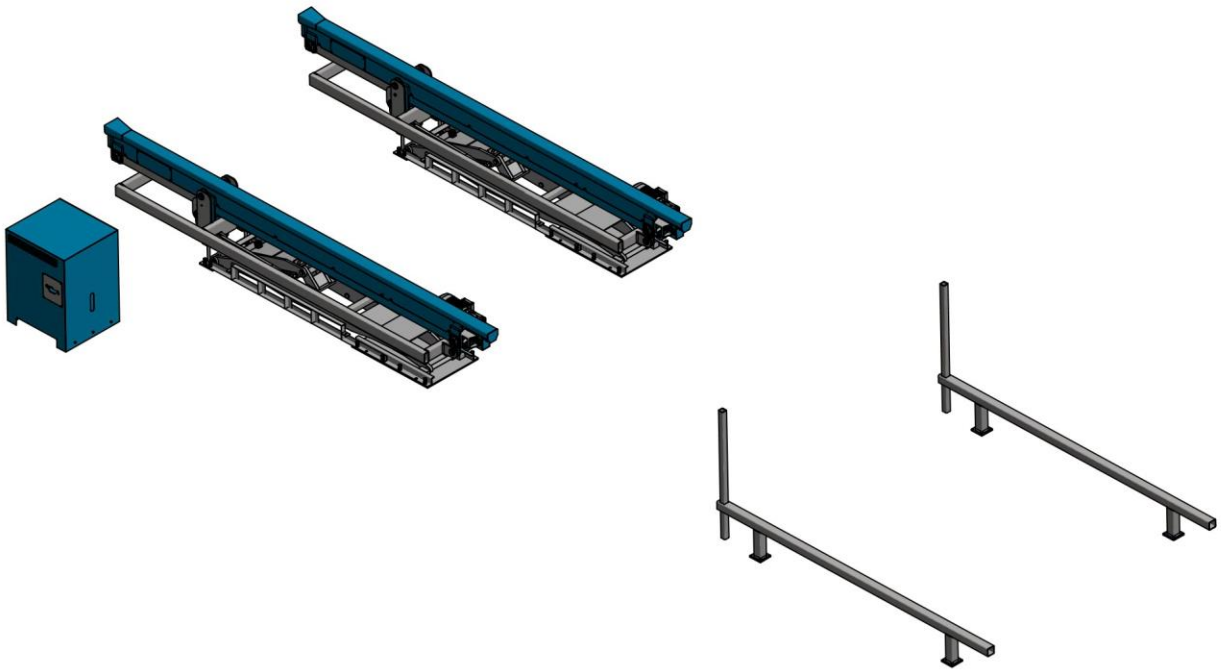
SPIDA MACHINERY
A MULTINAIL COMPANY

Truss stacker



OPERATION & MAINTENANCE 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 equipment and have thoroughly read and understood this manual.

Serial Plates

All enquiries should be directed to:
SM2012 Ltd - Known as SPIDA Machinery

Australia free phone 1800 146 110

America free phone 1888 262 9476

NZ free phone 0800 SPIDAS or +64 7 579 5010

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

1 Contents

Tables

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2 Overview

The Spida Truss 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	4230 - 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 Truss 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 Truss 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 Truss Stacker is built for providing an efficient and safe means of stacking truss assemblies. The Spida Truss 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 Truss 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

Protective Clothing

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

Each member of the factory personnel shall be instructed in the safe use of the Spida Truss 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 Truss 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 Truss 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 Truss Stacker by the operator. The operator should not consider this manual as all-inclusive.

Should you have any questions on the Spida Truss 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 co-workers 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 manual[1].
- Any person under the influence of alcohol or any drugs which would impair the operator's normal functions shall **not** operate the machine[2].
- 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 Truss Stacker without having received the proper instruction in operation and safety from this manual.

6 Operating Controls

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

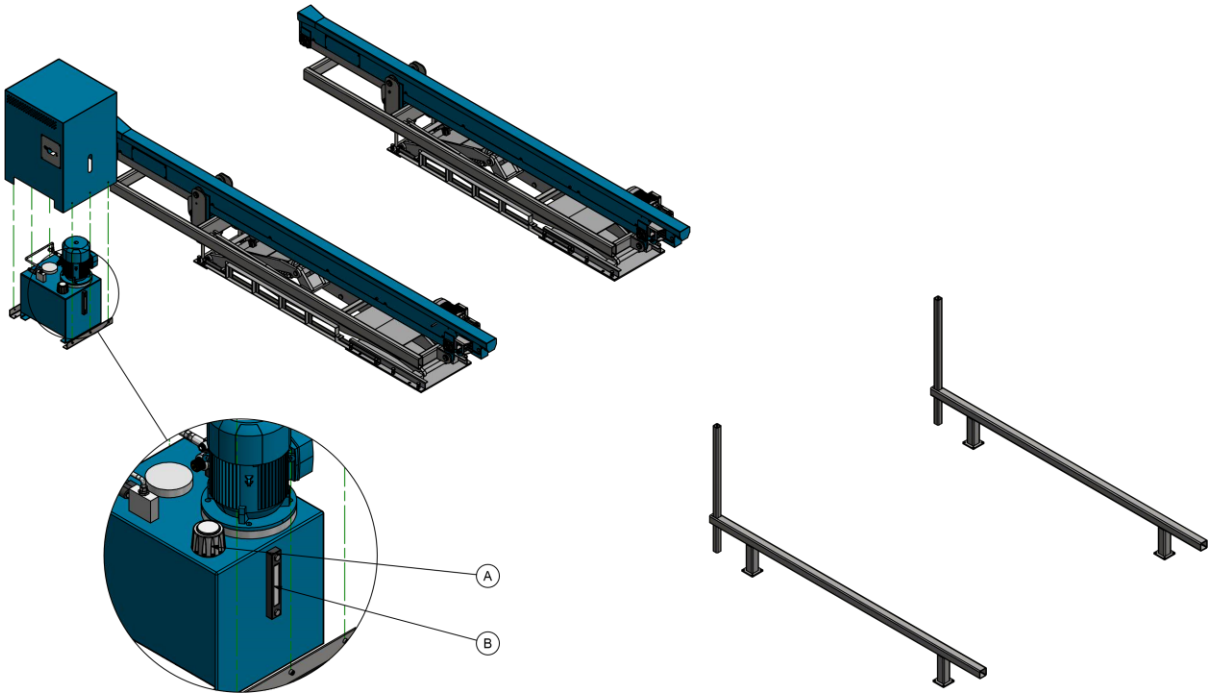

Figure 1, Control locations

Table 2, Control functions see Figure 2

Control	Name	Function
A	Oil cap	Location to re-full hydraulic tank
B	Oil level gauge	Shows quantity of hydraulic oil in tank

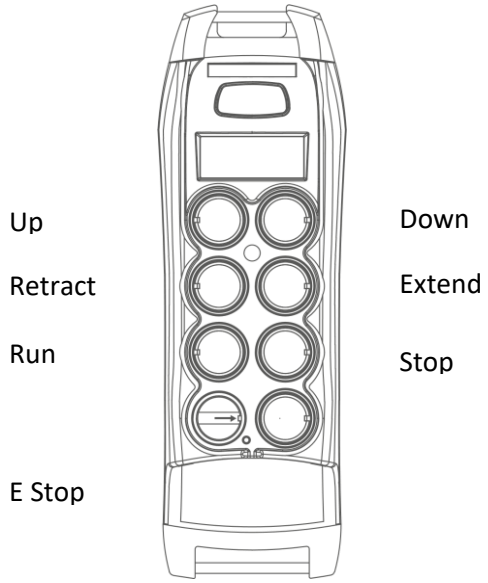

Figure 2, Remote control

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

7 Operation

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

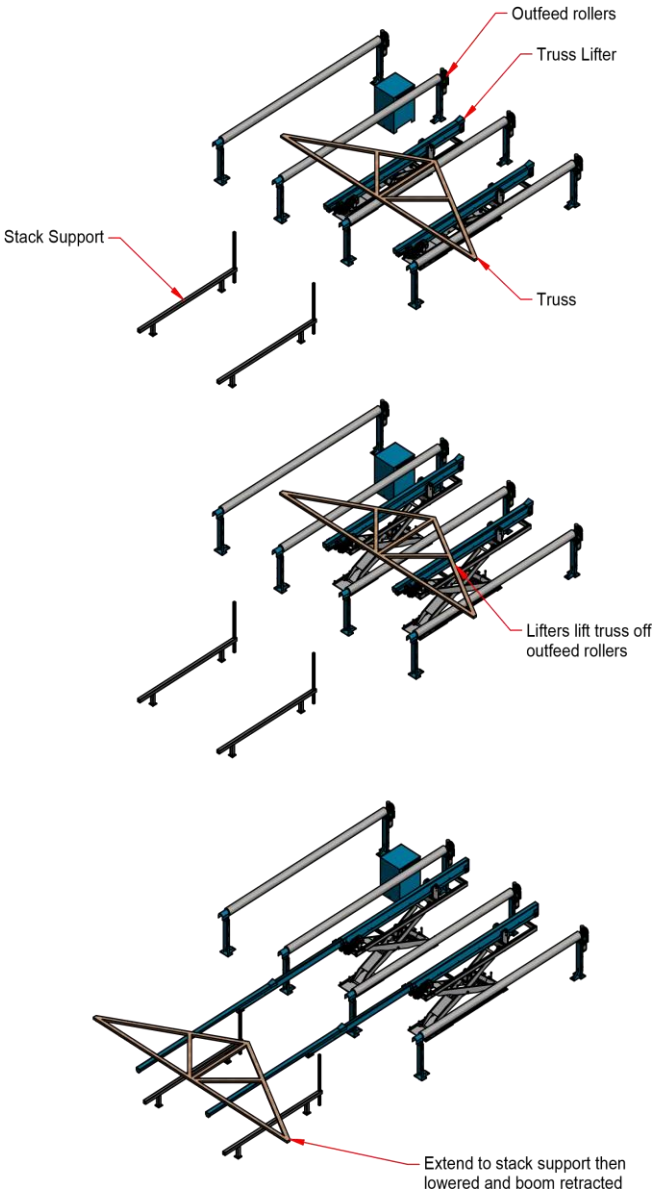

Figure 3, Typical truss stacker configuration

7.1 Remote Control Panel

The Truss Stacker is operated using the supplied remote control. (see Figure 2)

7.1.1 Lifer up

The truss stacker lifts with this button

7.1.2 Lifter Down

The truss Stacker descends using this button

7.1.3 Retract Boom

The boom is retracted using this button, stoppers and sensors prevent the boom from traveling too far.

7.1.4 Extend Boom

The boom is extended using this button, stoppers and sensors prevent the boom from going too far.

7.1.5 Run

Run turns the hydraulic pump on and ready's the lifter

7.1.6 Stop

Stop turns the hydraulic pump off, making the lifter inoperable.

7.1.7 Emergency Stop

This button stops the machine in an emergency

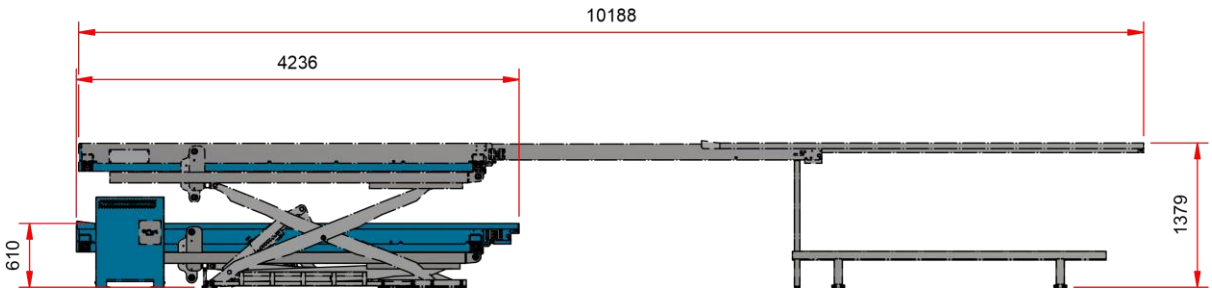

Figure 4, Truss stacker in up and extended position

7.2 General Operation

- As truss aligns with the stackers
- The lifting procedure can begin
- Stacker is lifted to the appropriate height. High enough to clear the stoppers if this is the first truss in a stack or high enough to clear any existing stack.
- Boom is extended the until truss clears stack supports
- Stacker is lowered to the appropriate height, down to the stack supports or next truss if a stack has already been made
- Boom can be retracted; the stack supports will prevent the truss from returning and will drop onto the stack
- Lower the stacker once boom has retracted
- Stopper pin can now be lowered allowing another truss 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 liters of hydraulic oil. See Figure 1

7.4 Isolation

In an emergency, the machine can be shut down using the emergency stop buttons, one is located on the main remote control and others located with the outfeed rollers. 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

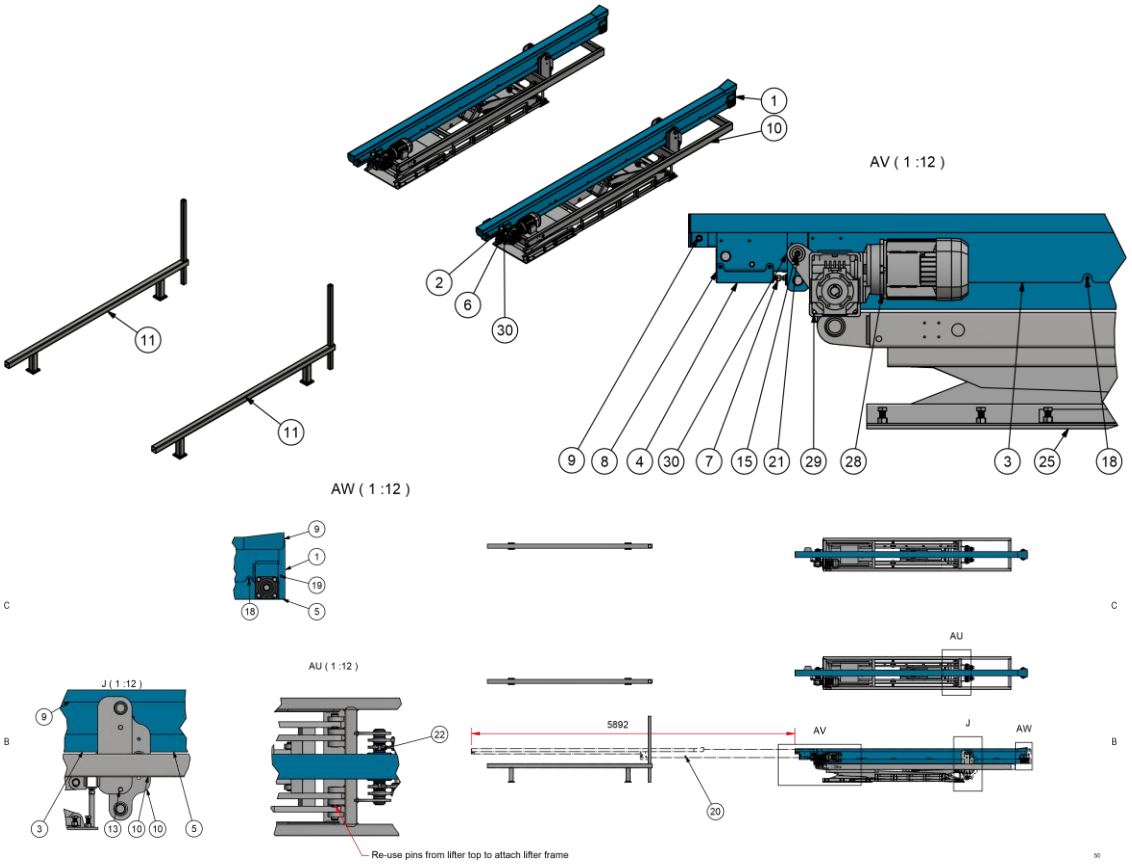

Figure 5. Top level assembly

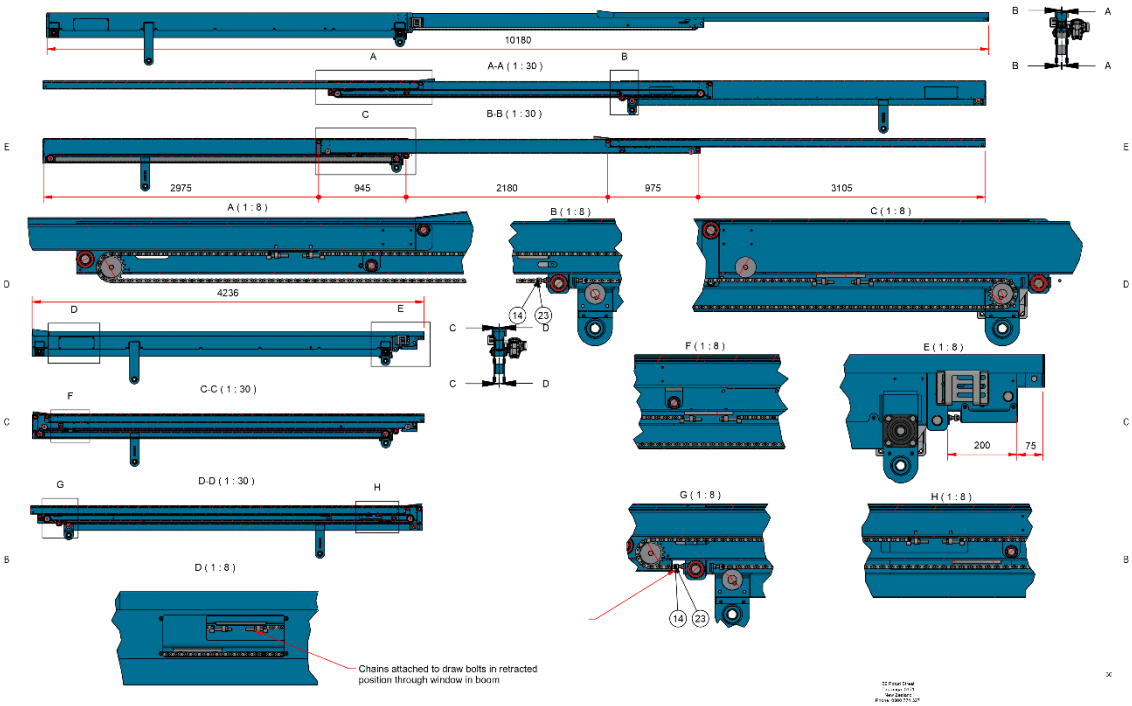

Figure 6, Boom assembly

Table 3, Top level assembly bill of materials

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	1401002	Boom end cap
2	2	1401003	Torque arm spacer
3	2	1401004	Chain cover (long)
4	2	1401005	Sprocket/Chain Cover 2nd Boom
5	2	1401006	Chain cover
6	2	1401007	Front Sprocket Cover
7	2	1401100	1st Boom assembly
8	2	1401200	2nd Boom assembly
9	2	1401300	3rd boom assembly
10	2	1401400	Lifter frame
11	2	1401500	Truss Support
12	1	EKLIFTERTRUSS	Truss lifter electrical kit
13	4	HWBHM1280	Hex bolt M12x80
14	12	HWBHM420	Hex Bolt M4x20
15	2	HWCSM1090BH	Button Head Cap Screw M10x90
16	4	HWCSM1220	Hex Socket Head Cap Screw M12x20
17	2	HWCSM1280BH	Hex Socket Button Head Screw M12x80
18	39	HWCSM610BH	Button Head Cap Screw M6x10
19	8	HWCSM610CS	Hex Socket CSK Cap Screw M6x10
20	2	HWNHHNM12	Half Hex Nut M12
21	2	HWNHM10	Hex nut M10
22	4	HWNHM12	Hex nut M12
23	11	HWNHM4	Hex nut M4
24	8	HWCSM58BH	Button Head Screw M5x8
25	2	PL-P35 - No Platform	PL-P35 Sissor Lift - No platform
26	1	TRCH08B1	08B1 Chain - 8500mm
27	1	TRCH08B1	08B1 Chain - 8000mm
28	2	TREMBN90S4230400-50B14	1.1 kW Motor
29	2	TRGBW63U30P90B14B3	W63 Gearbox - 30:1
30	2	TRTAW63	W63 Torque arm

8.2 First Boom Assembly

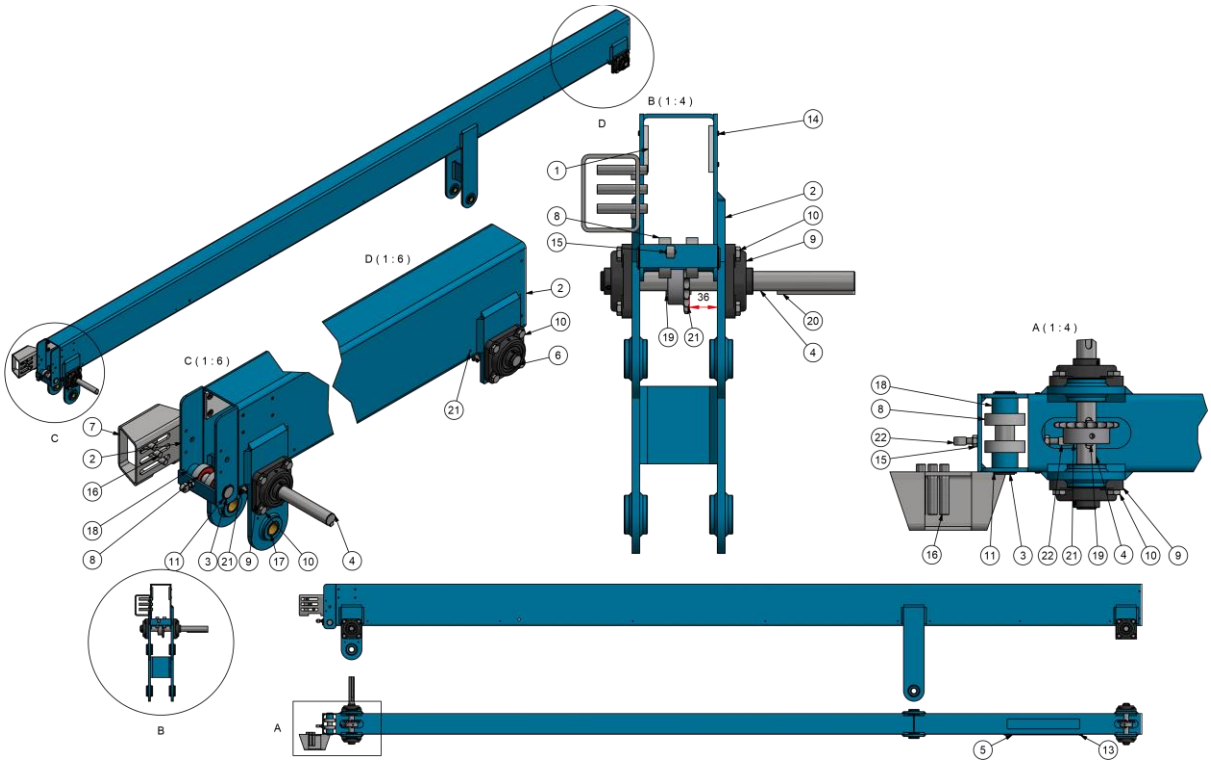

Figure 7, First boom assembly

Table 4, First boom bill of materials

ITEM	QTY	PART NUMBER	DESCRIPTION
1	2	1401001	UHMW wear pad
2	1	1401101	1st boom welded assembly
3	1	1401102	Shaft main boom
4	1	1401103	Pinion shaft
5	1	1401104	1st Boom hatch cover
6	1	1401105	1st Boom sprocket shaft
7	1	1401106	Prox mount/cover
8	2	BRG6205DD	Bearing 52 x 25 x 15
9	4	BRGUCF205-25	4 bolt flange bearing 25mm
10	16	HWBHM1020	Hex bolt M10x20
11	2	HWCCXM25	Circlip 25mm
12	2	HWCSM610	Hex Socket Head Cap Screw M6x10
13	4	HWCSM610CS	Hex Socket CSK Cap Screw M6x10
14	8	HWCSM612CS	Hex Socket CSK Head Screw M6x12
15	2	HWNHM8	Hex nut M8
16	3	PSIME1204BPSZCOS	SICK Prox Sensor
17	120.000 mm	RMBBM2530	Brass tube for bushing - 25x30
18	60.000 mm	RMSBP25H	Black pipe 33.7x4
19	64.000 mm	RMSKM8	Key steel 8x8
20	100.000 mm	RMSKM8	Key steel 8x8
21	2	TRCH08B1-19T-25-08	Chain sprocket 08B1/19T - 25 Dia. - 8mm Key
22	2	TRCHBL08B	Anchor Stud - 08B1 - #661031

8.3 Second Boom Assembly

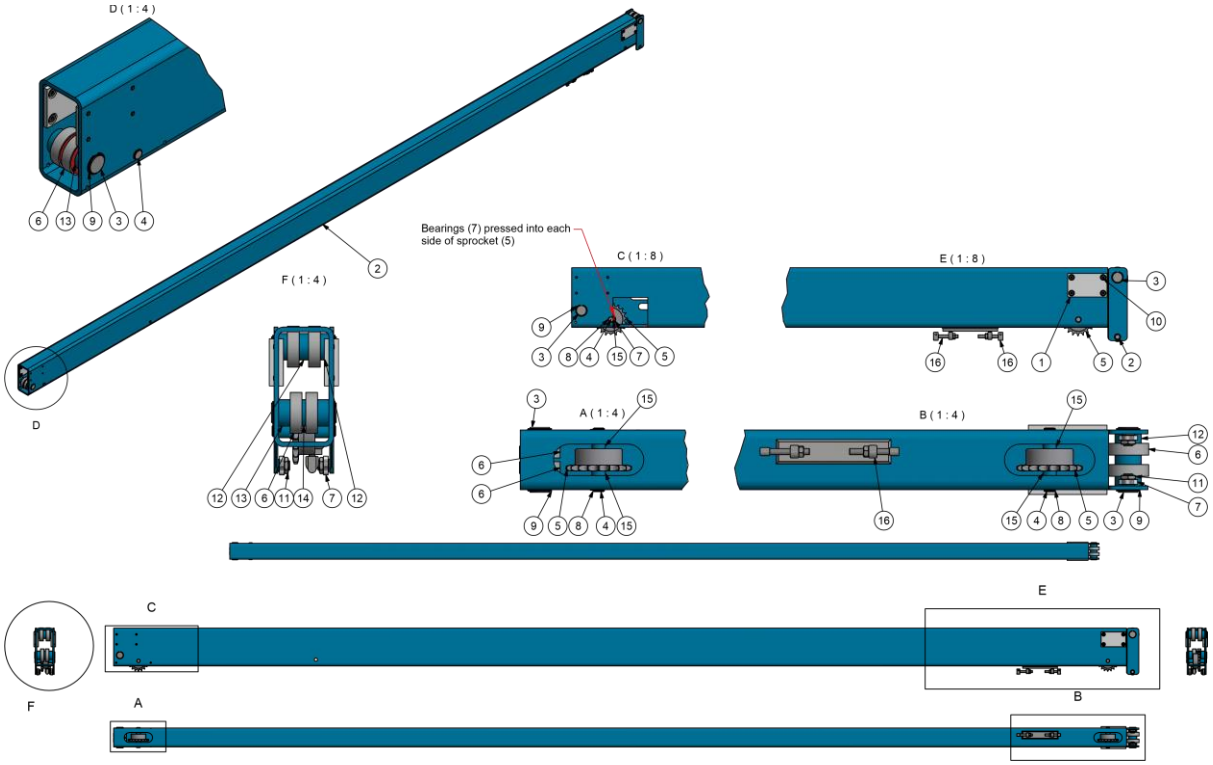

Figure 8, Second boom assembly

Table 5, Second boom bill of materials

ITEM	ITEM QTY	BASE QTY	PART NUMBER	DESCRIPTION
1	4		1401001	UHMW wear pad
2	1		1401201	2nd boom welded section
3	2		1401202	Shaft 2nd boom
4	2		1401203	Shaft cable rollers 2nd boom
5	2		1401204	Chain sprocket 08B1/21T
6	4		BRG6205DD	Bearing 52 x 25 x 15
7	6		BRG6901DD	Bearing 22 x 10 x 6
8	4		HWCCX12	Circlip 12mm
9	4		HWCCXM25	Circlip 25mm
10	16		HWCSM612CS	Hex Socket CSK Head Screw M6x12
11	2		HWNHHNM12	Half Hex Nut M12
12	3	12 mm	RMSBP25H	Black pipe 33.7x4
13	2	14 mm	RMSBP25H	Black pipe 33.7x4
14	1	5 mm	RMSBP25H	Black pipe 33.7x4
15	4	18 mm	RMSLP10L	Seamless pipe 17.1 x 2.31
16	2		TRCHDBB08B	Draw bolt and block - 08B1 - #661410

8.4 Third Boom Assembly

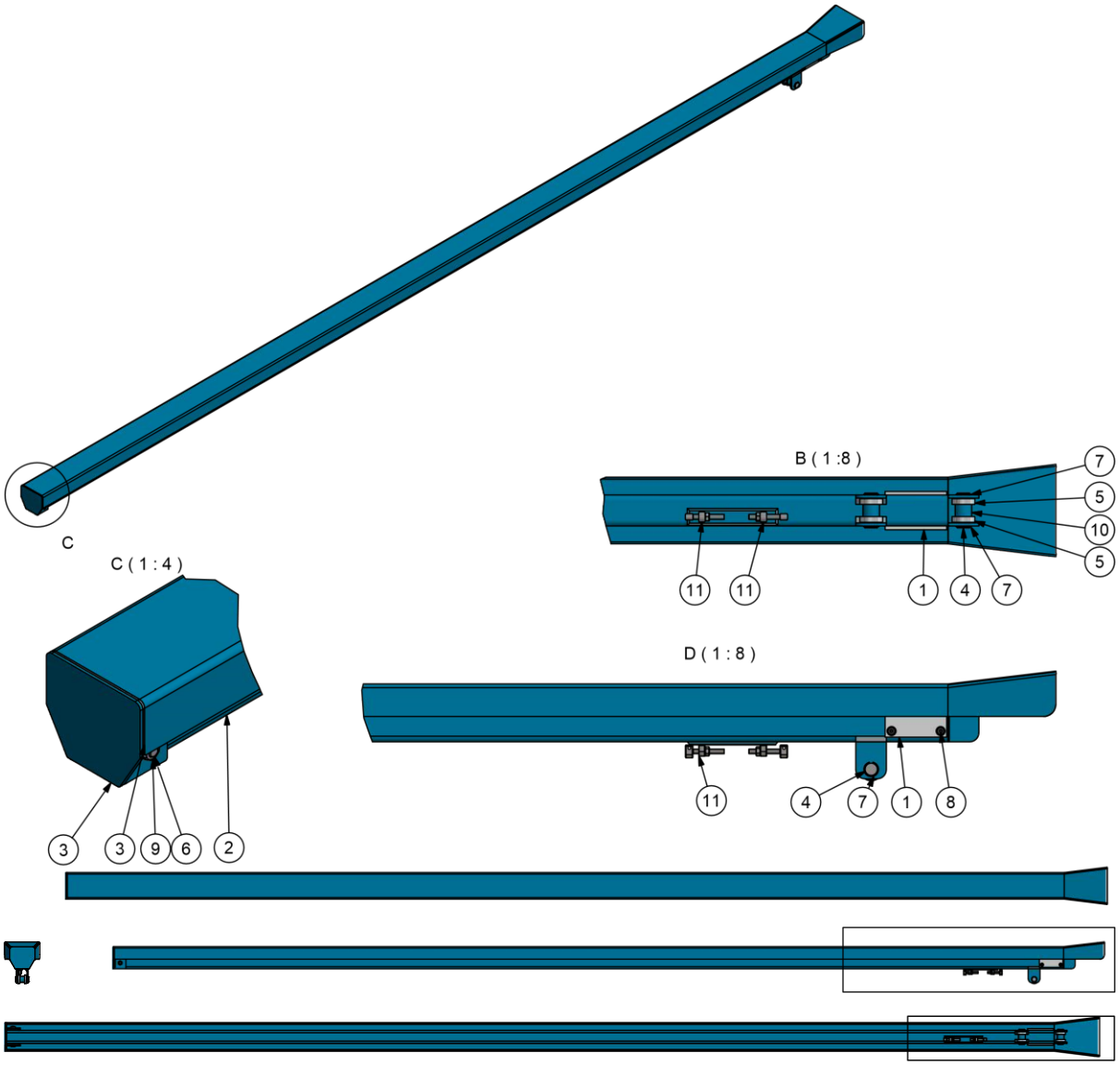

Figure 9, Third boom assembly

Table 6, Third boom bill of materials

ITEM	ITEM QTY	BASE QTY	PART NUMBER	DESCRIPTION
1	2	1	1401001	UHMW wear pad
2	1	1	1401301	3rd boom main bar (Welded assembly)
3	1	1	1401302	3rd boom cover assembly
4	2	1	1401303	Shaft 3rd boom
5	4	1	BRG6904DDU	Bearing 37 x 20 x 9
6	1	1	HWBHM1070	Hex Bolt M10x70
7	4	1	HWCCXM20	Circlip
8	8	1	HWCSM612CS	Hex Socket CSK Head Screw M6x12
9	1	1	HWNHM10	Hex nut M10
10	2	20.000 mm	RMSBP20H	Black pipe 26.9 x 3.2
11	2	1	TRCHDBB08B	Draw bolt and block - 08B1 - #661410

8.5 Frame Assembly

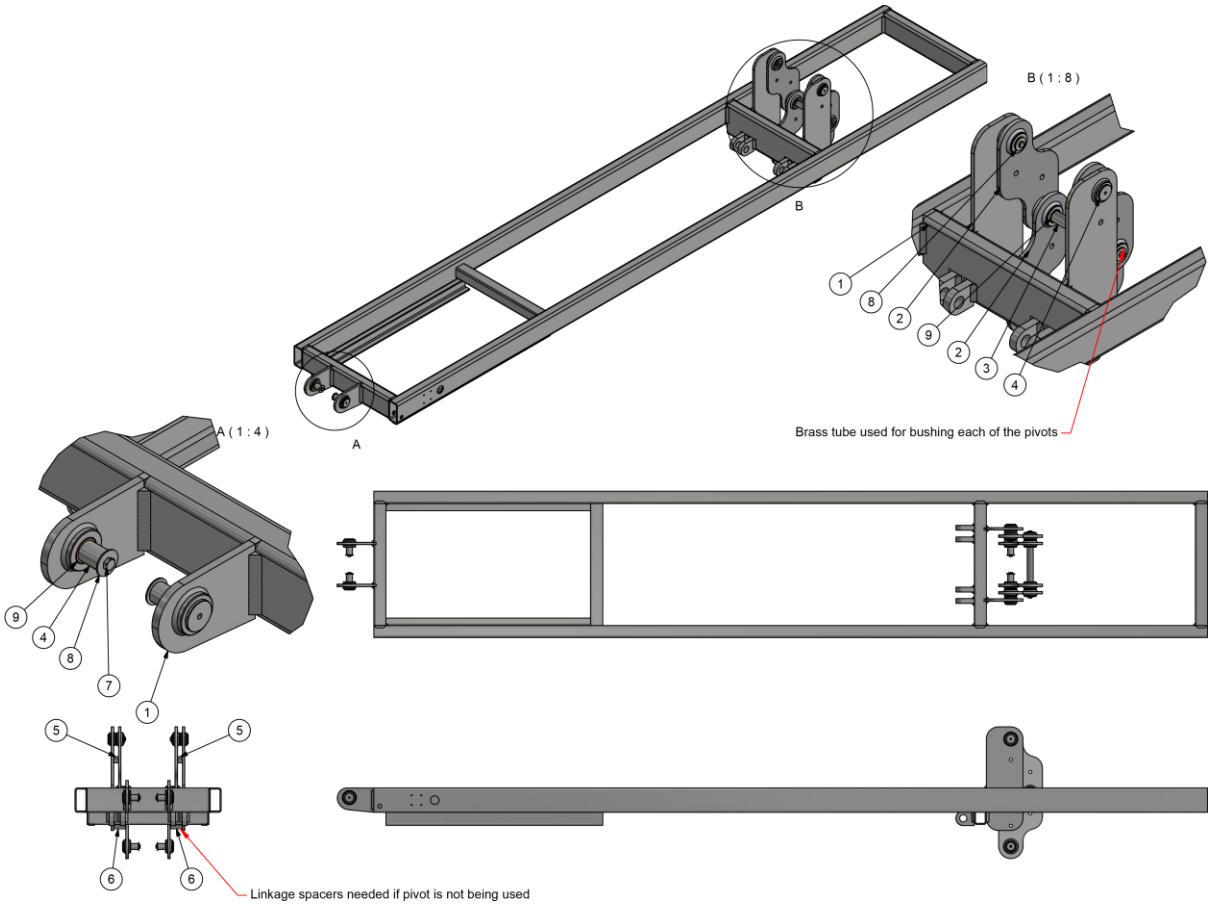

Figure 10, Frame assembly

Table 7, Frame assembly bill of materials

ITEM	ITEM QTY	BASE QTY	PART NUMBER	DESCRIPTION
1	1	1	1401401	Lifter Frame (welded assembly)
2	4	1	1401402	Linkage
3	1	1	1401403	Ram shaft (long)
4	6	1	1401404	Pivot Stud
5	2	1	1401405	Linkage Spacer
6	2	1	1401406	Linkage Spacer (long)
7	8	1	HWBHM820	Hex bolt M8x20
8	9	1	HWWFM832	Washer M8x32 #WM10212
9	12	30.000 mm	RMBBM2530	Brass tube for bushing - 25x30

9 Maintenance

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

Table 8, 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 Truss 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 loose bolts			x	
Lubricate sliders			x	
Floor bolts for tightness				x
Replace Hydraulic Oil				x

9.1 Chains tensioned

Boom chains needs to be correctly tensioned and straight on sprockets to avoid any sideways tracking. Chains can be tensioned or straightened using the tensioning blocks located at end of lifter.

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 Truss Stacker is supplied with 08B1 chains, these must be well lubricated and kept free of any obstructions or dust build up.

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 9, 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 Truss 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 10, 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 11, 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 12, Common misuse issues

MISUSE	SYMTOM	RECTIFICATION REQUIRED
Too many trusses on stacker	Trusses not getting stacked	Machine only to be used for stacking one truss at a time
Extending to early	Truss not being picked up or moving	Wait until truss is lifted off rollers before extending boom

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

12 Trouble Shooting

Table 13, 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: _____ Email: _____

13.2 Automation Repairs

Company Name: _____

Address: _____

Contact Person: _____

Ph.: _____ Fax: _____

Mobile: _____ Email: _____

13.3 Mechanical Repairs

Company Name: _____

Address: _____

Contact Person: _____

Ph.: _____ Fax: _____

Mobile: _____ 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:

1. 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 following serial plate:

_____

Date of Shipment: _____

Signed by: _____

Name: _____

Position: _____

Acceptance of Warranty

I acknowledge and accept the contents of this warranty.

Signed by: _____

Name: _____

Company: _____

Position: _____

Date: _____

15 Training Certificate

Instructor: _____

Company: _____

I declare that:

- I have trained the person names below ("the trainee") in the safe operation of the machinery/equipment detailed in the training manual.
- The trainee has demonstrated an understanding of the safe operation of the machinery/equipment.
- The trainee has indicated the he/she has read and understood this training manual.

Signed: _____

Date: _____

Trainee: _____

Company: _____

Position: _____

I declare that:

- I have received instruction from the person named above ("the instructor") for the safe operation of the machinery/equipment detailed in this training manual.
- All information in this training manual was demonstrated and explained by the instructor.
- I have thoroughly read and understood this training manual.

Signed: _____

Date: _____

Witnessed by:

Name: _____

Company: _____

Signed: _____

Date: _____