



Ideal Distributors

A Division of Ideal International Pty. Ltd

ACN: 004 850 471

ABN: 63 664 162 562

Unit 3, 23-27 Olive Grove
Keysborough VIC 3173 AUS

PH: 61-3 9798 7191

FAX: 61-3 9798 7331

EMAIL: sales@ideal-diy-floors.com.au

OPERATIONAL RISK ASSESSMENT FOR

IDEAL - SCHWAB PATERNOSTER

Models: TPL - 2 HD & TPL - S

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Introduction

Schwab have designed and manufactured this Paternoster with the operator's safety in mind. Care has been taken to guard operators from moving parts or electrical components, but we cannot protect against careless mistakes or thoughtless actions. Caution and safety should be exercised when operating this or any other machine.

Operators of the flooring Paternoster should be competent staff of the retailer who have received initial training in the operation of the machine by the supplier. Initially trained and competent staff would be responsible for training additional personnel.

Operation of the machine by consumers is not recommended.

Never attempt to clean, inspect or service any part of the equipment without disconnecting the incoming power source. All maintenance operations performed on this machine must be done with the power OFF at the Main Isolator to the machine and performed by qualified personnel.

The owner / site controller of the machine is responsible to ensure operators are properly trained on the Paternoster's operations and safety practices and to keep the machine properly maintained.

All machines should be serviced annually to:

1. Visually inspect for damage to components
2. Check alignment of machine and adjust if necessary
3. Grease chains, sprockets and carrier pins
4. Check and adjust chain tensions
5. Rotate stock on machine one hole to inspect carrier bar hangers and relubricate pins
6. Replace any damaged carrier bar hangers
7. Refit and/or replace any missing Diskus plates and pins
8. Touch up any damaged paint
9. Touch and/or paint yellow safety line in front of machine
10. Check condition of trolleys and repair if needed and possible – minor damage only
11. Train available store staff in loading, unloading and operation of machine

Ideal operates an annual service program. To arrange a service outside of the normal cycle, call Ideal Distributors.



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HAZARD REGISTER

HAZARD	CAUSES	CONSEQUENCES	SAFEGUARDS
GUIDEWORD:	ELECTRICAL		
Exposure to live circuitry or live metal.	Equipment damage (incl. Leads, wiring, etc.) Failure to isolate and lock out at source. Unauthorised tampering	Potential for fatality Regulatory consequences	- Isolate & lockout procedure (repairs & servicing) - Ensure supply lead is kept off floor and does not loop into path of rolls or chain. <hr/> Emergency response arrangements <hr/> Electrical awareness training
GUIDEWORD:	HUMAN ERROR		
Incorrect operation of the machine.	Untrained Operator	Potential for damage to machine, products and roll trolleys. Potential for injury	- Restrict operation to trained operators - Issue key only to trained operations - Warning labels on machine - Physical key rather than a digital code for access <hr/> Emergency response arrangements <hr/> Electrical awareness training



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HAZARD REGISTER

HAZARD	CAUSES	CONSEQUENCES	SAFEGUARDS
Rolls falling off the machine.	Failing to ensure locking clip on carrier pin is fully seated.	Carrier bar can pop out of carrier pin as roll goes over top of machine, causing bar and roll to fall off.	Locking clip on carrier pin. Audible "Click" when clips springs into place. Visual chek by operator after loading new carrier pipe on machine.
	Roll spacing too close together.	Rolls can bunch together as tey go over top of machine and generally in combination with an unlocked carrier pin roll can be pushed off machine.	Ensure roll spacing complies with instructions on label on machine and in operating/loading instructions.
			<hr/> <u>Emergency response arrangements</u> <hr/>
			Training of operators.
			Unload/reload product on machine to correct spacing.
			Periodically check that carrier pins are lockd in place, especially after rolls are loaded.



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HAZARD REGISTER

HAZARD	CAUSES	CONSEQUENCES	SAFEGUARDS
Machine jams or carrier bars go out of level.	Failure to ensure underneath of machine is clear of everything except spare carrier pipes and carrier pins. Particular hazards are pallets, rolls of product, roll trolleys.	machine jams completely. Trolley is driven up wall behind machine. Machine jams one side causing out of level.	Visual check machine is clear underneath of large objects. Always push up button first for at least 60cm travel. This will tend to push out a trolley or a roll that may be unnoticed under machine. <hr/> <u>Emergency response arrangements</u> Training of operators. Keep underneath area clear. Call service man to repair damage and re-level machine.



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HAZARD REGISTER

HAZARD	CAUSES	CONSEQUENCES	SAFEGUARDS
GUIDEWORD:	MANUAL HANDLING		
Physical injuries	Loading new rolls incorrectly	Lifting injury Finger jamming	Use trolleys to position carrier bar bold over the carrier pin cup. Use up/down controls on machine to position cup so that only the bar has to be lifted not the roll. Alternatively, use up/down to engage the bolt on the bar in the cup. Keep fingers away from nip points.
	Manual lifting of heavy rolls Manual lifting of cutting bar assembly	Lifting injury Lifting injury	2 person or mechanical aid lift 2 person or mechanical aid lift Replace measuring wheel type with latest design bar which is much lighter.
Rolls unwinding	Unstrapped rolls	End of roll catches on another and roll unwinds either quickly or slowly	Minimum of 2 x straps per 4m wide rolls and 1 x strap per 2m wide roll. "Floppy" roll products may need more straps. <hr/> Emergency response arrangements <hr/> Training operators <hr/> Restrap rolls



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HAZARD REGISTER

HAZARD	CAUSES	CONSEQUENCES	SAFEGUARDS
GUIDEWORD:	MECHANICAL HAZARD		
Machine topples over	Struck by mobile plant	Equipment damage	Bollards to protect against mobile plant
	Subsidence of concrete slab	Potential for fatality or injury Regulatory consequences	Repair any subsidence before it becomes critical
Jamming of machine	Large object under machine whilst running	Equipment damage Potential for injury	Keep underneath of machine clear
	Unbalanced loading machine	Equipment damage Potential for injury	Ensure loading of machine complies with operating instructions
			Emergency response arrangements
			Training of operators
			Rearrange rolls on machine to balance load



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HAZARD REGISTER

HAZARD	CAUSES	CONSEQUENCES	SAFEGUARDS
Entrapment in machine	Person climbing on machine when started Person inside machine when started	Potential for fatality or injury Regulatory consequences	Operating instructions attached to machine Warning signs to keep clear Visual check before operating to ensure no one (especially children) is inside or under machine Awareness of customers and their children's dispositions Key required to operate machine DO NOT leave key in switch <hr/> Emergency response arrangements <hr/> Training of operators



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HAZARD REGISTER

HAZARD	CAUSES	CONSEQUENCES	SAFEGUARDS
Falling rolls of product from machine	Failure to lock carrier pin clip	Product damage	Operating instructions attached to machine
	Rolls too close together	Equipment damage Potential for fatality or injury Regulatory consequences	Loading of machine only by trained operators
	Mechanical failure of a carrier pin cup	Product damage Equipment damage Potential for fatality or injury Regulatory consequences	Ensure both ends of carrier bar are detached from cups before moving roll out parallel to machine Do not swing one end out if other end still attached to machine Inspect and replace cracked, bent or twisted cups
			<hr/> Emergency response arrangements <hr/>
			Training of operators
			Inspect and replace cracked, bent or twisted cups



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HAZARD REGISTER

HAZARD	CAUSES	CONSEQUENCES	SAFEGUARDS
Failure of drive chain	Incorrect operation	Product damage	Routine inspections - Replace chain when excessive stretch evident or every 10 years
	Jammed up main chain	Equipment damage	
	Objects trapped under machine	Potential for fatality or injury	Operating instructions attached to machine
	Poor maintenance	Regulatory consequences	Loading & operation of machine only by trained operators
			<hr/> <u>Emergency response arrangements</u> <hr/>
			Training of operators



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HAZARD REGISTER

HAZARD	CAUSES	CONSEQUENCES	SAFEGUARDS
Crushing of fingers loading new rolls in to machine	Incorrect operation (eg. up instead of down) Incorrect loading operation Unexpected starting of machine	Potential for injury Regulatory consequences	Operating instructions attached to machine Loading & operation of machine only by trained operators
Entranglement in chain assembly or rollers	Long hair not tied back Loose clothing	Potential for injury Regulatory consequences	Replace any missing Diskus plates Replace any missing guards
Crushing of fingers	Missing Diskus plates on machine with lower load chain cogs (Pre year 2002 models) Missing chain guards on machine with lower load chain cogs (Pre year 2002 models)		Tie back hair and clothing Loading & operation of machine only by trained operators Keeps fingers and hans out of machine when operating
			<hr/> Emergency response arrangements <hr/> Training of operators Lock off machine at emergency stop switch and arrange repair/ replacement of guards