damage or injury arising from misuse, modification, unauthorised repair or use outside the parameters stated in this document. Specifications are subject to change without notice. This document supersedes all previous revisions.