

Wall stacker



OPERATION & MAINTENACE MANUAL





WARNING

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

Operators *must* also wear the recommended personal protective clothing and have thoroughly read and understood this manual.

Serial Plates

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Below is a copy of the serial plate displayed on the back of the machine





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2 Overview

The Spida Wall Stacker is designed to transport timber wall frame assemblies from the conveyor systems and stack the frames on a packing or wrapping station ready to be transported to a job site.

The Wall Stacker must be used per the standard operating procedures set out in this manual. Any actions carried out which are not contained in this manual are not endorsed by Spida Machinery (SM2012 Ltd) and cannot be warranted.

All operators should read and then sign the register of this manual before operating the Wall Stacker to ensure they are thoroughly familiar with the machine capabilities, limitations and to ensure correct operating procedures are adhered too.

Only those operators that have received training on the correct operation of the Wall Stacker are deemed competent and qualifies to operate the machine.

The Wall Stacker test procedures must be performed at installation and after any maintenance, adjustment, repair or modification of the machine. The test procedure is available on request.

The competent operator must also regularly perform (at least every three months but more often if used continuously) the recommended maintenance procedures and checks detailed in this manual.

Al pneumatic lines must be set as to not allow its movement through the nailing area of adjacent machinery.

This manual offers many safety tips, but its purpose is not to provide instruction in all the skills and techniques required to manufacture timber frames safety and efficiently.

Due to improvements in design and performance during production, in some cases there may be minor discrepancies between the actual machine and the illustrations and text in this manual.

3 Specifications

Table 1, Wall Stacker Specifications

Overall Width	2200mm
Overall Height	470 - 2000mm
Overall Length	8200mm
Weight	1600 kg
Operational Noise	40 dB
Air Supply	7-8 Bar
Hydraulic Oil	70L
Electrical Supply	3.75kW, 380-480V, 48-68 Hz, 6A

Specifications may change without notice



4 Installation

4.1 Handling & Transport

- Box all additional parts and secure with the machine
- Using a single fork truck, lift the machine package underneath Once on the truck, tightly strap the machine.
- **Do Not** place any loads on top of the machine
- The machine should be kept free from road grime and rain, and should be covered at all times while being transported

The Spida Wall Stacker will be delivered in large component form and will require assembly on site by trained personnel. Due care and attention should be made whilst unpacking of the components from their packaging materials. Any damage caused whilst in transit should be noted immediately and Spida Machinery (SM2012) informed. Refer to section 3 specifications for weights of individual components for selection of Manual Handling Equipment prior to positioning them on the selected site.

4.2 Installation

- It is advisable to forklift the machine package as close to the final assembly point as possible to reduce manual lifting
- The final operating position of the machine must be free from any rubbish or impediments
- There must be good lighting in the installation area to allow proper positioning of the machine
- The ground on which the machine rests must not vary by more than 30mm over a 12m x 2m area
- Wall Stacker, once level, machine should be bolted to the floor through holes provided.
- Electrical commissioning to be to local standards and be performed by a qualified electrician

The site selected for the Spida Wall Stacker will depend on the ground. The ground chosen should be a clean and free of water or possible flooding. The area on which the framework sits must be as even and horizontal as possible. This can be achieved by packing the feet. There should be no twist to the framework when the feet have been packed to take the ground into account.

The final operating position of the machine should be free of all rubbish or impediments with general access to all areas of the Wall Stacker.

With the machine in position, a qualified engineer should be used to connect the pneumatic components to the machine and adjust the air pressure to the required setting. (refer to 3 Specifications for pressure settings)

Check all pneumatic hoses and connectors to ensure that the fittings haven't worked loose during transportation of the machine. Re-tighten all fittings that appear to be leaking. If leaking persists undo the fittings, apply a sealing compound to the joints in question. Re-tighten the fitting. (any serious leaking problems during the warranty period should be reported to Spida Machinery 2012



Ltd). Check the air pressure in the system is sufficient to operate the machine. (refer to 3 Specifications for pressure settings).

To check the air pressure, turn the compressor on and allow the pressure to build up. When the controls are activated, normal pressure should read 7-8 bar or 700- 800 kPa. All maximum pressures are factory set and should not be changed.

Check that all safety equipment is functioning properly.



5 Safety

This Spida Wall Stacker is built for providing an efficient and safe means of stacking wall frame assemblies up to 6m in length. The Spida Wall Stacker 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.

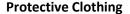
This Spida Wall Stacker will perform better and have a longer life if it is operated with care and given regular maintenance and inspections.

PROTECTIVE SAFETY CLOTHING AND EQUIPMENT MUST BE WORN; INCLUDING:

Eyewear

Hearing protection

Respirator or Dust mask











The Spida Wall Stacker must only be operated by personnel who have been properly instructed in all aspects of the Spida Wall Stacker safe operation.

Each member of the factory personnel shall be instructed in the safe use of the Spida Wall Stacker using this manual as a guideline and shall sign a copy of this manual to indicate that he or she has been instructed in the safe operation of the Spida Wall Stacker and have thoroughly read and understood this Manual and any other additional information that has been supplied.

A copy of this manual will be placed in the personnel file of each employee that receives instruction on the Spida Wall Stacker.

A second copy will be made available to each employee for his or her reference.

This manual is intended as a guide for safe operation of the Spida Wall Stacker by the operator. The operator should not consider this manual as all-inclusive.

Should you have any questions on the Spida Wall Stacker contact SPIDA Machinery (SM2012 Ltd).

- Protective clothing is to be worn at all times whilst operating this machine. The machine has several moving components which may snag any loose ill-fitting clothing resulting in possible injury. Keep hands away from all moving parts.
- Stay alert at all times of any human movement around the machine. Know where your coworkers are when you are operating the machine!
- Use the correct operating procedure to switch the machine off when it is not in use
- Before the commencement of work:
 - Carry out a general inspection of the machine for loose fittings, fasteners and damage to the pneumatic air lines.
 - Check all safety systems and equipment are work properly
 - Ensure that the machine is not vibrating or making unusual noises
- When shutting the machine down after each shift remove any foreign objects such as tools, discarded nails etc.
- Long hair should not be worn around the machinery. Wear appropriate hat or hair net, which will cover loose hair in accordance with OHS regulations.



- All maintenance should be carried out (where possible) with the compressed air and electrical supply isolated.
- The operator shall be suitably trained in accordance with this manual¹.
- Any person under the influence of alcohol or any drugs which would impair the operator's normal functions shall **not** operate the machine².
- It is the responsibility of the competent operator to prevent any other person from coming into the operators work area whilst the machine is in use.
- Observe and obey all warning decals and labels.

When initially locating the machine in the factory production area, due care and attention should be given to a clear working area around the machine and the movement of timber into and away from the working area. Operation of the machine should be confined to competent trained personnel only, (Ensure they sign the Operation/Maintenance Manual) who are responsible for routine inspection of components and ensuring that the machine is not in an unsafe condition.

Notes:

- 1 It is recommended that the employers maintain training records demonstrating the competencies of each employee
- 2 Consult a doctor or a pharmacist if you are on or taking any medication that you are unsure about.



WARNING! Do not operate the Spida Wall Stacker without having received the proper instruction in operation and safety from this manual.



6 Operating Controls

Before attempting to operate the Spida Wall Stacker, familiarise yourself with the location and function of each control.

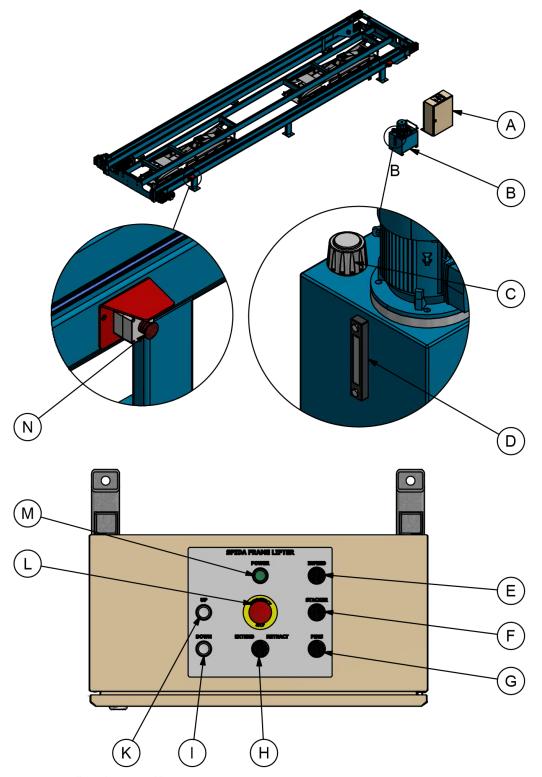


Figure 1, Wall Stacker control locations



Table 2, Control functions see Error! Reference source not found.

Control	Name	Function
Α	Main control panel	Location of main controls
В	Hydraulic power pack	Pump and motor location
С	Oil cap	Location to re-full hydraulic tank
D	Oil level gauge	Shows quantity of hydraulic oil in tank
Е	Infeed	Controls conveyor infeed to stacker (if required)
F	Stacker	Controls stacker outfeed (if required)
G	Pins	Stopper pins up/down
Н	Extend/Retract	Boom out/in
I	Down	Stacker down
K	Up	Stacker up
L	Emergency Stop	Shuts of machine
M	Power	Light – lit if power is on
N	Emergency Stop	Shuts off machine



WARNING! Do not operate Wall Stacker without the correct knowledge and function of each of the controls.

7 Operation

NOTE: The Spida Wall Stacker is to be operated in accordance with this manual. Deviation from this specified operation may result in damage to machine or injury.

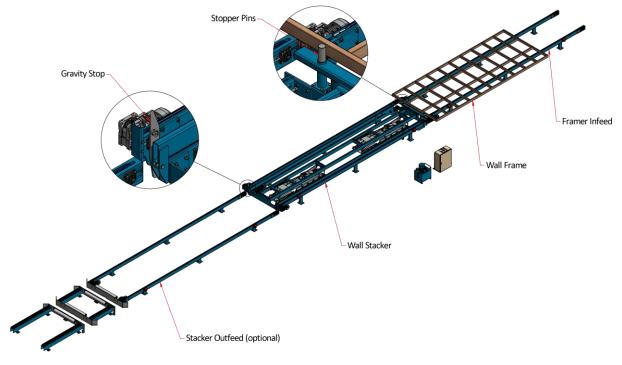


Figure 2, Typical Wall Stacker configuration.



7.1 Main Control Panel

The green light on the main control panel will be lit when machine is operational.

7.1.1 Infeed Control

Optional extra. The Infeed switch is used to control the infeed conveyor, allowing the operator the switch the infeed off while the stopper pins are up.

7.1.2 Outfeed Control

Optional extra. Using the stacker switch an outfeed conveyor can be controlled, once frames are stacked this toggle switch can be used to control the conveyor in forward or reverse.

7.1.3 Stopper Pins

The stopper pins can be toggled to the up or down position these pins prevent the next frame in line from entering the stacker frame while the stacker is lifting or boom is extending. The control software will prevent the pins from going down while the stacker is lifting or boom is in use.

7.1.4 Boom Control

The boom is controlled by using the Extend/Retract switch on the main control panel. The boom has sensor to prevent over extension or retraction.

7.1.5 Stacker Up and Down

The vertical motion of stacker is controlled using the Up and Down button on the main control panel.

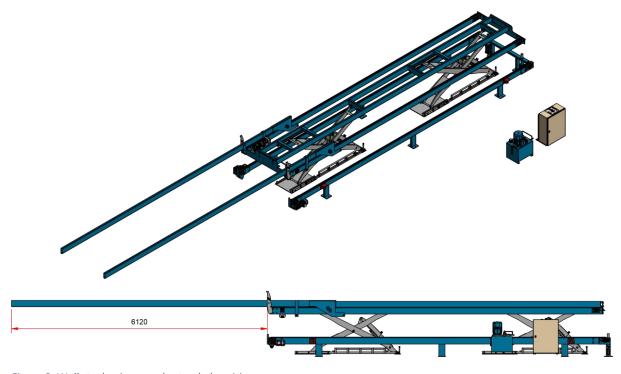


Figure 3, Wall stacker in up and extended position



7.2 General Operation

- As wall frame enters the stacker
- Before next the next frame can enter the stacker apply the stopper pins, unless more than
 one frame is being stacked in this layer. Multiple frames can be stacked per layer if total
 length of frames does not exceed 6 meters.
- When frame hits stopper at end of stacker the lifting procedure can begin
- Stacker is lifted to the appropriate height. High enough to clear the stoppers if this is the first frame in a stack or high enough to clear any existing stack.
- Boom is extended the until frame clears the gravity stops and gravity stops pop back up
- Stacker is lowered to the appropriate height, down to the outfeed or next frame if a stack has already been made
- Boom can be retracted; the gravity stops will prevent the frame from returning and will drop onto the stack
- Lower the stacker once boom has retracted
- Stopper pin can now be lowered allowing another frame to be stacked.

7.3 Hydraulic Power Pack

The hydraulic power pack houses the motor and pump that facilitates the up and down motion of the stacker. On the side of the tank is a gauge showing the amount of hydraulic oil in the tank, this must be checked regularly. The tank holds 70 litres of hydraulic oil.

7.4 Isolation

In an emergency, the machine can be shut down using the emergency stop buttons, one is located on the main control panel and others located on the side chain conveyors. The machine must be isolated for both air and electricity when any maintenance is to be performed.



8 Parts Identification

8.1 Top Level Assembly

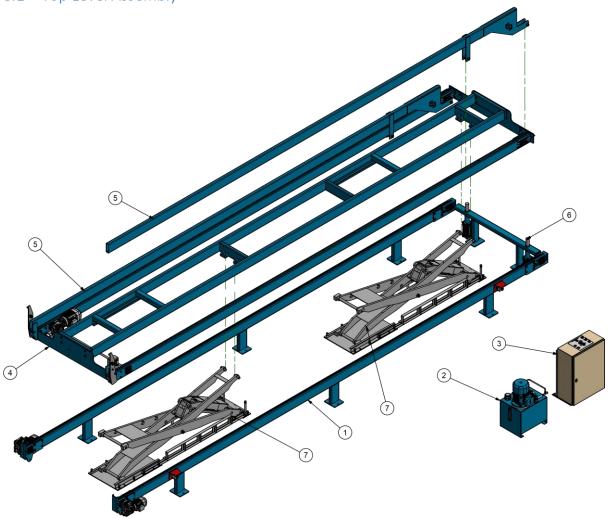


Figure 4, Top level assembly

Table 3, Top level assembly bill of materials

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	1001000 - 8	Chain Conveyor - 8m
2	1	1401800	Truss/Frame Lifter Hydraulic Power Pack
3	1	1402001	Lifter Control Box
4	1	1402100	Boom Bottom Assembly
5	2	1402200	Boom -Top assembly
6	1	1402300	Conveyor Pneumatic Stopper
7	2	PL-P35	PL-P35 Scissor Lift - No platform



8.2 Frame Assembly

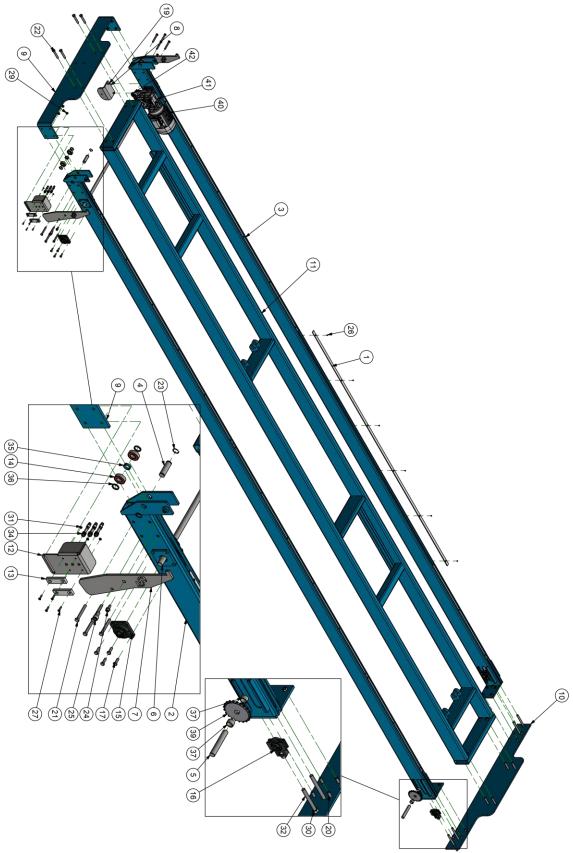


Figure 5, Frame assembly



Table 4, Frame assembly bill of materials

ITEM	QTY	PART NUMBER	DESCRIPTION
1	6	1001009	Wear strip
2	1	1402101 L	Boom - Bottom (welded) assembly
3	1	1402101 R	Boom - Bottom (welded) assembly
4	2	1402103	Boom bearing shaft
5	2	1402104	Idler shaft
6	1	1402105	Drive shaft
7	2	1402107	Stopper profile
8	1	1402108	Torque arm bracket
9	1	1402109	Front spreader
10	1	1402110	Back Spreader
11	1	1402111	Scissor Lift Frame
12	1	1402112	Sensor Mount/Guard
13	2	1402113	Sensor Guard
14	4	BRG6205DD	Bearing 52 x 25 x 15
15	4	BRGUCF205-25	4 bolt flange bearing 25mm
16	4	BRGUCT205-25	Take up unit 25mm UCT205
17	16	HWBHM1030	Hex bolt M10x30
18	1	HWBHM1045	Hex bolt M10x45
19	2	HWBHM1225	Hex bolt M12x25
20	8	HWBHM1240	Hex bolt M12x40
21	8	HWBHM1290	Hex bolt M12x90
22	8	HWBHM1690	Hex Bolt M16x90
23	4	HWCCXM25	Circlip 25mm
24	2	HWCSM1025	Hex Socket Head Cap Screw M10x25
25	2	HWCSM1625	Hex Socket Head Cap Screw M16x25
26	28	HWCSM58CS	Hex Socket CSK Head Screw M5x8
27	4	HWCSM625CS	Hex Socket CSK Head Screw M6x25
28	1	HWNHM10	Hex nut M10
29	16	HWNHM12	Hex nut M12
30	24	HWNHM16	Hex nut M16
31	4	HWNHM6	Hex nut M6
32	4	HWTRM16	Threaded rod
33	2	HWWFM10	Washer Flat M10
34	3	IME12-04BPSZCOS	SICK, Proximity Sensor
35	20.000 mm	RMSBP25H	Black pipe 33.7x4
36	20.000 mm	RMSBP25H	Black pipe 33.7x4
37	160.000 mm	RMSBP25H	Black pipe 33.7x4
38	2	TRCH12B1	Roller Chain 12B1
39	4	TRCH12B1-21T-25-08	Plate Sprocket 12B 21T 25 Dia. bore
40	1	TREMBN90S4230400-50B14	1.1 kW Motor
41	1	TRGBW63U30P90B14B8	W63 Gearbox - 30:1
42	1	TRTAW63	W63 Torque arm



8.3 Boom Assembly

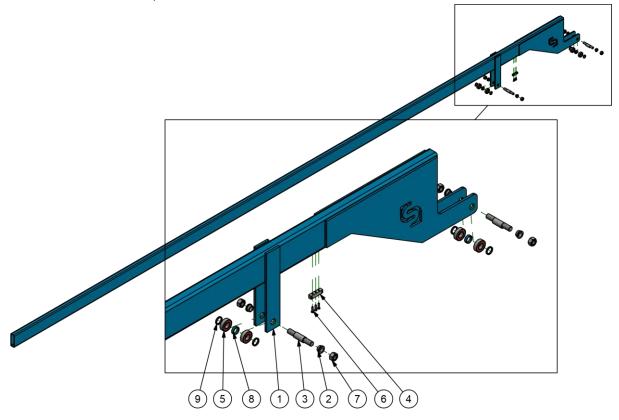


Figure 6, Boom Assembly

Table 5, Boom assembly bill of materials

ITEM	QTY	LENGTH	PART NUMBER	DESCRIPTION
1	1	1	1402201	Boom - Top (welded) assembly
2	4	1	1402202	Eccentric shaft collar
3	2	1	1402203	Eccentric bearing shaft
4	1	1	1402204	Chain Attachment Plate
5	4	1	BRG6205DD	Bearing 52 x 25 x 15
6	3	1	HWCSM625CS	Hex Socket CSK Head Screw M6x25
7	4	1	HWNHM20	Hex Nut M20
8	2	10.000 mm	RMSBP25H	Black pipe 33.7x4
9	4	5.000 mm	RMSBP25H	Black pipe 33.7x4



8.4 Stop Assembly

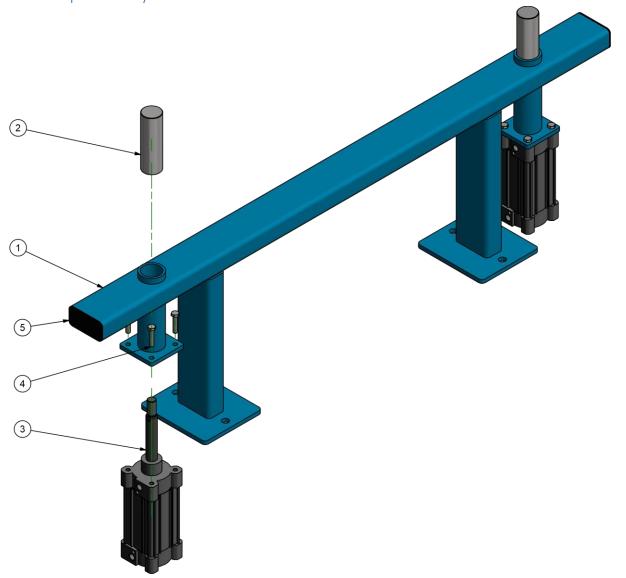


Figure 7, Stopper assembly

Table 6, stopper assembly bill of materials

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	1402306	Stopper mount
2	2	1402307	Pusher rod
3	2	ACCP96SDB80-100C	CP96S_C/CP96SD_C-ISO Cylinder
4	8	HWBHM1045	Hex bolt M10x45
5	2	HWPPRHS10050	End cap RHS 100x50x5



9 Maintenance

Before attempting any maintenance on the Wall Stacker, isolate from air and electrical supply.

Table 7, Maintenance intervals

Check	Day	Week	Month	½ Year
Chains tensioned	X			
Check that work area is clear	X			
Check emergency stops	X			
Check proximity sensors	X			
Clean Wall Stacker of any build up	X			
Noises or Vibrations	X			
Keep chains clean and oiled		X		
Oil/grease pivots and hinges		X		
Check oil level in tank		X		
Air supply pressure		X		
Check for lose bolts			X	
Lubricate sliders			X	
Floor bolts for tightness				X
Replace Hydraulic Oil				X

9.1 Chains tensioned

Conveyor chains and boom chains needs to be correctly tensioned and straight on roller to avoid any sideways tracking. Belt can be tensioned or straightened using the tensioning blocks located end of lifter. (See chain conveyor manual for operating procedures and maintenance on Spida chain conveyors).

9.2 Keep work area clean and tidy

Check the work area around the lifter is tidy and moving parts free from any build up or dust and grime, clean as necessary.

9.3 Emergency stops

Emergency stops should stop the machine, regularly check that the emergency stops are functional and stop the machines as they should.

9.4 Proximity Stops

Check proximity sensors are free and clear of any build-up of dust and securely fastened, sensor malfunctions will prevent the boom from extending/retracting. The gap between the face of the sensors and boom should be 1.5 - 2.5mm.

9.5 Noises or Vibrations

If any unusual noises or vibrations are noticed, shut the machine down and contact your supervisor or maintenance engineer to rectify the cause. Failure to fix any problem could cause major damage to machine or injury to the operator.

9.6 Keep Chains Clean and Oiled

The Spida Wall Stacker is supplied with Spida Chain Conveyors as standard. See chain conveyor manual for operating procedures and maintenance on Spida chain conveyors.



9.7 Oil/Grease Pivots

All pivots and hinges must be oiled/greased regularly.

9.8 Check hydraulic oil level

Regularly check the hydraulic oil tank level and top up if necessary, check for any leaks or damage on rams and hydraulic lines.

9.9 Air Supply

Air pressure should be maintained at 600-800 kPa take measures to ensure air quality, such as by installing an aftercooler, air dryer, or water separator. Do not use compressed air that contains chemicals, synthetic oils including organic solvents, salt or corrosive gases, etc., as it can cause damage or a malfunction. When synthetic oil is used for the compressor oil, depending on the type of synthetic oil used, or on the conditions of use, there may be adverse effects on the resin of the pneumatic equipment or on the seals if the oil is flowed out to the outlet side, so the mounting of a main line filter is recommended.

9.10 Lubricate Sliders

The upper and lower UHMW sliders in the scissor lift mechanism need to be oiled once a month.

9.11 Loose Fasteners and Fixings

Check for loose bolts especially on guards, cover and floor fixing. Tighten where necessary.

9.12 Replace Hydraulic Oil

The hydraulic oil must be replaced once a year. The oil level should be kept as full as possible. The machine should be put in the lowest position when replacing the hydraulic oil



10 Safe Operation

10.1 User Warnings

- All machine and components should be inspected upon delivery and at weekly intervals for looseness, fracture, bends, sharp edges or surfaces.
- Failure to perform the daily and weekly service checks as per the schedule may result in serious machine damage or a severe accident.
- 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 machine can cause the premature failure of these parts.
- 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 transported securely.
- The machine is not to be used for any other purpose than the transporting of timber frame assemblies.
- Keep hands out of moving parts on the machine. Operators should be instructed not to
 extend fingers or limbs into the vicinity of the sensing or lifting areas. Be sure the machine is
 completely free of foreign objects and that any guards are in place before connection to
 electrical and air supply.
- Any guards removed for maintenance or adjustments must be replaced before the machine is put back into service.
- Exceeding the capabilities of the machine will void the warranty and could lead to a serious injury.
- All Operators should read and then sign the register of this manual before operating the Wall Stacker to ensure they are thoroughly familiar with the machine capabilities and limitations and to ensure correct operating procedures are adhered too.



10.2 General

Table 8, General Hazards

POTENTIAL HAZARDS	SAFE WORK PROCEEDURE
Safety	Ask questions if you have any doubts about doing the work safely. Check and adjust all safety devices daily.
Poor Guarding	Ensure all guards are fitted correctly and are adequately guarding blade, nip points and moving parts. Make sure guards are in position and in good working order. Do not operate machine without guards.
Poor Housekeeping	Inspect Wall Stacker and surrounding areas for obstructions and defects. Remove built-up sawdust from around machine, electrical leads and power points.
Incorrect Accessories	Use only the accessories designed for each specific application
Foreign Objects	Check that foreign objects and maintenance tools etc. are removed from the machine before using the machine.



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.



10.3 Operation

Table 9, Operational Hazards

POTENTIAL HAZARDS	SAFE WORK PROCEEDURE
Slip, Trip & Falls	Avoid awkward operations and hand positions where a sudden slip could cause your hand or part of your body to move into any moving parts. Electric power cords should be above head level or in the floor in such a way that they are not trip hazards. Floor areas should be level and non-slip. Clean up any spill immediately
Workplace	Use good lighting so that the work piece and machine controls can be seen clearly. Position or shade light sources so they do not shine in the operators eyes or cause glare and reflections. Ensure that the floor space around the equipment is sufficient to allow the operator to process his work without bumping into other staff or equipment. Keep the work area free of clutter, clean, well swept and well lit.
Housekeeping	Clean built up sawdust from around the machine, electrical leads and power points
Defects	Report all defects to the supervisor
Personal Protection	Wear safety glasses or a face shield. Wear hearing protection that is suitable for the level and frequency of the noise you are exposed to in the work area. Wear dust masks when required. Do not wear gloves when operating this machine. Do not wear loose clothing, work gloves, neckties, rings, bracelets or other jewellery that can become entangled with moving parts
Machine Guarding	Make sure all guards are fastened in position.
Material Defects	Inspect frames for nails or other foreign materials before transporting. Use only material designed for the machine.
Operator Technique	Do not remove frames from the stacker until the boom has been returned to its home position.
Hit by projectiles	Wall Stacker must be pneumatically and electronically isolated before attempting to clear blockages or timber jams. Any small off cut should be removed using a push stick which has been properly constructed.



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.



10.4 Maintenance

Table 10, Maintenance Hazards

POTENTIAL HAZARDS	SAFE WORK PROCEEDURE
Cleaning and maintenance preparation	Turn the air and electricity off at the main isolators and use the hole in the switch to lock the switch off before discussing, inspecting, changing, cleaning, adjusting or repairing a machine. 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 convenient reach of an operator. Start buttons should be protected so that accidental contact will not start the machine.
Incorrect electrical isolation of machine	Machine must be switched off and locked out (pneumatically isolated) before maintenance or cleaning
Incorrect tools	Use Correct tools for the job to minimise personal injury and damage to the machine
Stalled boom	Isolate air/electricity before attempting to free a stalled boom or conveyor
Guarding	Ensure Guards are fitted correctly, adjusted and in good working order.



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.



11 Foreseeable Misuse

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

Table 11, Common misuse issues

MISUSE	SYMTOM	RECTIFICATION REQUIRED
Too many frames on stacker	Frames not getting stacked	Be sure that if stacking multiple frames, total length of frame must not exceed 6m or gravity stops will not push frames off
Stopper not up	Frames riding onto stacker exceeding maximum total length of 6m or under stacker when stacker is in up position	Remember to have the stopper pin in up position to prevent frame from entering stacker

Any other misuse and resultant damage of the machine is deemed non-foreseeable as its occurrence is not consistent.

12 Trouble Shooting

Table 12, Trouble shooting

TROUBLE	PROBABLE CAUSES	CORRECTION
Boom over extending /retracting	Proximity sensors not working	Check sensors for damage, replace if necessary Check gap of sensor off boom no greater than 2mm
Motors tripping out	Boom obstructed Chain jammed	Clear any obstruction Check chain for any damage or obstruction clear or replace chain if necessary
Stacker not lifting	Hydraulic pump/motor failure Hydraulic oil leak	Check hydraulic power pack for damage Check for any oil leaks and hydraulic oil level



13 Distributor & Repairer Contacts

13.1 Agent/Distributor		
Company Name:		
Contact Person:		
Ph.:	Fax:	
Mobile:		
13.2 Automation Repairs Company Name:		
Address:		
Contact Person:		
Ph.:		
Mobile:	 Email:	
13.3 Mechanical Repairs Company Name:		
Address:		
Contact Person:		
Ph.:		
Mahila	Email:	



14 Warranty

SM2012 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:

- SPIDA extends the original manufacturer's warranty to SPIDA on buy-in items such as motors, saw blades and air cylinders or other such buy-in items but does not add its warranty herein described to such items.
- 2. This warranty only applies if:
 - a. 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.
 - b. The equipment is installed by SPIDA or its licensed installer.
 - c. 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.
 - d. The equipment is operated by competent personnel in accordance with the operating instructions set out in the manual provided by SPIDA and not otherwise. e.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.
 - f.. 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,
 - g. This warranty does not apply to any deterioration due to average wear and tear or normal use or exposure.
 - h. 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

The item bearing the fol	llowing serial plate:	
Date of Shipment:		
Signed by:		
Name:		
Position:		
Acceptance of Warranty		
I acknowledge and acce	pt the contents of this warranty.	
Signed by:		
Name:		
Company:		
Position:		
Date:		



15 Training Certificate

13 Halling	Certificate
Instructor:	
Company:	
	ained the person names below ("the trainee") in the safe operation of the ry/equipment detailed in the training manual.
	nee has demonstrated an understanding of the safe operation of the
	ry/equipment. nee has indicated the he/she has read and understood this training manual.
• Inetian	iee has mulcated the he/she has read and dilderstood this training mandal.
Signed:	
Date:	
•	
Trainee:	
Company:	
Position:	
I declare that:	
	ceived instruction from the person named above ("the instructor") for the safe
· ·	n of the machinery/equipment detailed in this training manual. mation in this training manual was demonstrated and explained by the instructor
	oroughly read and understood this training manual.
Cianad.	
Signed:	
Date:	
Witnessed by:	
Name:	
Company:	
Signed:	

Date: