

# Mini 3

## Operation & Service Manual





---

# Contents

<b>About this document.....</b>	<b>3</b>
Who will use this manual? .....	3
Prerequisite knowledge.....	3
What's in this document?.....	3
Document conventions .....	4
Support.....	4
<b>What is a Mini 3.....</b>	<b>5</b>
Key features.....	5
Serial plate .....	5
Recommendations.....	6
Handling recommendations .....	6
Transport recommendations .....	6
Installation recommendations.....	6
Machine commissioning .....	6
<b>Machinery usage warning.....</b>	<b>7</b>
<b>Safety information.....</b>	<b>9</b>
Safety information.....	10
User warnings .....	11
Safe operating procedures (SOPs).....	12
Minimum company standards - pre-operation procedure.....	13
Minimum company standards - general.....	14
Minimum company standards - operation.....	15
Minimum company standards - maintenance.....	16
Hazard identification.....	17
Foreseeable misuse .....	18
<b>Specifications.....</b>	<b>19</b>
<b>Parts identification.....</b>	<b>21</b>
Mini 3 overview .....	22
Operator area .....	23
Operating controls.....	24
Lower head assembly .....	25
Hydraulic motor.....	26
Hydraulic drive system .....	27
Hydraulic flow control valve.....	28
Footprint drawing .....	29
Mini 3 hydraulic schematic .....	30
Jigging.....	31
<b>Operating instructions .....</b>	<b>33</b>
Manual handling .....	33
<b>Maintenance information .....</b>	<b>35</b>
Maintenance points.....	36
Daily maintenance schedule .....	37
Weekly maintenance schedule.....	38
Bi-annual maintenance schedule .....	39
Annual maintenance schedule.....	40

---

Risk assessment .....	41
Operator training checklist.....	51
Warranty .....	55
Machinery/equipment information .....	56
Training certification .....	57
Index .....	59

# ABOUT THIS DOCUMENT

This section provides information about this document.

## WHO WILL USE THIS MANUAL?

This manual is the Mini3 Operation and Service Manual designed to show you how to use the functions in the current release of Mini3.

## 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 Mini 3" 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 33.
Read the risk assessment.	"Risk assessment" on page 41.
Read the warranty.	"Warranty" on page 55.
Complete the mandatory training certification.	"Training certification" on page 57.

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...
<b>Bold</b>	<b>Bold</b>	Menu option that you can select, or a button/icon that you can click to activate.
<b>Double quotes</b>	""	Cross-reference to another section in the document. For example, see "Document conventions" on page 5.
<b>Bold italic</b>	<b><i>Bold italic</i></b>	Reference to another different document. For example, the <b><i>Mini3 Operation and Service Manual</i></b> .
<b>Blue underline</b>	<a href="#">Blue underline</a>	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 <a href="#">Purple underline</a> to indicate you have used (or "visited") the hyperlink.
<b>Note</b>	<b>NOTE:</b>	Important information that you should know.

## SUPPORT

For all Mini3 support issues, please contact Spida Machinery Support.

## WHAT IS A MINI 3

The Mini3 table press is designed primarily for pressing nail plate into timber.

The Mini3 may have floor strut jiggging attached, or other forms of jiggging 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

Mini3 has the following key features:

Feature
Variable speed drive to allow fabricators to drive the machine to suit their needs.
Large safety screen to ensure all body parts are kept well clear of pressing area.
30 Tonne pressing capacity.
Adjustable jiggging and base plates.
SICK AG Industrial Safety System safety laser scanning system that stops the press if foreign objects are detected within a specified distance.
(Optional) Floor strut jiggging - 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 jiggling 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 5mm 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 with all relevant legislation.

As the Original Equipment Manufacturer (OEM) of Spida machinery, Spida Machinery has a duty of care to advise you that this 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 Mini3 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 **Mini3 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 Mini3.

A second copy should be made available to each employee for their reference.

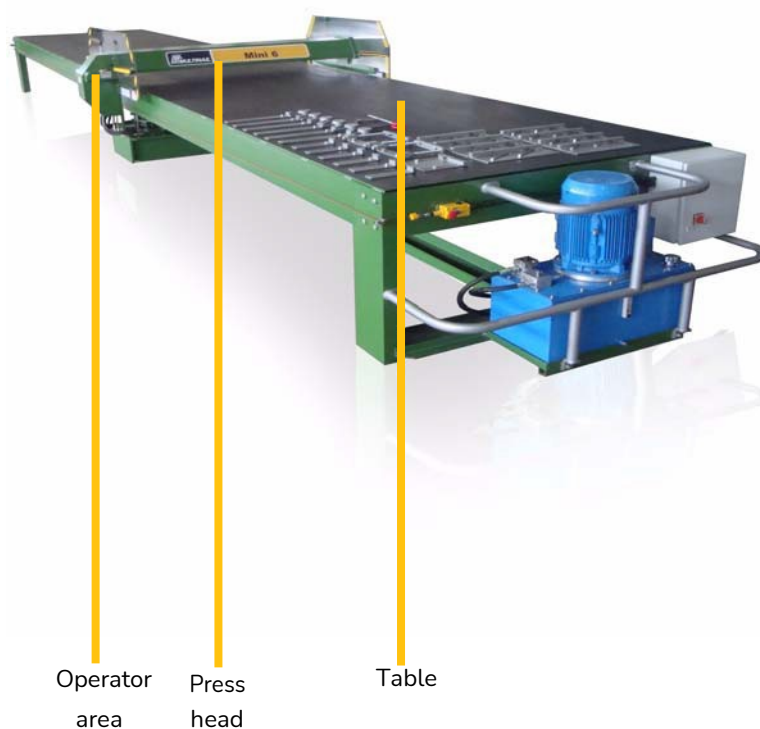
This machine must only be operated by personnel who have been properly instructed in all aspects of the machine's safe operation.

**NOTE:** *This **Mini3 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 Mini3.



- **Operator area** - 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 jiggging should be placed between the press and the table. Before pressing, remove all surplus tools, timber, and jiggging 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 premature failure 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 live circuits 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...
<b>Pre-operation</b>	"Minimum company standards - pre-operation procedure" on page 12.
<b>General</b>	"Minimum company standards - general" on page 13.
<b>Operation</b>	"Minimum company standards - operation" on page 14.
<b>Maintenance</b>	"Minimum company standards - maintenance" on page 15.

For more information, see the next sections.

### MINIMUM COMPANY STANDARDS - PRE-OPERATION PROCEDURE

The Mini3 operator will carry out the following safe work procedure before operating the machine:

Potential hazard	Safe work procedure
<b>Safety</b>	Ask questions if you have any doubts about doing the work safely. Check and adjust all safety devices.
<b>Poor guarding</b>	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.
<b>Poor housekeeping</b>	Inspect Mini3 and surrounding areas for obstructions and defects. Clean built up dirt and sawdust from around machine, electrical leads and power points.
<b>Electrical faults</b>	Inspect electrical leads for damage.
<b>Incorrect or damaged components</b>	Check machine for cracks, warping or misalignment. Check for leaking or defective components.
<b>Incorrect machine settings</b>	Check hydraulic pressures, travel speed and pressing action.
<b>Material handling</b>	Follow safe material handling guidelines.
<b>Inoperable safety switches</b>	Check that start/stop buttons, emergency stop buttons and safety bars are operating effectively.
<b>Incorrect accessories</b>	Use only the accessories designed for each specific machine and application.
<b>Foreign objects</b>	Check that foreign objects and tooling etc. are removed from the machine before turning the power on.



**Warning! The Mini3 can be dangerous if not used properly.**

## MINIMUM COMPANY STANDARDS - GENERAL

The Mini3 operator will apply methods of safeguarding and safe working practices:

Potential hazard	Safe work procedure
<b>Clothing</b>	Do not wear loose clothing or work gloves, neckties, rings, bracelets or other jewellery that can become entangled with moving parts.
<b>Protective equipment</b>	Always wear correct Personal Protective Equipment including: hearing protection, safetyglasses, safety footwear.
<b>Slip, trips and falls</b>	<p>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.</p> <p>Electric power cords should be above head level or in the floor in such a way that they are not tripping hazards.</p> <p>Floor areas and machine table should be level and non-slip.</p> <p>Clean up spills immediately.</p>
<b>Workplace</b>	<p>Use good lighting so that work piece, pressing head, and machine controls can be seen clearly.</p> <p>Position or shade lighting sources so they do not shine in the operator/s eyes or cause any glare or reflections.</p> <p>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.</p> <p>Keep work area free of clutter, well swept, and well lit.</p> <p>Ensure precut stock is stacked in appropriate area to avoid accidental contact with sharp ends.</p>
<b>Machine capacity</b>	Do not use the machine for any other purpose than that for which it is designed.
<b>Housekeeping</b>	Clean built-up foreign material, unused jigging/ tooling and dirt from around machine, electrical leads and power points.
<b>Defects</b>	Report all defects to the supervisor for appropriate action.



**Warning! Do not operate a defective machine.**

## MINIMUM COMPANY STANDARDS - OPERATION

The Mini3 operator is responsible for adhering to safety rules and requirements while operating the machine:

Potential hazard	Safe work procedure
<b>Personal protection</b>	<p>Wear safety glasses.</p> <p>Wear hearing protection that is suitable for the level and frequency of the noise you are exposed to in the woodworking area.</p> <p>Wear dust masks when required.</p> <p>Use gloves to protect hands from splinters when handling wood but do not wear them near machinery parts where the gloves can catch.</p>
<b>Machine guarding</b>	<p>Ensure safety bars are operational.</p> <p>Make sure all guards are in set positions.</p>
<b>Material defects</b>	<p>Inspect stock for nails or other foreign materials before pressing.</p> <p>Only use material and jigging designed for the machine.</p>
<b>Operator technique</b>	<p>Operate levers to manoeuvre the machine.</p> <p>Make sure machine path is clear.</p> <p>Do not remove stock from a Mini3 table until the pressing head has been returned to its "resting" position. Instruct all other workers to stand clear when the machine is operational.</p>
<b>User warnings</b>	<p>Never place hands, arms or other body parts underneath the pressing platen or in the path of a moving machine.</p> <p>Always adhere to all attached safety and warning labels on machine.</p>
<b>Unattended machine</b>	<p>Do not leave a running machine unattended – leave only after the machine has been turned off and it has come to a complete stop.</p>



**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 Mini3 operator may be responsible for maintenance, cleaning and blade changing of the machine:

Potential hazard	Safe work procedure
<b>Cleaning and maintenance preparations</b>	<p>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.</p> <p>Also turn the power off when discussing the work.</p> <p>Do not use compressed air to remove sawdust, etc., from machines or clothing.</p>
<b>Stop/start buttons</b>	<p>Make sure that start and stop buttons are in good working condition and within easy and convenient reach of an operator.</p> <p>Start buttons should be protected so that accidental contact will not start the machine.</p>
<b>Hydraulics</b>	<p>Ensure that all hydraulic components are in good working order.</p> <p>Check oil temperature and quality. Inspect and replace filters as per the maintenancemanual.</p>
<b>Machine settings</b>	Check hydraulic pressures, travel speed and pressing action.
<b>Guarding</b>	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
<b>Crushing</b>	<p>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.</p> <p>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.</p>
<b>Cuts</b>	<p>The sharp teeth of nail plates could cut the operator.</p> <p>Care must be taken when handling nail plates.</p> <p>The operator could be cut by sharp edges on the table or press head caused by damage to the table or press head.</p>
<b>Electrical</b>	<p>The power requirement for the machine is 3 phase + E + N, 415 volts and is equipped with an overload</p> <p>Unauthorized persons must not alter or interfere with the electrical supply at any time.</p>
<b>Hydraulic oil</b>	<p>Oil spills are possible if the hoses or fittings become loose or damaged.</p> <p>Hoses could be damaged from constant rubbing against metal parts during operations and burst.</p>
<b>Slips, trips and falls</b>	<p>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.</p>
<b>Cleaning</b>	<p>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.</p> <p>The key is to be removed and kept by the personnel entering the operational area.</p>
<b>Ergonomics</b>	<p>The operators are required to be able to move freely around the front and rear of the machine.</p> <p>The machine working height cannot be adjusted.</p> <p>The machine cannot be operated while seated.</p> <p>The operators are not required to climb onto or into the machine while the machine is operating, loading or unloading.</p> <p>The operators must wear approved safety footwear, eye protection and hearing protection.</p>
<b>Guarding</b>	<p>The machine MUST NOT be operated with any of the guards removed.</p> <p>The machine is fitted with steel mesh guard on the operators control panel, to allow the operator to see the pressing operation.</p>
<b>Personal protective equipment</b>	<p>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.</p>

Hazard	Additional information
<b>Recommendations</b>	<p>That the operator is trained, on induction, of the dangers of crushing or cuts when operating the machine.</p> <p>The electrical system is to be serviced by a qualified electrician only.</p> <p>That all operators are walked through the operator's manual and all potential hazards are well known.</p> <p>That good housekeeping is maintained at all times to avoid the risk of slips, trips or falls.</p> <p>That approved eye and hearing protection is used at all times when operating the machine.</p> <p>That approved safety footwear is worn at all times when operating the machine.</p> <p>That if the machine is not operating as efficiently as specified, the operator notify their supervisor who in turn will notify the supplier.</p> <p>All guards and safety devices are not to be removed.</p> <p>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 working area of the machine.</p>

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

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

## SPECIFICATIONS

The Mini3 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	11 000 mm
Width (total)	1800 mm
Weight	4000kg (approx.)
Working width	1800 mm
Working length	10 000 mm
Travelling speed	30 m/min
Pressing cycle	2 seconds
Pressing capacity	30 tonne hydraulic
Press opening	20 mm minimum 150 mm maximum
Platen	450 x 1800 mm platen width
Tank relief	2000 PSI maximum
Oil specification	Shell Tellus 46
Oil capacity	112 L
Oil filter element	RTFE 6/10
Oil operating temperature	40°C to 75°C (90°F to 170°F)
Electrical motor	4 KW
Power requirement	32 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

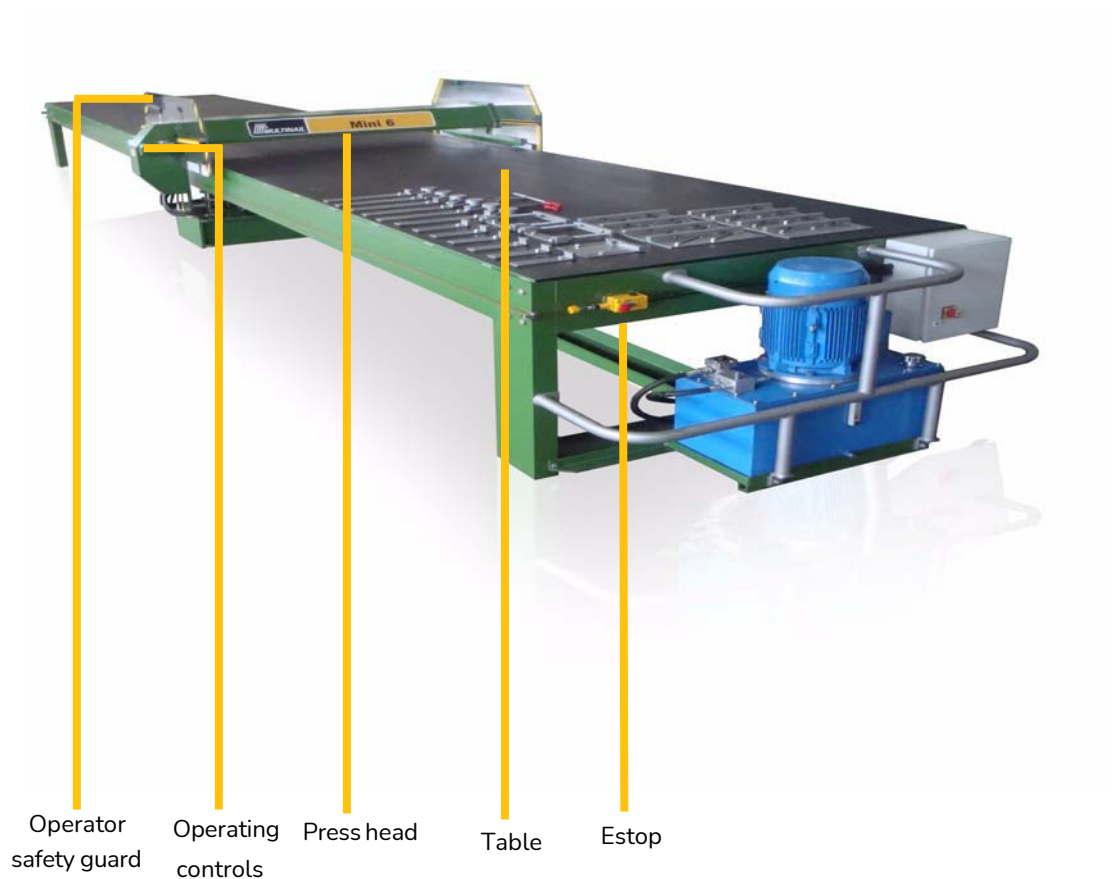
This section contains machine pictures and photographs showing the following key parts:

Part	For more information, see...
<b>Mini3 overview</b>	"Mini3 overview" on page 22.
<b>Operator area</b>	"Operator area" on page 23.
<b>Operating controls</b>	"Operating controls" on page 24.
<b>Lower head assembly</b>	"Lower head assembly" on page 25.
<b>Hydraulic motor</b>	"Hydraulic motor" on page 26.
<b>Hydraulic drive system</b>	"Hydraulic drive system" on page 27.
<b>Hydraulic flow control valve</b>	"Hydraulic flow control valve" on page 28.
<b>Footprint drawing</b>	"Footprint drawing" on page 29.
<b>Mini3 hydraulic schematic</b>	"Mini3 hydraulic schematic" on page 30.
<b>Jigging</b>	"Jigging" on page 31.

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

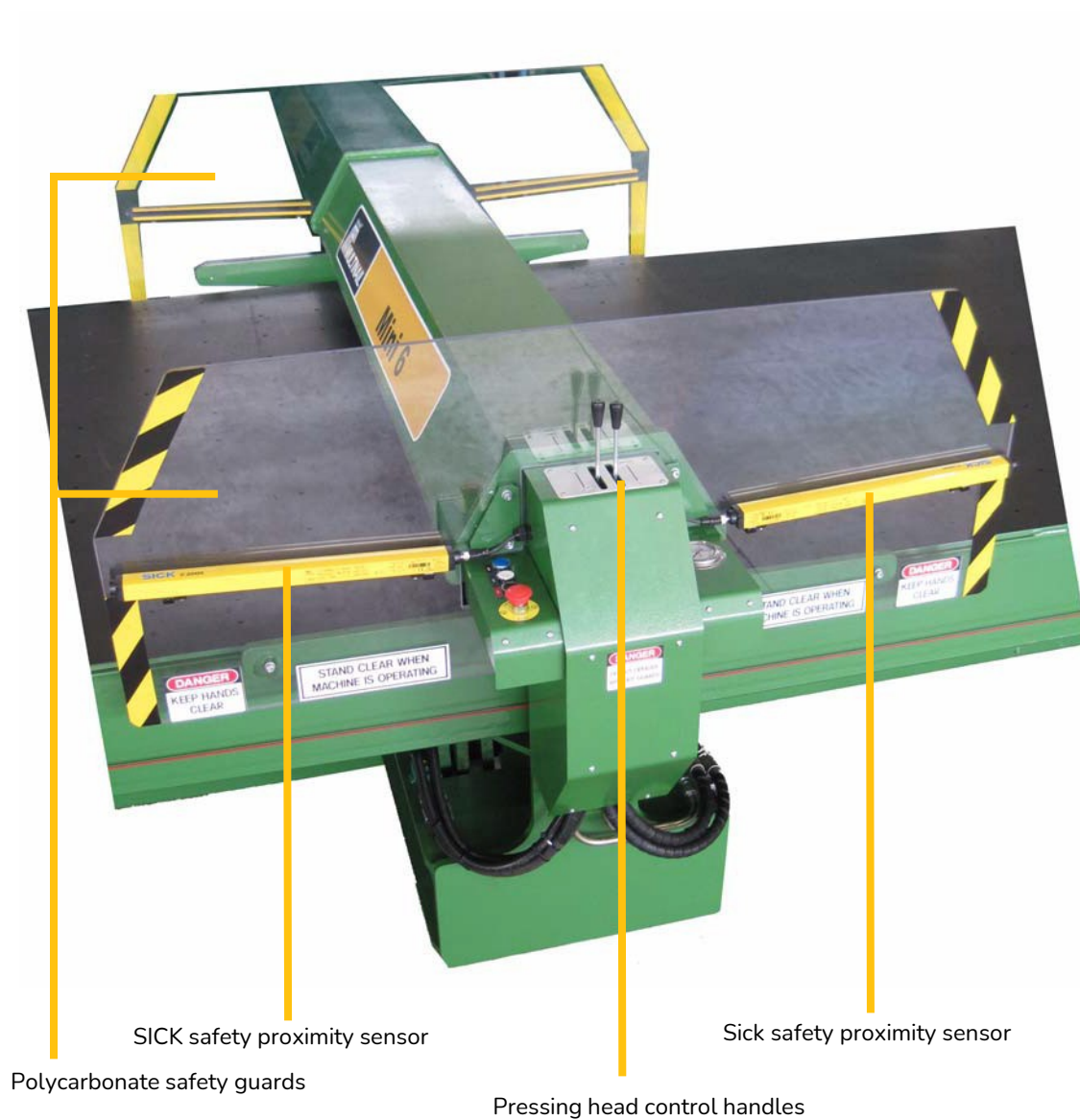
For more information, see the next sections.

## MINI3 OVERVIEW





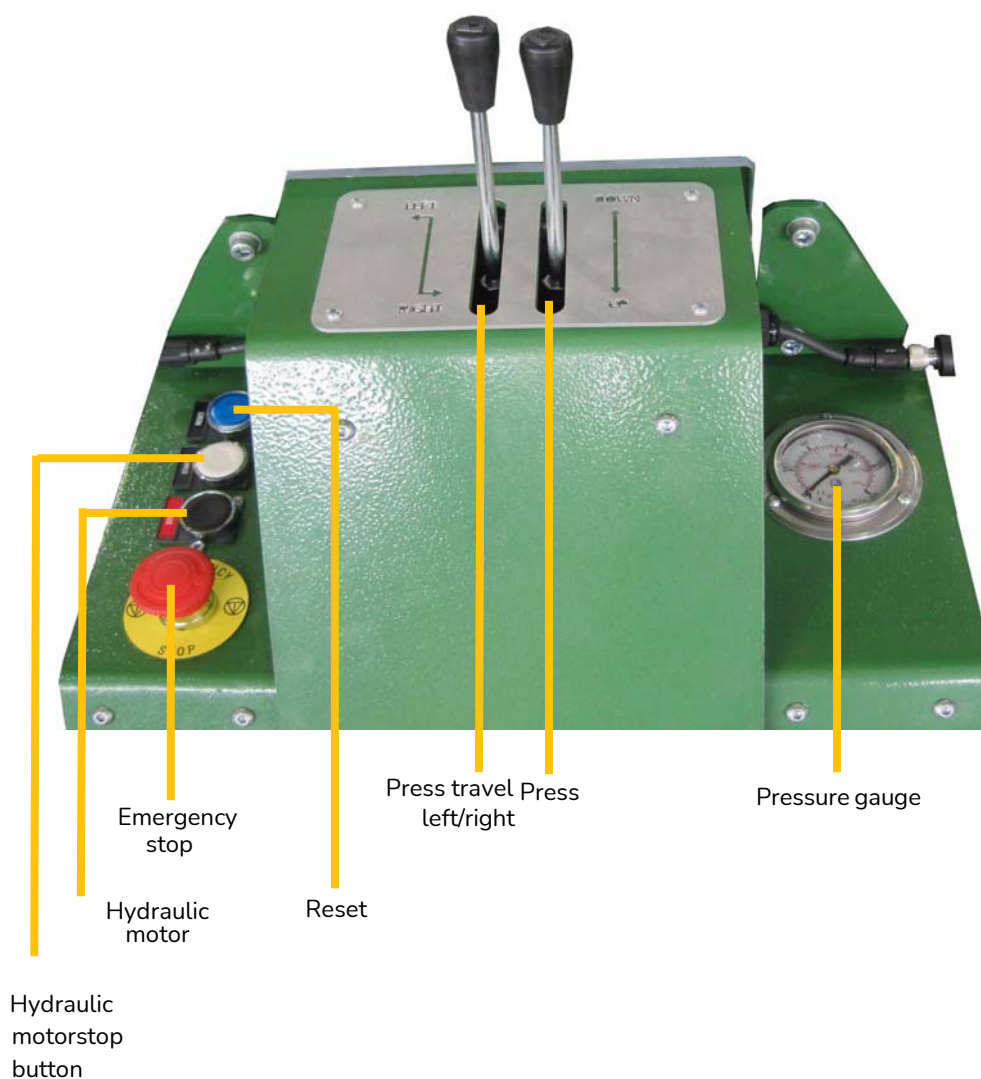
## OPERATOR AREA



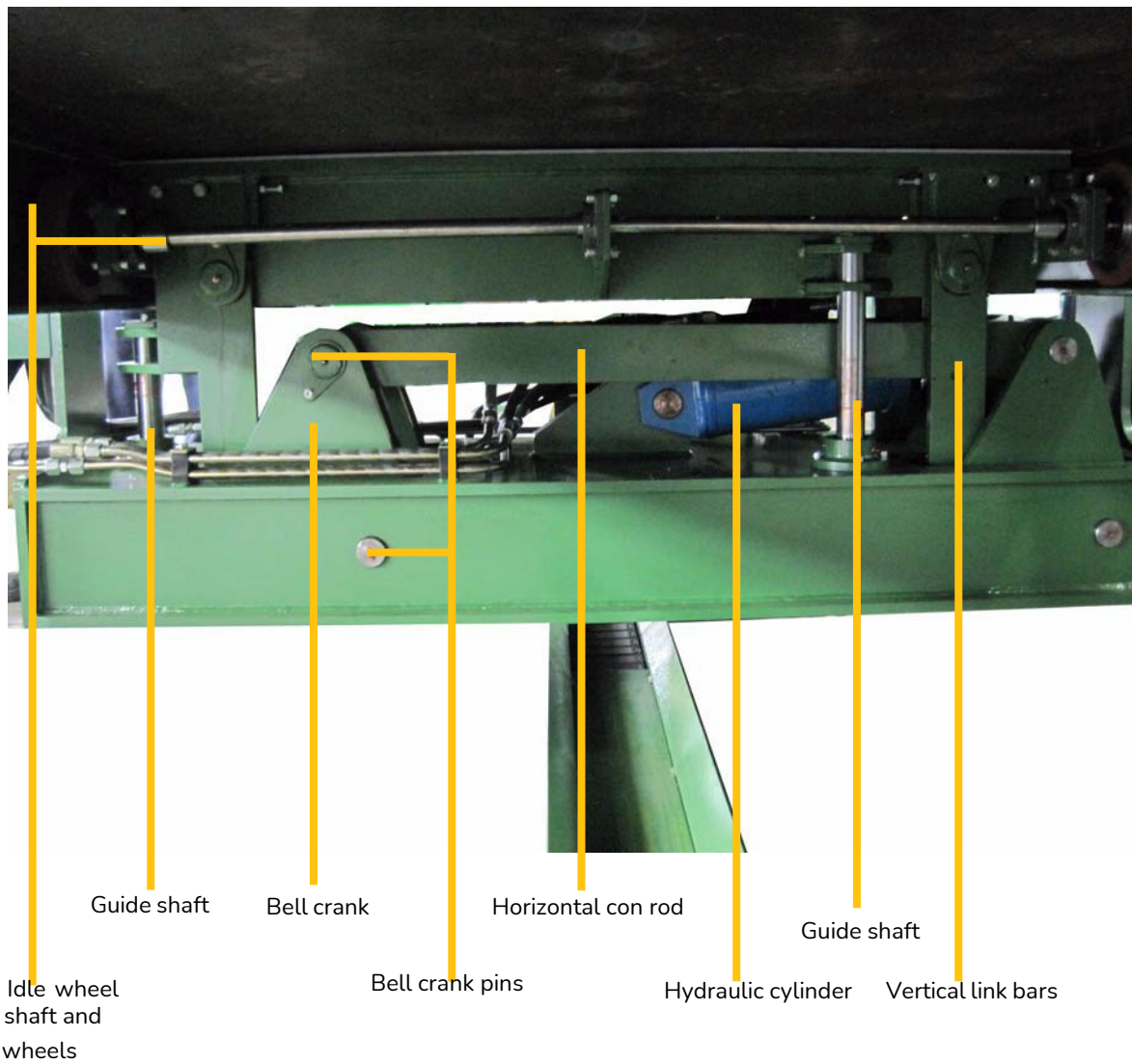
## OPERATING CONTROLS



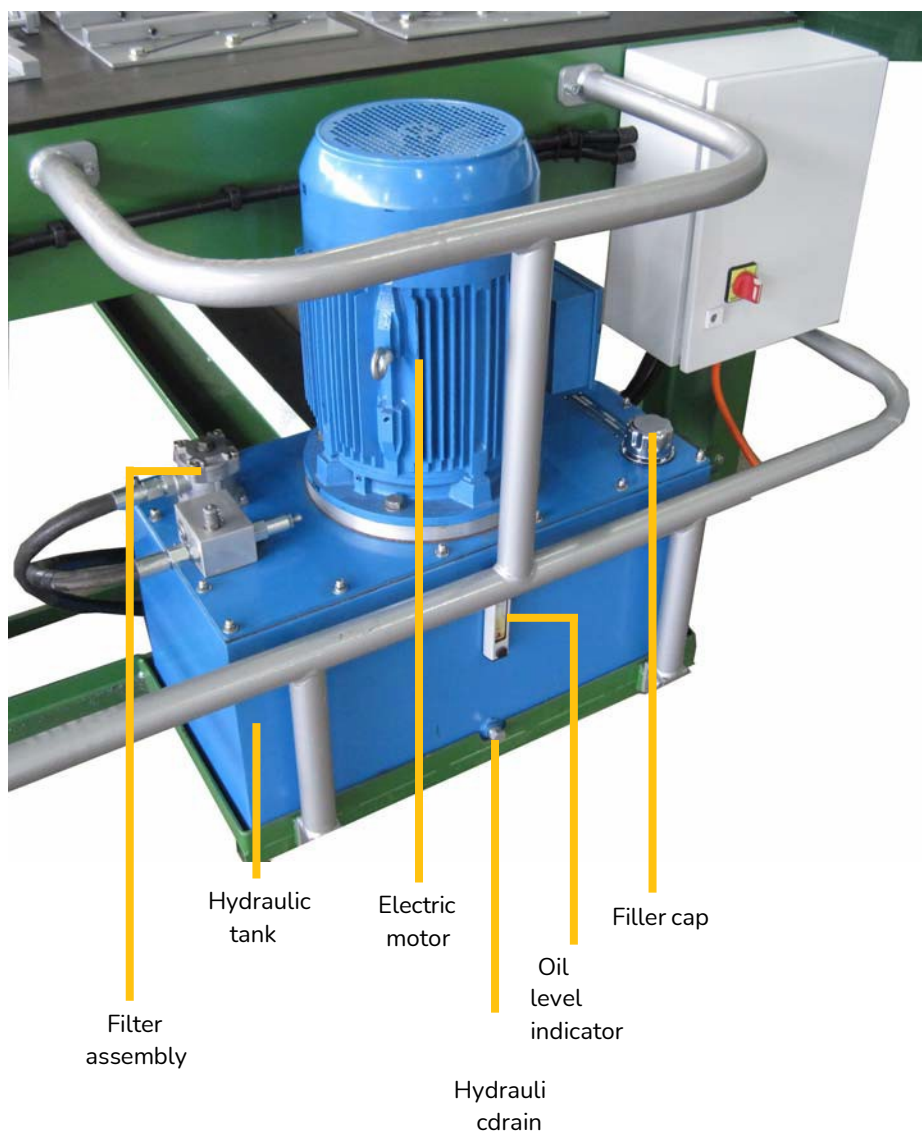
**WARNING!** The Emergency Stop Button will disable the machine indefinitely unless the problem is addressed; the switch is twisted anti-clockwise unlocking the push button.



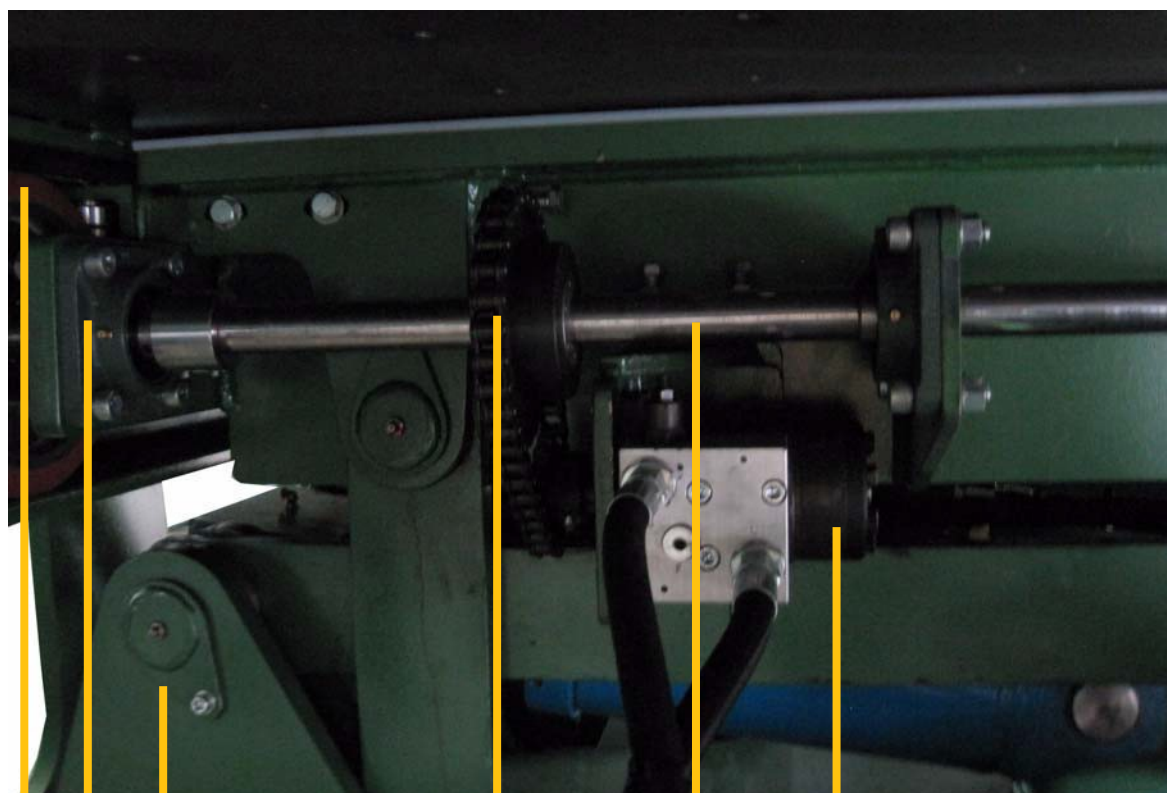
## LOWER HEAD ASSEMBLY



## HYDRAULIC MOTOR



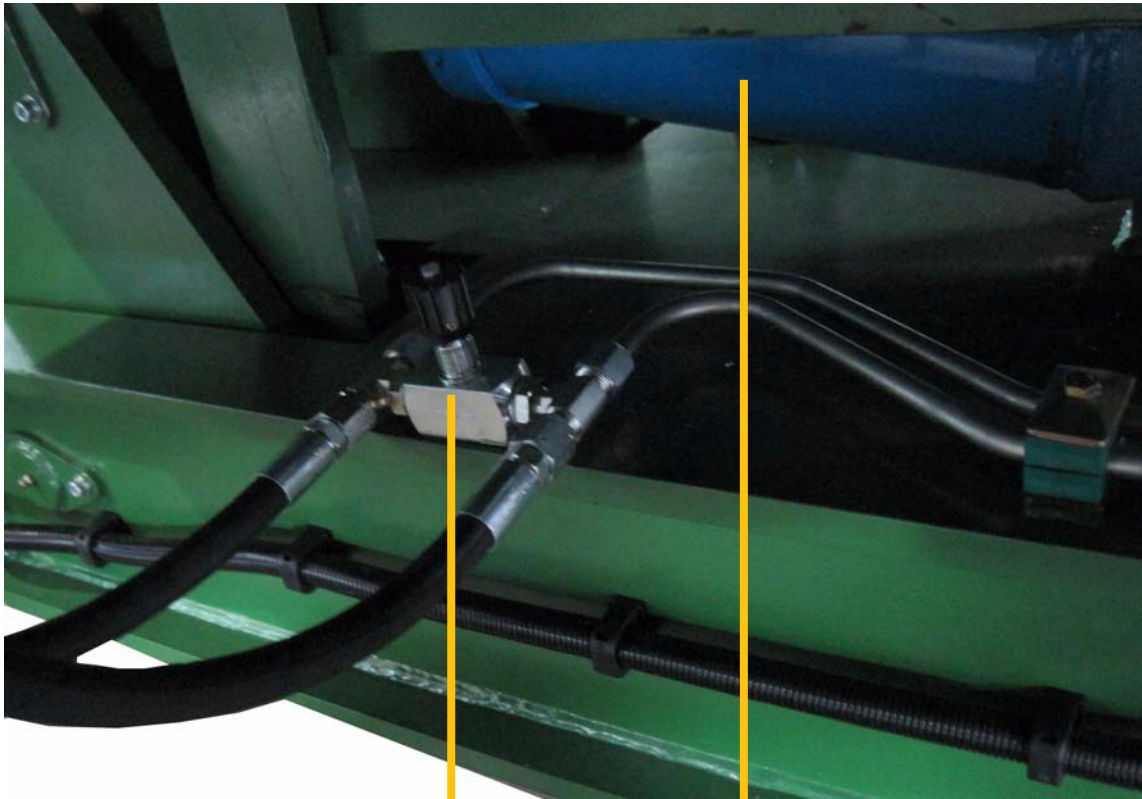
## HYDRAULIC DRIVE SYSTEM



Drive wheel  
Driveshaft  
Bell crank  
Drive chain and sprocket  
Drive shaft  
Hydraulic



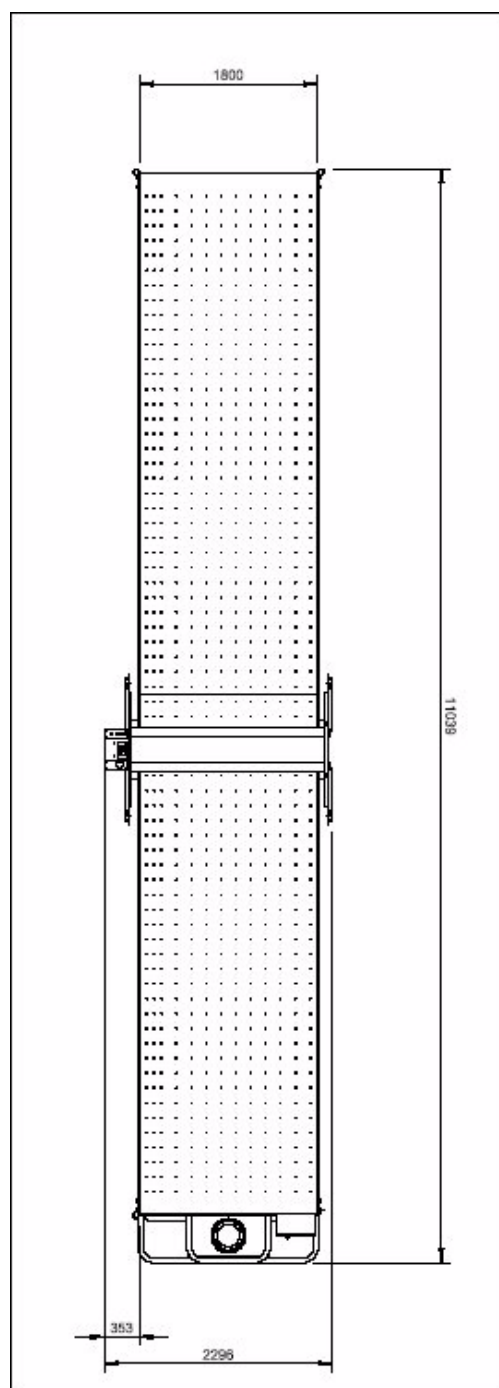
## HYDRAULIC FLOW CONTROL VALVE



Head travel speed  
flow control valve

Hydraulic cylinder

## FOOTPRINT DRAWING







## JIGGING





# 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 36.
Daily maintenance schedule	"Daily maintenance schedule" on page 37.
Weekly maintenance schedule	"Weekly maintenance schedule" on page 38.
Bi-annual maintenance schedule	"Bi-annual maintenance schedule" on page 39.
Annual maintenance schedule	"Annual maintenance schedule" on page 40.

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	<ul style="list-style-type: none"><li>• Motor noise or vibration.</li><li>• Smooth travel of pressing head in all directions.</li><li>• Guards in place.</li><li>• Remove all non-relevant materials from the work area.</li><li>• Check that the head has been levelled and is pressing level.</li></ul>
Weekly checks	<ul style="list-style-type: none"><li>• All wires and hoses are not frayed or damaged.</li><li>• Hydraulic oil level and temperature.</li><li>• Monitor the pressing pressure.</li><li>• Ensure the drive wheels have no excessive wear.</li><li>• Grease all nipples.</li></ul>

## DAILY MAINTENANCE SCHEDULE

Service	Location	Procedure
<b>Hydraulic:</b> 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
<b>Hydraulic:</b> Oil Temperature	Temperature gauge	Visual inspection. Temperature should be within recommended operating limits of 40° - 70°.
<b>Hydraulic:</b> 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.
<b>Mechanical:</b> Grease Points	Platen linkage bushes	Apply light grease on all head guide slide areas located on the vertical posts of the press head. Grease nipples are supplied on all major linkage joints Spida Machinery recommends using a lithium based grease.
<b>Mechanical:</b> General Inspection	<ul style="list-style-type: none"> <li>• Motor noise or vibration</li> <li>• Smooth operation of press head</li> <li>• Guarding In place</li> <li>• Clean Work Area.</li> </ul>	Regularly undertake a visual inspection of the major components of the machine. Tighten nuts and bolts as required. Remove unnecessary items.
<b>Electrical:</b> General Inspection	Control panel	Test operating controls are functioning. Check emergency stop button works.



**WARNING!** Electrical power supply must be isolated from machinery and appropriate danger tagging in place 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
<b>Hydraulic:</b> General		Refer daily maintenance schedule.
<b>Hydraulic:</b> System Pressure	Control panel	Ensure pressure reading is within recommended operating range of 1800-2000 PSI.  Setting the operating pressure to high may cause damage to timber when pressing.
<b>Hydraulic:</b> 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.
<b>Mechanical:</b> General		Refer daily maintenance schedule.  Apply 1-2 pumps to each grease bank point.
<b>Mechanical:</b> 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.  <b>NOTE:</b> Only qualified personnel are to perform adjustments.
	Table rollers	Ensure rollers are adjusted equally and lock nut is fixed.
<b>Mechanical:</b> 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.
<b>Electrical:</b> 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
<b>Hydraulic:</b> General		Refer daily/ weekly maintenance schedule.
<b>Hydraulic:</b> System Pressure	Control panel	Ensure pressure reading is within recommended operating range of 1800-2000 PSI.  Setting the operating pressure to high may cause damage to timber when pressing.
<b>Hydraulic:</b> 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.
<b>Mechanical:</b> 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.  Check and adjust drive sprockets and chain tension.
	Table	Grease should be applied to the underside of the table.
	Head guides	Guides and roller must be visually inspected for wear and operation.
<b>Electrical:</b> 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
<b>Hydraulic:</b> General		Refer daily/ weekly/6 monthly maintenance schedule.
<b>Hydraulic:</b> 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 contaminants it will be required to be replaced.
	Tank	Drain and clean oil tank with a clean cloth. Fill tank using Shell Tellus 46. Approx. 112 litres will be required.
<b>Hydraulic:</b> 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.
<b>Mechanical:</b> 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.
<b>Electrical:</b> General Inspection	Control panel	Test operational controls are functioning. Check emergency stop button works.
	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		<u>Mini 3 Table Press</u>	
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? List standards <	AS 4024.1 Safeguarding of machinery Part 1 General principles		
	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
13 /10/10	Shain Shoesmith	

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?				✓	

## Machine/Equipment or Plant Name: Mini 3 Table Press

These questions relate to ELECTRICALLY POWERED fixed machines.

## RISK ASSESSMENT

Answer each question for using a ✓ in the NO or YES response column

a.	All electrically powered plant must be connected via an <b>individual</b> isolating switch that is <b>lockable</b> only in the <b>OFF position</b>	N																																																																																																																																																											</
----	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	----

b. **IS THERE AN ISSUE IN ACHIEVING THIS REQUIREMENT?**

**IS THERE AN ISSUE IN ACHIEVING THIS REQUIREMENT?**

**IS THERE AN ISSUE IN ACHIEVING THESE REQUIREMENTS?**

IS THERE AN ISSUE IN ACHIEVING THESE REQUIREMENTS?

**IS THERE AN ISSUE IN ACHIEVING THIS REQUIREMENT?**

43

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

HAZARD IDENTIFICATION relating to the PLANT or MACHINE and its USE		RISK ASSESSMENT				
		No	Yes	Consequence	Likelihood	Exposure
				Risk Rating		
				ACTION		
				Treatment of Risk		
				Control Measures Taken		
1	Are there any <u>Belt and Pulley, Gears or Chain Drive</u> systems that are not totally enclosed by a guard? <i>a.</i> <i>b.</i> <i>c.</i> <i>d.</i>	✓				

2	Are there any <u>Hydraulic Rams or Drive</u> systems that are not totally enclosed by a guard? <i>a.</i> <i>b.</i> <i>c.</i>	✓				

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 <b>not interlocked</b> . (Micro switched), with the energy supply <i>a. all guards and covers are bolted in to position.</i> <i>b.</i> <i>c.</i>	✓		15	3	1	45

4	Is it possible, when the machine is running, that any guards, covers, doors etc.can be removed or opened <b>without</b> the use of a <b>tool or key</b> ? <i>a.</i> <i>b.</i> <i>c.</i>	✓					

5	Are there any <b>Unguarded Active Cutters or blades</b> ? (Guarding normally achieved by manually adjustable guards or automatic guards) <i>a.</i> <i>b.</i> <i>c.</i>	✓					

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

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

Questions on this page relate to areas of the machine NOT PREVIOUSLY ADDRESSED										
HAZARD IDENTIFICATION relating to the PLANT or MACHINE and its USE				RISK ASSESSMENT						
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	Consequence	Likelihood	Exposure	Risk Rating	ACTION Treatment of Risk Control Measures Taken
13	Are there any parts of the machine that could cause a <u>cutting or puncture</u> injury? a. ....			✓						
14	Could materials, work pieces, parts of the machine or waste be <u>ejected and hit</u> the operator or other person in the vicinity? a. ....			✓						
15	Could any generated materials or waste <u>cause cuts or other injury</u> if touched? a. <i>Manual handling of nailplates may cause cuts</i>				✓	1	6	3	18	Operators should use gloves to avoid such injuries
16	Are there any areas within the operator's reach where a <u>shear hazard</u> 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 <u>strike</u> the operator or anyone in the vicinity? a. <i>the press head moves along the bed.</i>				✓	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 <u>lack</u> of an <u>emergency stop mechanism</u> ? a. ....			✓						
19	Is there a hazard from <u>inaccessibility</u> of an <u>emergency stop mechanism</u> ? a. ....			✓						



## HAZARD CHECKLIST FOR

Machine/Equipment or Plant Name: Mini 3 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		RISK ASSESSMENT					ACTION Treatment of Risk Control Measures Taken	
		Yes	No	Consequence	Likelihood	Exposure		Risk Rating
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								
20	Is there potential for work to <u>move, loosen, shift or grab</u> during operation? a.	✓						
21	Does the operator need to over-reach, stretch, lift, carry or bend in such a way that it may cause <u>body strain</u> ? 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 <u>insufficient lighting</u> or the <u>Stroboscopic Effect of the existing lighting</u> ? a.	✓						This issue must be considered by the purchaser
23	Is there a potential hazard present relating to <u>Radiation</u> or <u>excessive light</u> ? a.	✓						This issue must be considered by the purchaser
24	Is there a potential hazard present relating to <u>Gas, Vapour or Liquid</u> 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 <u>Vibration</u> ? a.	✓						
26	Is there a potential hazard present relating to Fire or excessively <u>high temperature</u> ? a.	✓						
27	Is there a potential hazard present relating to Ice or excessively <u>low temperature</u> ? a.	✓						

Questions on this page relate to areas of the machine NOT PREVIOUSLY ADDRESSED									
HAZARD IDENTIFICATION relating to the PLANT or MACHINE and its USE		RISK ASSESSMENT							
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	Consequence	Likelihood	Exposure	Risk Rating	ACTION	
								Treatment of Risk Control Measures Taken	
28	Is there a potential hazard present relating to <u>Explosion</u> potential? a.	✓							
29	Is there a potential hazard present relating to <u>Moisture or dampness</u> ? a.	✓							
30	Is there a potential hazard present relating to <u>Pressure or vacuum</u> ? a.	✓							
31	Is there a potential hazard present relating to <u>Electricity</u> ? a. <i>Electricity short circuit</i>		✓	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 <u>Excessive noise</u> ? (Noise levels not to exceed 85db(A) a.	✓							
33	Is there a potential hazard present relating to <u>Dust or other atmospheric contaminants</u> ? a.	✓							
34	Is there a potential hazard present relating to <u>Release of stored energy</u> ? a.	✓							
35	Could there be a problem with <u>access</u> for, setting, maintenance or repair? a.	✓							

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

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

### MINI3 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 jiggig bolts	
Shown correct use of tooling	
Press Head	Checked
Shown location of Emergency Stop	
Shown how to Reset Emergency Stop	
Shown location of 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 Lever	
Shown location of Press Up/Down Lever	
Shown location of press head pressure boost button	
Shown location of Hydraulic Cylinder - Pressing	
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	
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 Mini 3 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 jiggig supplied	
Has been advised on correct thread types to attach to jiggig	
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 clear 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	
<b>VERIFICATION: Training officer to complete this section</b>	
<b>Training Officer</b>	
<b>Name :</b>	
<b>Signature :</b>	
<b>Date :</b>	
I, the undersigned, declare that:	
I have been shown and instructed in 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	
<b>Operator</b>	
<b>Name :</b>	
<b>Signature :</b>	
<b>Date :</b>	
<b>Witnessed by</b>	
<b>Name :</b>	
<b>Signature :</b>	
<b>Date :</b>	
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 Mini3.

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 **Mini3 Op & Service Manual** and additional information:

Information	Details
Name	
Position	
Company	
Date	
Signed	

Witnessed by:

Information	Details
Name	
Position	
Company	
Date	
Signed	



---

# Index

## D

daily checks 36

## F

features 5

## I

installation 6

## K

key features 5

## M

maintenance

daily checks 36

points 36

weekly checks 36

maintenance schedules 35

## O

overview diagram 22

## P

parts identification 21

personal protective equipment 9

photographs 21

pictures 21

PPE 9

protective equipment 9

## Q

questions 9

## S

safe operation 9

serial plate 5

specifications 19

support 4

## W

weekly checks 36

For more information please visit

**[www.Spida.com](http://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](mailto: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](mailto:info@spida.com)

