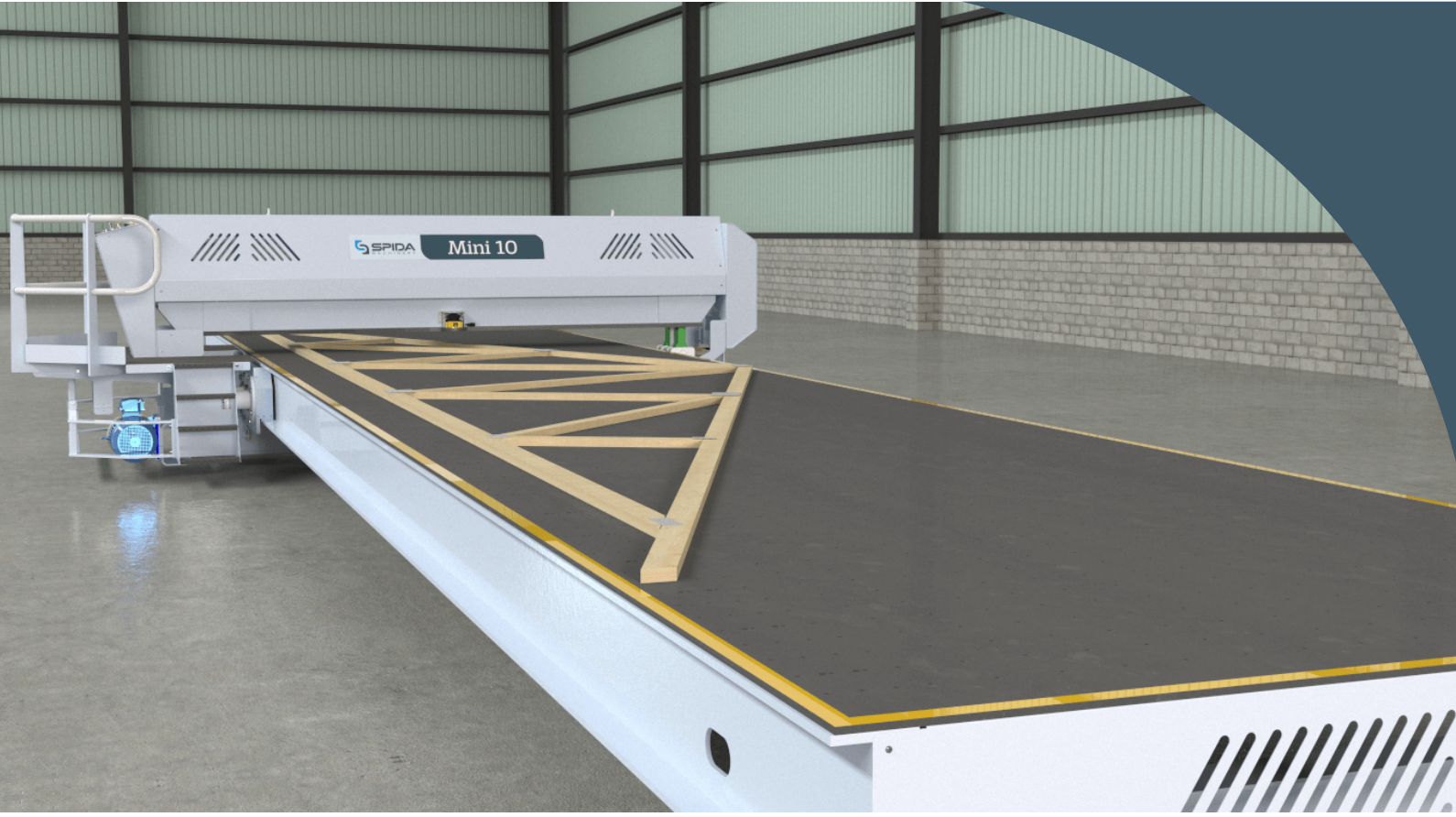


Mini 10

Operation & Service Manual

SPIDA MACHINERY

Contents

ABOUT THIS DOCUMENT

This section provides information about this document.

WHO WILL USE THIS MANUAL?

This manual is the Mini10 Operation and Service Manual designed to show you how to use the functions in the current release of Mini10.

PREREQUISITE KNOWLEDGE

This manual assumes you have:

- Successfully completed proper training in safe working practices; and
- Conducted a site risk assessment.

WHAT'S IN THIS DOCUMENT?

This document contains the following sections:

If you want to...	Read...
Learn about this machine.	"What is a Mini10" on page 5.
Understand safety considerations for this machine.	"Safety information" on page 9.
Read the specifications for this machine.	"Specifications" on page 19.
Learn the location of key components.	"Parts identification" on page 21.
Learn how to operate the machine.	"Operating instructions" on page 41.
Read the risk assessment.	"Risk assessment" on page 49.
Read the warranty.	"Warranty" on page 63.
Complete the mandatory training certification.	"Training certification" on page 65.

For more information, see the relevant section.

DOCUMENT CONVENTIONS

If accessing this document electronically, this document uses different fonts to indicate specific information as shown in the following table:

Font	Example	Indicates...
Bold	**Bold**	Menu option that you can select, or a button/icon that you can click to activate.
Double quotes	""	Cross-reference to another section in the document. For example, see "Document conventions" on page 5.
Bold italic	***Bold italic***	Reference to another different document. For example, the ***Mini10 Operation and Service Manual***.
Blue underline	Blue underline	Hyperlink that shows additional information. To see the additional information, click the hyperlink. After clicking the hyperlink, you will see the additional information, and the colour of the original hyperlink will change to Purple underline to indicate you have used (or "visited") the hyperlink.
Note	**NOTE**:	Important information that you should know.

SUPPORT

For all Mini10 support issues, please contact Spida Machinery Support.

WHAT IS A MINI 10

The Spida Machinery Mini10 table press is designed primarily for pressing nail plates and floor struts into timber. The Mini10 may have floor strut jigging attached, or other forms of jigging for the holding of timber during the pressing process, and should be used at all times to ensure a safe and accurate press.

KEY FEATURES

Mini10 has the following key features:

Feature
Variable speed drive to allow fabricators to drive the machine to suit their needs.
60 Tonne pressing capacity.
Adjustable jigging and base plates.
Bogey drive to improve movement.
SICK AG Industrial Safety System safety laser scanning system that stops the press if foreign objects are detected within a specified distance.
Grease bank for ease of maintenance.
(Optional) Floor strut jigging - pneumatic or manual clamping.

SERIAL PLATE

The following serial plate will be attached to your machine:

RECOMMENDATIONS

HANDLING RECOMMENDATIONS

It is advisable to use two lift trucks or cranes to manoeuvre the machine, due to the length and possible instability of the ground when transporting the machine from the truck to the operating position.

TRANSPORT RECOMMENDATIONS

When transporting your machine:

1. Ensure all additional jigging is boxed and secured with the machine.
2. Ensure that the machine is strapped tightly at both ends.
3. Do not place loads on top of the machine.
4. The machine is to be kept free from road grime and rain, and is to be covered at all times when being transported.

INSTALLATION RECOMMENDATIONS

Spida Machinery recommends following the following installation procedure:

> ***NOTE:*** *This procedure may vary depending on customer requirements.*

1. The final operating position of the machine must be free from any rubbish or impediments.
2. There must be good lighting in the installation area to allow proper positioning of the machine.
3. The ground upon which the machine rests must not vary by more than 25mm over a 15m x 3m area.
4. All electrical components must be checked by a qualified electrician prior to powering the machine, to check for faults and any effects of condensation or other damage.
5. Electrical commissioning to be to local standards and be performed by a qualified electrician.

MACHINE COMMISSIONING

1. Remove all strapping and blocking from the machine.
2. Power up the machine in the presence of a qualified electrician ensuring Stage 4 of installation has been completed.
3. Remove all other materials from the table (jigging etc.) and ensure that the press head is unhindered in its travel.
4. Run the machine from one end to the other slowly.
5. Insert a piece of timber with nail plates under the platen and check pressing capability.
6. Check for any oil leaks.
7. Check for undue noise.
8. Check that all emergency stop switches disable the machine fully.

MACHINERY USAGE WARNING

Spida Machinery takes its obligation to the Australian/New Zealand (AUSNZ) standards on machinery manufacturing seriously and commissions independent certifiers to assess and approve various hardware equipment configurations.

Spida Machinery commissions independent certifiers to assess and approve our machinery equipment to ensure it complies withall relevant legislation.

As the Original Equipment Manufacturer (OEM) of the Spida machinery, Spida Machinery has a duty of care to advise you thatthis machine should only be used for its designed and intended use by operators who have received appropriate training.

As such, you may NOT make any unauthorised changes to the machine. This includes electrical, mechanical, pneumatic or any changes to any other operational functionality without prior written approval from Spida Machinery.

Spida Machinery takes NO responsibility for potential problems that may arise if you make any unauthorised modifications to the machine or use in any configuration or for any purpose it was not designed.

SAFETY INFORMATION

WARNING! Only operators who understand the Operation and Service Manual and are trained in the safe operation of a Mini10 are allowed to use this machine.

NOTE:*This manual is generic. Depending on the options selected, your actual machine may vary from the illustrations and information contained in this manual.*

The machine must only be used for the purpose specified above and must be set up, maintained and operated in accordance with the instructions contained in this manual and the best standards of industrial machinery practice.

Equipment will perform better and last longer with regular inspection and maintenance.

Spida Machinery strongly recommends that a risk assessment be carried out on site to ascertain the PPE. At minimum, all personnel operating this machine use the following personal protective equipment (PPE):

- **Respirator or dust mask**;

Each member of the factory personnel shall be instructed in the safe use of the machine using this document as a guideline and shall sign a copy of this document to indicate that they have been instructed in the safe operation of this machine and have thoroughly read and understand the ***Mini10 Operation and Service Manual*** as well as any additional supplied information.

A copy of this document should be placed in the personnel file of each employee that receives instruction on the Spida Machinery Mini10.

A second copy should be made available to each employee for their reference.
This machine must only be operated by personnel who have been properly instructed in all aspects of the machine's safe operation.

NOTE: *This* ***Mini10 Operation and Service Manual*** *is intended as a guide for safe operation of the equipment by the user; however users should not consider this document all-inclusive and should conduct their own risk assessment prior to operating*

For all questions about this equipment, please contact Spida Machinery Support.

SAFETY INFORMATION

All operators should be aware of the following safety points before attempting to operate the Mini10.

- **Operator safety guard** - the operator must always stand in this area this when press is in operation.
- **Press head** - apart from the timber and nail plates / multistruts, no other materials apart from the jigging should be placed between the press and the table. Before pressing, remove all surplus tools, timber, and jigging etc. from the table to prevent damages.
- **Table** - all persons apart from the operator must be clear of the table when press is in operation.

WARNING! Only qualified electricians should attempt to alter any electrical components on the press.

USER WARNINGS

- All equipment and components should be inspected upon delivery and at weekly intervals for looseness, fracture, bends, sharp edges or surfaces and any other condition that may contribute to a human mishap or further deterioration of the equipment. We suggest a log be kept for this purpose.
- When broken, damaged or loose parts (or any condition that may represent a hazard) are observed, corrective action should be taken immediately. Inadequate attention to maintain the equipment can cause the prematurefailure of these parts. We suggest this information also be logged.
- The electrical boxes should be locked at all times to avoid casual entry by unauthorised persons as touching livecircuits is hazardous.
- Split, broken, warped, twisted or timber with excessive wane should be avoided or used with caution because of the greater possibility of the timber not being held securely.
- The equipment is not to be used for any other purpose than the joining of nail plates / MultiStruts to timber.

WARNING - This machine must only be operated by personnel who have been properly instructed in all aspects of the machine's safe operation.

They must also be wearing the recommended protective clothing and have thoroughly read and understood this operation and service manual.

SAFE OPERATING PROCEDURES (SOPS)

You should understand the following SOPs before operating the machine:

Minimum company standards	For more information, see...
Pre-operation	"Minimum company standards - pre-operation procedure" on page 12.
General	"Minimum company standards - general" on page 13.
Operation	"Minimum company standards - operation" on page 14.
Maintenance	"Minimum company standards - maintenance" on page 15.

For more information, see the next sections.

MINIMUM COMPANY STANDARDS - PRE-OPERATION PROCEDURE

The Mini10 operator will carry out the following safe work procedure before operating the machine:

Potential hazard	Safe work procedure
Safety	Ask questions if you have any doubts about doing the work safely. Check and adjust all safety devices.
Poor guarding	Ensure all supplied guards are fitted correctly and are adequately guarding nip points and moving parts. Make sure guards are in position and in good working condition.
Poor housekeeping	Inspect Mini10 and surrounding areas for obstructions and defects. Clean built up dirt and sawdust from around machine, electrical leads and power points.
Electrical faults	Inspect electrical leads for damage.
Incorrect or damaged components	Check machine for cracks, warping or misalignment. Check for leaking or defective components.
Incorrect machine settings	Check hydraulic pressures, travel speed and pressing action.
Material handling	Follow safe material handling guidelines.
Inoperable safety switches	Check that start/stop buttons, emergency stop buttons and safety bars are operating effectively.
Incorrect accessories	Use only the accessories designed for each specific machine and application.
Foreign objects	Check that foreign objects and tooling etc. are removed from the machine before turning the power on.

Warning! The Mini10 can be dangerous if not used properly.

MINIMUM COMPANY STANDARDS - GENERAL

The Mini10 operator will apply methods of safeguarding and safe working practices:

Potential hazard	Safe work procedure
Clothing	Do not wear loose clothing or work gloves, neckties, rings, bracelets or other jewellery that can become entangled with moving parts.
Protective equipment	Always wear correct Personal Protective Equipment including: hearing protection, safetyglasses, safety footwear.
Slip, trips and falls	Avoid awkward operations and hand positions where a sudden slip could cause hand or part of your body to move into the path of machine. Electric power cords should be above head level or in the floor in such a way that they are not tripping hazards. Floor areas and machine table should be level and non-slip. Clean up spills immediately.
Workplace	Use good lighting so that work piece, pressing head, and machine controls can be seen clearly. Position or shade lighting sources so they do not shine in the operator/s eyes or cause any glare or reflections. Ensure that the floor space around equipment is sufficient to enable you to fabricate the size of work piece being processed safely without bumping into other workers or equipment. Keep work area free of clutter, well swept, and well lit. Ensure precut stock is stacked in appropriate area to avoid accidental contact with sharp ends.
Machine capacity	Do not use the machine for any other purpose than that for which it is designed.
Housekeeping	Clean built-up foreign material, unused jigging/ tooling and dirt from around machine, electrical leads and power points.
Defects	Report all defects to the supervisor for appropriate action.

Warning! Do not operate a defective machine.

MINIMUM COMPANY STANDARDS - OPERATION

The Mini10 operator is responsible for adhering to safety rules and requirements while operating the machine:

Potential hazard	Safe work procedure
Personal protection	Wear safety glasses. Wear hearing protection that is suitable for the level and frequency of the noise you are exposed to in the woodworking area. Wear dust masks when required. Use gloves to protect hands from splinters when handling wood but do not wear them near machinery parts where the gloves can catch.
Machine guarding	Ensure SICK safety proximity sensor units are operational. Make sure all guards are in set positions.
Material defects	Inspect stock for nails or other foreign materials before pressing. Only use material and jigging designed for the machine.
Operator technique	Stand on the machine platform and adopt a secure stance. Operate levers to manoeuvre the machine. Make sure machine path is clear. Do not remove stock from a Mini10 table until the pressing head has been returned to its "resting' position. Instruct all other workers to stand clear when the machine is operational.
User warnings	Never place hands, arms or other body parts underneath the pressing platen or in the path of a moving machine. Always adhere to all attached safety and warning labels on machine.
Waste disposal	Waste and off cuts should be disposed of in the bin provided.
Unattended machine	Do not leave a running machine unattended – leave only after the machine has been turned off and it has come to a complete stop.

Warning! Do not distract or startle an operator while he or she is using the equipment. Horseplay can lead to serious injuries.

MINIMUM COMPANY STANDARDS – MAINTENANCE

The Mini10 operator may be responsible for maintenance, cleaning and blade changing of the machine:

Potential hazard	Safe work procedure
Cleaning and maintenance preparations	Turn the power off, isolate/tag and unplug the power cord (or lock out the power source) before inspecting, changing, cleaning, adjusting or repairs to the machine. Also turn the power off when discussing the work. Do not use compressed air to remove sawdust, etc., from machines or clothing.
Stop/start buttons	Make sure that start and stop buttons are in good working condition and within easy and convenient reach of an operator. Start buttons should be protected so that accidental contact will not start the machine.
Hydraulics	Ensure that all hydraulic components are in good working order. Check oil temperature and quality. Inspect and replace filters as per the maintenance manual.
Machine settings	Check hydraulic pressures, travel speed and pressing action.
Guarding	Ensure safety guards are fitted correctly, in good working condition and guard the machine adequately.

HAZARD IDENTIFICATION

This machine has been assessed for the following possible hazard types:

Hazard	Additional information
Crushing	The possibility of the operator crushing a hand is minimal if the guards are not removed and press is operated correctly as has been advised. As there is a possibility of the operator not seeing another person placing their hand in the press during operation, the machine should only be operated by one person during the pressing cycle and all other personnel to remain a distance of one metre from machine.
Cuts	The sharp teeth of nail plates could cut the operator. Care must be taken when handling nail plates. The operator could be cut by sharp edges on the table or press head caused by damage to the table or press head.
Electrical	The power requirement for the machine is 3 phase + E + N, 415 volts and is equipped with an overload Unauthorized persons must not alter or interfere with the electrical supply at any time.
Hydraulic oil	Oil spills are possible if the hoses or fittings become loose or damaged. Hoses could be damaged from constant rubbing against metal parts during operations and burst.
Slips, trips and falls	There is the potential to slip, trip or fall if good housekeeping practices are not adhered to and the work area is not kept free of saw dust, loose timber and offcuts.
Cleaning	The machine must be isolated from the power and locked at the Main Power Isolation Switch before any cleaning or maintenance is to be performed. The key is to be removed and kept by the personnel entering the operational area.
Ergonomics	The operators are required to be able to move freely around the front and rear of the machine. The machine working height cannot be adjusted. The machine cannot be operated while seated. The operators are not required to climb onto or into the machine while the machine is operating, loading or unloading. The operators must wear approved safety footwear, eye protection and hearing protection.
Guarding	The machine MUST NOT be operated with any of the guards removed. The machine is fitted with steel mesh guard on the operators control panel, to allow the operator to see the pressing operation.
Personal protective equipment	PPE is not supplied with this machine. The employer or end user is responsible to ensure that the correct type of PPE is supplied, that it is properly maintained and the user is trained in the correct fitting of the PPE.

Hazard	Additional information
Recommendations	That the operator is trained, on induction, of the dangers of crushing or cuts when operating the machine. The electrical system is to be serviced by a qualified electrician only. That all operators are walked through the operator's manual and all potential hazards are well known. That good housekeeping is maintained at all times to avoid the risk of slips, trips or falls. That approved eye and hearing protection is used at all times when operating the machine. That approved safety footwear is worn at all times when operating the machine. That if the machine is not operating as efficiently as specified, the operator notify their supervisor who in turn will notify the supplier. All guards and safety devices are not to be removed. The potential for a pedestrian to be injured is possible. It is recommended that a yellow line be painted on the floor on a one metre (1000mm) perimeter surrounding the workingarea of the machine.

FORESEEABLE MISUSE

Through experience, Spida Machinery's technical staff have listed (in order of occurrence) the most common misuses of the machine by operators, the resultant symptoms that result and the rectification required to address the misuse and return the machine to optimal working order:

Misuse	Symptom	Rectification
Harsh accelerating of the head drive.	Drive cog wear and breakage.	Replacement of cogs, retention of drive chain.
Harsh stopping of the head drive.	Drive cog wear and breakage.	Replacement of cogs, retention of drive chain.
Driving the head into the end stop.	Leg and head damage.	Structural repairs to the head frame and table ends.
Over-tightening of bolts on jigging table.	Shearing bolts.	Welding, drilling and tapping the bare holes.
Driving the head without disengaging the press from the material.	Drive chain or cog breaks.	Replacement chain and / or cogs.
Stamping/pressing.	Head damage.	Head O/H cylinder seal.
Non-specific material.	Damage.	Replace.

NOTE: *Any other misuse and resultant damage of the machine is deemed non – foreseeable as its occurrence is not consistent*

SPECIFICATIONS

The Mini10 has the following specifications:

NOTE: *Spida Machinery reserves the right to change the design and specification shown in this publication without notice in order to improve the product and/or its application.*

Feature	Details
Length	15,300mm
Width	Total: 4,460mm, Table: 3,040mm
Weight	15,000kg (approx.)
Working width	3,000mm
Working length	15,000mm
Travelling speed	78m/min
Pressing cycle	2.5 seconds
Pressing capacity	Standard 32t, Boost 45t
Press opening	20mm minimum 140mm maximum
Platen	600 x 3000mm platen width
Working pressure	1800 PSI
Maximum boost pressure	2200 PSI
Oil specification	Shell Tellus 46
Oil capacity	230l
Oil filter element	RTFE 6/10
Oil operating temperature	32°C to 75°C (90°F to 170°F)
Electrical motor	15 hp
Power requirement	30 Amps @ 415 Volts 3 Phase, 5 Pin, neutral and earth
Operation noise level	80-90 Db

NOTE: *One (1) hydraulic cylinder at 2200 PSI, gives 45 tonne force at the centre of the table.*

PARTS IDENTIFICATION

This section contains machine pictures and photographs showing the following key parts:

Part	For more information, see...
Mini10 overview	“Mini10 overview” on page 22.
Operating controls	“Operating controls” on page 23.
Electrical system	“Electrical system” on page 24.
Pump and motor	“Pump and motor” on page 25.
Hydraulic system	“Hydraulic system” on page 26.
Hydraulic oil level	“Hydraulic oil level” on page 27.
SICK unit	“SICK unit" on page 28.
Drive motor and drive wheels	“Drive motor and drive wheels” on page 29.
Grease banks	“Grease banks” on page 30.
Jigging	“Jigging” on page 31.
Footprint drawing	“Footprint drawing” on page 32.
Mini10 hydraulic schematic	“Mini10 hydraulic schematic” on page 33.
Mini10 electrical drawings	“Mini10 electrical drawings” on page 35.
SICK unit schematics	“SICK unit schematics” on page 37.

NOTE: *Due to improvements and design changes, there may be discrepancies between your actual machine and the illustrations in this manual.*

For more information, see the next sections.

MINI10 OVERVIEW

OPERATING CONTROLS

WARNING! The Emergency Stop Button will disable the machine indefinitely unless the problem is addressed; the switch is twisted anti-clockwise unlocking the push button.

SICK warning indicators

SICK warning indicators

Emergency stop

On

Power off/stop

Press up/ down

Press travel left/right

Pressure gauge

Pressure boost

ELECTRICAL SYSTEM

Hydraulic drive motor

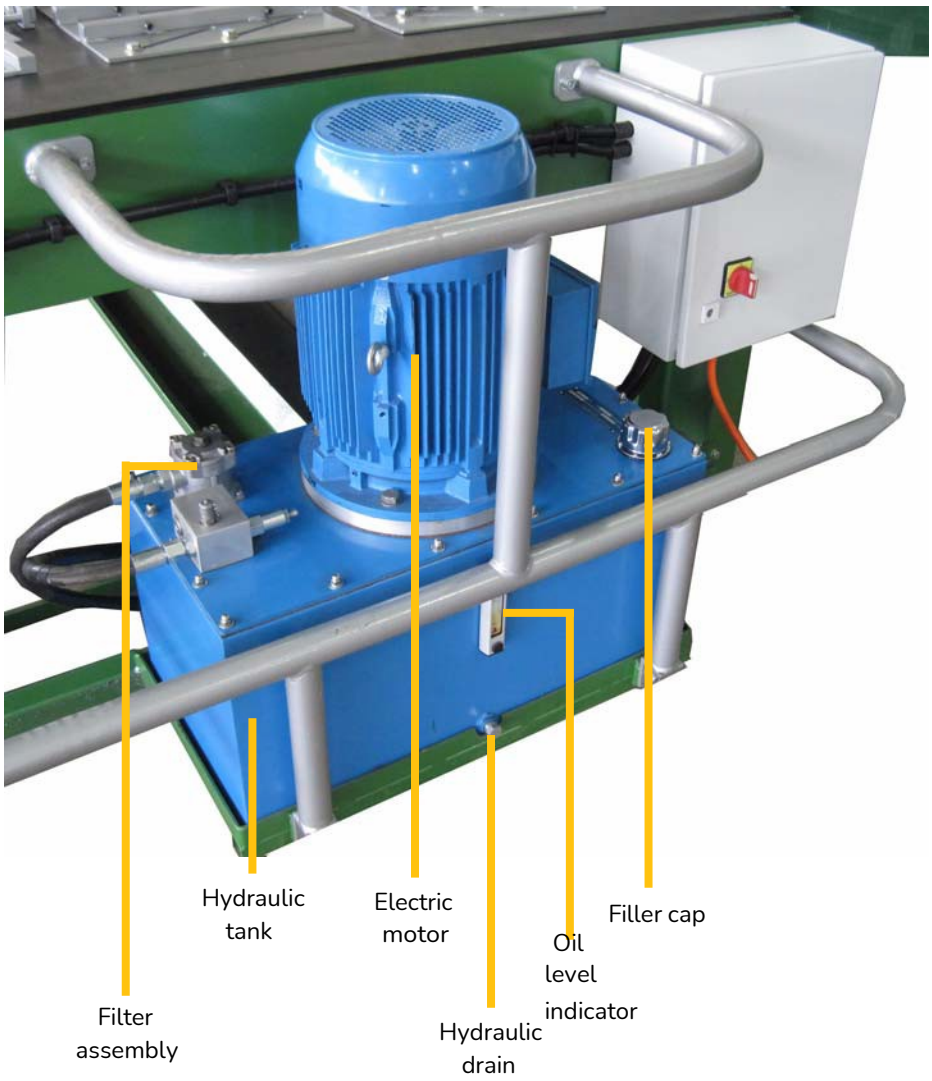
Grease bank

Electrical system guard

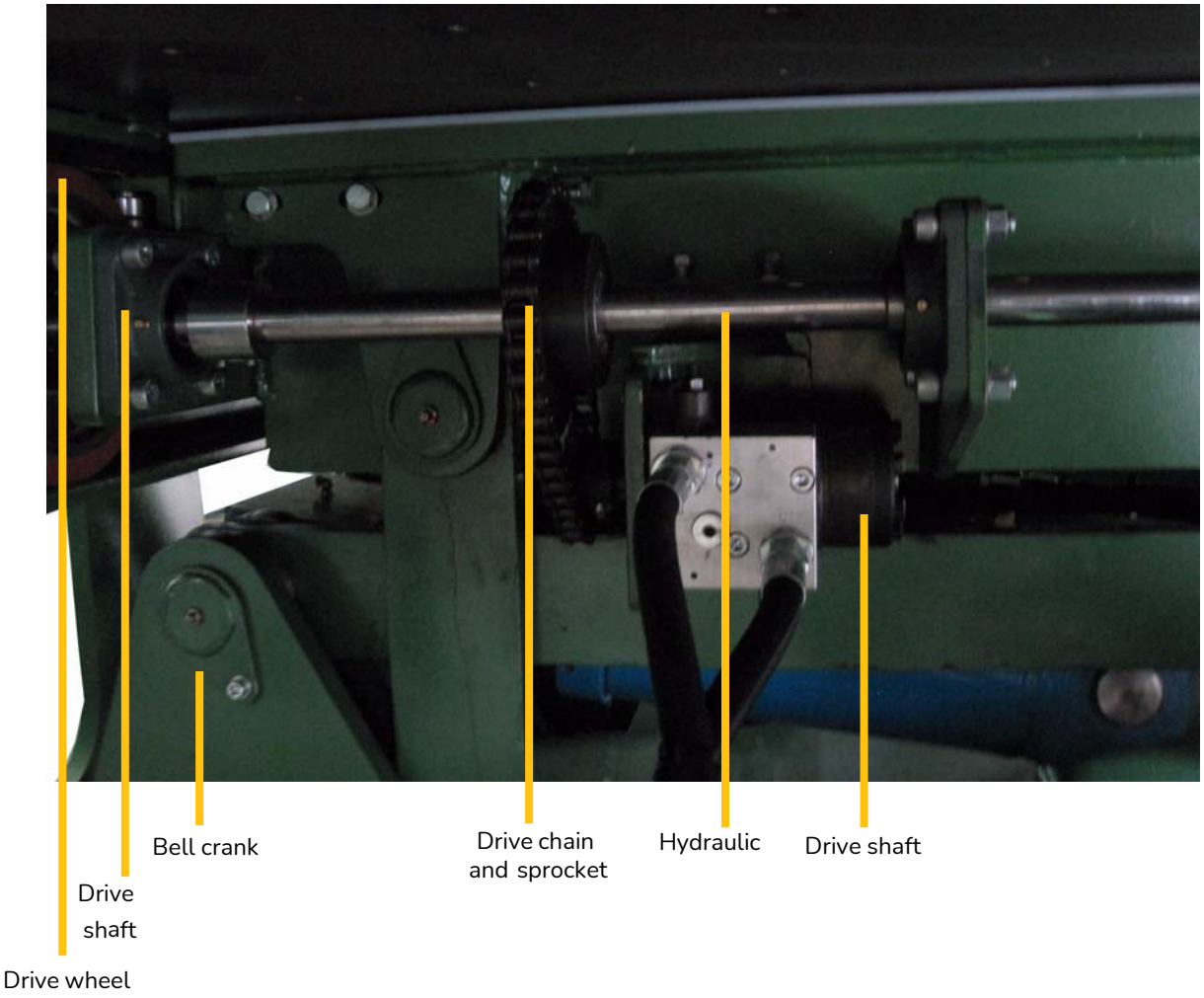
Electrical isolation switch

Electrical control cabinet

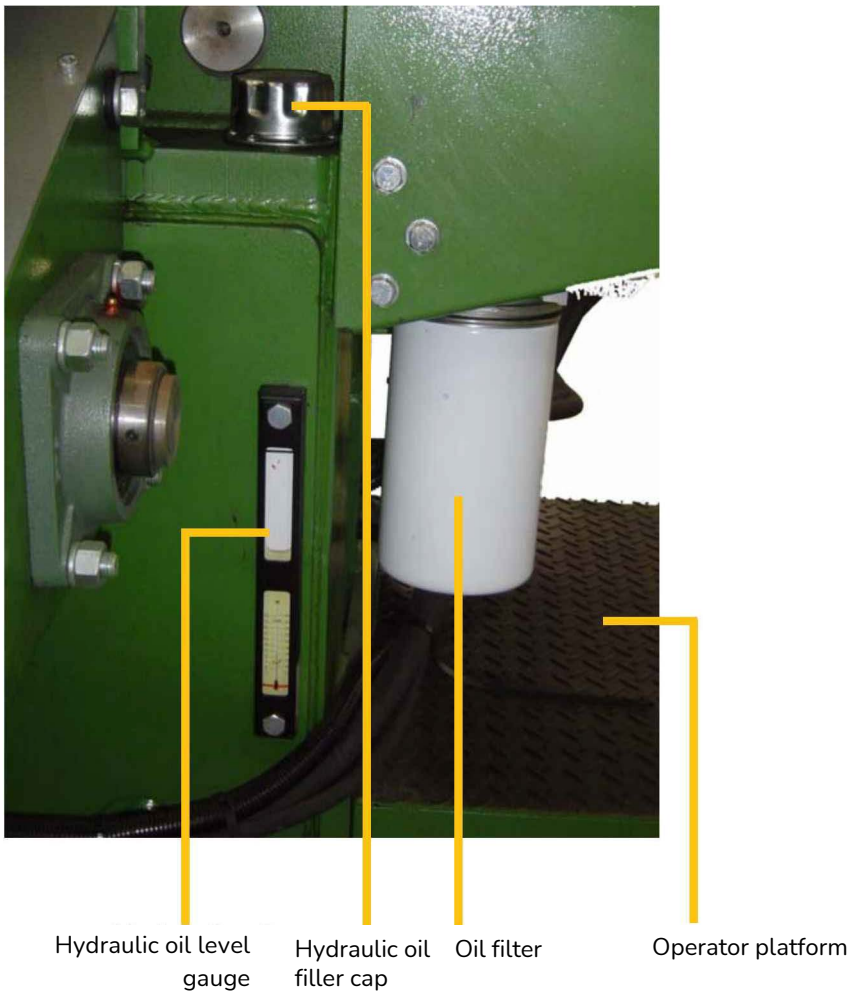
PUMP AND MOTOR



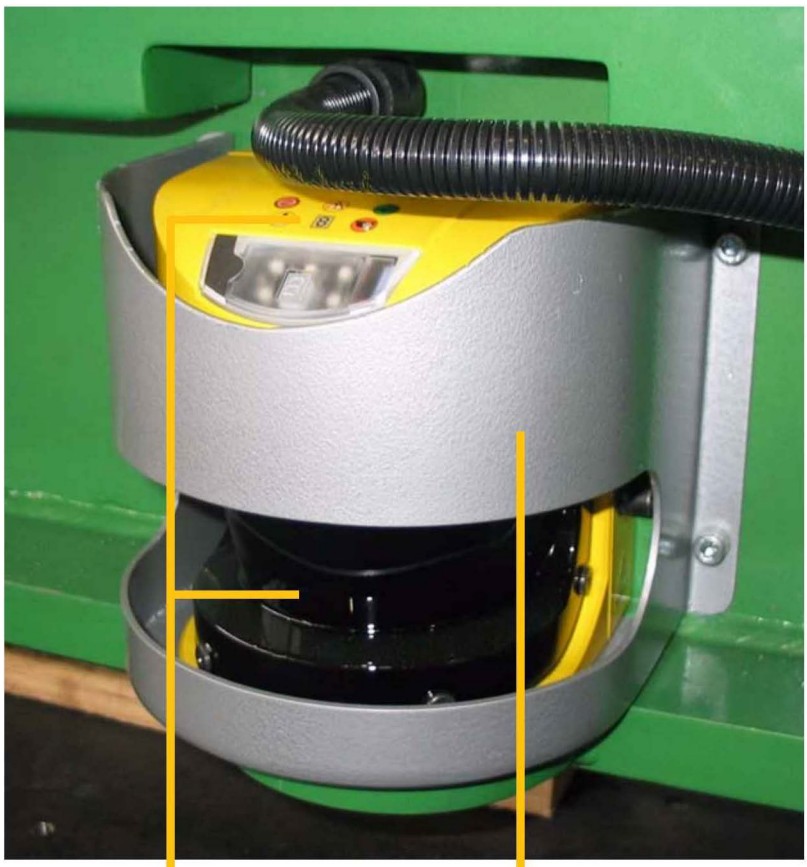
HYDRAULIC SYSTEM



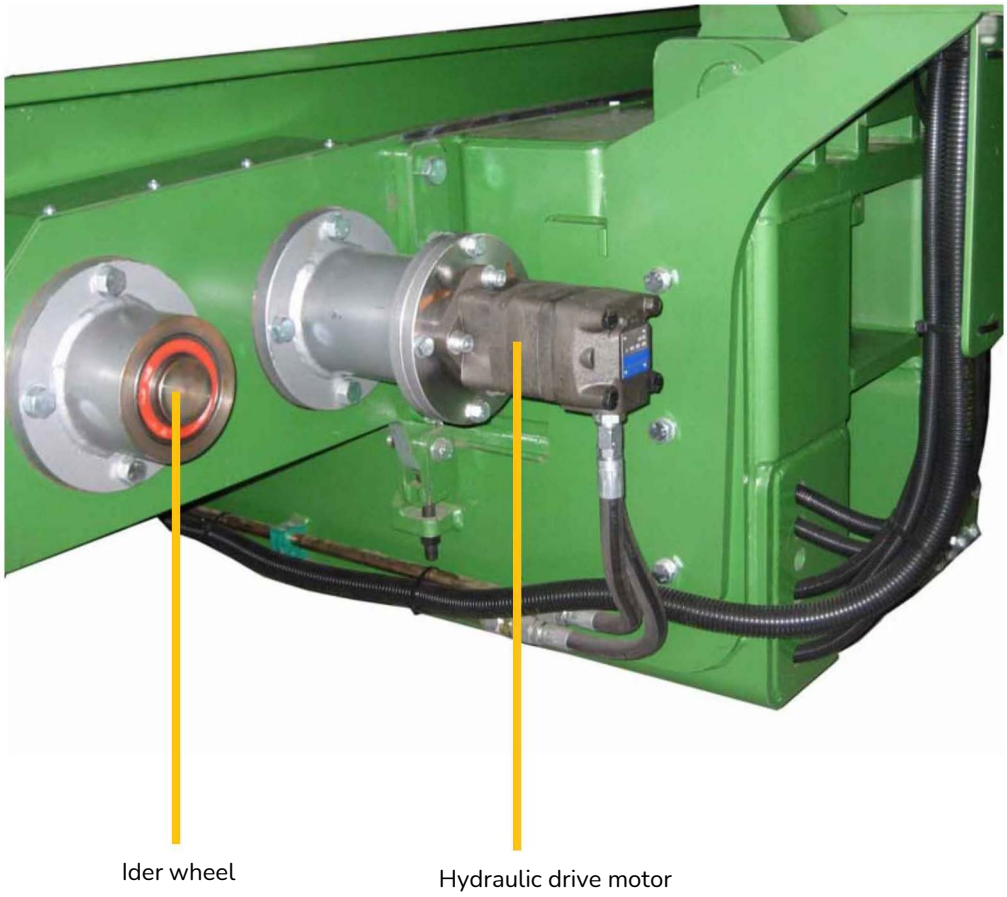
HYDRAULIC OIL LEVEL



SICK UNIT



DRIVE MOTOR AND DRIVE WHEELS

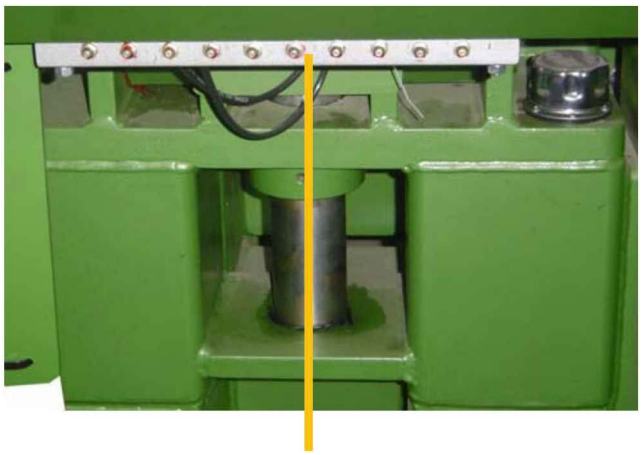


GREASE BANKS

The Mini10 has two grease banks:

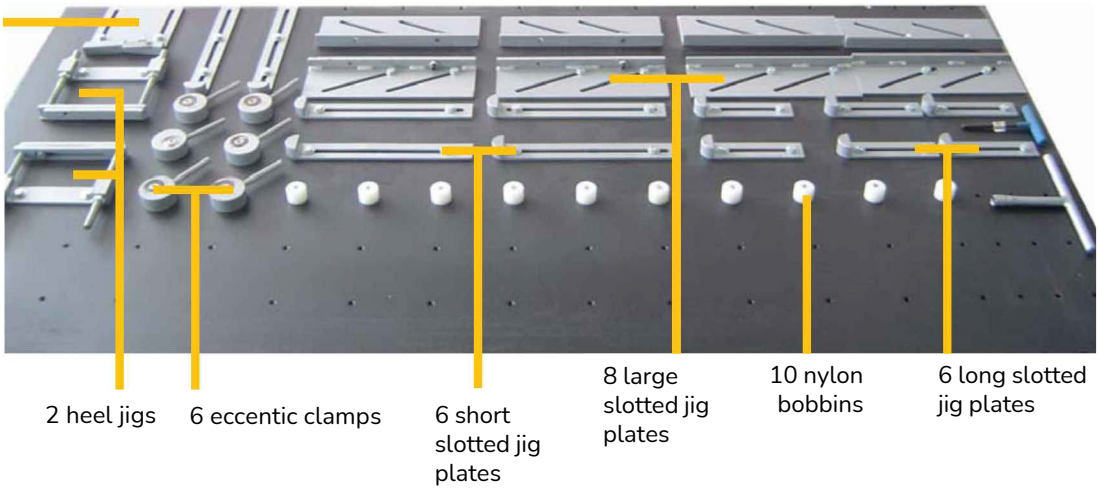
- **Horizontal grease bank** - located near the operator platform; and
- **Vertical grease bank** - located on the opposite side of the machine.

Grease bank

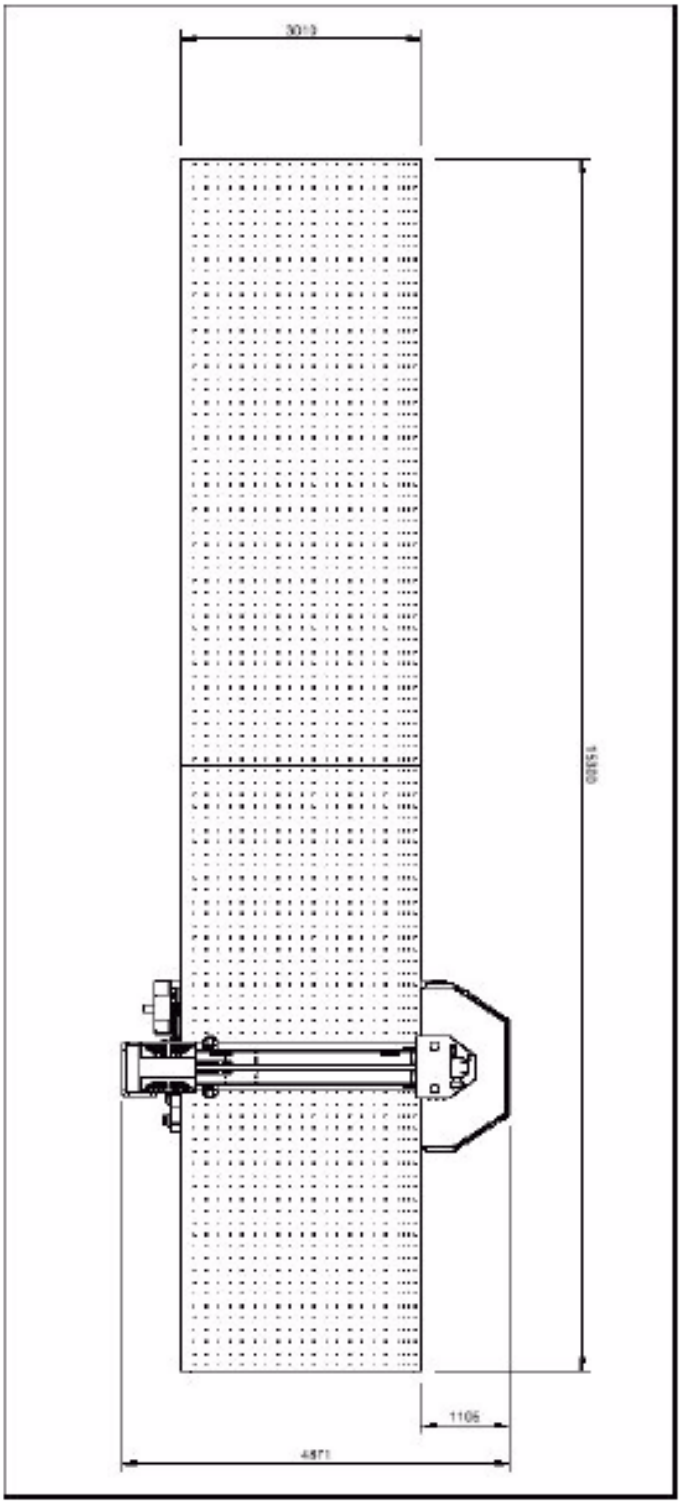


Grease bank

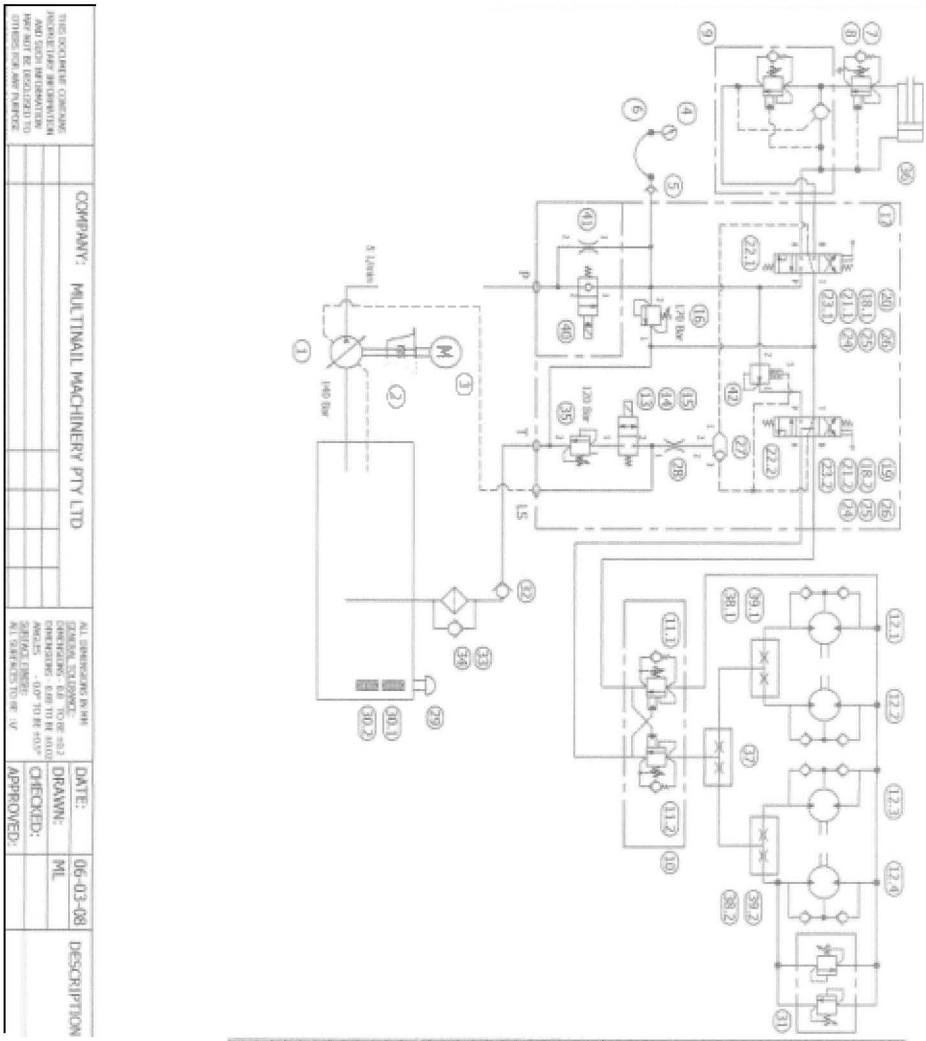
JIGGING


1 apex jig assembly
2 heel jigs
6 eccentic clamps
6 short slotted jig plates
8 large slotted jig plates
10 nylon bobbins
6 long slotted jig plates

FOOTPRINT DRAWING

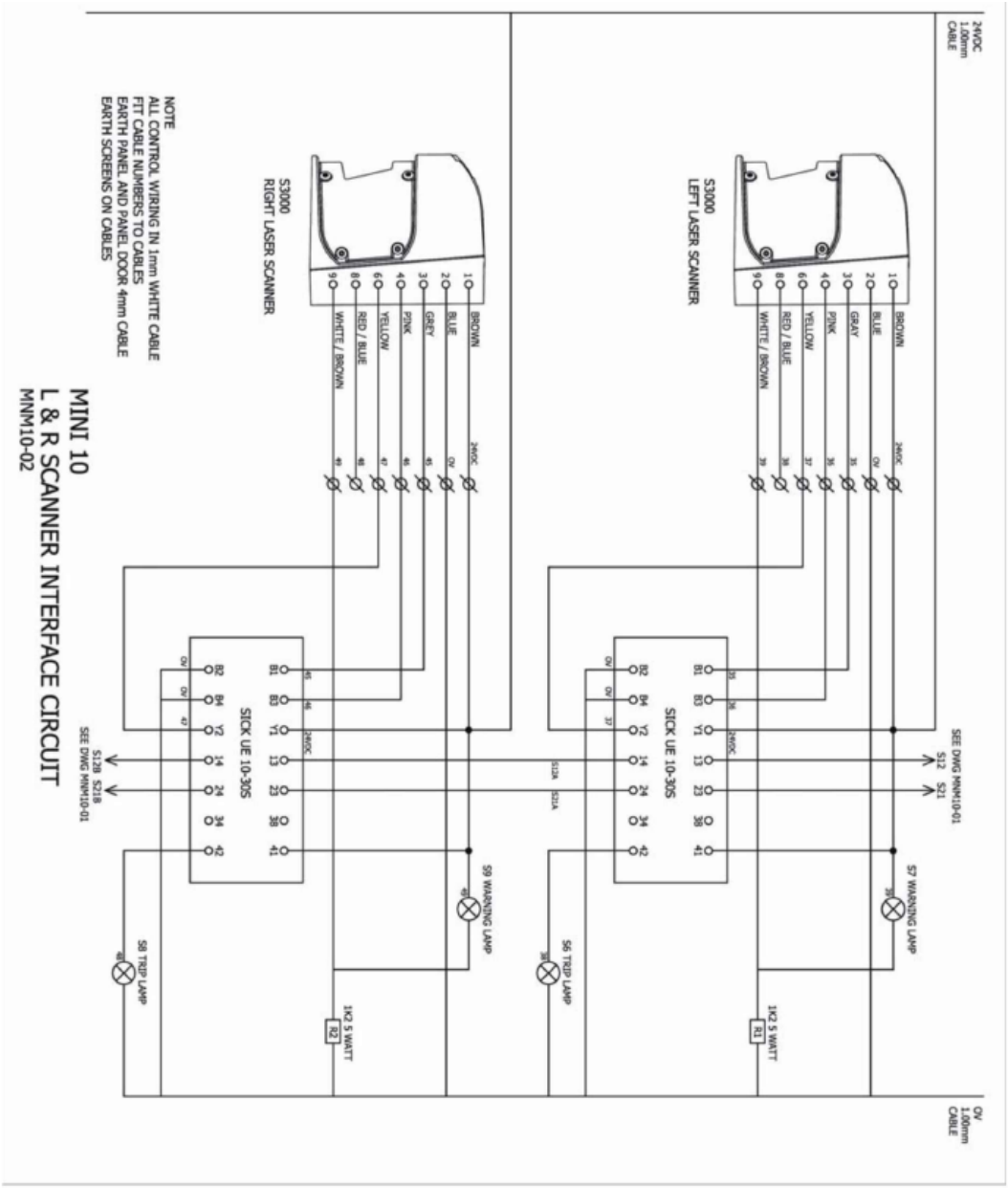


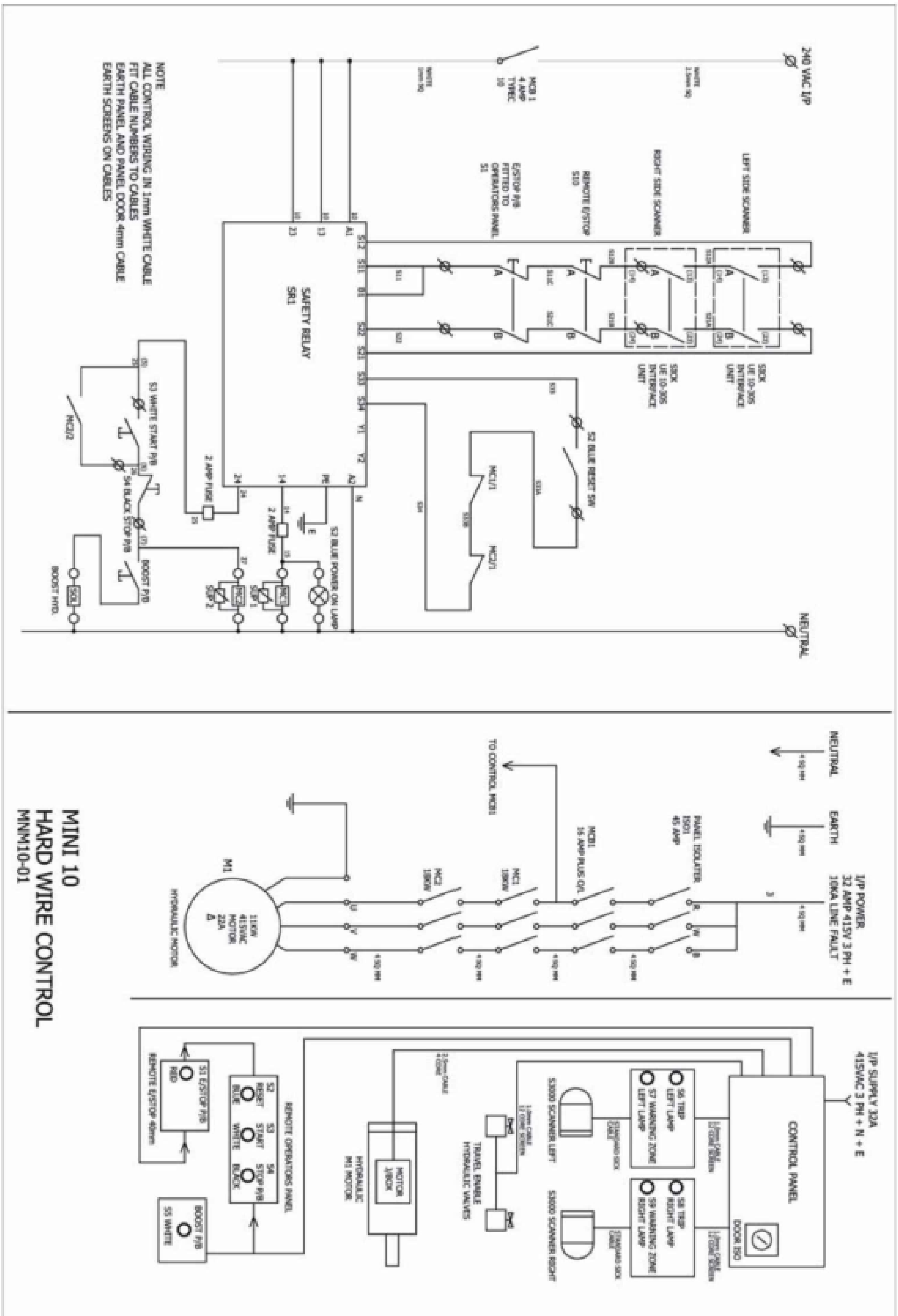
MINI 10 HYDRAULIC SCHEMATIC



ITEM #	QTY	MODEL CODE	DESCRIPTION	MANUFACTURER
1	1	AUSWB90GF8S32N3R-HBC-B0B0S1S0	PISTON PUMP	REXROTH
2	1	3272-0	SELF LOCKING COUPLING	REXROTH
3	1	1KH11.0-4NXBF	ELECTRIC MOTOR 11KW	HAMMELMANN
4	1	9441-0150	PRESSURE GAUGE	DMT
5	1	1.3DE-25.1L.G00	TEST POINT	SPEAKMAN
6	1	1.3471-02-H1-H0	TEST HOSE	SPEAKMAN
7	1	CWES-LHN	CHECK/RELIEF VALVE	LUN
8	1	M4M	BODY	SUN
9	1	1164-C18N-A4	SPOOL	SUN
10	1	CWDF1-C18N-A4	CHECK/ENTRY VALVE BODY	HERC
11	2	1164-C24N-F028	CHECK/ENTRY VALVE	HERC
12	4	357.7011.2-35-B-1	HYDRAULIC MOTOR	EPMS
13	1	PVL7.A.0051	PVL SOL VALVE	DELTA
14	1	PVL22	SOLENOID COIL 240VAC	DELTA
15	1	SBEL08220VAC	LIGHT DIN PLUG	DELTA
16	1	RVDA-10-A-S-0-30	RELIEF VALVE	COMMAND CONTROLS
17	1	M4/6x5-2	MANIFOLD	SUN
18	2	SBLD.0300	DBL CONTROL VALVE	WALVOIL
19	1	XCVH40-M40	SPOOL	WALVOIL
20	1	XCVH40M41	SPOOL	WALVOIL
21	2	DLSQ8F	OUTLET SECTION	WALVOIL
22	2	SVBB10R010	CENTRING SPRING	WALVOIL
23	4	SXTAP5040R0	CAVITY PLUG	WALVOIL
24				WALVOIL
25				WALVOIL
26				WALVOIL
27	1	BDDV-04-N-J-00	SHUTTLE VALVE	WALVOIL
28	2	FCUP-030	ORIFICE	COMMAND CONTROLS
29	1	TR2	FILLER BREATHER	DMT
30	1	L4TRDPT-CLEAR	OIL LEVEL GAUGE	DMT
31	1	VLHP40PR0008S	CROSS LINE RELIEF	EPMS
32	1	PPB15	CHECK VALVE	DMT
33	1	5011-10	FILTER HEAD	FILPRO
34	1	5015-10	FILTER RETURN	FILPRO
35	1	RVPD-08-N-S-0-30	RELIEF VALVE	COMMAND CONTROLS
36	1	HB-50.14-UF-A-2-4K-2.5*	HYDRAULIC CYLINDER	HYDRO-E
		INC-2-5*		
		SPECIAL ROD CLEVIS		
		SPECIAL BASE CLEVIS		
37	1	QMS1507084P3	FLOW DIVIDER	OIL CONTROLS
38	2	KCG1-H4N4/3G12	BODY	COMMAND CONTROLS
39	2	KCG1-H4N4/3G12	FLOW DIVIDER	COMMAND CONTROLS
40	2	PCKF-10-H-0-0-6	CHECK VALVE	COMMAND CONTROLS
41	1	SV12-20-0-N-0	HYDRAULIC LOCK	HYDRAULIC
42	1	PCDP-030	ORIFICE	COMMAND CONTROLS
	1	LCEF-10-H-F-5-0-160	NO LOGIC VALVE	COMMAND CONTROLS

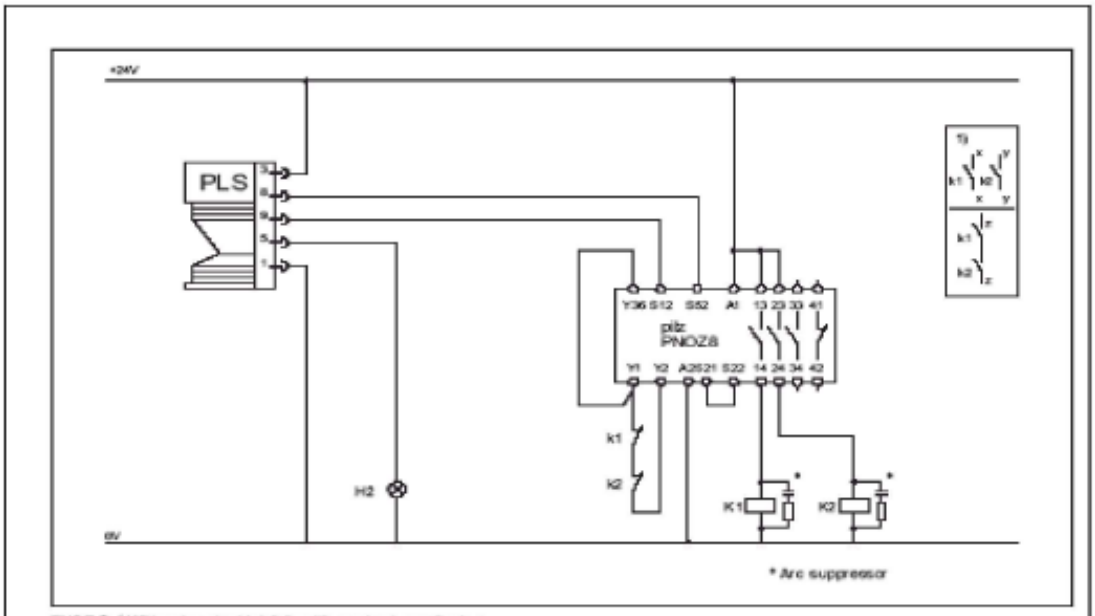
MINI10 ELECTRICAL DRAWINGS



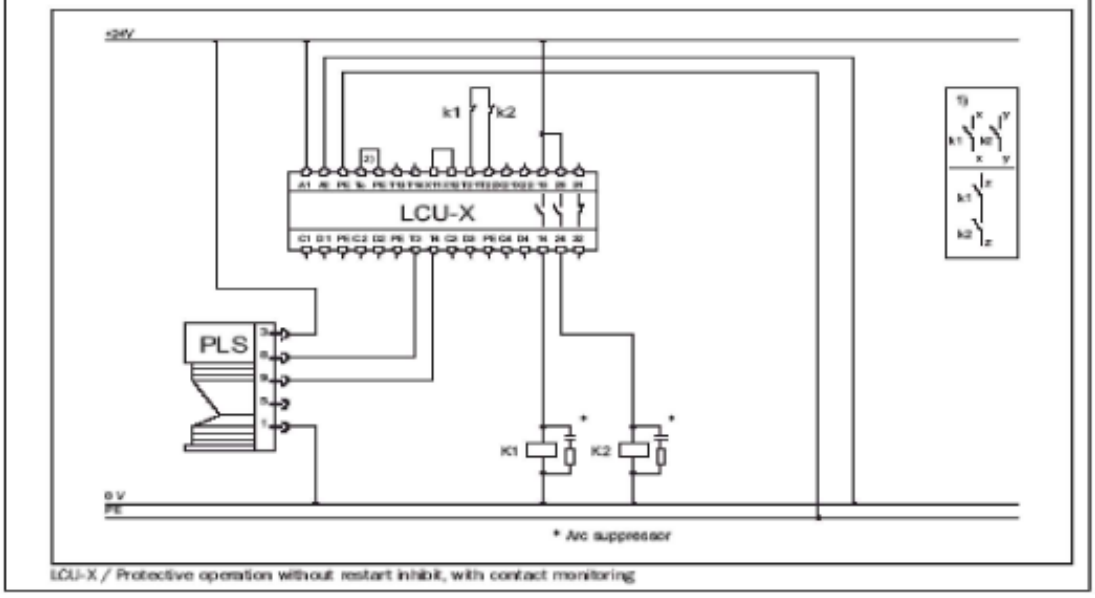

MINI 10
HARD WIRE CONTROL
240 VAC I/P
NEUTRAL
EARTH
SAFETY RELAY
SR1
CONTROL PANEL
HYDRAULIC MOTOR

SICK UNIT SCHEMATICS

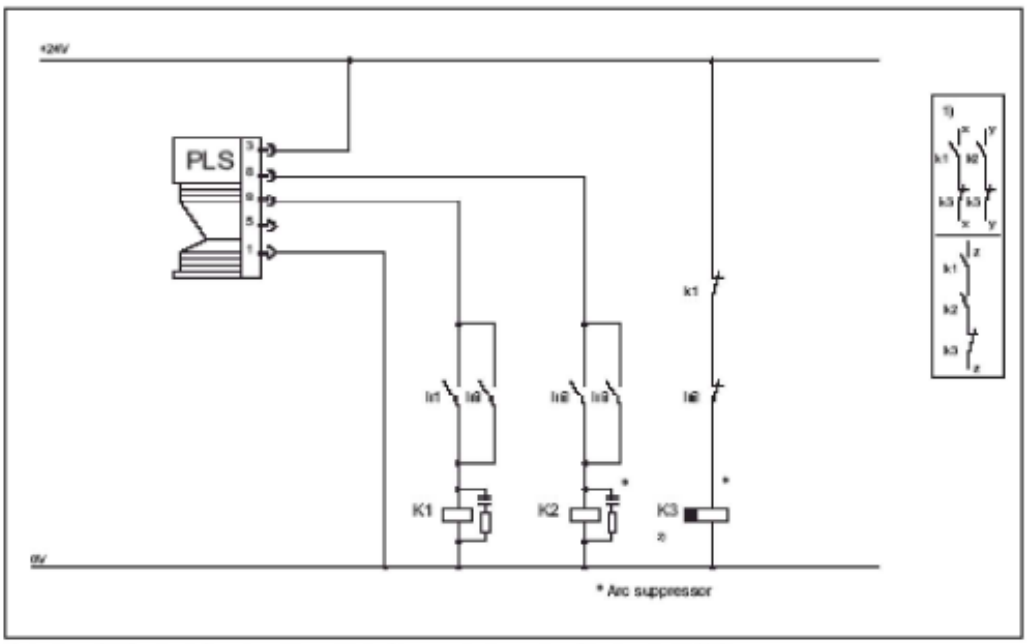
NOTE: *The following schematics are provided "as is" for information purposes only. Please contact Spida Machinery if you intend to work on the SICK unit electrical system*



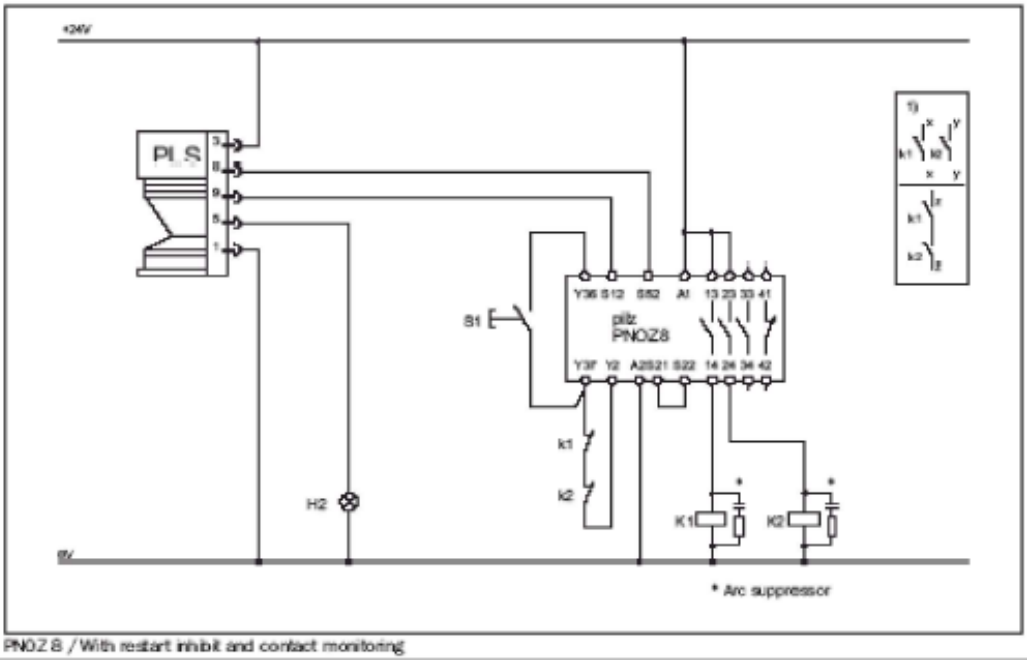
PNOZ 8 / Without restart inhibit, with contact monitoring



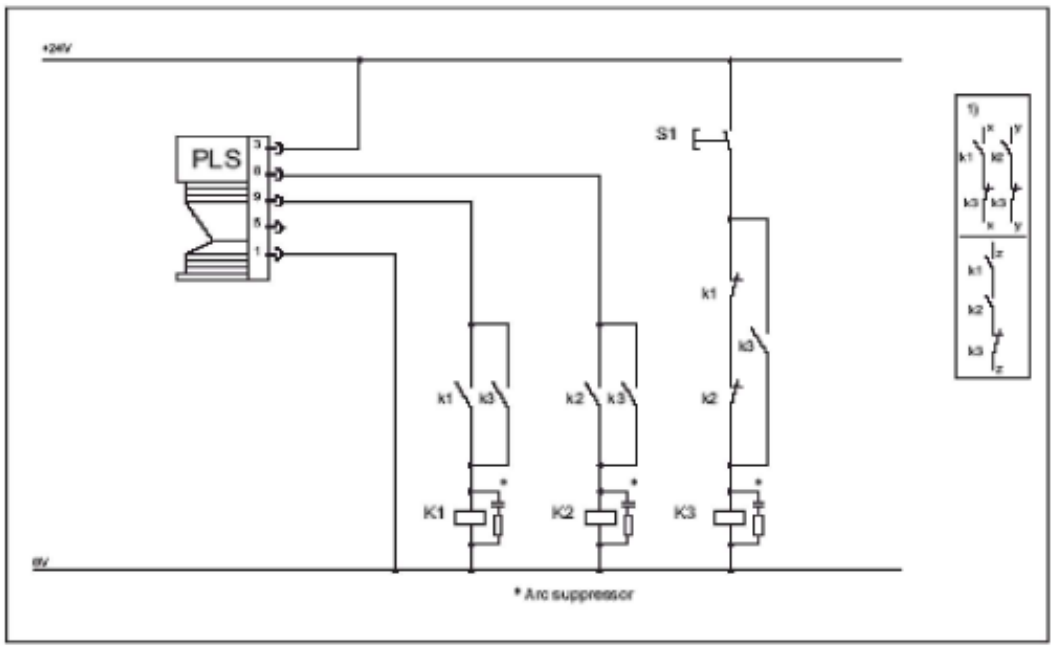
LCU-X / Protective operation without restart inhibit, with contact monitoring



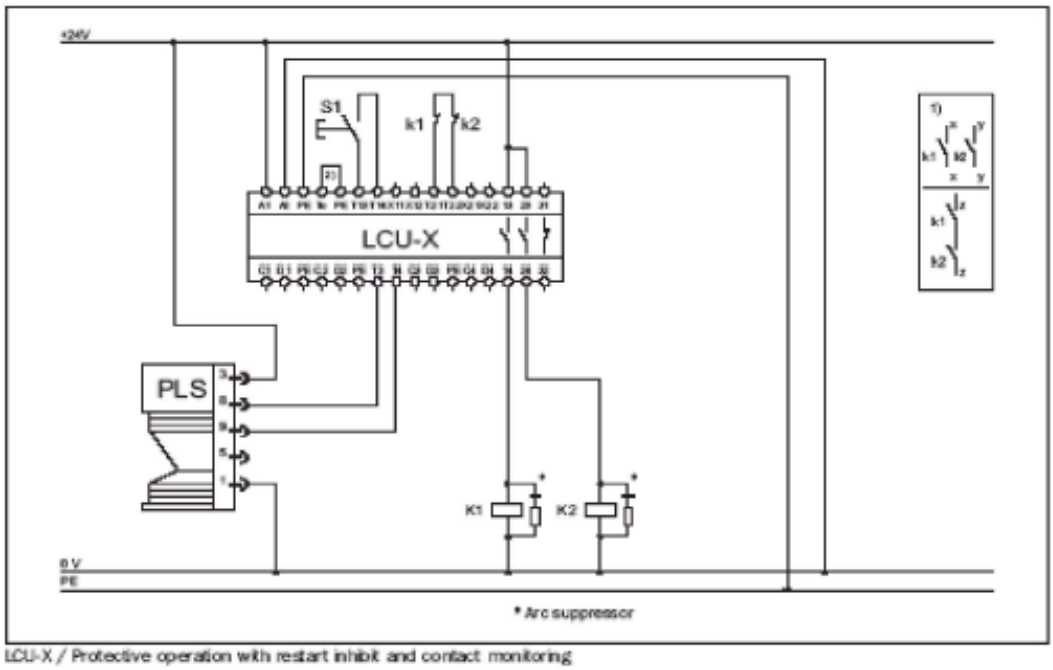
Evaluation of PLS outputs by relay with positively-driven contacts, mode: without restart inhibit



PNOZ 8 / With restart inhibit and contact monitoring



Evaluation of PLS outputs by relay with positively-driven contacts, mode: with restart inhibit



LCU-X / Protective operation with restart inhibit and contact monitoring

OPERATING INSTRUCTIONS

MANUAL HANDLING

Before operating this machine, care should be taken to ensure the operator has been given adequate instruction on the operation and safety aspects of this machine.

1. Safety Guards are secured and correctly positioned.
2. Ensure that the work area is clear and safe.
3. Check the operation of mechanical points prior to pressing.
4. Ensure that no pressing occurs within 100mm of the edge of the table.
5. Ease the travel lever when first operating the press to “feel” the variable speeds available.
6. Ensure that no persons are near the pressing area of the head when operating.
7. Ensure that all maintenance procedures have been carried out.
8. Isolate all power when work has completed.

MAINTENANCE INFORMATION

You should maintain and service your equipment using the following maintenance information:

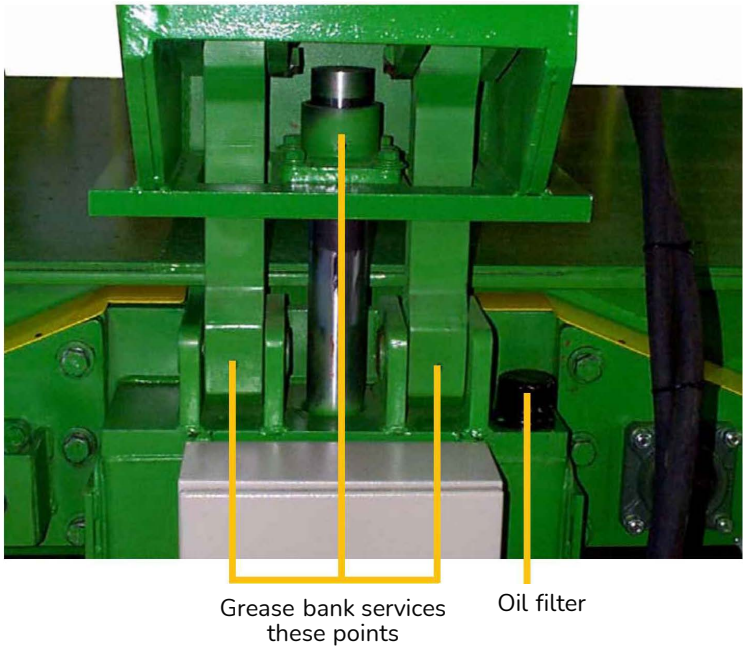
Maintenance	For more information, see...
Maintenance points	“Maintenance points” on page 44.
Daily maintenance schedule	“Daily maintenance schedule” on page 45.
Weekly maintenance schedule	“Weekly maintenance schedule” on page 46.
Bi-annual maintenance schedule	“Bi-annual maintenance schedule” on page 47.
Annual maintenance schedule	“Annual maintenance schedule” on page 48.

For more information, see the next sections.

MAINTENANCE POINTS

Spida Machinery recommends regularly monitoring the following points to help prolong the safety and life of your machine:

Checks	Machine
Daily checks	• Motor noise or vibration. • Smooth travel of pressing head in all directions. • Guards in place. • Remove all non-relevant materials from the work area.
Weekly checks	• All wires and hoses are not frayed or damaged. • Hydraulic oil level and temperature. • Monitor the pressing pressure. • Ensure the drive wheels have no excessive wear.



DAILY MAINTENANCE SCHEDULE

Service	Location	Procedure
Hydraulic: Oil Level	Sight gauge	Visual inspection. Maintain upper level. Loss of oil indicates leakage in system. Visually inspect head and working area for possible causes. Fill oil via the tank breather. Spida Machinery recommends using Shell Tellus 46
Hydraulic: Oil Temperature	Temperature gauge	Visual inspection. Temperature should be within recommended operating limits of 40° - 70°.
Hydraulic: Hoses, Fittings, Seals	Keep all connections tight	Inspect oil level through sight gauge. Visually inspect working area for oil leakage. If excessive oil appears anywhere on the press, take immediate corrective action. Bad leaks caused through hose breaks or component failure should be reported to Spida Machinery or selected Hydraulic Personnel.
Mechanical: Grease Points	Platen linkage bushes	Grease nipples are supplied on all major linkage joints. Spida Machinery recommends using a lithium based grease.
Mechanical: General Inspection	• Motor noise or vibration • Smooth operation of press head • Guarding In place • Clean Work Area.	Regularly undertake a visual inspection of the major components of the machine. Tighten nuts and bolts as required. Remove unnecessary items.
Electrical: General Inspection	Control panel	Test operating controls are functioning. Check emergency stop button works.
SICK Unit:		Wipe lens every day.

WARNING! Electrical power supply must be isolated from machinery and appropriate danger tagging in places whenever any maintenance is being performed on machinery. Any defects, which are found on inspection, should be rectified immediately and reported to the supervisor for appropriate action.

WEEKLY MAINTENANCE SCHEDULE

Service	Location	Procedure
Hydraulic: General		Refer daily maintenance schedule.
Hydraulic: System Pressure	Control panel	Ensure pressure reading is within recommended operating range of 1 PSi. Setting the operating pressure to high may cause damage to timber when pressing.
Hydraulic: Hoses, Fittings, Seals	Keep all connections tight	Check hydraulic system hoses are not frayed or damaged. Check hydraulic drive motor mount fasteners are tight. Bad leaks caused through hose breaks or component failure should be reported to Spida Machinery or selected Hydraulic Personnel.
Mechanical: General		Refer daily maintenance schedule. Apply 1-2 pumps to each grease bank point.
Mechanical: Operation	Wheels – press head	Check all four wheels for excessive wear. Check alignment of hydraulic drives. Wheel support bearing block fasteners are fixed and in place.
	Side thrust wheels	Check all four wheels for excessive wear. Check operation along table. **NOTE**: Only qualified personnel are to perform adjustments.
	Table rollers	Ensure rollers are adjusted equally and lock nut is fixed.
Mechanical: General	Jigging	Table jigging should be in good working order, free of any burrs or sharp edges. Remove any sharp edges or burrs. Ensure table jigging bolts are of appropriate length for use with table jigging.
	Press head	Press head and guide system should be checked for smooth operation and wear.
Electrical: General Inspection	Control panel	Test operational controls are functioning. Check emergency stop button works.
	Safety barrier	Check safety barriers functioning.
	Electrical power supply	All wires are not frayed or damaged. Trays and supply system support/attachment points for cleanliness/fixing

WARNING! Electrical power supply must be isolated from machinery and appropriate danger tagging in places whenever any maintenance is being performed on machinery. Any defects, which are found on inspection, should be rectified immediately and reported to the supervisor for appropriate action.

BI-ANNUAL MAINTENANCE SCHEDULE

Service	Location	Procedure
Hydraulic: General		Refer daily/ weekly maintenance schedule.
Hydraulic: System Pressure	Control panel	Ensure pressure reading is within recommended operating range of1800-2000 PSi. Setting the operating pressure to high may cause damage to timber when pressing.
Hydraulic: Hoses, Fittings, Seals	Keep all connections tight	Check hydraulic system hoses are not frayed or damaged. Check hydraulic drive motor mount fasteners are tight. Bad leaks caused through hose breaks or component failure should be reported to Spida Machinery or selected Hydraulic Personnel.
Mechanical: General		Refer daily/ weekly maintenance schedule.
	Major components	All components of machine will require a general inspection for signs of deterioration due to normal wear and tear of machine under operation. Check, adjust and tighten all major components. Check structural components for cracks or signs of fatigue.
	Table	Grease should be applied to the underside of the table.
Electrical: General Inspection	Control panel	Test operational controls are functioning. Check emergency stop button works.
	Safety barrier	Check safety barriers functioning.
	Electrical powersupply	All wires are not frayed or damaged. Check trays and supply system support/attachment points for cleanliness and fixing.

WARNING! Electrical power supply must be isolated from machinery and appropriate danger tagging in places whenever any maintenance is being performed on machinery. Any defects, which are found on inspection, should be rectified immediately and reported to the supervisor for appropriate action.

ANNUAL MAINTENANCE SCHEDULE

Service	Location	Procedure
Hydraulic: General		Refer daily/ weekly/6 monthly maintenance schedule.
Hydraulic: Oil Quality	Filter	Hydraulic oil filters will be required to be changed yearly. Oil quality should be checked when replacing the filter. If oil is found to have excessive contaminates it will be required to be replaced.
	Tank	Drain and clean oil tank with a clean cloth. Fill tank using Shell Tellus 46. Approx. 200 litres will be required.
Hydraulic: Hoses, Fittings, Seals	Keep all connections tight	Check hydraulic motor assembly and fixings. Check hydraulic system hoses are not frayed or damaged. Bad leaks caused through hose breaks or component failure should be reported to Spida Machinery or selected Hydraulic Personnel.
Mechanical: General		Refer daily/ weekly/ biannual maintenance schedule.
	Major components	All components of machine will require a general inspection for signs of deterioration due to normal wear and tear of machine under operation. Check, adjust and tighten all major components. Check structural components for cracks or signs of fatigue.
	Table	Grease should be applied to the underside of the table.
Electrical: General Inspection	Control panel	Test operational controls are functioning. Check emergency stop button works.
	SICK unit	Check SICK unit is funtioning correctly.
	Electrical powersupply	All wires are not frayed or damaged. Trays and supply system support/attachment points for cleanliness and fixing.

WARNING! Electrical power supply must be isolated from machinery and appropriate danger tagging in places whenever any maintenance is being performed on machinery. Any defects, which are found on inspection, should be rectified immediately and reported to the supervisor for appropriate action.

RISK ASSESSMENT

NOTE: *This information is included for information purposes only. Please contact Spida Machinery for the latest information or if you require a user-editable document:*

Risk Assessment Process - Part A
Hazard Identification and Risk Assessment for Machinery/Equipment or Plant

This checklist is a guide to assist in the Identification, Assessment, Control and Evaluation of hazards associated with plant.
It isn't an exhaustive list, some questions may not be relevant in all cases and in others additional questions may be required.

IDENTIFICATION of Plant or Machine	***Mini 10 Table Press***			
Intended uses of this Plant or Machine	*Manufacture of timber roof trusses*			
List any relevant Australian or other standard to which the plant design should conform?	AS 4024.1 Safeguarding of machinery Part 1 General principles			
List standards ⟨	AS 1453 Electrical equipment of industrial machines			

Date of this inspection		**Name of person conducting this Hazard Identification and Risk Assessment**		**Risk Assessment & Actions endorsed by worksite manager**	

	COMPLIANCE QUESTIONS General Documentation	NO	YES	ACTION
I.	Inspection testing and maintenance check sheets and records must be developed & available for all plant and equipment. **IS ACTION NEEDED TO SECURE AND DEVELOP THIS INFORMATION?**		✓	
II.	Safe Operating Procedures must be posted for this equipment? **IS ACTION NEEDED TO DEVELOP THIS INFORMATION?**		✓	
III.	A manufacturers operation manual should be available **IS ACTION NEEDED TO OBTAIN THIS INFORMATION?**		✓	
IV.	Results of this hazard identification must be made available to all users of the plant eg. In an operation manual or similar **IS ACTION NEEDED TO ENSURE THAT ALL USERS ARE NOTIFIED OF THIS HAZARD IDENTIFICATION?**		✓	

HAZARD CHECKLIST FOR **Machine/Equipment or Plant Name: Mini 10 Table Press**

COMPLIANCE QUESTIONS These questions relate to ELECTRICALLY POWERED fixed machines.

	All electrically powered fixed plant must conform to these points Answer each question for using a ✓ in the NO or YES response column For each **YES** response carry out a **Risk Assessment**	NO	YES	RISK ASSESSMENT Consequence	Likelihood	Exposure	Risk Rating	ACTION for electrical conformity should be done ASAP
a.	All electrically powered plant must be connected via an **individual** isolating switch that is **lockable** only in the **OFF position** **IS THERE AN ISSUE IN ACHIEVING THIS REQUIREMENT?**	N A						*This item is not covered in this assessment as the isolation of power will be the responsibility of the owner*
b.	The machine must be fitted with a Direct On Line (DOL) push-button type of Stop-Start control **IS THERE AN ISSUE IN ACHIEVING THIS REQUIREMENT?**	✓						
c.	The Start button must be **recessed or flush** with the switch body and be any colour other than red (Usually green or black) and be identified by the word START or the symbol I **IS THERE AN ISSUE IN ACHIEVING THIS REQUIREMENT?**	✓						
d.	Stop button/s must be red in colour, have a mushroom head or be proud of the switch body and be identified with the word STOP or the SYMBOL O **IS THERE AN ISSUE IN ACHIEVING THESE REQUIREMENTS?**	✓						
e.	The DOL Stop-Start control must have a "**no volt relay**" incorporated into the circuit **IS THERE AN ISSUE IN ACHIEVING THESE REQUIREMENTS?**	✓						
f.	Stop Control/s at **each operating position** must be within the easy reach of the operator/s at all times so that the machine can be stopped in an **emergency** **IS THERE AN ISSUE IN ACHIEVING THIS REQUIREMENT?**	✓						

51

This assessment assumes all safety sensors and guarding are in place and operating correctly.

HAZARD CHECKLIST FOR **Machine/Equipment or Plant Name: Mini 10 Table Press**

HAZARD IDENTIFICATION relating to the PLANT or MACHINE and its USE Identify precise issues on the lines under each question Answer the question for each issue using a ✓ in the NO or YES response column For each **YES** response carry out a **RISK ASSESSMENT**	No	Yes	RISK ASSESSMENT Consequence	Likelihood	Exposure	Risk Rating	ACTION Treatment of Risk Control Measures Taken
1 Are there any **Belt and Pulley, Gears or Chain Drive** systems that are not totally enclosed by a guard?							
a.	✓						
b.							
c.							
d.							
2 Are there any **Hydraulic Rams or Drive** systems that are not totally enclosed by a guard?							
a.	✓						
b.							
c.							
Questions 4 and 5 special note CONSIDER CONCURRENTLY	When allocating a LEVEL of RISK for any identified HAZARD in this section these two questions must be considered concurrently There is a possibility that features of the guarding considered in one question may negate the LEVEL of RISK raised by the other question						
3 Does the machine have any guards, covers, doors etc. designed to be removed or opened to gain access to Pulleys, Gears etc, that are **not interlocked**, (Micro switched), with the energy supply							
a. all guards and covers are bolted in to position.		✓	*15*	*3*	*1*	*45*	*Pre start checks to ensure that all guards are in place.*
b.							
c.							
4 Is it possible, when the machine is running, that any guards, covers, doors etc.can be removed or opened **without** the use of a **tool or key**?							
a.	✓						
b.							
c.							
5 Are there any **Unguarded Active Cutters or blades**? (Guarding normally achieved by manually adjustable guards or automatic guards)							
a.	✓						
b.							
c.							

52

HAZARD CHECKLIST FOR **Machine/Equipment or Plant Name:** **Mini 10 Table Press**

Questions on this page relate to areas of the machine NOT PREVIOUSLY ADDRESSED

HAZARD IDENTIFICATION relating to the PLANT or MACHINE and its USE Identify precise issues on the lines under each question Answer the question for each issue using a ✓ in the NO or YES response column For each **YES** response carry out a **RISK ASSESSMENT**	No	Yes	**RISK ASSESSMENT** Consequence	Likelihood	Exposure	Risk Rating	ACTION Treatment of Risk Control Measures Taken
6 Are there any **other** **exposed** and or **unguarded** moving or active parts? *a. the press head moves along the table.*		✓	*15*	*0.5*	*1*	*7.5*	*Operator to be trained to check all other workers are clear of the press head before operating.*
7 Are there aspects of any **Guards** that render them **ineffective**? *a. the guard that is fixed to the press head to prevent the operator reaching in to the press does not stop a person from reaching in from the end of the table*		✓	*15*	*0.5*	*1*	*7.5*	*Operator to be trained to check all other workers are clear of the press head before operating.*
b . The guard on the press head fixed below the table may becomes a pinch point. When the press head is moved close to the end of the table.		✓	*50*	*3*	*1*	*150*	*Pre start check that the guard is not pushed in against the press.*
8 Are there any **surfaces within the operator's reach**, which could cause injury if touched? *a.*	✓						
9 Is there any potential for parts of the body, hair or clothing to become **entangled or drawn** into the plant? *a.*	✓						
10 Is there any risk of a person becoming **trapped** and/or **crushed** by the machine or any moving part/s of the machine? *a. the operator may be caught between the press head and the table leg*		✓	*50*	*1*	*0.5*	*25*	*The operator to be instructed not to drive the press head all the way to the legs.*
11 Could the operator become **trapped and suffocate** whilst operating the plant? *a.*	✓						
12 Is there a potential hazard relating to **Access** and **Egress** for this plant? *a. workers climb on and jumping off the table*		✓	*15*	*3*	*6*	*270*	*This item must be reviewed on site by the purchaser.* *All workers should not climb on the table.*

HAZARD CHECKLIST FOR **Machine/Equipment or Plant Name:** **Mini 10 Table Press**

Questions on this page relate to areas of the machine NOT PREVIOUSLY ADDRESSED

HAZARD IDENTIFICATION relating to the PLANT or MACHINE and its USE Identify precise issues on the lines under each question Answer the question for each issue using a ✓ in the NO or YES response column For each **YES** response carry out a **RISK ASSESSMENT**	No	Yes	**RISK ASSESSMENT** Consequence	Likelihood	Exposure	Risk Rating	ACTION Treatment of Risk Control Measures Taken
13 Are there any parts of the machine that could cause a **cutting or puncture** injury? *a.*	✓						
14 Could materials, work pieces, parts of the machine or waste be **ejected and hit** the operator or other person in the vicinity? *a.*	✓						
15 Could any generated materials or waste **cause cuts or other injury** if touched? *a. Manual handling of nailplates may cause cuts*		✓	*1*	*6*	*3*	*18*	*Operators should use gloves to avoid such injuries*
16 Are there any areas within the operator's reach where a **shear hazard** is created between parts of the machine or between the machine and work piece? *a.*	✓						
17 Does any machine part move in such a way that it could **strike** the operator or anyone in the vicinity? *a. the press head moves along the bed.*		✓	*15*	*0.5*	*1*	*7.5*	*Operator to be trained to check all other workers are clear of the press head before operating.*
Questions 17 and 18 special note	When allocating a LEVEL of RISK for any identified HAZARD in this section these two questions must be considered concurrently There is a possibility that features of the action considered in one question may negate the LEVEL of RISK raised by the other question						
18 Is there a hazard from **lack** of an **emergency stop mechanism**? *a.*	✓						
19 Is there a hazard from **inaccessibility** of an **emergency stop mechanism**? *a.*	✓						

54

HAZARD CHECKLIST FOR **Machine/Equipment or Plant Name:** **Mini 10 Table Press**

Questions on this page relate to areas of the machine NOT PREVIOUSLY ADDRESSED

HAZARD IDENTIFICATION relating to the PLANT or MACHINE and its USE Identify precise issues on the lines under each question Answer the question for each issue using a ✓ in the NO or YES response column For each **YES** response carry out a **RISK ASSESSMENT**	No	Yes	**RISK ASSESSMENT** Consequence	Likelihood	Exposure	Risk Rating	ACTION Treatment of Risk Control Measures Taken
20 Is there potential for work to **move, loosen, shift or grab** during operation? *a.*	✓						
21 Does the operator need to over-reach, stretch, lift, carry or bend in such a way that it may cause **body strain**? *a. when adding components and removing completed job operators are required to lift.*		✓	*25*	*3*	*2*	*150*	*Job rotation and multiple workers are two strategies to correct this issue*
22 Is there a potential hazard from **insufficient lighting or the Stroboscopic Effect of the existing lighting**? *a.*	✓						*This issue must be considered by the purchaser*
23 Is there a potential hazard present relating to **Radiation** or **excessive light**? a.	✓						*This issue must be considered by the purchaser*
24 Is there a potential hazard present relating to **Gas, Vapour or Liquid** under pressure? *a. Hydraulic Fluid may escape if a high pressure line ruptures.*		✓	*25*	*1*	*1*	*25*	*Pre start check for tell tale signs of leaks*
25 Is there a potential hazard present relating to **Vibration**? *a.*	✓						
26 Is there a potential hazard present relating to Fire or excessively **high temperature**? *a.*	✓						
27 Is there a potential hazard present relating to Ice or excessively **low temperature**? *a.*	✓						

55

HAZARD CHECKLIST FOR **Machine/Equipment or Plant Name:** **Mini 10 Table Press**

Questions on this page relate to areas of the machine NOT PREVIOUSLY ADDRESSED

HAZARD IDENTIFICATION relating to the PLANT or MACHINE and its USE Identify precise issues on the lines under each question Answer the question for each issue using a ✓ in the NO or YES response column For each **YES** response carry out a **RISK ASSESSMENT**	**No**	**Yes**	**RISK ASSESSMENT** Consequence	Likelihood	Exposure	Risk Rating	ACTION Treatment of Risk Control Measures Taken
28 Is there a potential hazard present relating to **Explosion** potential? *a.*	✓						
29 Is there a potential hazard present relating to **Moisture or dampness**? *a.*	✓						
30 Is there a potential hazard present relating to **Pressure or vacuum**? *a.*	✓						
31 Is there a potential hazard present relating to **Electricity**? *a. Electricity short circuit*		✓	*100*	*0.1*	*0.5*	*5*	*Pre start check of any leads and electrical controls for faults, operator to be trained in the lockout procedure*
32 Is there a potential hazard present relating to **Excessive noise**? (Noise levels not to exceed 85db(A) *a.*	✓						
33 Is there a potential hazard present relating to **Dust or other atmospheric contaminants**? *a.*	✓						
34 Is there a potential hazard present relating to **Release of stored energy**? *a.*	✓						
35 Could there be a problem with **access** for, setting, maintenance or repair? *a.*	✓						

56

Table 5: Three Variable Risk Calculator					
Consequence	**C**	**Exposure**	**E**	**Likelihood**	**L**
Catastrophe: Multiple fatalities, permanent extensive environmental damage.	**100**	**Continuously** or many times daily.	**10**	**Almost certain:** The most likely outcome if the event occurs.	**10**
Disaster: Fatality, permanent local, damage to environment.	**50**	**Frequently:** Approximately once daily.	**6**	**Likely:** Not unusual, perhaps 50-50 chance.	**6**
Very serious: Permanent disability/ill health, non-permanent environmental damage.	**25**	**Occasionally:** Once a week to once a month.	**3**	**Unusual but possible:** (e.g. 1 in 10).	**3**
Serious: Non-permanent injury or ill health. Adverse effect on environment.	**15**	**Infrequent:** Once a month to once a year.	**2**	**Remotely possible:** A possible coincidence (e.g. 1 in 100).	**1**
Important: Medical attention needed, off-site emission but no damage.	**5**	**Rare:** Has been known to occur.	**1**	**Conceivable:** Has never happened in years of exposure but is possible (e.g. 1 in 1,000).	**0.5**
Noticeable: Minor cuts and bruises or sickness, small loss of containment, no off-site consequences.	**1**	**Very rare:** Not known to have occurred.	**0.5**	**Practically impossible:** Not to knowledge ever happened anywhere (e.g. 1 in 10,000).	**0.1**

Risk Score = C x E X L

Risk Score	Risk Rating
> 600	**Very High**
300-599	**High**
90-299	**Moderate**
< 90	**Low**

OPERATOR TRAINING CHECKLIST

NOTE: *This information is included for information purposes only. Please contact Spida Machinery for the latest information or if you require a user-editable document:*

Spida Machinery	
MINI 10 machine operator training checklist	
This checklist provides information on the safe use of the machine.	
This checklist does not remove the responsibility of the employer to conduct a risk assessment and implement the	
appropriate safe working procedures and training.	
The training officer will show and advise the following information to all operators.	
This checklist must be filled in at the machine with all operators. Please use a separate checklist for each operator.	

Table	***Checked***
Shown location of Mains Power electrical Isolation Switch	
Shown location of Hydraulic power pack start/stop switch	
Shown location of Hydraulic Drain Plug	
Shown Energy Chain location and where to inspect	
Shown correct locking pressure for jigging bolts	
Shown correct use of tooling	

Press Head	***Checked***
Shown location of Emergency Stop	
Shown how to Reset Emergency Stop	
Shown locationof Safety unit laser scanning device	
Shown location of Operating Pressure Gauge	
Shown how to Read Pressure Gauge	
Shown location of Hydraulic Power pack Start Button	
Shown location and operation of Left/Right Travel Push button	
Shown location of Press Up/Down Lever	
Shown location of press head pressure boost button	
Shown location of travel speed adjustment flow control	
Shown location of hydraulic drive motors and wheels	
Shown location of Regen Valve	
Shown location of Press Cylinder Control Valve	
Shown hydraulic drive chain tension adjustment	
Shown location of Hydraulic Cylinder - Pressing	
Shown location of head side thrust wheel mounts	
Shown how to adjust side thrust wheel pressure	
Shown location of Hydraulic Tank Oil level gauge	
Shown location of Oil Filter	
Show location of electrical panel	
Shown location of hydraulic pump	
Shown location of hydraulic electric drive motor	
Shown grease points on head linkages and guide rods	
Shown table support rollers	
Advised on adjusting and setting table support rollers	

Machine Operation	*Checked*
Has read and understands the Operation And Service Manual	
Has read and understands the Safe Operation Procedures	
Has read and understands the Risk Assessment	
Has been shown how to operate the Mini10 from the control panel	
Has been shown correct start up procedure	
Has been shown how to equalise the pressing action of head	
Has been advised on application of timber for cross table support when pressing	
Has been advised on correct use of jigging supplied	
Has been advised on correct thread types to attach to jigging	
Has been shown how to reset safety scanner device	
Has been shown how to clean safety scanner device window	
Has been aadvised on safety guard design and application	

Safe Housekeeping Practices	*Checked*
Shown location of mains power switch on machine	
Shown location of emergency stop buttons on machine	
Mains power to be off before commencing any routine maintenance	
Advised to keep work area clean and cleat of trip and slip hazards	
Shown where and how to access maintenance points	
Check any electrical leads to the machine regularly for deterioration	
Ensure working area has adequate lighting	
Has read and understands the Maintenance Schedule	

VERIFICATION: *Training officer to complete this section*

Training Officer

Name :

Signature :

Date :

I, the undersigned, declare that:

I have been shown and instructed in the all of the above listed matters.

All the information in this document was shown and demonstrated to me by the instructor.

I have read and understand the Operation and Users Manual and Safe Operation Guideline

Training Checklist and Maintenance Schedule

Operator

Name :

Signature :

Date :

Witnessed by

Name :

Signature :

Date :

You must sign this original document and return to Spida Machinery.

Please keep a copy of the document on site in each employee file.

WARRANTY

M2012 Ltd, SPIDA Machinery, Tauranga, New Zealand, warrants the equipment listed below to the initial purchaser of the equipment only against defective workmanship and materials only, for a period of twelve (12) months from the date of shipment from SPIDA's factory, subject to the following conditions:

This warranty only applies if:

1. The attached copy of this warranty is signed by the initial purchaser and returned to SPIDA's address shown above within 14 days of shipment of the goods from SPIDA's factory.
2. The equipment is installed by SPIDA or its licensed installer.
3. Regular routine maintenance has been carried out on equipment in accordance with instructions in manual provided by SPIDA and proper housing and shelter provided for the equipment.
4. The equipment is operated by competent personnel in accordance with the operating instructions set out in the manual provided by SPIDA and not otherwise.
5. The equipment has not been subjected to alterations or repairs or dismantling without prior written approval of SPIDA. Any parts returned to SPIDA either for repair or consideration of a warranty claim consequent to an authorisation to dismantle must be shipped prepaid.
6. SPIDA may, at its option, either repair or replace the defective part upon inspection at the site of the equipment where originally installed. The warranty does not cover the cost of freight, Labour or traveling for the removal or replacement of the defective parts.
7. This warranty does not apply to any deterioration due to average wear and tear or normal use or exposure.
8. In all warranty matters, including any question of whether this warranty applies to any claim, the decision of SPIDA is final.

This warranty is the only warranty made by SPIDA as the manufacturer and is expressly in lieu of and excludes all other warranties, conditions, representations and terms expressed or implied, statutory or otherwise, except any implied by law and which by law cannot be excluded. Neither SPIDA or its agents or servants will be liable in any way for any consequential loss, damage or injury including any loss of use, profits or contracts.

The law applicable to this warranty shall be the law of New Zealand and the parties hereto submit to the exclusive jurisdiction of the Courts of New Zealand.

MACHINERY/EQUIPMENT INFORMATION

The item bearing the following serial plate:

Information	Details
Serial plate	
Date of shipment	
Signed by (on behalf of Spida Machinery)	
Name	
Position	

Acceptance of warranty

I acknowledge and accept the contents of this warranty:

Information	Details
Signed by (on behalf of the initial purchaser)	
Name	
Company	
Position	
Date	

TRAINING CERTIFICATION

Instructor details:

Information	Details
Instructor	
Position	
Company	
Date	
Signed	

I the undersigned declare that I have been instructed in the safe operation of this Mini10.
I declare that all information in this document was demonstrated and explained to me by the instructor.

I further declare that I have thoroughly read and understand the ***Mini10 Op & Service Manual*** and additional information:

Information	Details
Name	
Position	
Company	
Date	
Signed	

Witnessed by:

Information	Details
Name	
Position	
Company	
Date	
Signed	

Index

For more information please visit

www.Spida.com

A: 164 Taurikura Dr - Tauriko - Tauranga 3171 - New Zealand
P: + 64 7 579 5010 - Toll free: 0800 774 327 - E: info@spida.com

A: 1 Clark Road - Shelbyville , IN 46176 - United States
P: + 1 866 647 7771 - Toll free: 1888 262 9476 - E: info@spida.com

SPIDA MACHINERY