holzkraft
Holzbearbeitungsmaschinen

EN

Operating instructions

Log band saw

- HBBS 400
- HBBS 660
- HBBS 810

HBBS 810

HBBS 400

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Foreword

Dear Customer,

Thank you for purchasing the holzkraft Log band saw.

holzkraft Woodworking machines offer the highest level of quality, technically optimal solutions and impress with an outstanding price-performance ratio. Continuous development and product innovations ensure the latest technology and safety at all times.

Before operating the machine, please read this manual thoroughly and familiarize yourself with the machine. Also ensure that all persons operating the log band saw have always read and understood the manual beforehand. Keep this manual in a safe place near the log band saw.

information

This manual contains information on the safe and proper installation, operation, and maintenance of the log band saw. Continuous compliance with all instructions contained in this manual ensures the safety of both personnel and the machine.

The manual specifies the intended purpose of the log band saw and contains all necessary information for economical operation and a long service life.

The Maintenance section describes all maintenance work and functional tests that must be carried out regularly by the user.

The illustrations and information in this manual may differ from the current state of your log band saw. As a manufacturer, we continually strive to improve and innovate our products; therefore, changes may be made without prior notice. The illustrations of the log band saw may differ in some details from those in this manual, but this does not affect the operation of your machine.

Therefore, no claims can be derived from the information and descriptions. We reserve the right to make changes and errors!

Your suggestions regarding this manual are an important contribution to optimizing the work we offer our customers. Please contact our customer service department if you have any questions or suggestions for improvement.

If you still have questions after reading this manual or if you cannot solve a problem using this manual, please contact your dealer.

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Product identification:

Log band saw	Article number
HBBS 400 / 230V	5670401
HBBS 400 / 400V	5670403
HBBS 660	5670663
HBBS 660 G	5670664
HBBS 810	5670813
HBBS 810 G	5670814

1 Security

Conventions of representation

–	provides additional information
–	calls you to action
-	Lists

This part of the operating instructions

- explains the meaning and use of the warnings used in this manual,
- specifies the intended use of the log band saw,
- draws your attention to dangers that could arise for you and other persons if these instructions are not followed,
- informs you how to avoid dangers.

In addition to the operating instructions, please note

- the applicable laws and regulations, the legal
- provisions for accident prevention, the prohibition,
- warning and mandatory signs.

Always keep the documentation near the device.

1.1 Safety instructions (warnings)

Hazard classification

We divide safety instructions into different levels. The table below provides an overview of the assignment of symbols (pictograms) and signal words to the specific hazard and (possible) consequences.

pictogram	Signal word	Definition/Consequences
	**DANGER!**	Immediate danger that will result in serious injury or death to persons.
	WARNING!	Risk: a hazard could result in serious injury or death to persons.
	CAUTION!	Dangerous or unsafe practice that could result in personal injury or property damage.
	**DANGER!**	Situation that could result in damage to the device or other harm. No risk of injury to persons.
	**information**	Application tips and other important/useful information and notes. No dangerous or harmful consequences for persons or property.

Pictograms that indicate specific hazards

General
Warning signs

Warning about
electric
Tension

Warning about
Hand injuries

Warning of hot
surface

Warning about
automatic
Start-up

Warning of obstacles
on the ground

Warning: Danger of tipping!

Warning of floating
Load!

Warning about
flammable substances!

Pictograms indicating commands/prohibitions

Use protective clothing!

Use hearing protection!

Follow the instructions!

Unplug the power cord!

Use eye protection!

Use hand protection!

Use foot protection!

1.2 Intended use

The log band saw is designed for sawing logs.

The operating conditions for the saw blade used must be observed while observing the safety instructions.

Part of the intended use is that you

- follow the operating instructions carefully,
- follow the inspection and maintenance instructions.

1.3 Reasonably foreseeable misuse

Any use of the log band saw beyond its intended use or for any other purpose is considered misuse. Operating personnel must be sufficiently qualified or have received appropriate, practical training to operate the log band saw. To avoid misuse, the operating instructions must be read and understood before use.

Possible misuses may include:

- Use of the block band saw for materials other than wood (e.g. processing metal, plastic).
- Processing workpieces that are too large or heavy.
- Operating the log band saw without functioning, designated safety devices.
- Bypassing or modifying the machine or its protective devices.
- Exceeding the performance limits specified in the “technical data”.
- Use of the log band saw in rooms with aggressive, explosive or flammable substances (the log band saw is not explosion-proof as standard).
- Failure to comply with maintenance instructions.
- Failure to observe signs of wear and damage.
- Service work by untrained or unauthorized personnel.
- Maintenance work on an unsecured machine.
- Deliberate or careless handling of the band saw during operation.
- Installation of spare parts and use of accessories and operating materials not approved by the manufacturer.

- Processing several workpieces simultaneously in one work step.
- Machining oversized or undersized workpieces so that safe working can no longer be guaranteed

- Modifications to the block band saw or the use of modified tool systems.
- Overloading of the machine.

WARNING!
If the log band saw is not used as intended

- **dangers arise for the staff,**
- **If the log band saw and other material assets of the operator are**
- **endangered, the function of the log band saw may be impaired.**

The not intended use the Log band saw as well as the disregard the Failure to comply with the safety regulations or the operating instructions will exclude the manufacturer's liability for any resulting damage to persons or property and will void the warranty!

1.4 Residual risks

Even if all safety regulations are observed and the machine is used correctly, residual risks still exist, which are listed below.

Mechanical risks

- The risk of bruised fingers, hands, or legs when disassembling machine parts. Risk of eye
- injury from flying debris, even with safety goggles.
- Hearing impairments when working for long periods without hearing protection or if the protection is inadequate.
- Danger from inhaling wood dust or exhaust fumes.
- Risk of injury from falling disassembled parts during maintenance and service work.
- Risk of injury from moving parts if the machine operates after the safety covers have been removed.
- Risk of injury from moving machine parts at an inadmissible distance - too close to working machine parts.
- Heat buildup on components can cause burns and other injuries. Risk of injury if the machine is
- handled incorrectly, transported, or moved.

Electrical risks

- Danger of direct or indirect contact with electrical parts (live parts) after removing the protective covers or after damaging the insulating parts.
- Risk of injury from electrical components if parts of the electrical system are damaged. If the log band
- saw is operated and maintained by insufficiently qualified personnel, incorrect operation or improper maintenance may pose a hazard.

If the log band saw is operated and maintained by insufficiently qualified personnel, the log band saw may pose a hazard due to incorrect operation or improper maintenance.

1.5 Qualifications of staff

Target group

This guide is for

- the operators,
- the operators,
- the personnel for maintenance work.

Therefore, the warnings refer to both the operation and maintenance of the log band saw.

Clearly and unambiguously define who is responsible for the various activities on the log band saw (operation, maintenance and repair).

Unclear competencies are a security risk!

This manual lists the qualifications required by individuals for the various tasks:

operator

The operator has been instructed by the owner about the tasks assigned to him and the potential dangers associated with improper use. The operator may only perform tasks that go beyond normal operation if specified in these instructions and if the owner has expressly authorized him to do so.

qualified electrician

Due to their professional training, knowledge and experience as well as knowledge of the relevant standards and regulations, the qualified electrician is able to carry out work on electrical systems and to independently identify and avoid potential hazards.

The electrician is specially trained for the working environment in which he or she works and is familiar with the relevant standards and regulations.

Specialist staff

Due to their professional training, knowledge and experience as well as knowledge of the relevant regulations, qualified personnel are able to carry out the work assigned to them and to independently identify and avoid potential hazards.

Instructed person

The instructed person was informed by the operator about the tasks assigned to him and the possible dangers in case of improper conduct.

Authorized persons

Authorized persons for operation and maintenance are the instructed and trained specialists of the operator and the manufacturer.

Only authorized personnel may operate the log band saw! Improper operation can pose a risk to people, the machine, and the environment.

The operator must
- train the staff,
- instruct staff at regular intervals (at least once a year) about
  - all safety regulations concerning the log band saw,
  - the operation,
  - check the recognized rules of technology, the
- level of knowledge of the staff, document the
- training/instructions,
- Have participation in training/instructions confirmed by signature, check whether the staff
- works in a safety-conscious manner and observes the operating instructions.

The operator must
- have received training in the use of woodworking machines, know their function
- and mode of operation,
- before commissioning
  - have read and understood the operating instructions,
  - be familiar with all safety devices and regulations.

1.6 General safety instructions

- The assembly of the machine and electrical connections must be carried out by an authorized specialist.
- Never work under the influence of illnesses that impair concentration, fatigue, drugs, alcohol, or medication. Do not smoke while operating the machine.
- Only switch on the machine immediately before starting work. Do not leave the machine unattended while it is in operation.
- Only operate the machine with all safety devices fully and correctly installed and do not modify the machine in any way.
- Never open the protective covers while the log band saw is in operation.
- Keep the work area and the floor around the band saw free of any objects that could endanger your stability or pose a tripping hazard.
- Before and during work, check the danger area to ensure that no unauthorized persons are present there.
- Protect the log band saw from moisture and humidity.

- Do not leave tools, parts, or other materials on or near the machine, as this could pose a safety hazard if parts become drawn into the machine during operation.

- Keep children and people unfamiliar with the band saw away from the work area.
- Switch off the machine and unplug it before replacing consumables and wearing parts.

- Always pull on the plug, never the cable, to disconnect the power cord from the outlet. Protect the cable from heat, oil, and sharp edges.
- Immediately eliminate any faults that affect safety.
- Before each use of the log band saw, make sure that no parts are damaged. Replace damaged parts immediately to avoid potential hazards.
- Do not overload the log band saw.
- Use only original spare parts and accessories to avoid potential hazards and accidents. Observe safety
- regulations while working.
- The machine may only be operated by trained personnel.
- The necessary personal protective equipment must be worn when operating the machine and during maintenance and repair work.
- Do not wear loose clothing such as ties or scarves while operating or servicing the machine. Wear non-slip shoes.
- Only use the machine when all guards are in place and in working order. No guards should be removed or discarded.
- Make sure that the machine is properly installed and connected to the power supply (this can only be done by qualified personnel in accordance with applicable regulations and standards).

- Inspection and repair of the wiring must be carried out in accordance with applicable regulations and standards.
- Maintain a safe distance from all moving parts (i.e. saw blade, motor).
- Disconnect the machine from the power supply when handling the saw blade or performing maintenance work.
- Never operate with a defective throttle lever or switch.
- When the saw blade is moving, no part of the body should be near the cutting zone. No other parts of
- the machine should be tampered with during operation.
- Only use saw blades recommended by the manufacturer.
- Do not machine material whose size and properties do not match the cutting capacity of the machine.

- Before starting the first cutting cycle, the operator should perform an "empty" cycle, i.e. without material, to check the correct adjustment of the saw.
- Chemicals and solvents that could damage painted surfaces should not be used in the immediate vicinity of the machine.
- The area around the machine must be kept free of water, oil or chemicals to avoid slippery surfaces.

- Never use the log band saw in environments
  - which contain unknown substances.
  - with risk of explosion or fire.
  - with poor ventilation.
- Ensure a sufficiently lit work environment for machine operation. In the event of a malfunction or unusual
- behavior, operation must be stopped immediately until the cause is determined and the fault is rectified. Only then may the machine be put back into operation. Be aware of all mechanical hazards in the
- surrounding area, including those below the machine, that are hidden from the operator's view and with which unintentional contact could occur, causing personal injury or property damage.

- Beware of moving, rotating, or cutting parts. Beware of the saw
- blade's recoil.

- Never touch the engine, muffler, or rubbing parts during or immediately after operation; these parts can be hot and cause severe burns. Allow the machine sufficient time to cool down.

- Close the fuel tap when the machine is not in operation.
- Never leave the log band saw running unattended.
- Clean and lubricate the machine regularly. Do not use household cleaners as these could damage the surface.
- Keep the saw blades sharp and clean to avoid jamming. Coiled saw blades can
- bounce/spring in all directions with considerable force. Ensure all guide blocks are
- securely in place and the guide rail is level. Cut branches from the logs.
-
- Do not cut into wood that contains nails, screws, or other metal parts. Secure
- logs with the clamp, not by hand. Move the saw head slowly along the saw head
- guide rail.
- Trim off any rounded sides of the log to create a flat support surface. If the log is square,
- boards or posts can be cut to size. Turn off the machine after use and unplug the power
- cord.

FIRE HAZARD

- Make sure there are no flammable, ignitable materials near the work area.

- Have suitable extinguishing agents ready.
- Avoid the spread of open flames due to sparks, slag and glowing material.

- Make sure that fire protection devices are located near the work area.
- Electrical equipment must not be extinguished with water. Powder or halon fire extinguishers must be located in the premises, and operators must be familiar with their use. If a water or foam extinguisher is located near the equipment, it can be used after the power is turned off.

- The surface of electrical protective devices and surfaces on which increased heat generation is expected (e.g. electric motor) should be regularly cleaned of dust and other contaminants so that the efficiency of the surface cooling is not impaired.
- Do not smoke while operating the machine or refueling the engine.
- Do not refuel a hot, running, or open flame engine. Avoid spilling fuel and always refuel in a well-
- ventilated area.
- Do not run the engine near open flames. Always replace the fuel cap
- after refueling.
- ALWAYS check the fuel lines and fuel tank for leaks and cracks. If any damage is visible, do not operate the machine.

1.7 Safety markings

The following safety markings and symbols are attached (Fig. 1-2), which must be observed and followed:

1 2

Fig.1-1: Safety signs - 1 Mandatory sign: Follow instructions, wear eye protection, wear foot protection, unplug, wear hearing protection, wear mask I 2 Warning signs: general warning sign, warning of electrical voltage, warning of danger from rotating saw blade, warning of laser beams

A notice:

Damaged or missing safety symbols on the log band saw can lead to incorrect handling, resulting in personal injury and property damage. The safety symbols attached to the log band saw must not be removed. Damaged safety symbols must be replaced immediately.

The following should be noted:

- If the safety signs fade or become damaged during the service life of the machine, new signs must be installed immediately.
- From the moment the signs are no longer immediately recognizable and understandable at first glance, the device must be taken out of service until the new signs are installed.

2 Technical data

General data	Unit	HBBS 400 / 230V	HBBS 400 / 400V	HBBS 660
Length (product)	mm	3000	3000	4000
Width/Depth (Product)	mm	1500	1500	2150
Height (product)	mm	1300	1300	2000
Weight (net)	kg	150	150	330
Connection voltage [V]	V	230	400	400
Phase(s) 7 Current type		1	3	3
Drive motor power	kW	2.2	2.2	5.5
Drive type		Electrical	Electrical	Electrical
Saw blade length	mm	2750	2750	3650
Saw band width	mm	19	19	34
kerf	mm	0.9	0.9	1
Belt speed	m/sec	14	14	18
Belt speed	m/min	840	840	1080
Impeller diameter	mm	350	350	475
maximum trunk diameter	mm	400	400	660
maximum cutting length	mm	2500	2500	3200
maximum cutting width	mm	350	350	530
Passage over saw band	mm	150	150	190
Material frame construction		Steel	Steel	Steel
feed		Manually	Manually	Manually
Sound power level	dB	94.6	96.1	94.6
Pack size (LxWxH)	mm	1570x525x750	1570x525x750	2100x645x880

General data	Unit	HBBS 660 G	HBBS 810	HBBS 810 G
Length (product)	mm	4000	4000	4000
Width/Depth (Product)	mm	2150	2350	2350
Height (product)	mm	200	2080	2080
Weight (net)	kg	340	380	390
Connection voltage [V]	V	-	400	-
Phase(s) 7 Current type		-	3	-
Drive motor power	kW	11	7.5	11
Drive type		petrol	Electrical	petrol
Saw blade length	mm	3650	4015	4015
Saw band width	mm	34	34	34
kerf	mm	1	1	1
Belt speed	m/sec	20	18	20
Belt speed	m/min	1200	1080	1200
Impeller diameter	mm	475	475	475
maximum trunk diameter	mm	660	810	810
maximum cutting length	mm	3200	3200	3200
maximum cutting width	mm	530	700	700
Passage over saw band	mm	190	190	190
Material frame construction		Steel	Steel	Steel
feed		Manually	Manually	Manually
Sound power level	dB	96.1	94.6	96.1
Pack size (LxWxH)	mm	2100x645x880	2270x645x880	2270x645x880

2.1 Nameplate

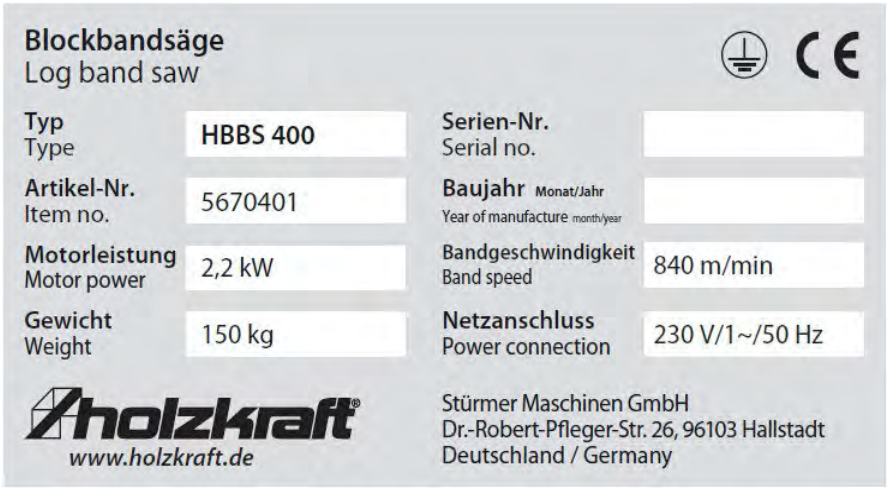


Fig.2-1: Nameplate HBBS 400

3 Transport, packaging, storage

3.1 Transportation

Check She the Log band saw after delivery on visible Transport damage.
If you discover any damage to the log band saw, report it immediately to the transport company or dealer.

3.1.1 Information on transport

Improper transport, installation and commissioning is prone to accidents and can cause damage or malfunctions to the log band saw, for which we accept no liability or guarantee.

Transport the scope of delivery to the installation site using a sufficiently dimensioned industrial truck or crane, ensuring it is secured against shifting or tipping. The surface on which the log band saw is standing must be able to support its weight!

WARNING
DANGER TO LIFE IF THE LOAD FALLS!

Severe to fatal injuries can occur if machine parts tip over or fall during transport. Damaged or insufficiently strong lifting gear and load-slinging devices can break under load, thus posing an immediate, unforeseeable threat to life!

- Only use transport equipment and load-slinging devices that can support the total weight of the log band saw and that are in perfect condition!
- Inappropriate attachment points can fail, causing the load to fall. When transporting the machine, only attach the load hook to suitable attachment points on the load.
- Avoid overloading! Observe the total weight of the log band saw, which is specified in the "Technical Data." When unpacked, the weight of the log band saw can also be read on the rating plate.

- Secure loads carefully. Never step under or into the swinging area of suspended loads! Observe the
- accident prevention regulations of your company's professional association or other supervisory authorities.
- Please follow the instructions and information on the transport box.
- When lifting and lowering a load, ensure that the operator remains out of reach of the load at all times in case it slips or falls.
- Do not make sudden changes in the direction of movement! A lifted load must never be subjected to impact or shock loads.
- To minimize stress on the log band saw and prevent accidents, never leave heavy loads suspended for extended periods. Only lift loads when they need to be moved.
- Never leave a lifted load unattended. Lower the load when leaving the work area.

3.1.2 General hazards during internal transport

WARNING RISK OF TIPPING!

The machine may only be lifted if it is adequately secured. Employees must stay out of the danger zone and out of reach of the load. Warn employees and inform them of the hazard.

Transport may only be carried out by authorized and qualified personnel. Insufficiently qualified personnel may fail to assess the risks involved in transporting the machine and may expose themselves and others to the risk of serious or fatal injury. Act responsibly during transport and always consider the consequences. Avoid daring and risky actions.

Slopes (e.g., driveways, ramps, etc.) are particularly dangerous. If driving on such sections is unavoidable, special caution is required.

Before starting transport, check the transport route for possible hazards, unevenness and faults as well as for sufficient strength and load-bearing capacity.

Hazardous areas, unevenness, and defects must be inspected before transport. The removal of hazardous areas, defects, and defects by other employees during transport poses significant risks.

Careful planning of internal transport is therefore essential.

3.1.3 Transport with a forklift or pallet truck

A NOTICE!

Please also note the information on transport in the previous sections!

- When unloading the transport items upon delivery and during internal transport, proceed carefully and observe the symbols and instructions on the packaging.
- Only use the designated anchor points.
- Only remove packaging shortly before assembly.

3.2 Packaging

All packaging materials and packaging aids used for the block band saw are recyclable and must be recycled.

Shred cardboard packaging components and dispose of them in the waste paper collection.

The films are made of polyethylene (PE), and the padding is made of polystyrene (PS). These materials can be disposed of at a recycling center or with your local waste disposal company.

3.3 Storage

Clean the machine thoroughly before storing it in a dry, clean, dust-free, and frost-free environment. Do not store it in the same room as chemicals.

If the log band saw is stored for a certain period of time before commissioning, the following must be observed:

- Do not store the machine in direct sunlight or extreme temperatures. Conditions such as rain, snow, or cold can damage electrical and hydraulic components.
- Regularly lubricate unpainted parts of the machine with anti-rust grease.

4 Machine description

4.1 Controls

Illustrations in this manual are for general understanding and may differ from the actual design.

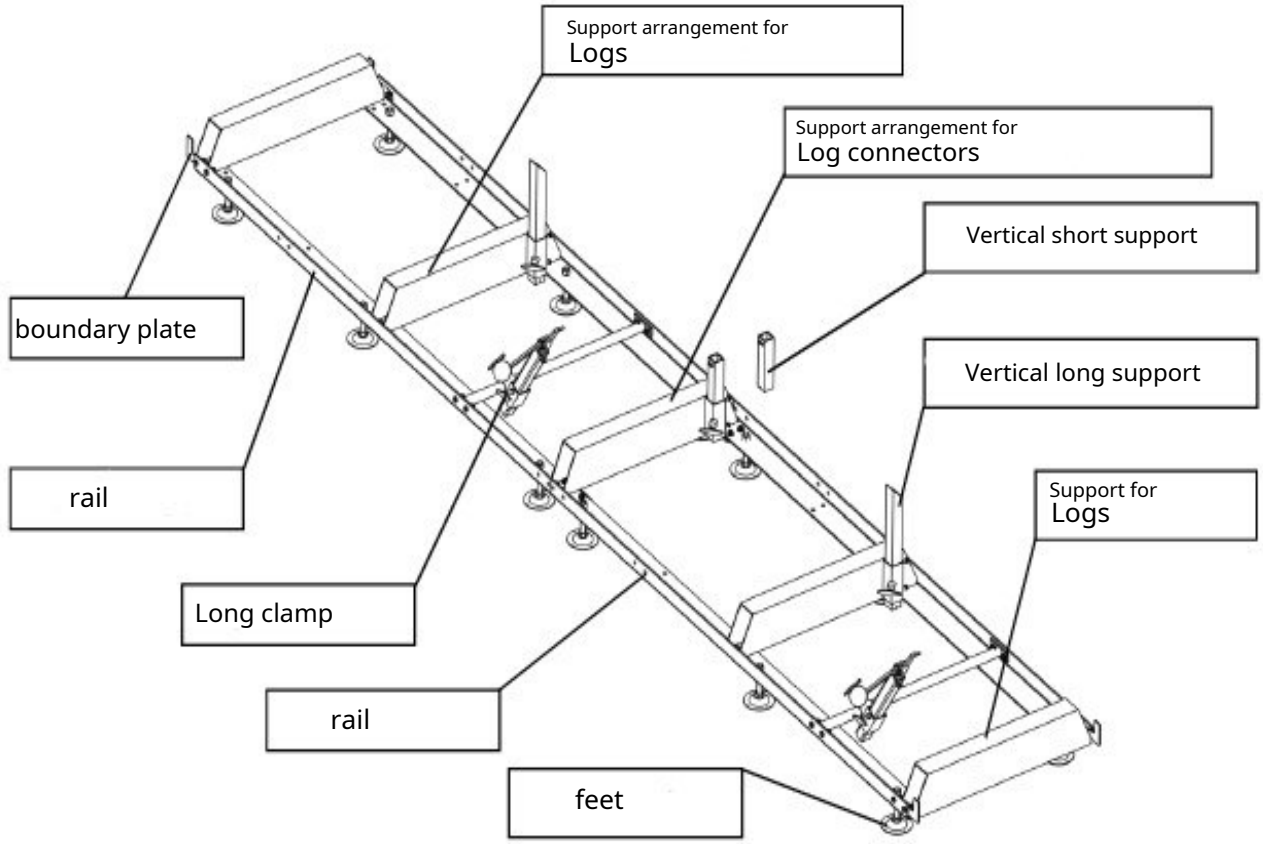


Fig.4-1: Machine description

4.2 Accessories

Designation	Article number
Bed extension 1.5 m for HBBS 400	5671400
Bed extension 2.0 m for HBBS 660	5671660
Bed extension 2.0 m for HBBS 810	5671810
WH 1 turning hook for HBBS 400/660/810	5671000
Loading ramp for HBBS 400/660/810	5671005
Cable winch for HBBS 660/810	5671010

5 Commissioning

5.1 Requirements for the installation site

In order to achieve good functionality and a long service life of the log band saw, the installation location should meet the following criteria.

- The installation surface must be level, solid and vibration-free.
- The installation surface must be able to support the weight of the machine. The
- installation location or work area must be dry and well-ventilated.
- There must be sufficient space for operators, the material to be processed, and for adjustment and maintenance work.
- If necessary, protruding parts such as stops, handles, etc., must be secured by on-site measures so that people are not endangered.
- The installation location must have sufficient lighting (see Workplace Ordinance and DIN EN 12464).

5.2 Installation of rail bed

Assemble the rail system (Fig. 4-1) and loosely secure it with the included screws and nuts. It's important not to fully tighten the screws yet. This is done after the head has been mounted and slid onto the rail. The rails must be mounted on a solid, level surface, at least 10 cm above the ground. We recommend attaching the leveling feet to sleepers, which we'll discuss later in the instructions. This will allow you to easily remove sawdust from under the rails, adjust the height of the supports, and level the rails more easily.

1.Attach the leveling feet and fasteners to the rail and mount the slide tube base on the rail, repeat this 4x.

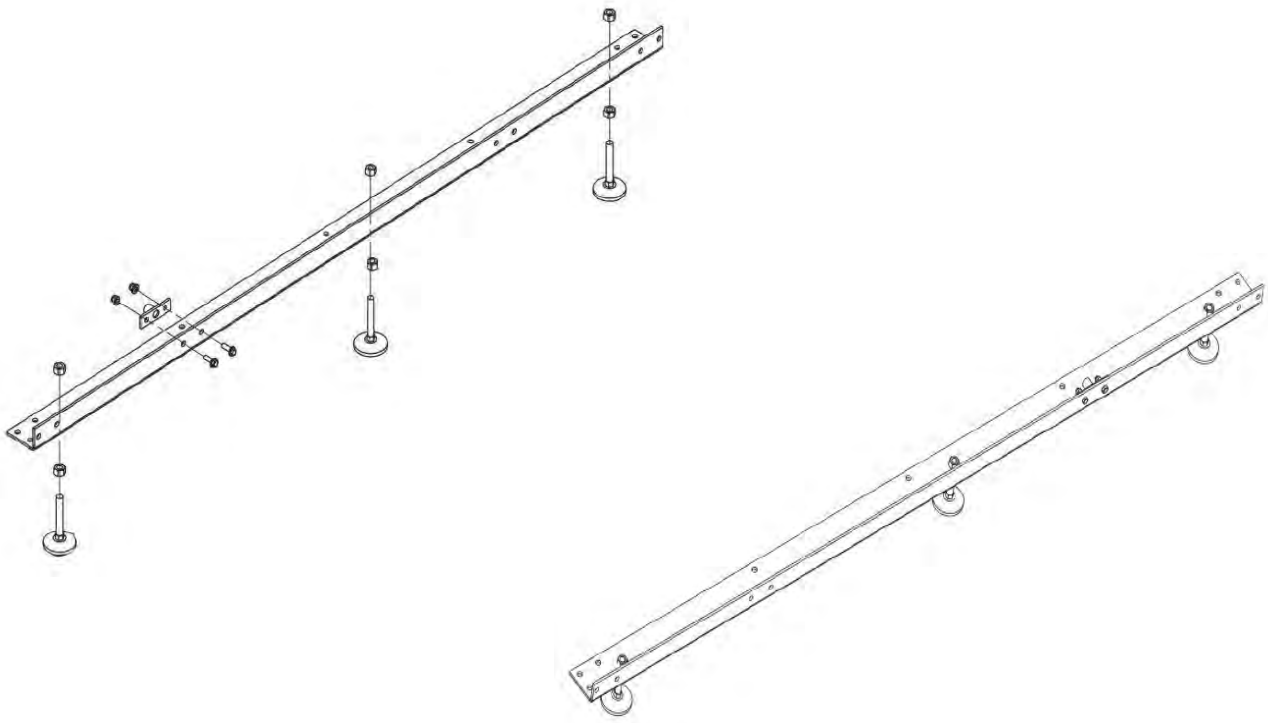


Fig.5-1: Installation of rail system

2.Attach the rail cross supports to the L-profile using the supplied bolts and nuts. The connecting plate will be used at the seam to connect the two sections together (Fig. 5-2, bottom right). Tighten the bolts only hand-tight. The bolts will be fully tightened once the head assembly can roll freely on the rails. Also, ensure the correct track width.

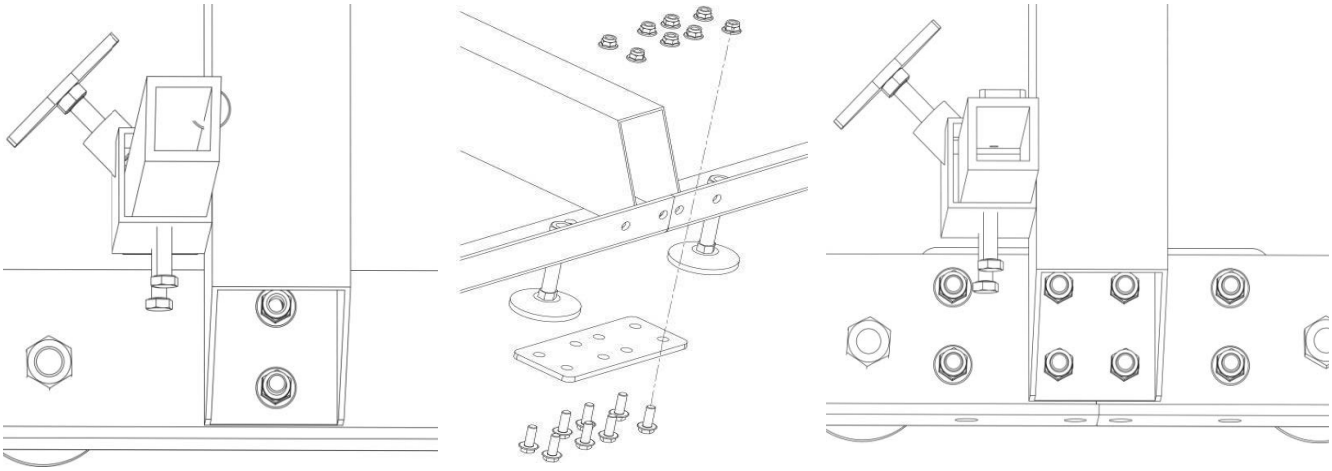


Fig.5-2: Mounting cross supports

3.Mount the carriage stops (Fig. 5-3) at the ends of the rail (4 stops in total) and tighten them.

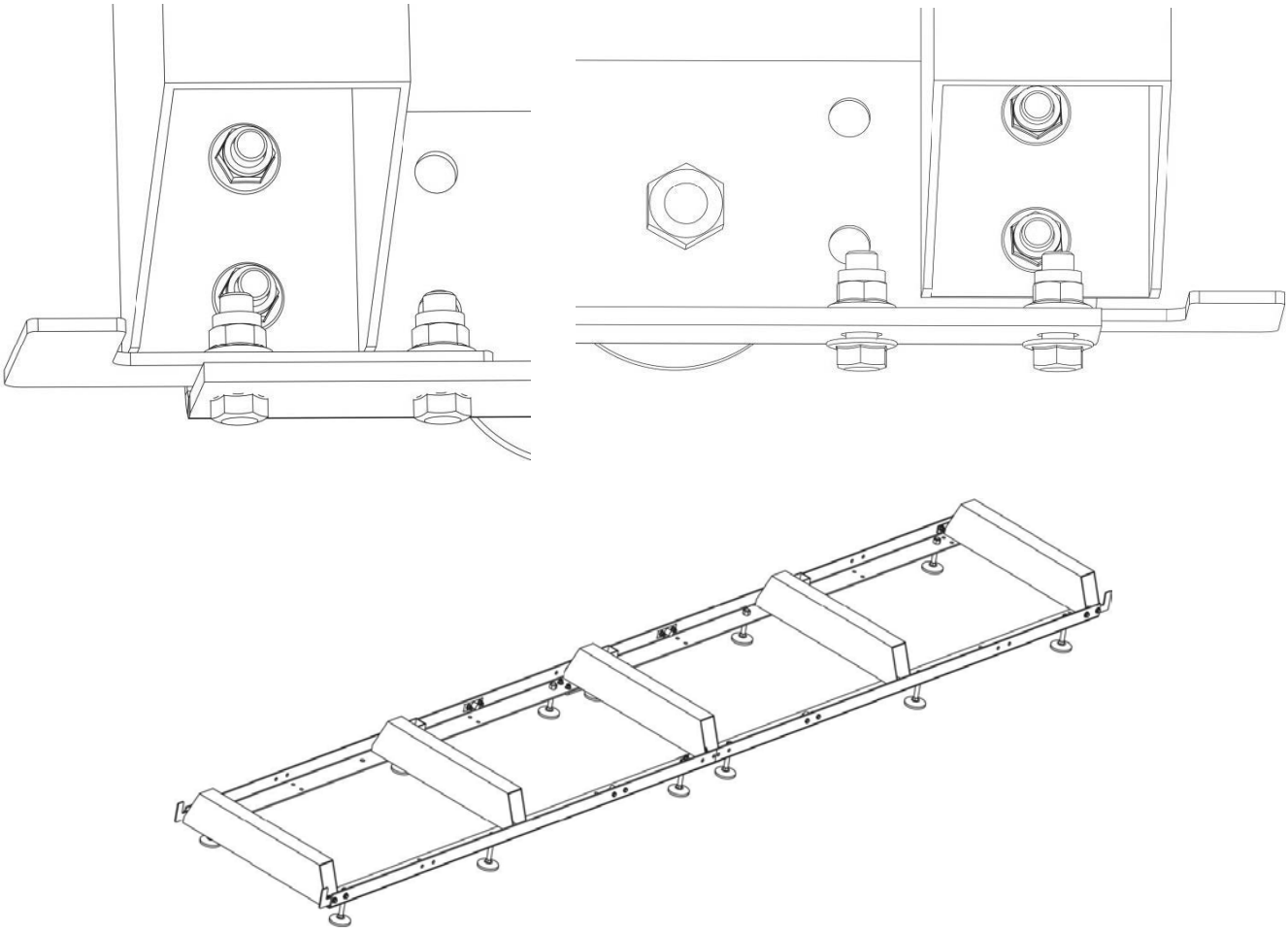


Fig.5-3: Assembly of carriage stop

4.Assemble the parts as shown below (Fig.5-4) and use suitable lubricants for the threaded handle and the T-handle.

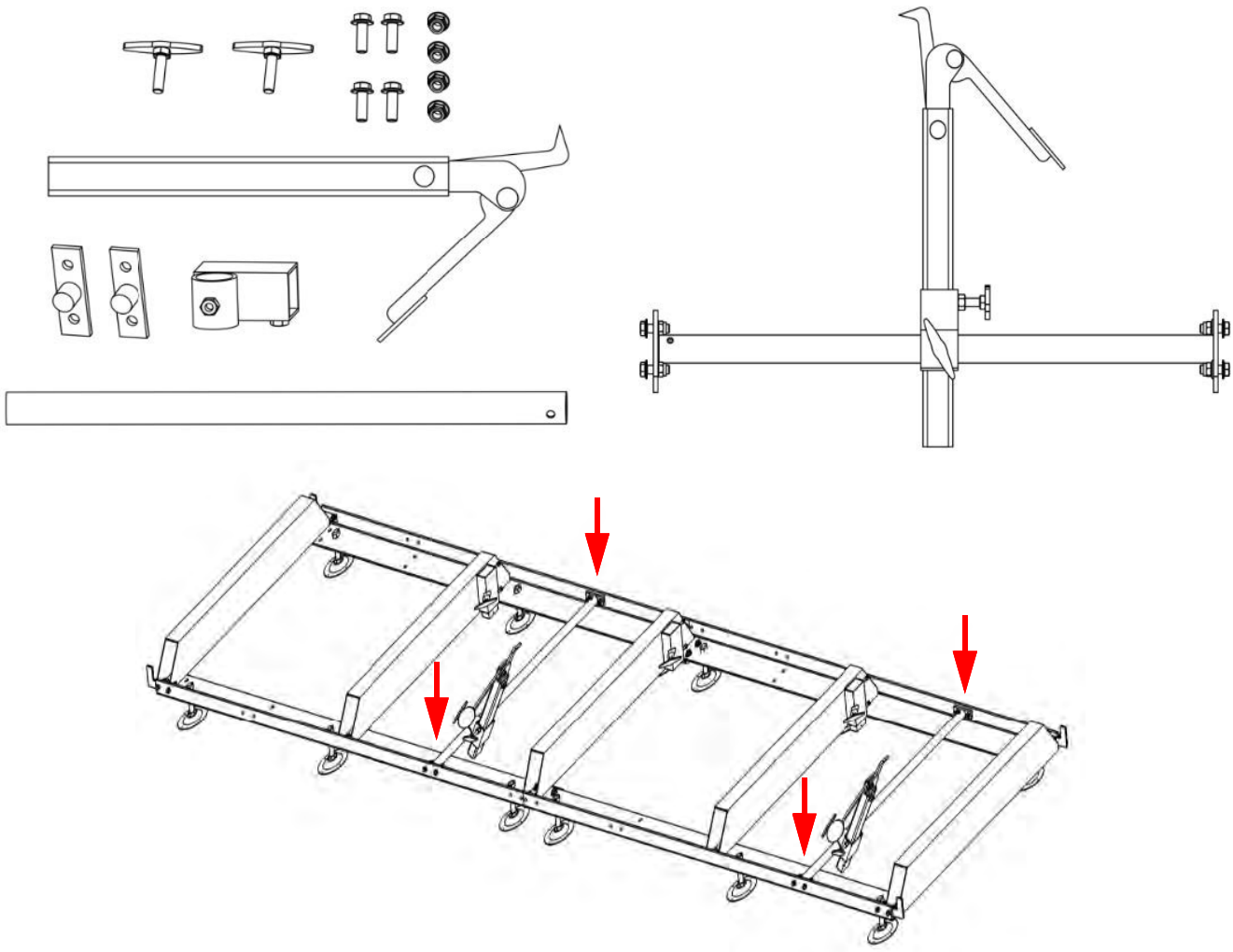


Fig.5-4: Mounting handles

Attach the assembly (Fig. 5-4) to the rail using the supplied bolts and nuts and tighten. Attach the locking device to the rail as shown above (Fig. 5-4) using the 4 supplied bolts and nuts. Note that there are various locations along the rail where this assembly can be bolted. Depending on how many rail sections are used, select a position for the log clamp that will firmly secure the log against the log supports.

5.Insert the trunk supports into the cross supports of the rail and secure them with the T-handles (Fig. 5-5)

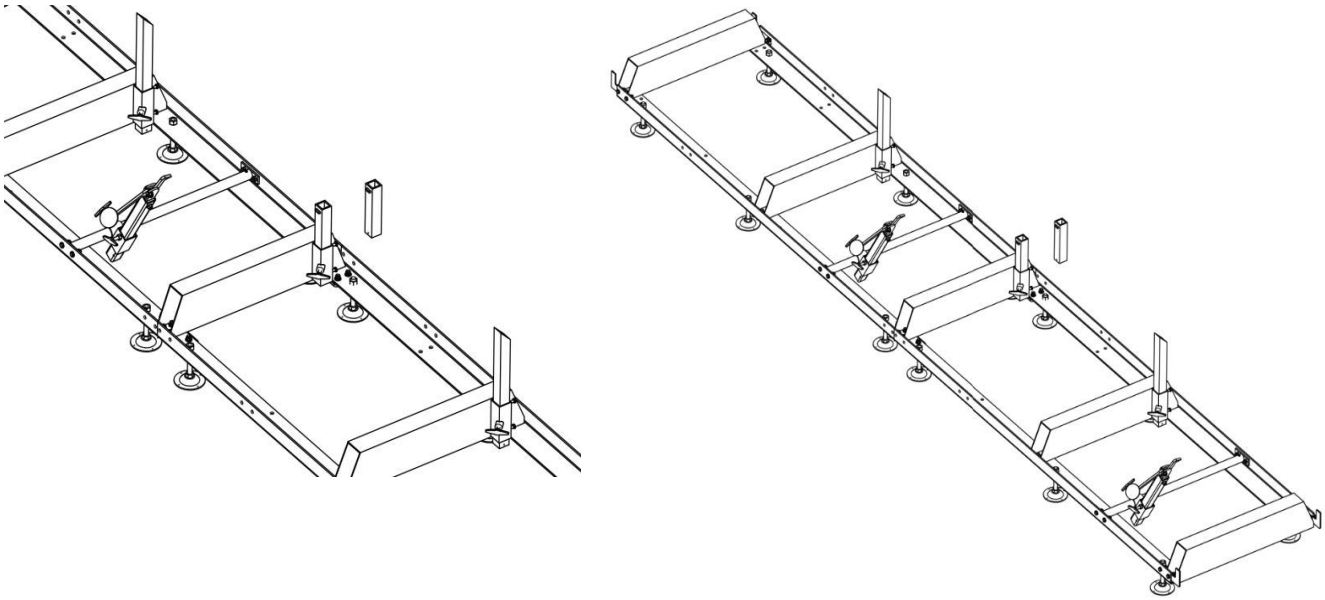


Fig.5-5: Mounting supports

The threads of the T-handles should be lubricated with a suitable lubricant. The log band saw comes with two sets of log supports—a short set and a long set. The longer set is ideal for larger logs, while the shorter set is ideal for smaller logs and squared timber.

6.Once the sawhead is level, screw the leveling feet to the sleepers (Fig. 5-6). Before screwing the sawhead to the sleepers, be sure to run a string along both sides of the sawhead to ensure the newly installed rails are straight and level.

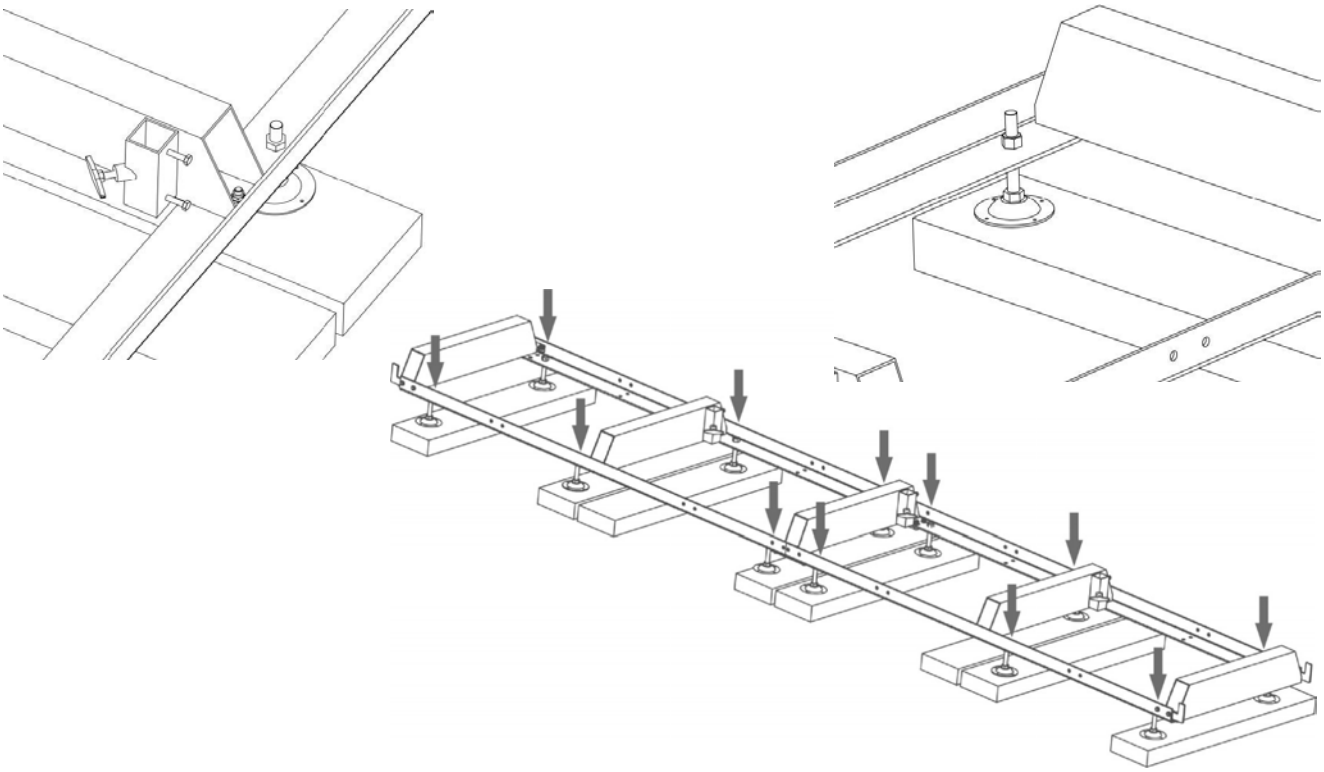


Fig.5-6: Installation of thresholds and leveling

There are a total of 154 leveling feet on the machine. The leveling feet alternate on the intermediate bunks. We recommend placing the leveling feet on the sleepers running from left to right, as shown (Fig. 5-6). Make sure the bunks are also level. To do this, use a spirit level, which you place across each bunk from left to right, and a string that you stretch along the entire length of the rails. The string should be approximately 10 mm above the bunks.

5.3 Assembly of the saw head

1.Place a shipping blanket on the shipping pallet to which the sawhead crate was strapped. The blanket will prevent the blade guards from being scratched. With at least two people or a mechanical assistance system, remove the head assembly from the sawhead crate and place it face down on the blanket.

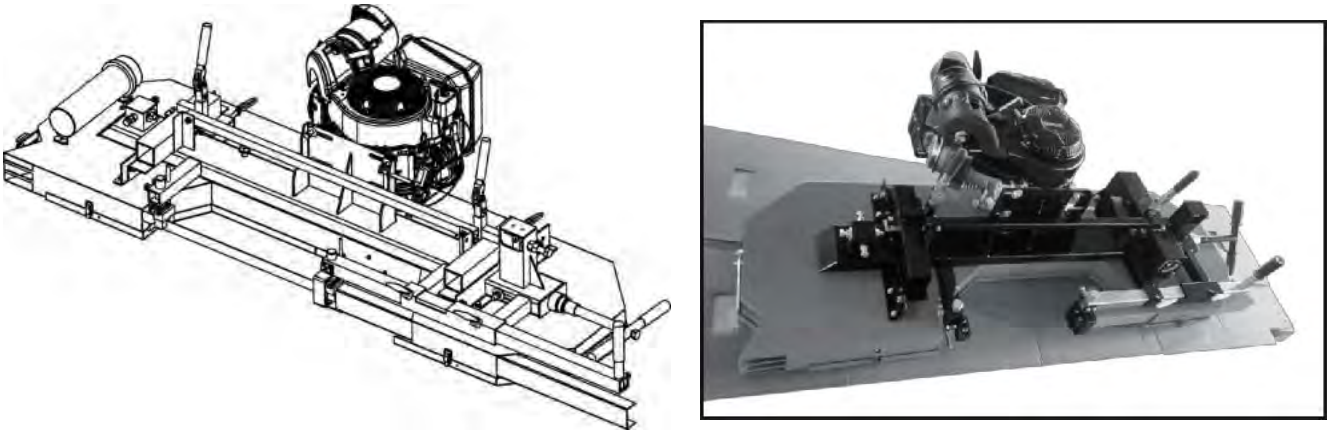


Fig.5-7: Unpacking the saw head

2.Place the following carriage components in place.

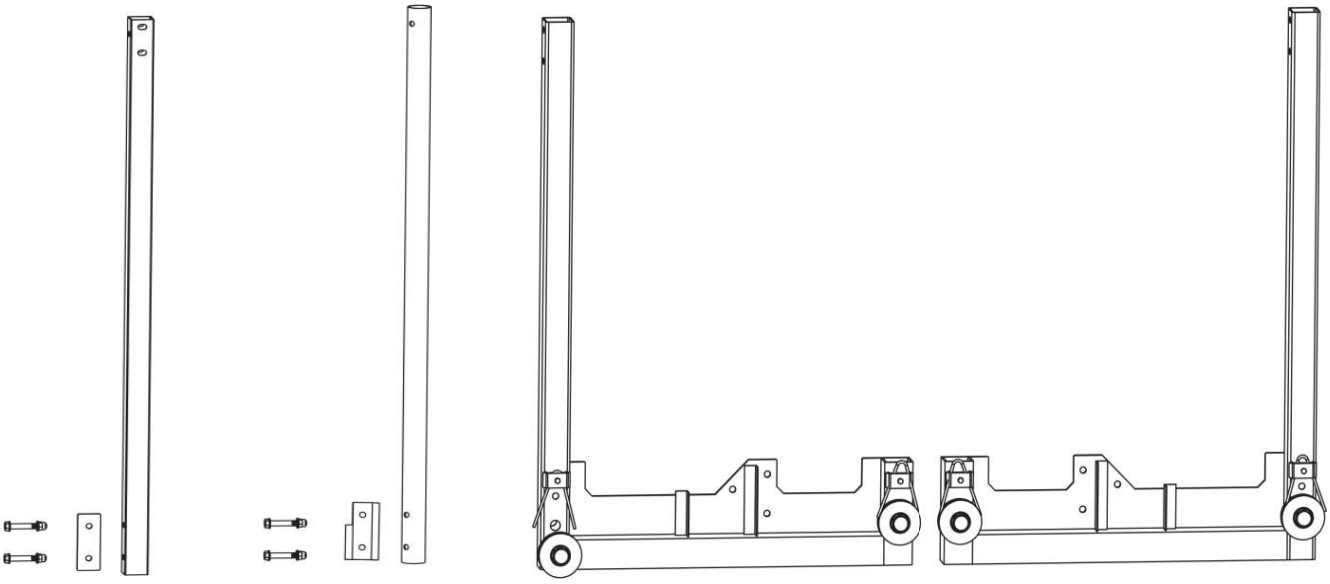


Fig.5-8: Assembly of slide components

3.Then insert the vertical posts into the corresponding positions of the head assembly.

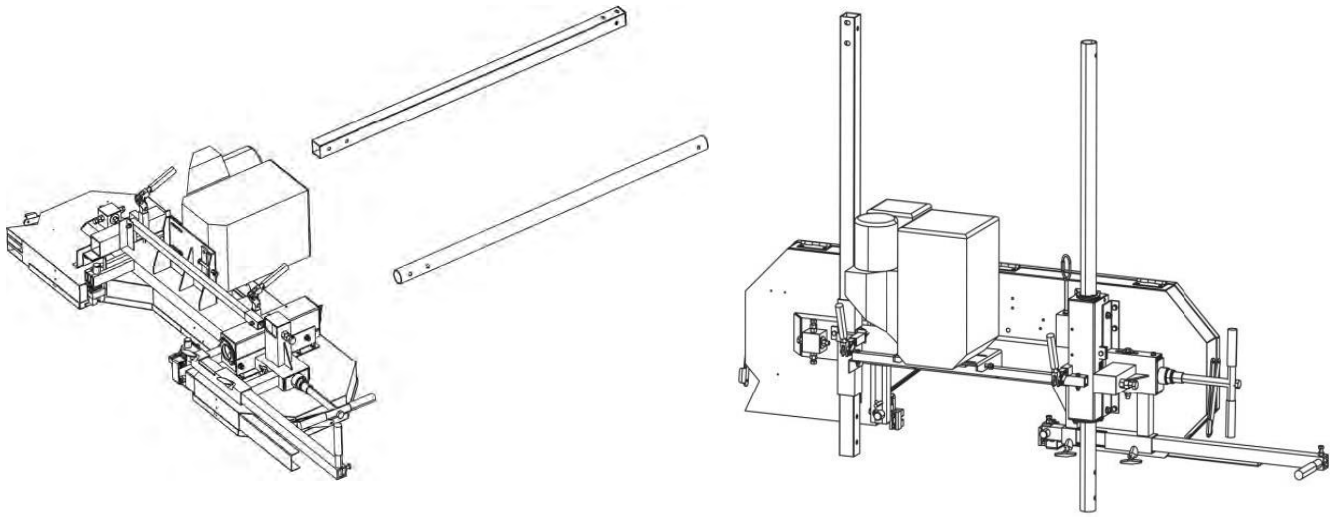


Fig.5-9: Mounting posts

4.Mount the round vertical post (Fig. 5-9, shown right) to the wheel assembly using the two screws and backplate. Repeat the same step for the square vertical column (Fig. 5-9, shown left).

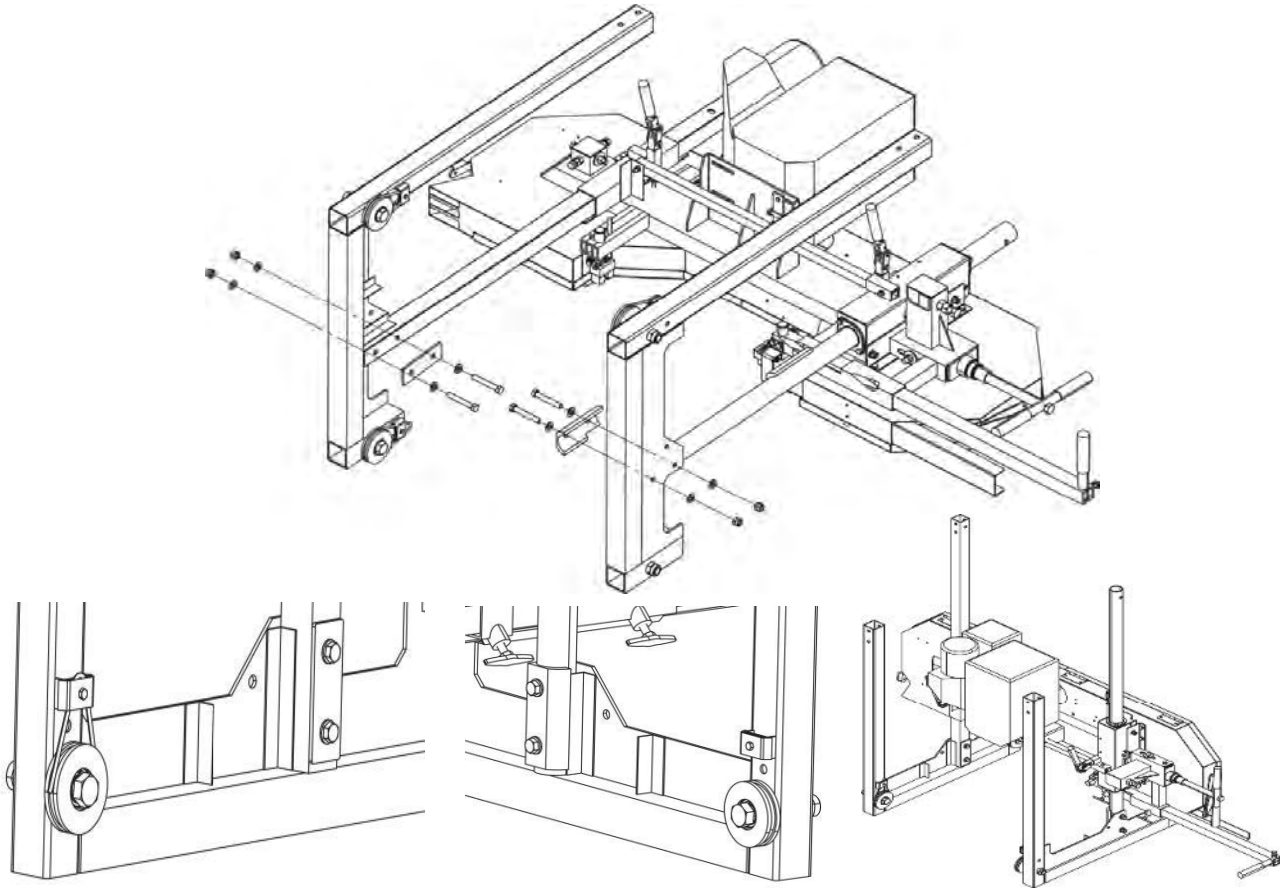


Fig.5-10: Mounting posts

5.Lock the cam handles on both the round and square posts to prevent the head from moving as it is erected in the next steps. Ensure that the clamps on the round and square vertical posts engage securely when operating the cam handles.

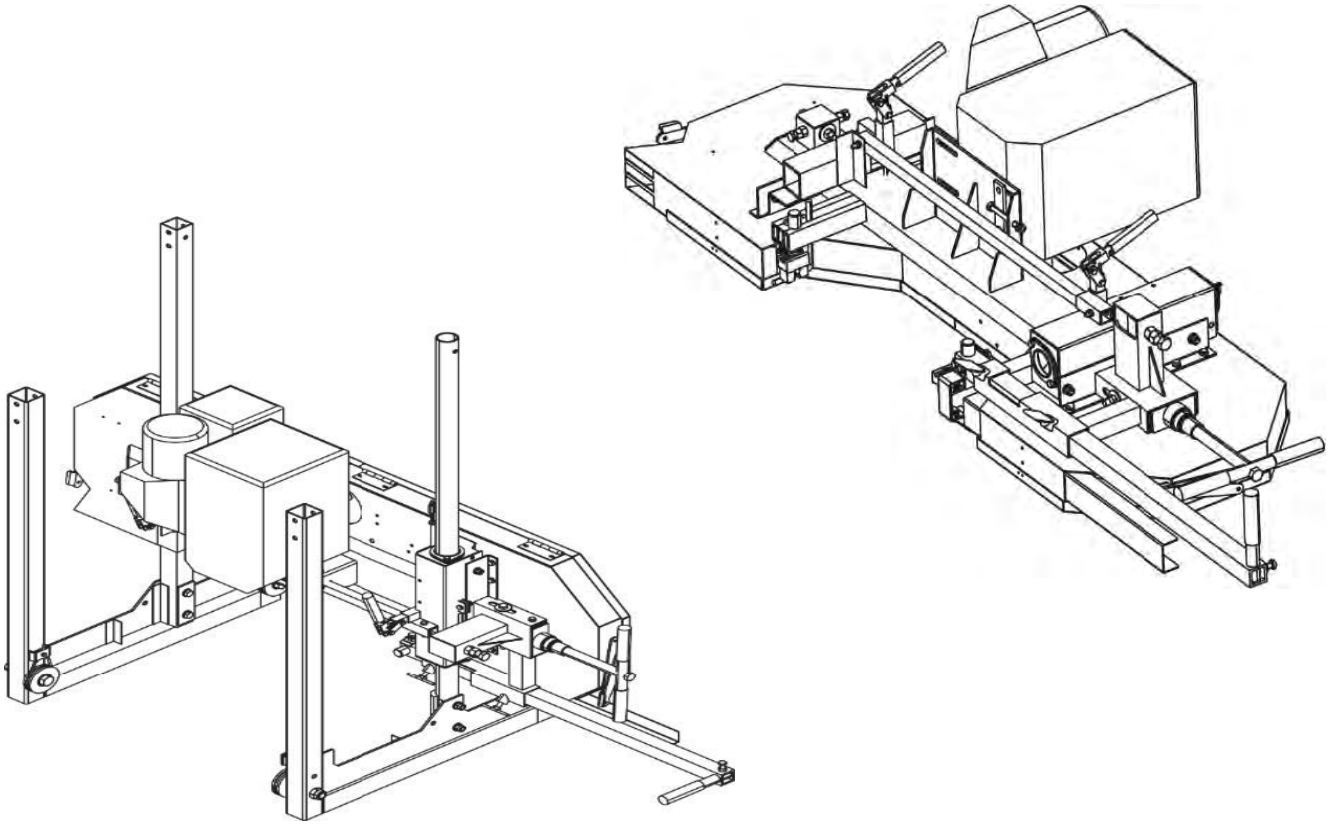


Fig.5-11: Snap into place

6.With one person at each post, place the sawhead on its wheels (Fig. 5-12). At least two people are required to place the sawhead on the rail system, ensuring the carriage wheel grooves align with the "L" rails. The square vertical post should be on the same side as the log supports.

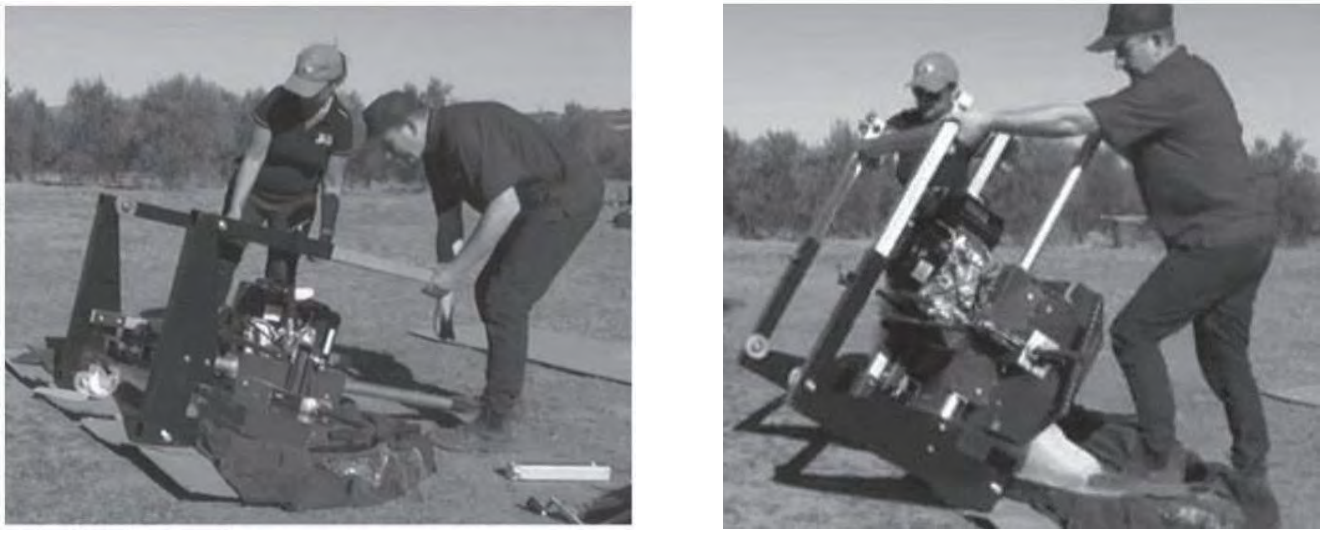


Fig.5-12: Setting up

7.Slide the cross member into the round tube post (Fig. 5-13). Screw the upper end of the square tube post and the cross member together.

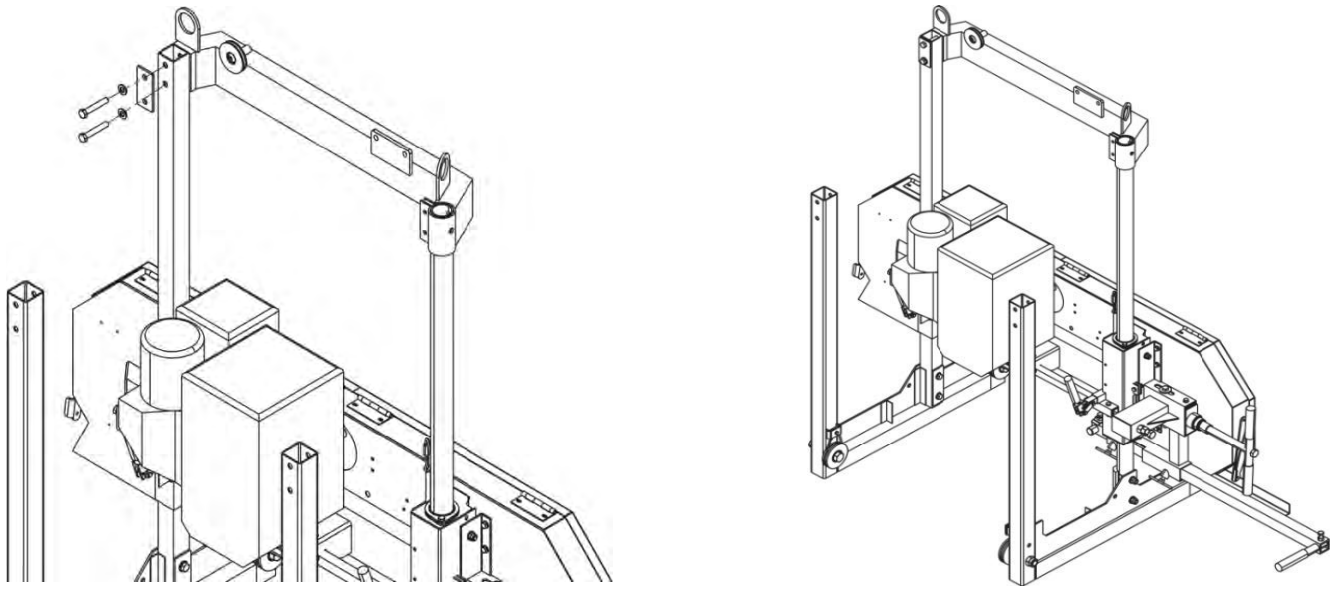


Fig.5-13: Screwing cross beam to post

8.Attach the upper welding bracket (Fig. 5-14), align the holes of the posts with the corresponding black holes of the upper cross brace, and tighten the screw with a wrench.

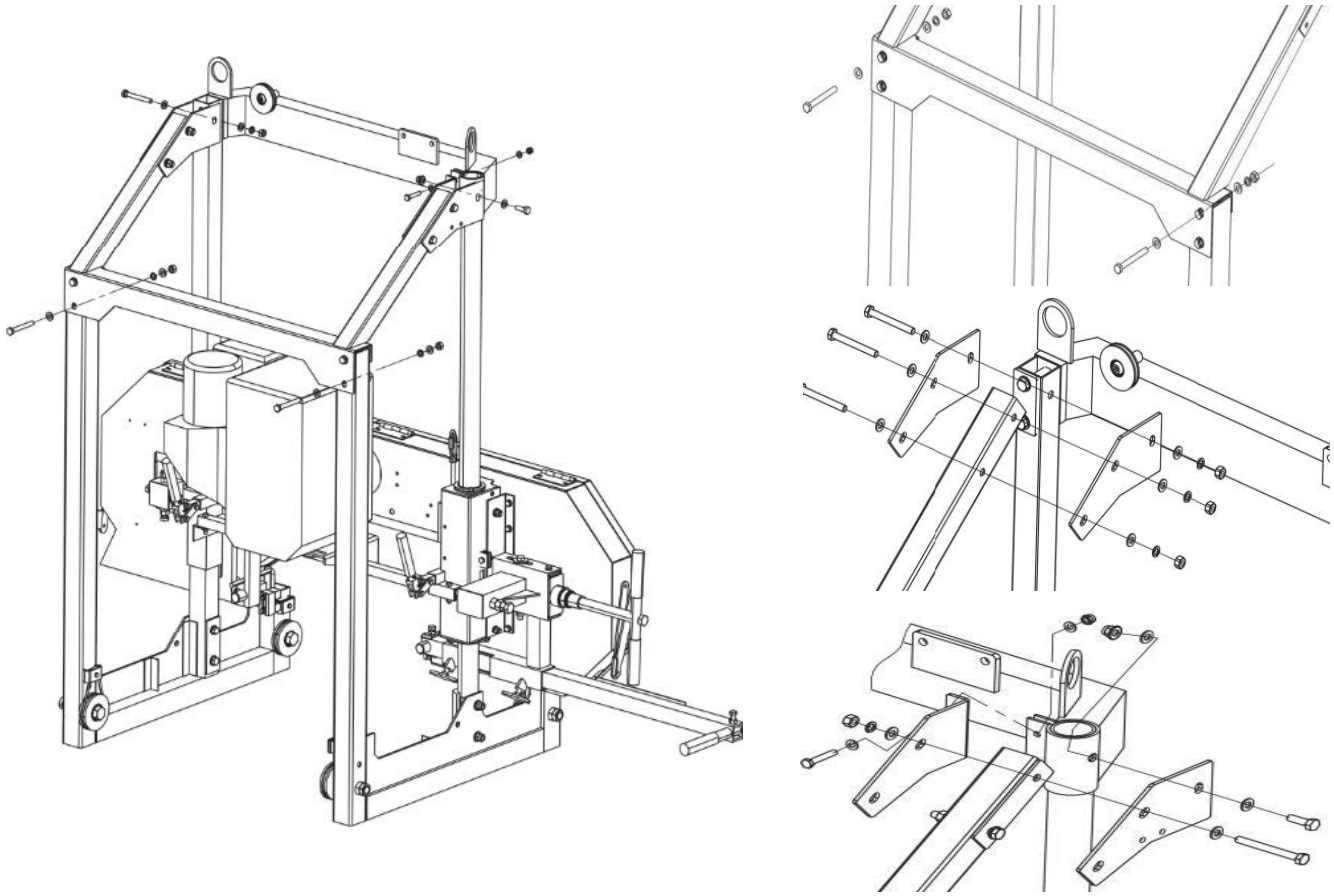


Fig.5-14: Welding bracket

9.Mount the lifting system and water tank to the support (Fig. 5-15). Use a wrench to hold the nut and tighten the bolt, then place the water tank into the bracket.

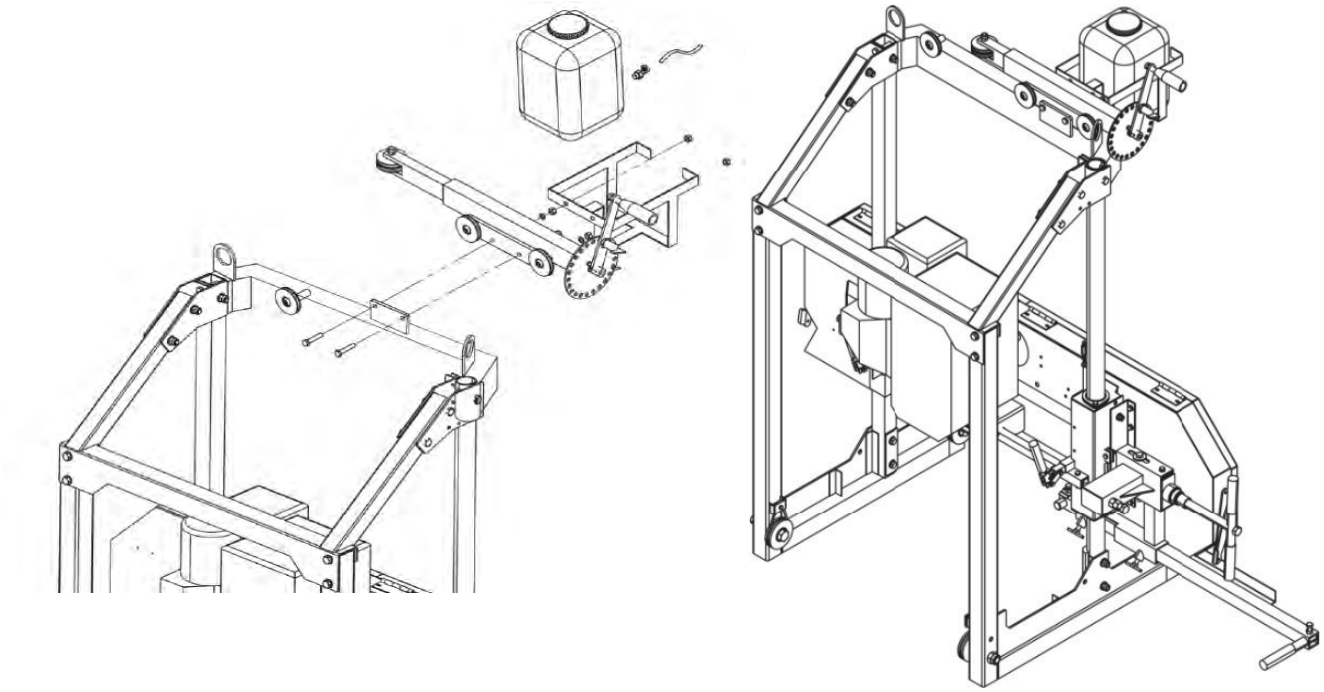


Fig.5-15: Lifting system and water tank

10. Insert the measuring scale, ruler, and height indicator into the assembly. (Fig. 5-16)

10.1. Install the ruler (Fig. 5-17), hold the nut with a wrench and tighten the screw.

10.2. Mount the square indicator rod to the sawmill using the two screws and tighten it. Slide the scale indicator over the square rod and tighten it.

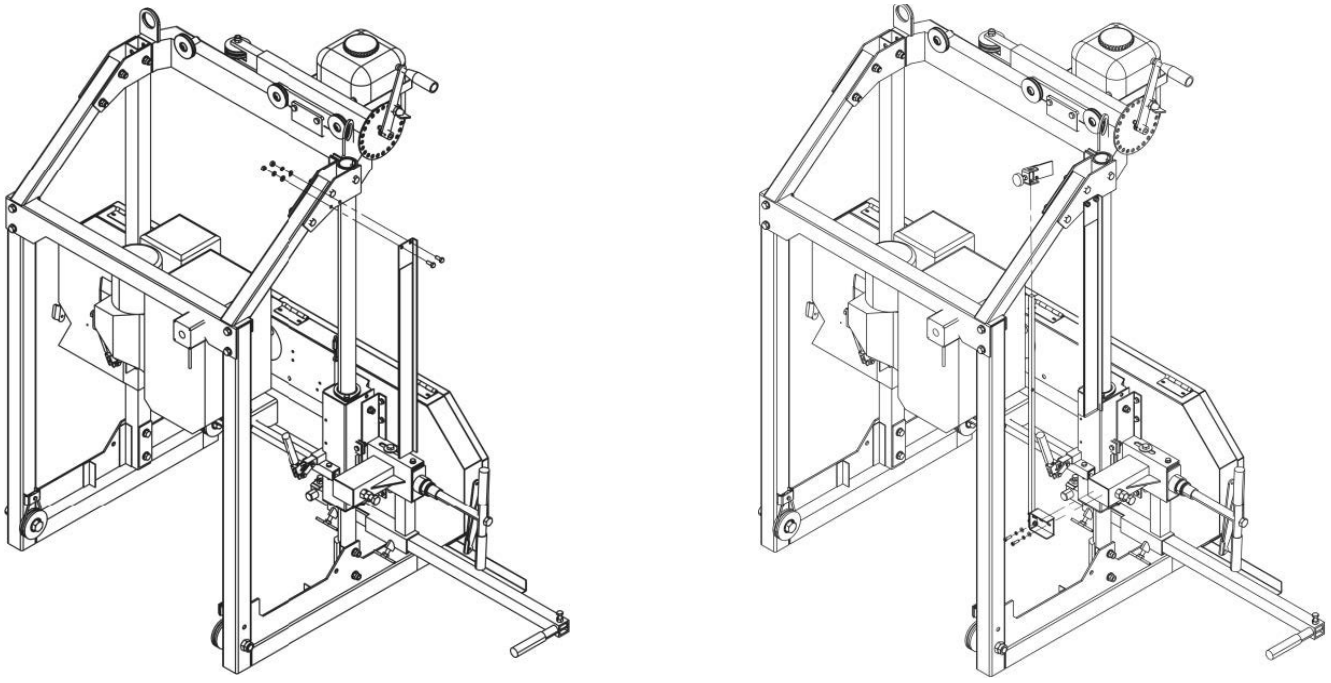


Fig.5-16: Altitude display

A notice:

It is important that the nuts are tightened alternately (first top, then bottom) to ensure that the black round clamp presses evenly on the two flanges that meet at the outer edge.

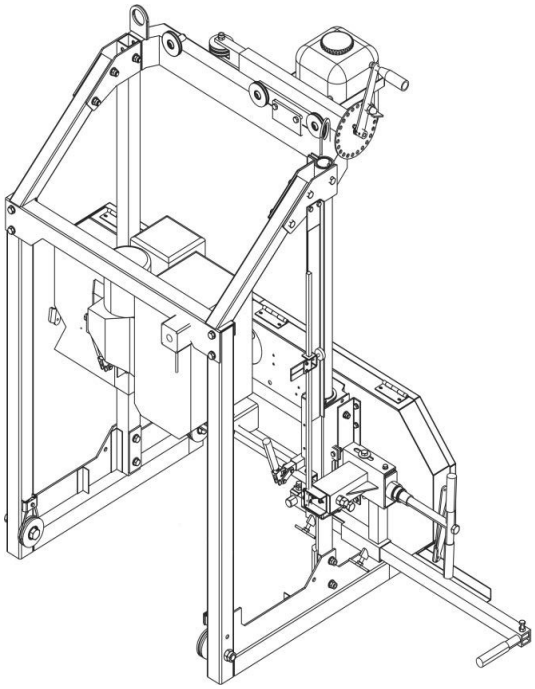
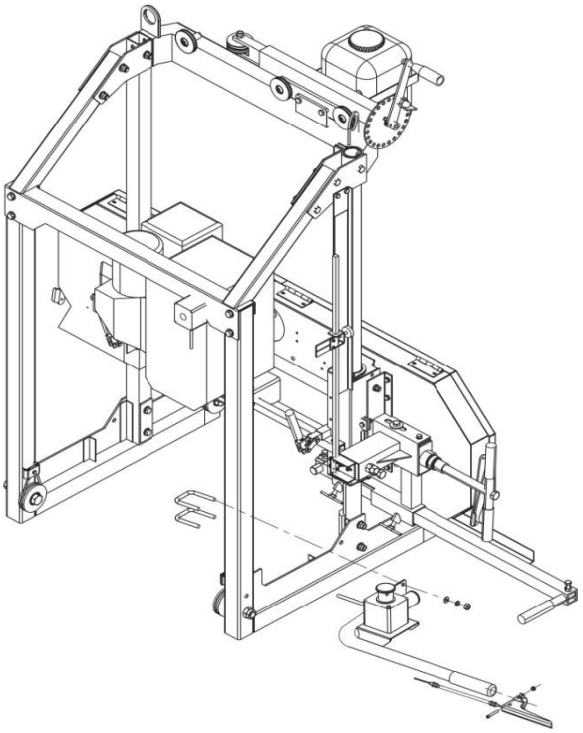


Fig.5-17: Ruler

11. Mount the throttle lever and emergency stop switch to the round rod (Fig. 5-18). While the throttle lever is in the idle/fully open position, tighten the screw to secure it. This will completely release the cable tension.



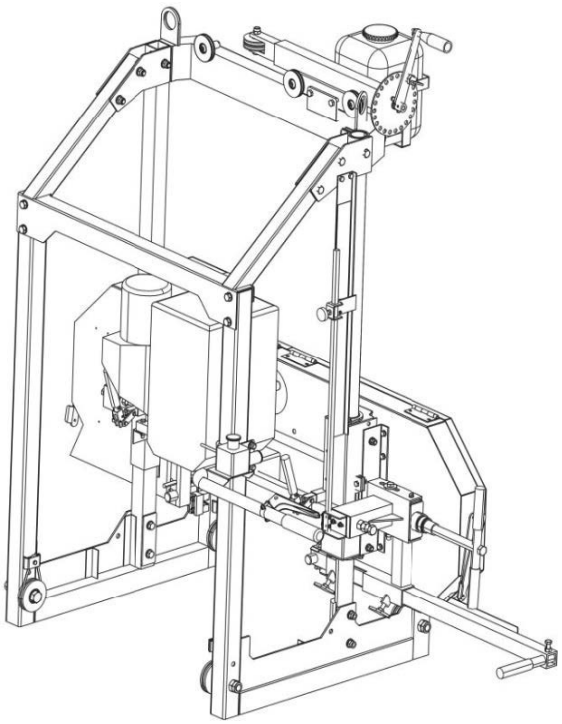


Fig.5-18: Emergency stop and throttle lever

A notice:

The idle screw (Fig. 5-19) must be fully unscrewed. Otherwise, the engine will not run at full speed, resulting in a poor cut.

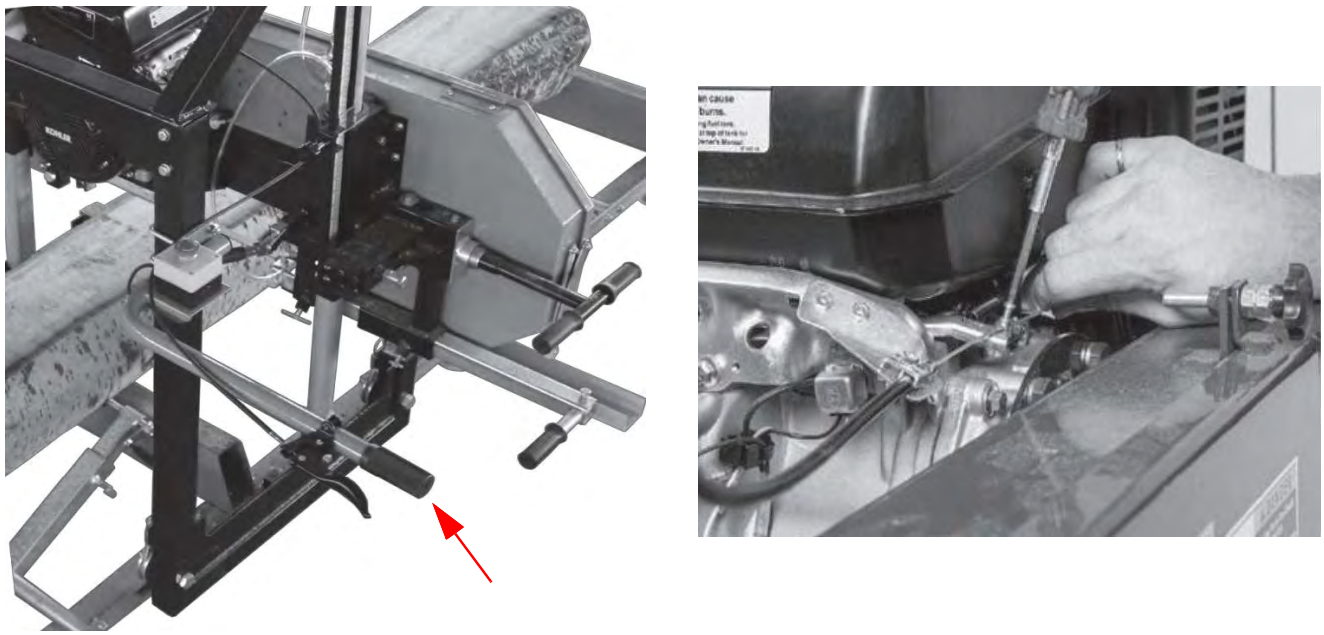


Fig.5-19: Idle screw

12. Route the cables on both sides as shown in Figure 5-20.

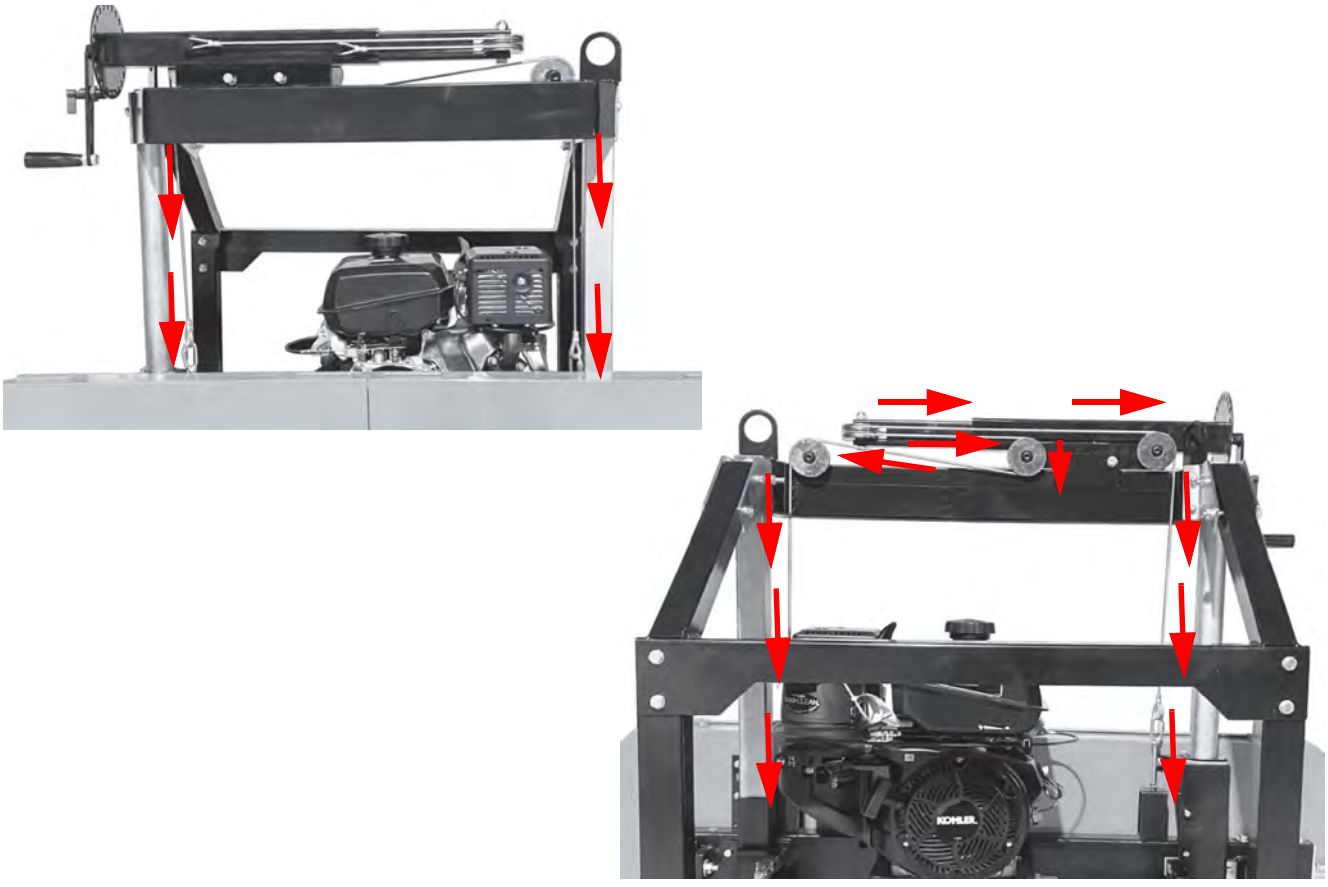


Fig.5-20: Cable laying

13. Thread the lubricant reservoir line through the hole in the bracket on the saw head and secure the copper end with a socket. Do not overtighten or crimp the copper end. The transparent water pipe connects the water tank to the copper fitting.

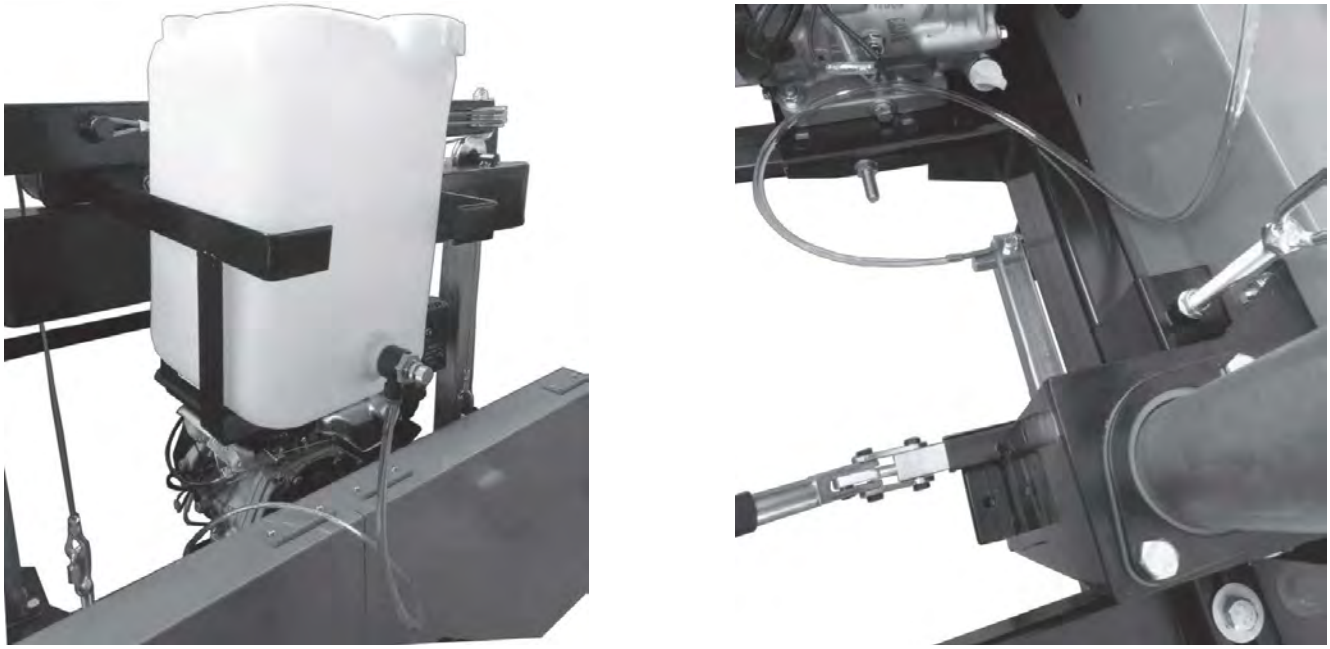


Fig.5-21: Lubricant tank/water tank

A notice:

It is recommended to add some dishwashing liquid to the container to improve the lubricating effect.

14. Before use, apply grease to the threads of the blade tensioning T-handle and to the flat of the washer against which it rests (Fig. 5-22). Proper blade tension is achieved when the blade does not flex more than 1/8" - 1/4" total up/down.

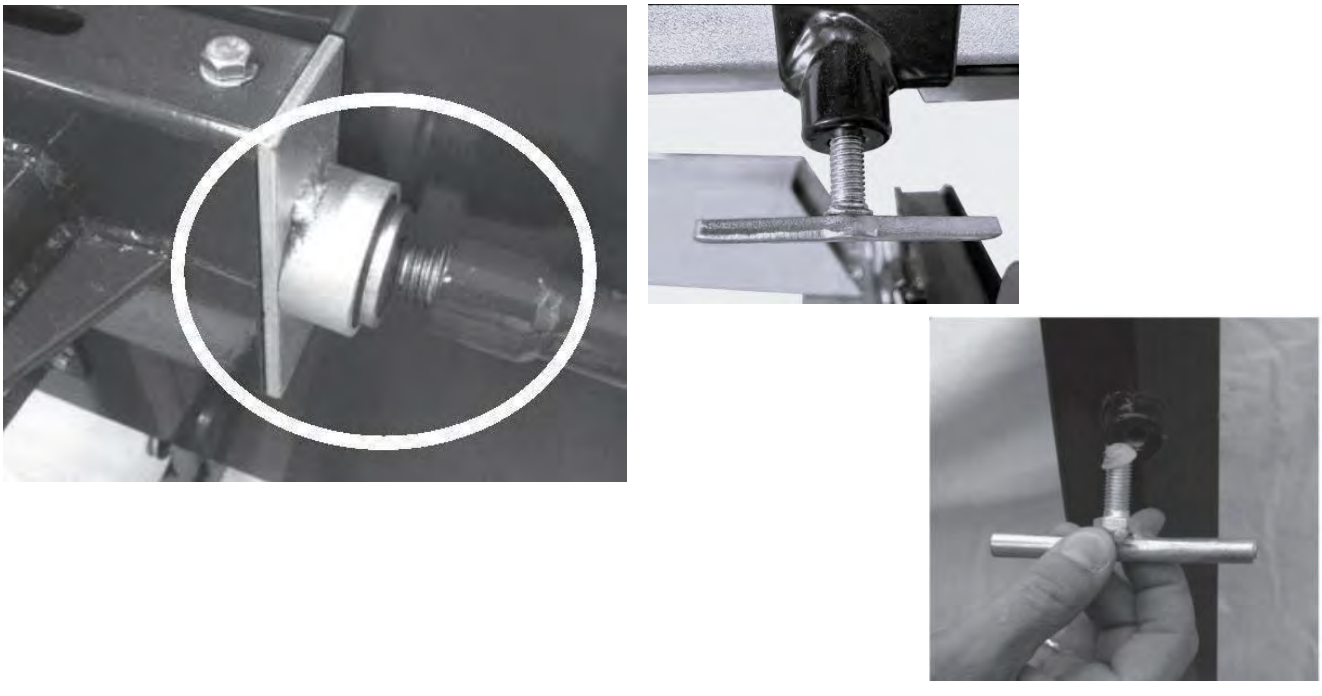


Fig.5-22: Lubricating grease

A notice:

It's very important to relieve tension on the saw blade by turning the "T" handle counterclockwise when the sawmill is not in use. Failure to do so will result in flat spots on the rubber belts. These flat spots will cause the sawmill to vibrate excessively the next time it's used.

Lubricate all "T" handles on the saw head with grease.

15. Slide the saw head up and down the rail system to ensure the rail width allows free movement of the saw head (Fig. 5-23). If it binds, the "L" rails must be moved further or closer together to achieve a uniform width across the entire rail system. Once the desired width is achieved, all nuts and bolts on the rail bed can be tightened.

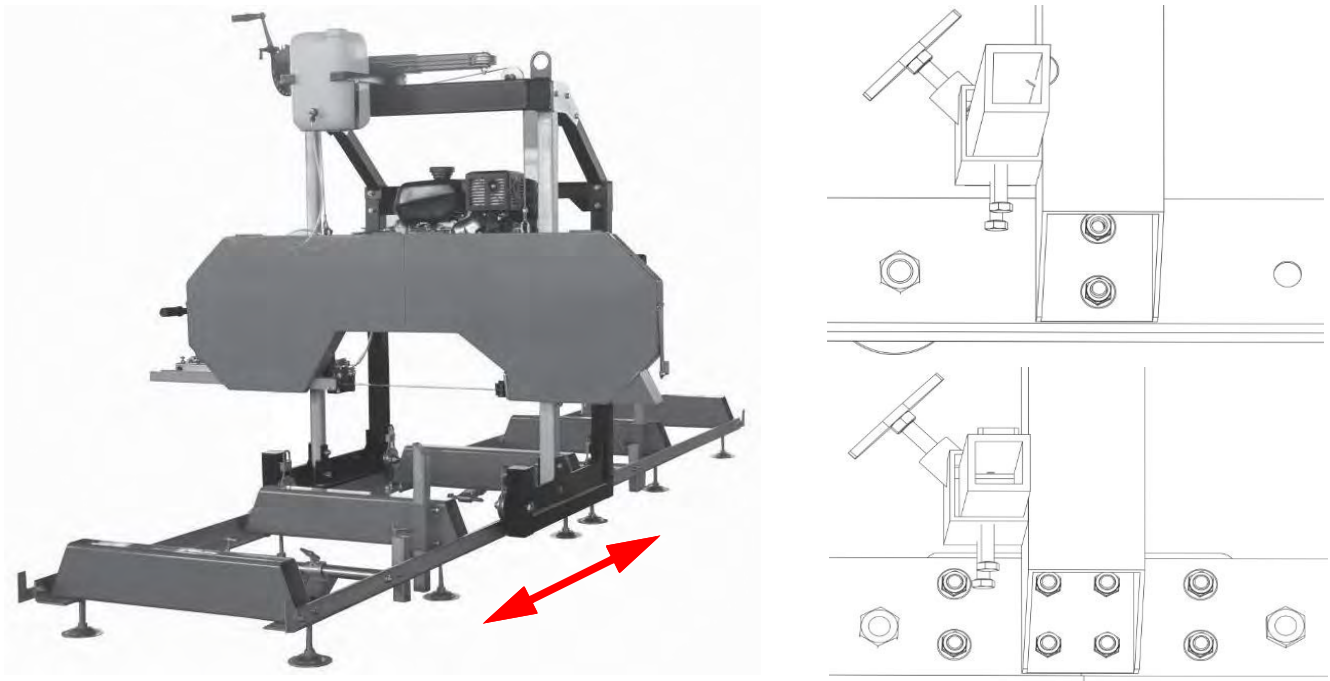


Fig.5-23: Width of the rails

16. Use a tape measure to measure the distance from the saw blade to the top of the wood support on the left and right sides. The distance should be the same on both sides (Fig. 5-24). If this is not the case, you will need to adjust the cable ends on the rear handle to raise or lower one side.

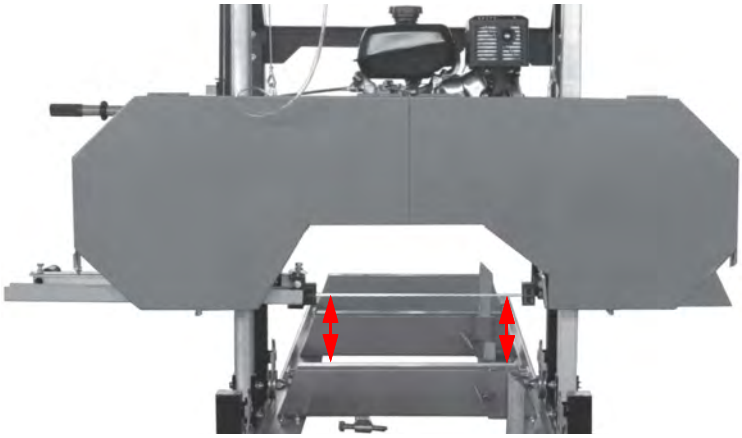
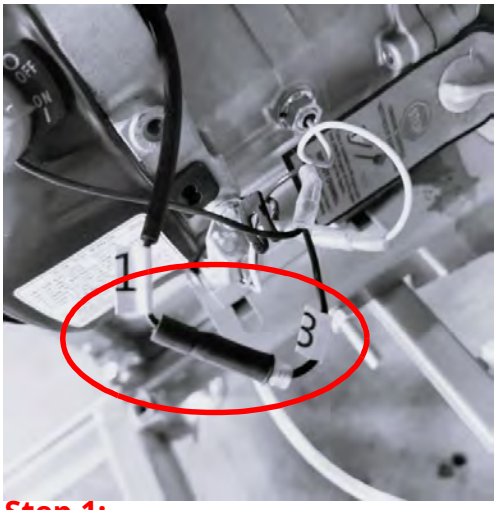


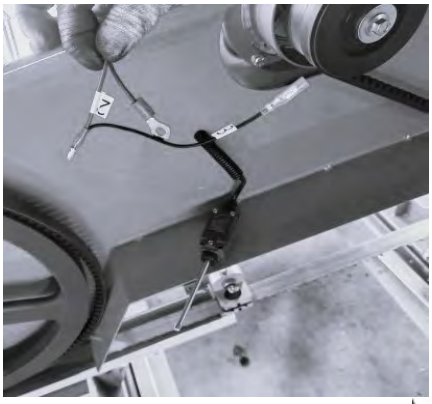
Fig.5-24: Even spacing

5.4 Electrical connections and cable connections



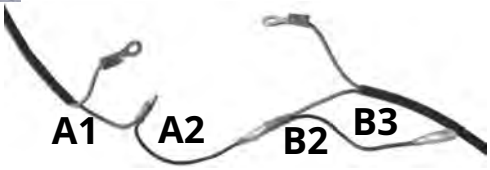
Step 1:
Find the black connection.

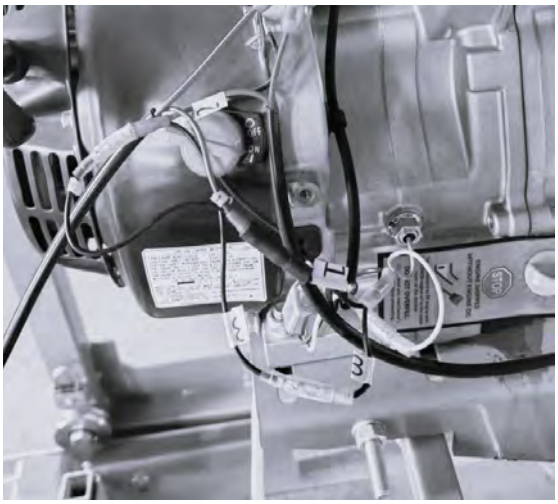
Step 2:
Disconnect the black connection.



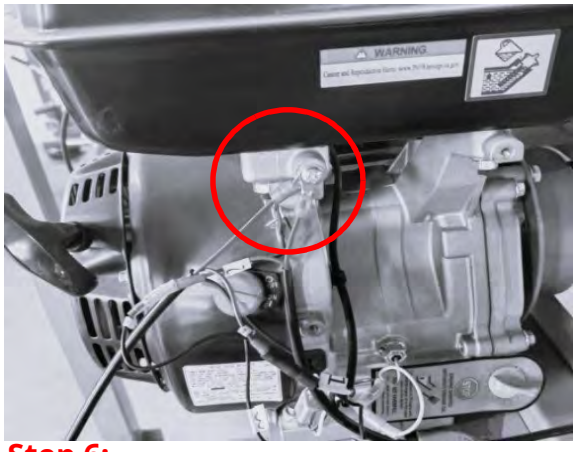
Step 3:
Locate the emergency stop switch and the micro switch.

Step 4:
Connection





Step 5:
Connect A1 and 1;
Connect B3 and 3



Step 6:
Connect chassis.

5.5 Engine

Please note that the engine is delivered without gasoline or engine oil. The engine is also equipped with an oil warning system, meaning that if the oil level is low or empty, the power supply to the engine will be cut off and the engine will not start.

Fig.5-25: Oil warning sign on the engine

Always cut in the direction shown (Fig. 5-26). The log clamp should always be on the right side of the log, and the log supports should always be on the left side. Failure to cut in this direction could cause the log to come loose, possibly causing damage or injury.

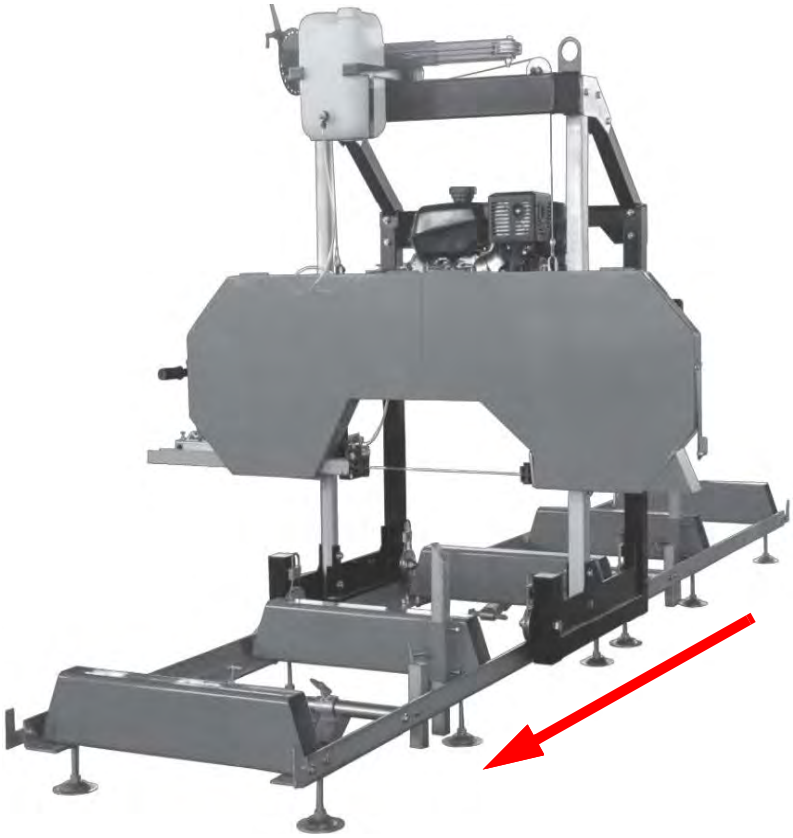


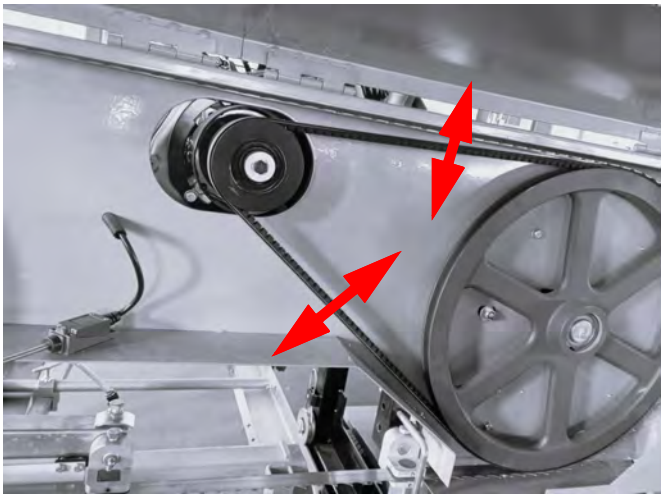
Fig.5-26: Cutting direction

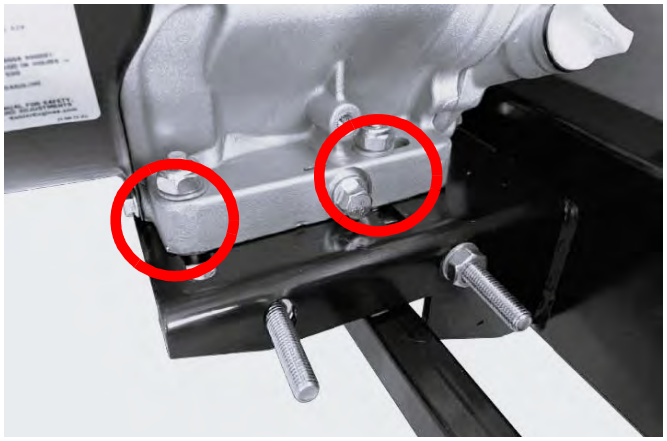
6 Settings

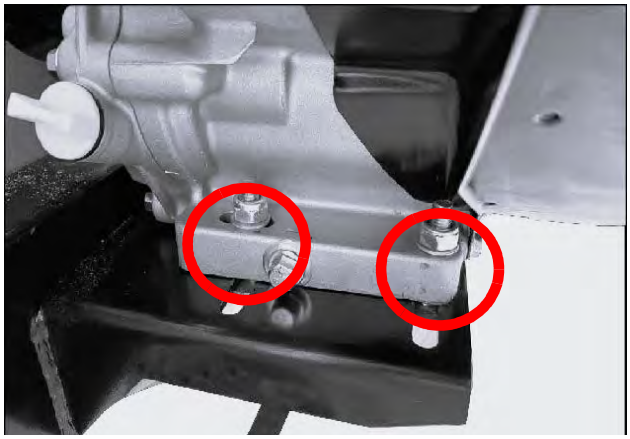
6.1 Belt tension

To check the belt tension, try pushing the belt firmly up and down with your hand (Fig. 6-1). There should be no more than 1/4" (6-7 mm) of deflection in either direction (1/2", 12-13 mm total). If the belt deflects more than that, it will need to be retensioned as described below.

To tighten the drive belt, first loosen the four screws (Fig. 6-1) that secure the motor to the motor mount using a 16mm wrench.

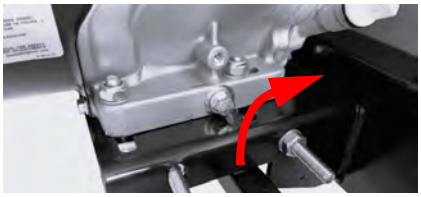






A

Since the motor can slide freely on the motor mounting plate, turn the 16mm nut on the horizontal bolt clockwise. This will pull the motor towards the bolt and tighten the belt. Perform this step gradually, checking for correct belt tension. It is important that the motor remains perpendicular to the drive belt. Over-tensioning can cause the motor to twist on the mounting plate, leading to belt alignment problems and premature wear. Once the desired belt tension is set, tighten the four motor bolts. If the drive belt is too tight, the 16mm nut on the horizontal bolt can be turned counterclockwise.



6.2 Saw band guide; band wheel and band wheel shaft

WARNING!

Never carry out the following work while the engine is running!

For safety reasons, completely disconnect the machine from the power supply or the spark plug cap.

It is recommended to wear gloves and safety goggles when working with the band saw as the cutting edges are extremely sharp.

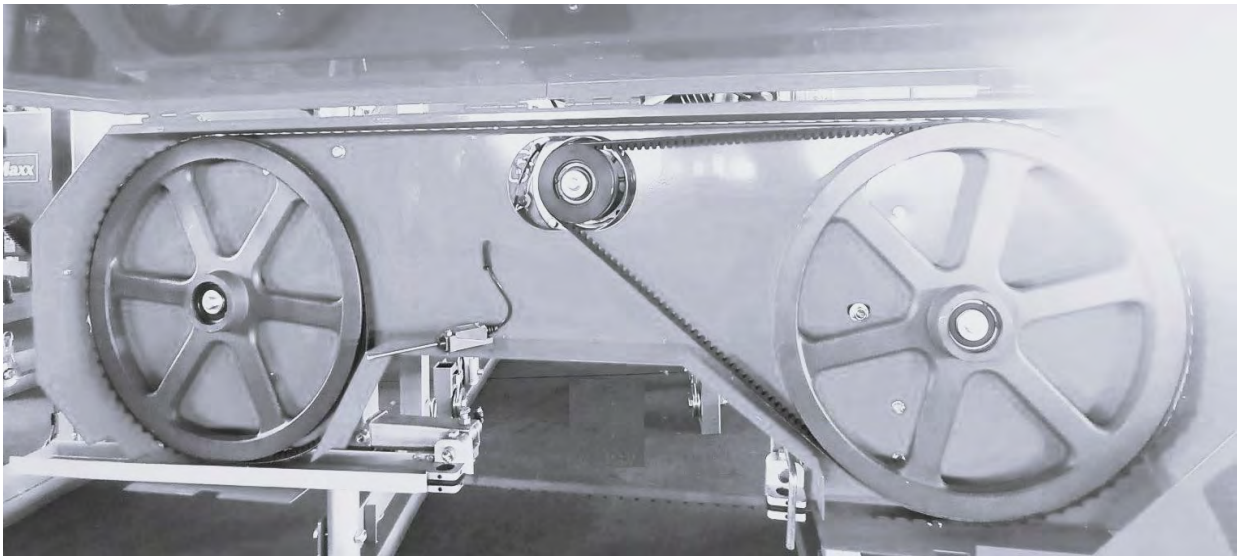


Fig.6-2: saw band

The saw blade should be adjusted to the same size on both sides (Fig. 6-3). 3/8" (9-10 mm) is ideal. Measure the distance between the blade wheel and both sides. If adjustment is necessary, follow the procedure described in the following steps.

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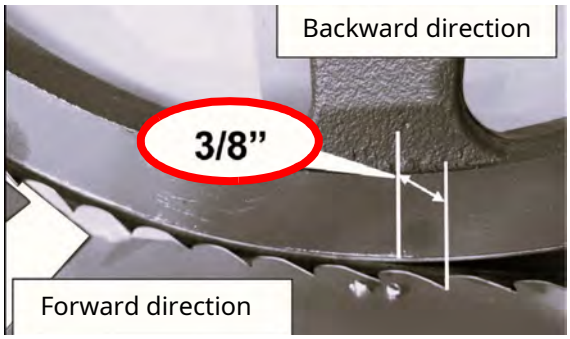


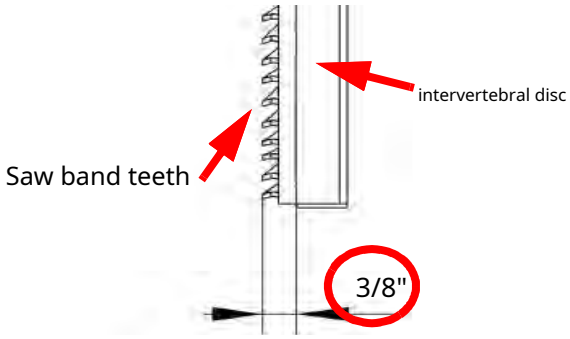


Fig.6-3: Saw band - disc distance

Loosen the blade guide unit screw with an open-end wrench. The round shaft should now slide freely (Fig. 6-4). Perform this step on both guide units. This ensures that the guide bearings do not interfere with the blade guide during adjustment.

Remove some tension from the band by turning the "T" handle one full turn counterclockwise.

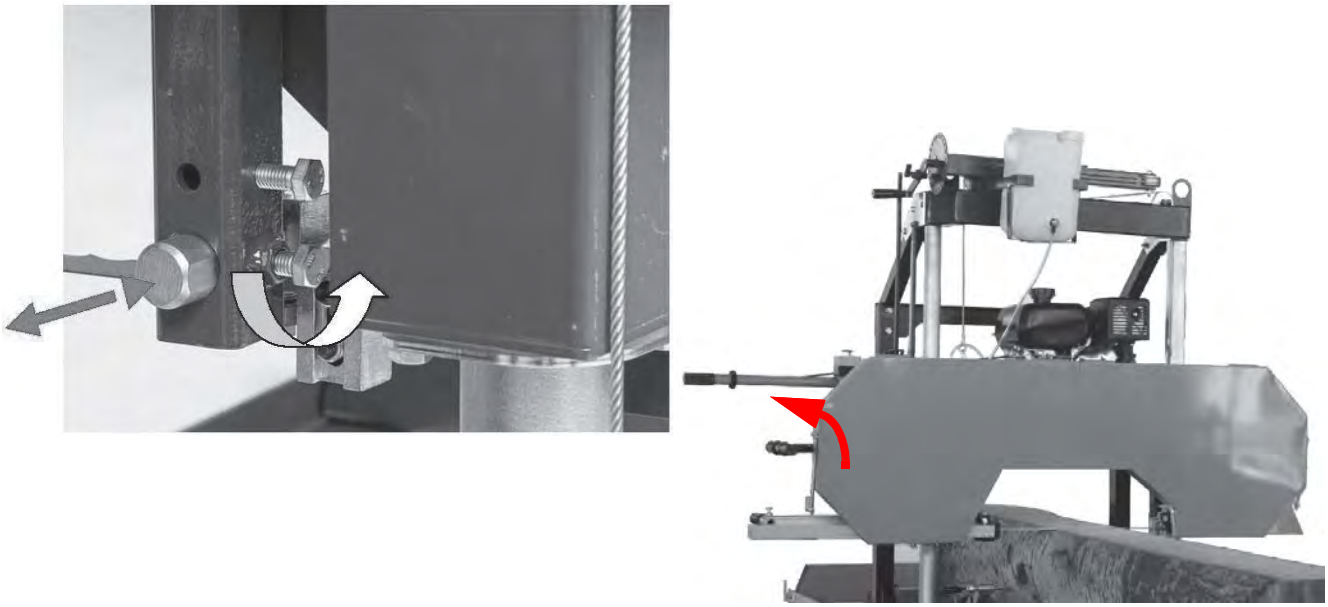


Fig.6-4: Belt guide unit

Loosen the track adjustment lock nut using a suitable open-end wrench (Fig. 6-5).

The alignment screw can now be turned (Fig. 6-5) to change the angle of the disc. To move the band further back on the disc, this screw must be turned clockwise. Turning the screw counterclockwise moves the band further forward on the disc. Turn the screw 1/2 turn and re-tension the band.

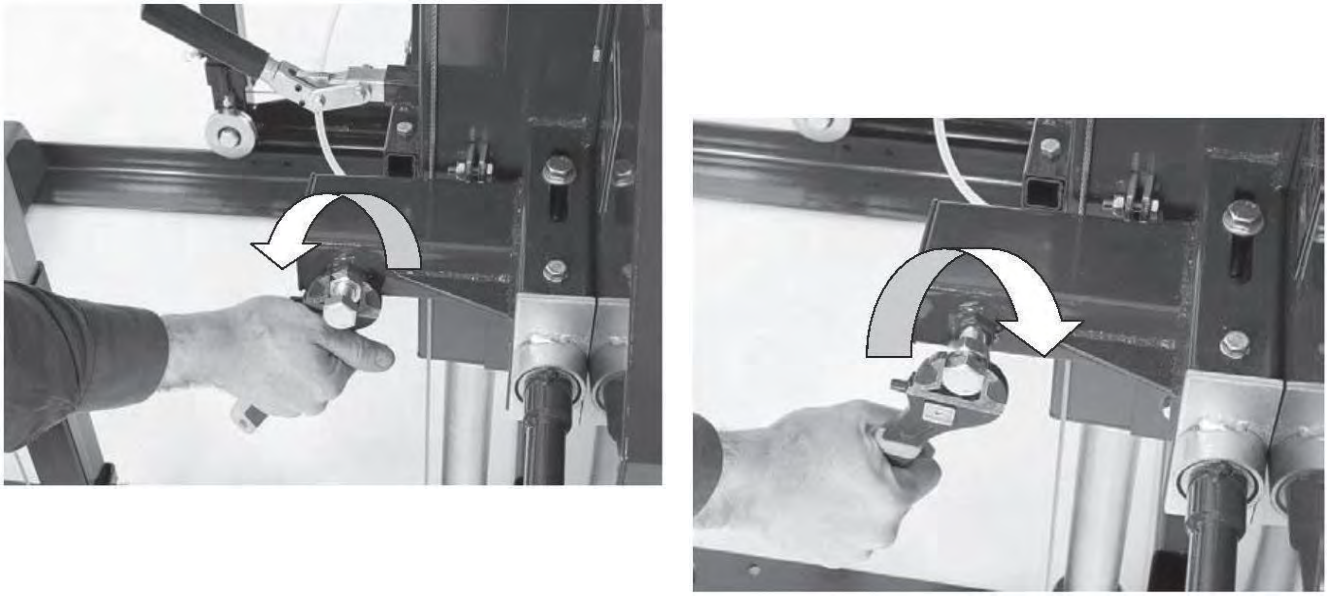


Fig.6-5: Angle intervertebral disc

Wearing gloves, rotate the disc by hand and observe how the blade travel has changed (Fig. 6-6). Measure the distance again (Fig. 6-3 & 6-6) and repeat the above step to make further adjustments if necessary. 9-10 mm (3/8") is recommended.

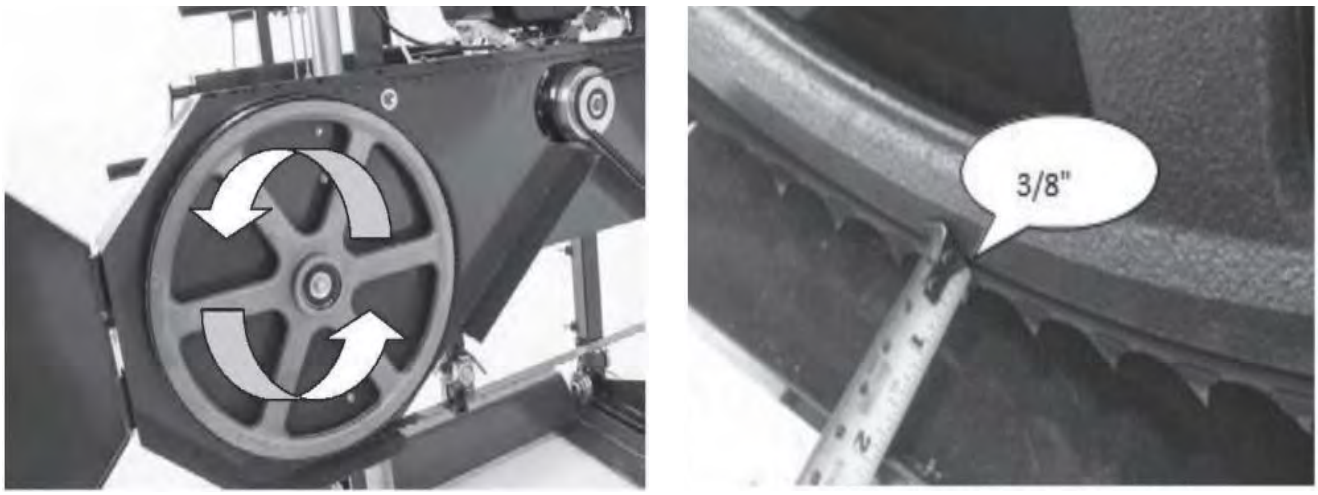


Fig.6-6: Verification by measuring the distance

When you are satisfied with the adjustment and measurement, tighten the nut clockwise (Fig. 6-7).

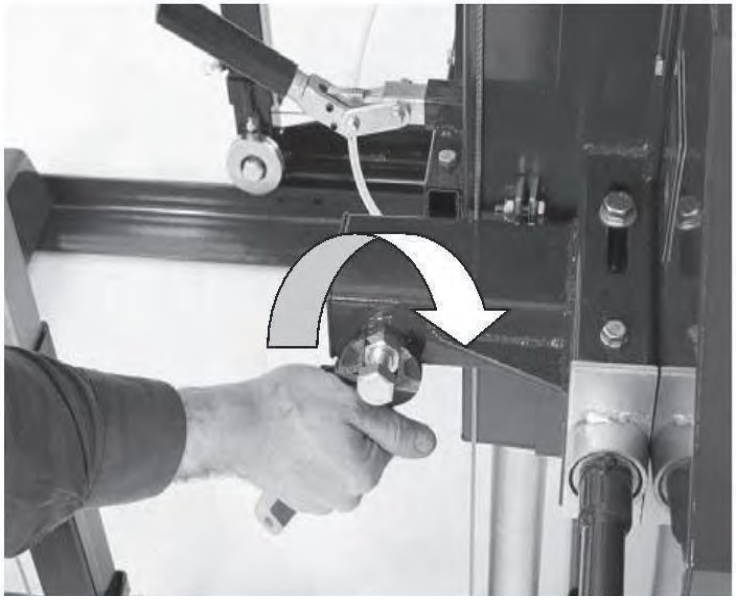


Fig.6-7: Tightening the nut

To adjust the left side of the sawhead, start again by loosening the sawblade tension by turning the "T" handle one turn clockwise. Loosen the "vertical nut" by 1/2 turn using a 16mm open-end wrench. Repeat the same procedure for the "lower vertical nut." Then loosen both "vertical screws" by 1/2 turn. This will relieve the clamping force on the bandwheel shaft (Fig. 6-8).

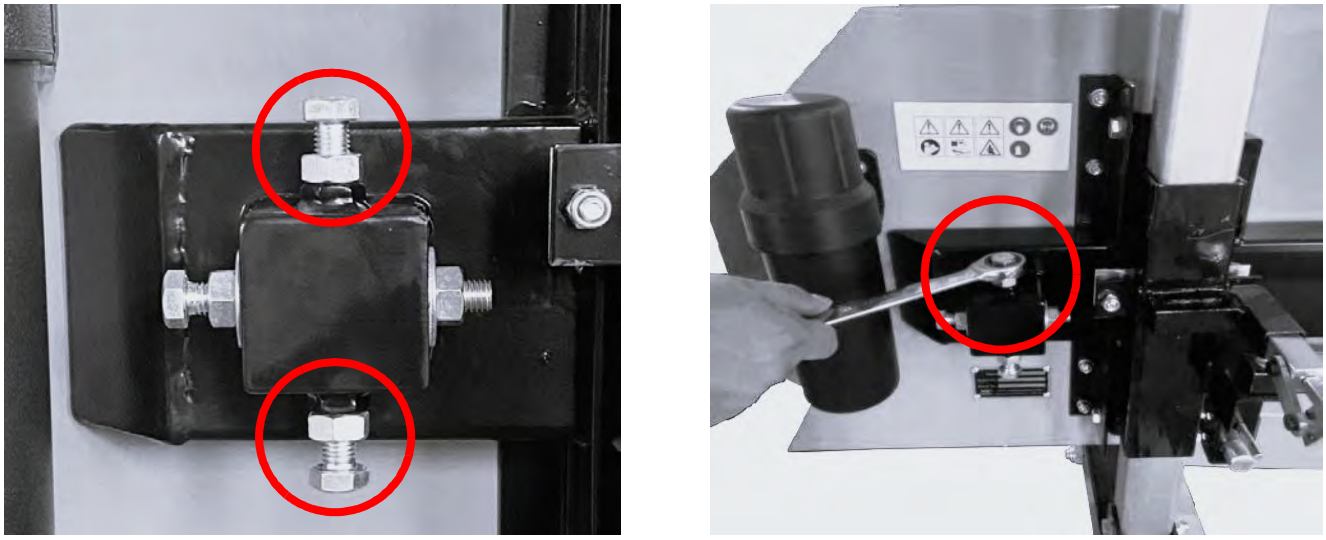


Fig.6-8: Removal of the clamping force on the band wheel shaft

Hold the horizontal screw with a 16mm open-end wrench and turn the inner horizontal nut counterclockwise 1/2 turn. While still holding the horizontal bolt, turn the outer horizontal nut clockwise 1/2 turn. This will move the horizontal bolt and the bandwheel spindle (Fig. 6-9), allowing the saw blade to advance further. Tighten the vertical screws and nuts (Fig. 6-8) to clamp the blade and return the bandwheel spindle to the vertical position.

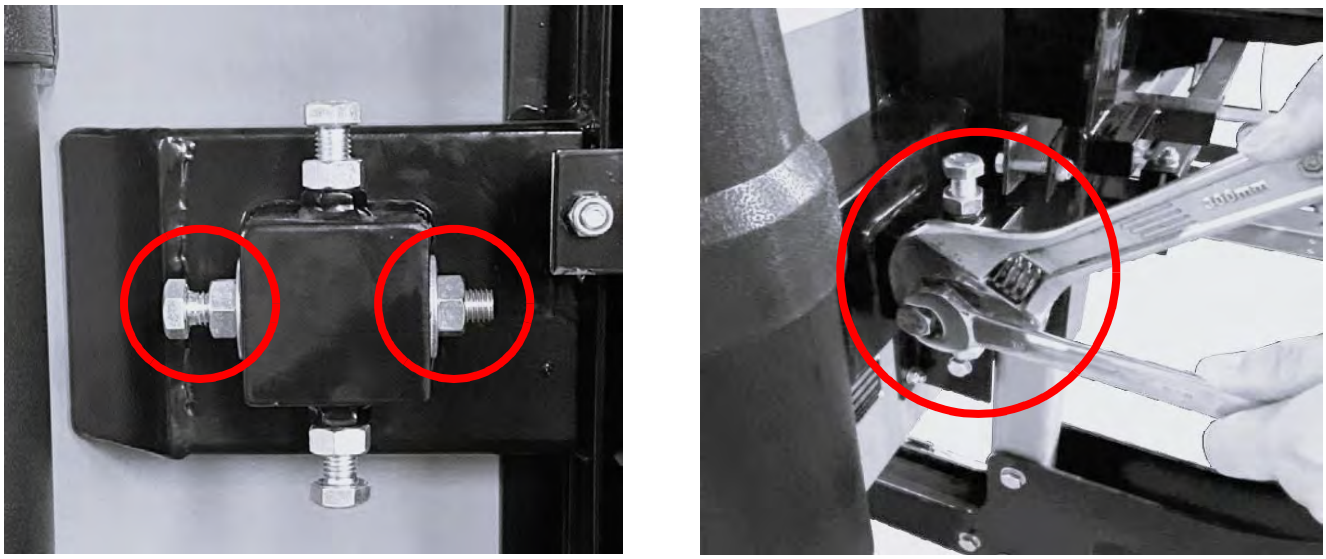


Fig.6-9: Move saw blade forward

Retighten the saw blade by turning the "T" handle one full turn clockwise.

Wearing gloves, rotate the disc by hand and observe how the blade travel has changed (Fig. 6-6). Measure the distance again (similar to Figs. 6-3 & 6-6) and repeat the above step to make further adjustments if necessary. 9-10 mm (3/8") is recommended.

Once both sides of the belt guide unit are correctly adjusted, return the unit to its original position (Fig. 6-4).

6.3 Saw blade guide blocks

WARNING!

Never carry out the following work while the engine is running!

For safety reasons, completely disconnect the machine from the power supply or the spark plug cap.

Before you start adjusting the saw blade guide blocks, make sure that you have correctly followed and checked all the previous steps for saw blade guidance.

To remove the guide blocks on the left and right side, use a 6mm open-end wrench (Fig. 6-10) so that they can move freely up and down.

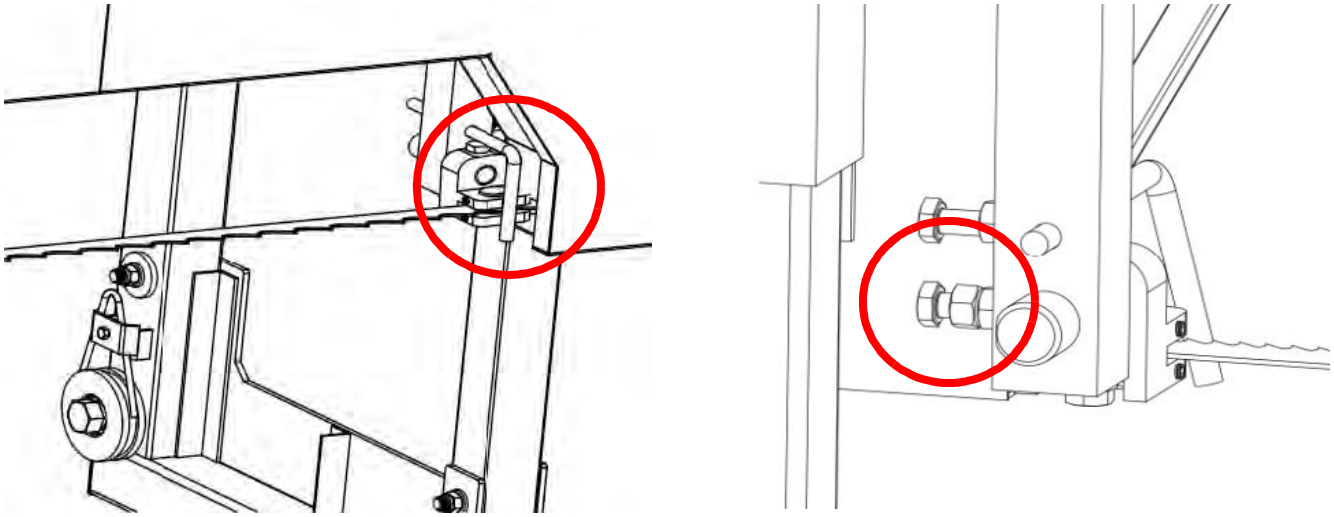


Fig.6-10: Removing the guide blocks

Loosen the screw on the belt guide assembly using a 16mm open-end wrench (Fig. 6-11). The round shaft should now slide freely back and forth. Position it so that there is a paper-width gap between the bearing and the back of the belt. Tighten the screw against the flat of the shaft to secure the assembly back in place.

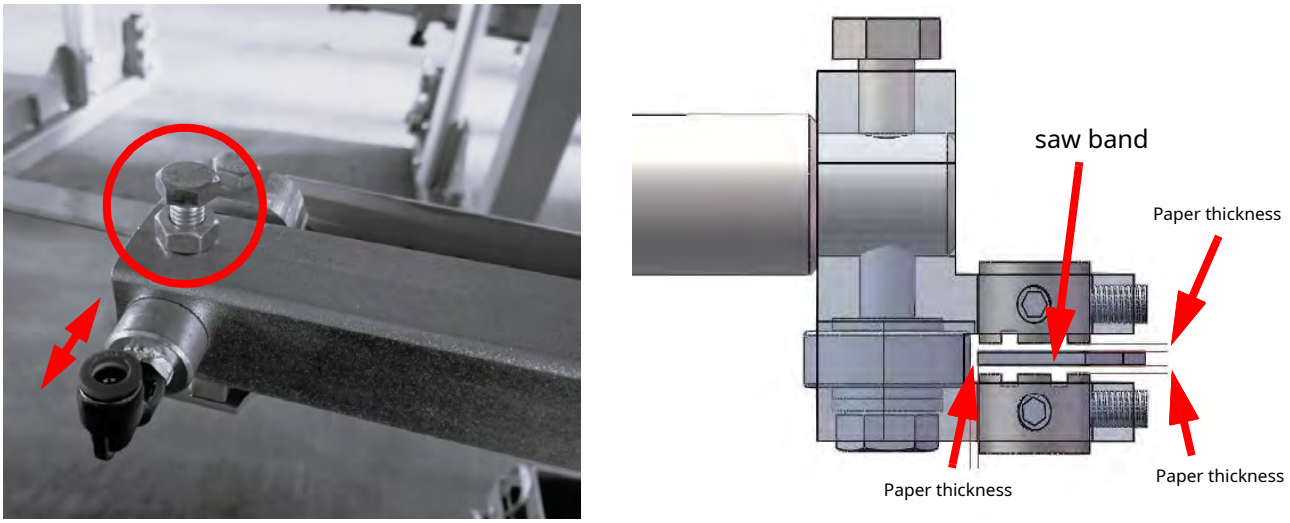


Fig.6-11: Adjustment using paper thickness

Use a piece of paper to adjust the gap using the Allen screw (Fig. 6-12).

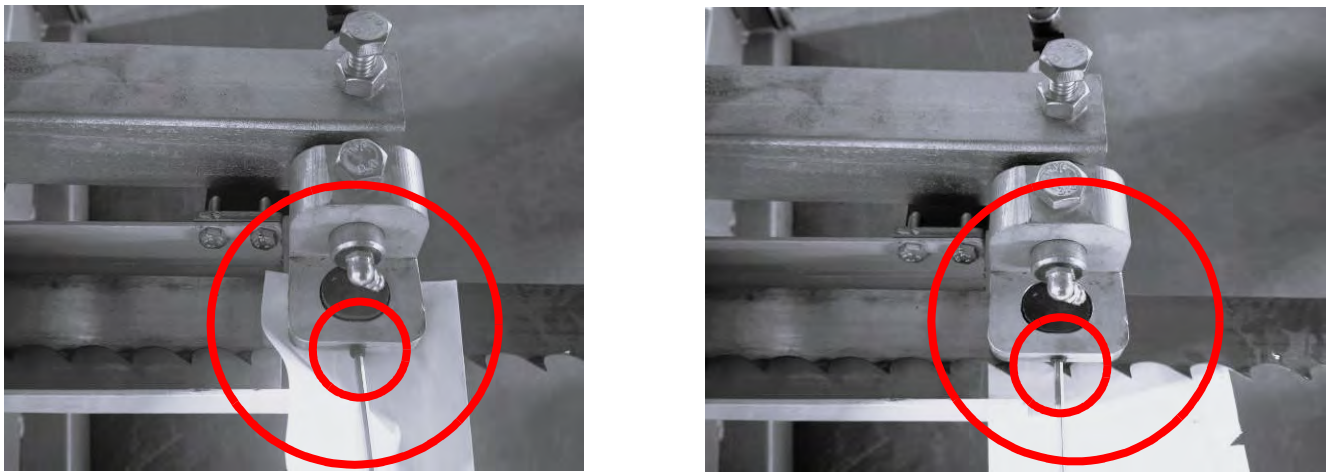


Fig.6-12: Allen screw

6.4 Saw blade tension

Proper blade tension is achieved when the blade moves no more than 1/8"-1/4" (3-6 mm) up/down (Fig. 6-13) when firmly gripped by hand in the center of the blade guide blocks. Turning the blade tension "T" handle clockwise increases the blade tension.

Fig.6-13: Permissible deviation in saw blade tension

When tensioning the saw blade, make sure that the blade guide adjustment screw located behind the "T" handle (Fig. 6-14) is back in its recess. Failure to do so could cause the saw blade to fly and break.

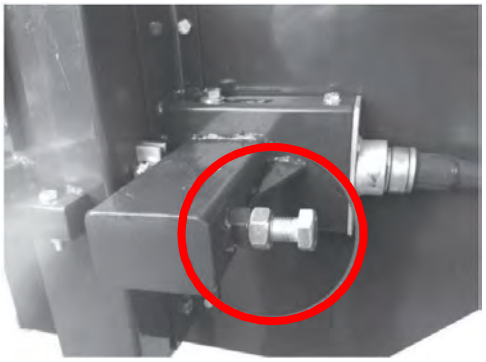


Fig.6-14: Track guide adjustment screw

Do not start the log band saw if the screw is not properly seated in the recess (Fig. 6-15). As shown on the right (Fig. 6-15), the screw should be properly screwed in.

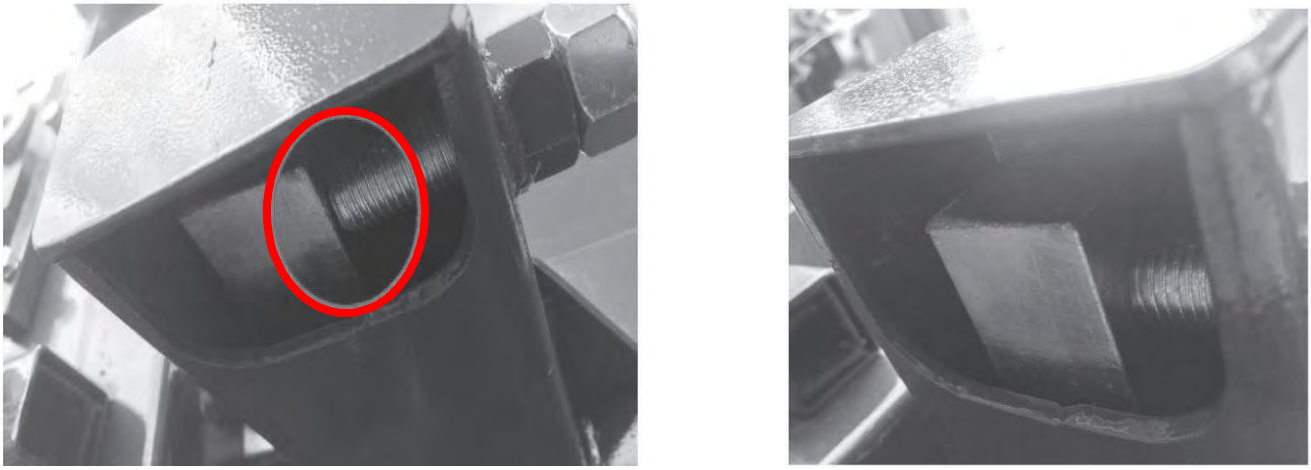


Fig.6-15: Correct seating of the screw for the belt guide adjustment

Make sure that the blade support arm is locked into place after inserting the saw blade (Fig. 6-16).

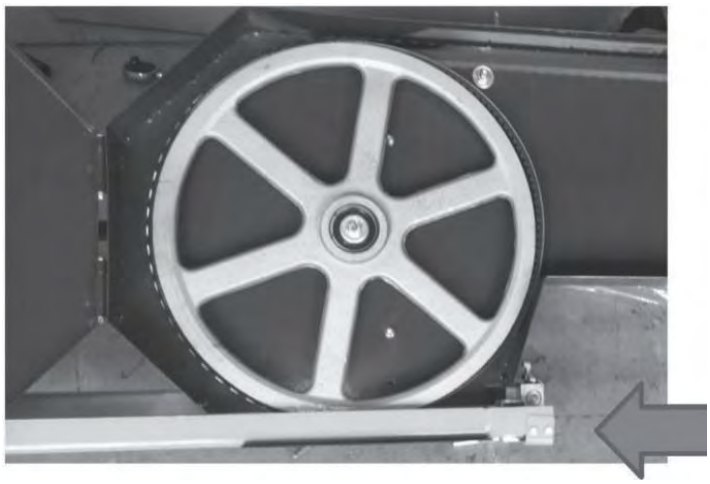


Fig.6-16: Belt carrier arm

6.5 Changing the saw blade

Warning!

Never carry out the following work while the engine is running!

For safety reasons, completely disconnect the machine from the power supply and the spark plug cap. Wear gloves and safety goggles!

Release the tension on the saw blade by turning the "T" handle counterclockwise and then opening the blade guard cover. The saw blade should now be loose and can be pulled straight out. The new saw blade can now be installed, the guards closed, and the correct blade tension adjusted. If necessary, repeat the "**Point 6.2**“ to adjust/check the belt guide.

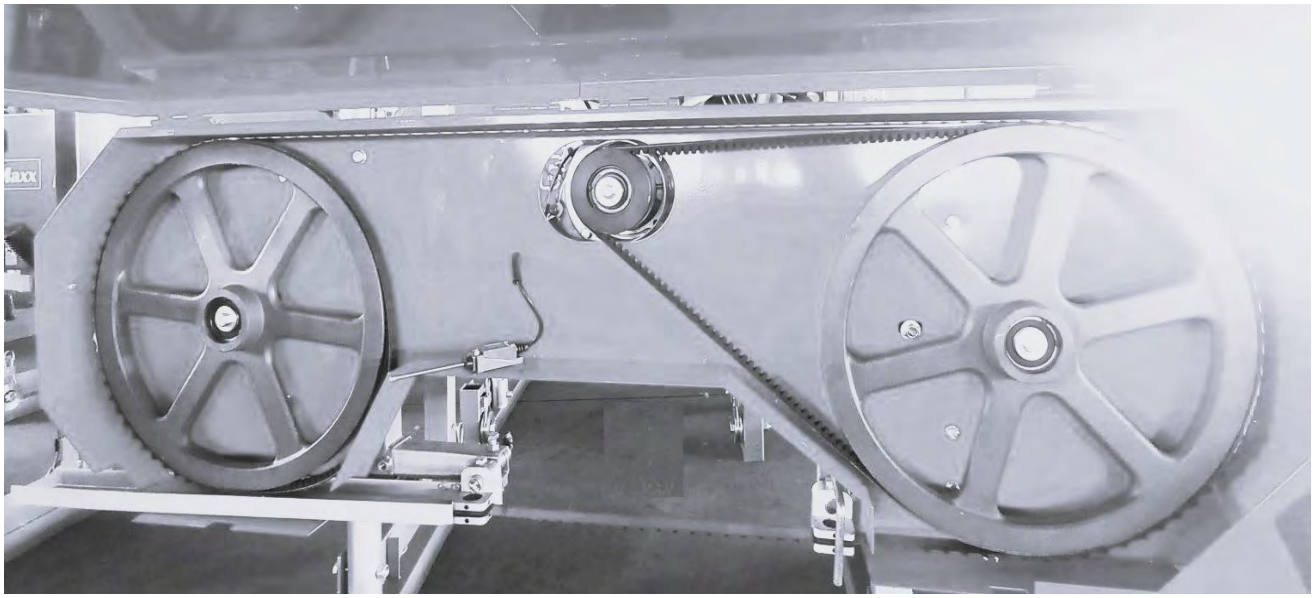


Fig.6-17: Changing the saw blade

6.6 Belt change

Warning!

Never carry out the following work while the engine is running!

For safety reasons, completely disconnect the machine from the power supply and the spark plug cap. Wear gloves and safety goggles!

The saw head contains two rubber V-belts, which should be replaced as a set. It is not advisable to replace each belt separately. We recommend using a "BX77 timing belt" for the drive unit and a "BX58 idler belt" (Fig. 6-18).

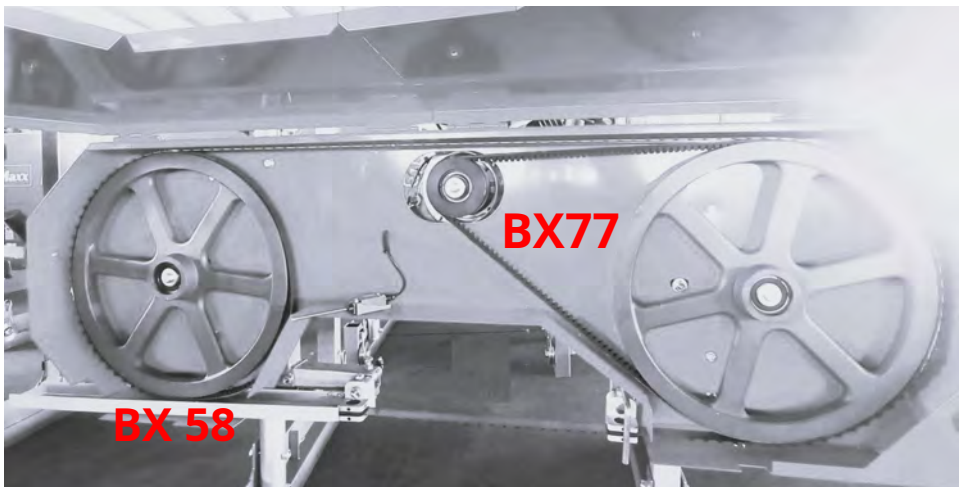


Fig.6-18: Belt change

To change the drive-side belt, loosen the four bolts securing the motor to the motor mount using a 16mm open-end wrench (Fig. 6-19). With the motor now free to slide on the motor mounting plate, turn the 16mm nut on the horizontal bolt counterclockwise (Fig. 6-19). This will allow the motor to move and release the belt tension. The old belt can now be removed and the new belt installed. Tension the new belt, following the belt tensioning instructions. The follower belt can now be changed by simply pulling it off and inserting the new belt. The saw blade can now be reinstalled, the guards closed, and the correct blade tension adjusted. Retighten all bolts.

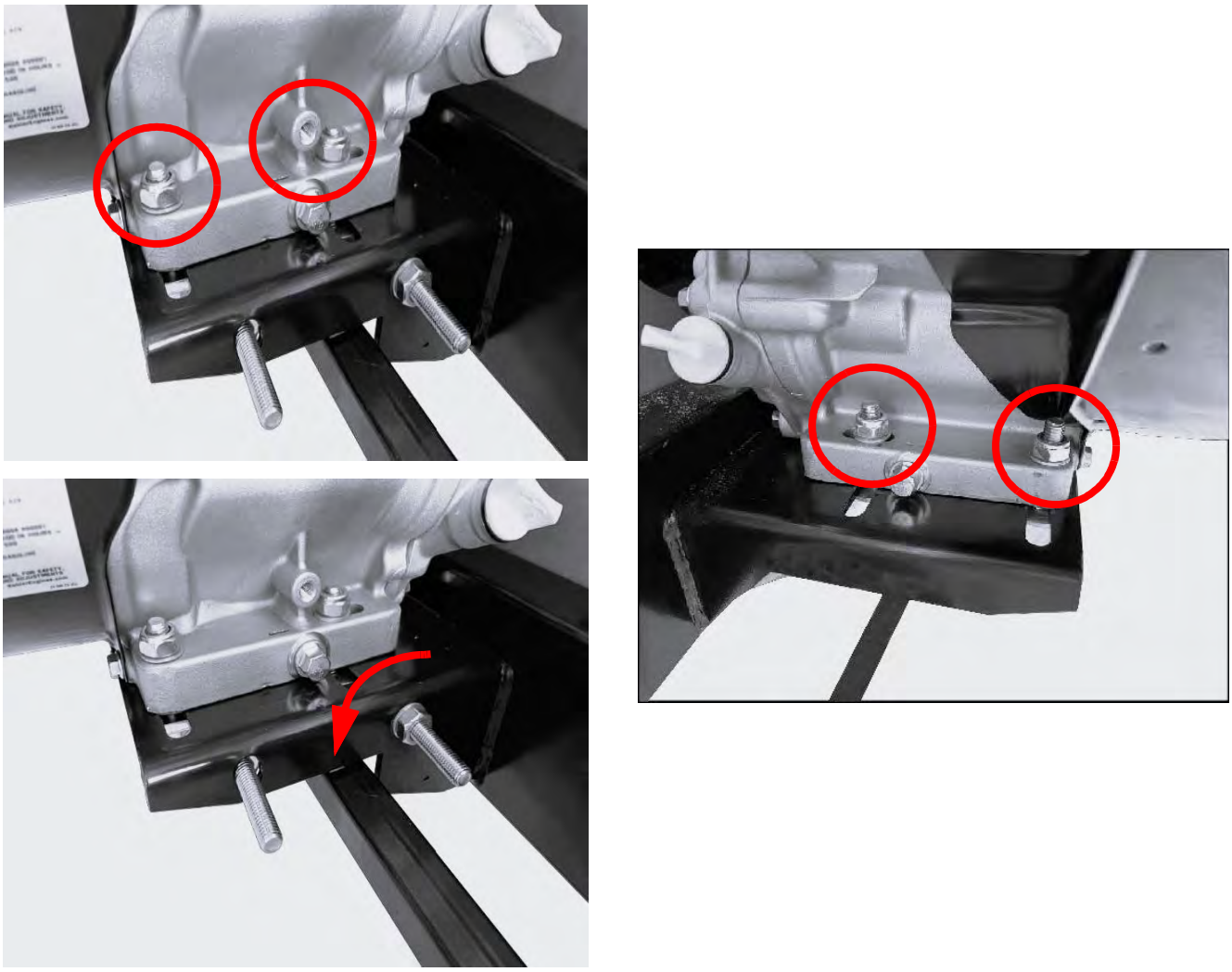


Fig.6-19: Belt change

7 Care, maintenance and repair

Regular and thorough maintenance of your log band saw is essential for a long service life, good working conditions, and maximum productivity. Ensure that maintenance work is performed regularly.

Warning! Danger if personnel are insufficiently qualified:

Insufficiently qualified persons cannot assess the risks to the user caused by improper repair work on the log band saw and expose themselves and others to the risk of serious injury.
Have all maintenance work performed only by qualified personnel. Disconnect the log band saw from the electrical and compressed air supply!

If maintenance and repair work on this machine is carried out by persons who are not authorized to do so, the warranty claim against the manufacturer will be void.

7.1 Cleaning and care

The machine must always be kept clean. Never use harsh cleaning agents for cleaning. These could damage or destroy components.

- All plastic parts and painted surfaces may only be cleaned with a soft, damp cloth and a little neutral cleaner.
- Remove any excess grease or spilled oil with a dry, lint-free cloth.

7.2 Maintenance

Part	Task
Belt wheel bearing	Check before use to ensure they are not worn. The bearings are sealed and do not require lubrication.
Saw band guide storage camp	Check for excessive grooves or scoring in the bearing housing before use.
Saw band spa nnung	Regularly grease the threads of the T-handle.
screws	Lubricate frequently.
belt	Regularly check the condition and wear of the belts. Make sure the saw blade isn't running on the pulleys.
Belt tension ung	Check the tension of the belts regularly.
saw head Locking handles	Lubricate the assembly every 30 days or as needed.
saw head Guide post ten	Spray the posts with a silicone lubricant spray before use.
Wheel cover G	Regularly remove any accumulation of sawdust that may accumulate inside the pulley guard.
Cool-/ Lubrication tank	Only fill with a mixture of water and dishwashing liquid (one or two capfuls) or use windshield washer fluid during the winter months. Do not leave the lubricant in the tank if temperatures drop below 0 degrees Celsius.
lubricant	Never use diesel fuel or kerosene as a lubricant for the saw blade. These substances will cause premature wear.
Motor	Check the engine oil level before each use and maintain the engine.
Cable	Check cables regularly before, during, and after use for wear or kinks. Ensure the cables are in perfect condition.

8 Faults, causes and remedies

Disturbance	Possible cause	remedy
Emergence of Wave cuts.	1. Insufficient belt tension. 2. Incorrect adjustment of the tape guide. 3. Improper tape guidance. 4. Sap accumulation on the saw blade. 5. Blunt saw blade. 6. Saw head is pushed too quickly.	1. Tension the saw blade. 2. The distance between the guide blocks and the belt is not correct. 3. Adjust the tape track. 4. Install the new saw blade. Always use lubricant for the blade. 5. Install new saw blade. 6. Reduce the feed speed and push the head through the trunk more slowly.
The last board is tapered in the middle.	The slide rails are not level.	The rails must be checked with a spirit level and aligned at right angles. They must also be placed on a firm, stable base. so that they are not distracted by logs or saw heads.
The saw band is quickly becomes blunt.	1. Logs are not clean. 2. Foreign bodies in the wood. 3. No original saw blade.	1. The logs may contain dirt/sand, which causes them to wear out prematurely. 2. The tree may contain nails, staples, old fence scraps, etc. 3. Use only original accessories.
The saw band slip from the drive wheels.	1. Insufficient belt tension. 2. Incorrect adjustment of the saw blade guide. 3. Improper saw blade guidance. 4. Blunt saw blade. 5. Saw head is pushed too quickly.	1. Tension the saw blade. 2. The distance between the guide rods and the load is incorrect. 3. Adjust the saw blade guide. 4. New saw blade. 5. Reduce the feed speed and push the head through the trunk more slowly.
Saw blade breaks.	1. Sanded too often. 2. Insufficient belt tension. 3. Incorrect adjustment of the saw blade guide. 4. Improper saw blade guidance. 5. Saw head is pushed too quickly.	1. Replace the saw blade. 2. Tighten the saw blade. 3. The distance between the guide blocks and the saw blade is incorrect. 4. Adjust the tape track. 5. Reduce the feed speed and push the head through the trunk more slowly.

Disturbance	Possible cause	remedy
The saw band is when milling slower or stops.	1. Blunt saw blade. 2. The saw blade is installed upside down.	1. Replace the saw blade. 2. Turn the saw blade in the direction of the log support.
Saw head cuts not or very slow.	1. Compressed air pressure too low. 2. Wear of the press blocks that are in contact with the workpiece. 3. Slippery work surface.	1. Check the system pressure levels. Check the pneumatic connections for proper operation and functionality. 2. Check that the pressure cylinders are functioning correctly. 3. Clean the work surface.
The saw head vibrates too much.	1. The trunk is not firmly clamped. 2. The belts are deformed. 3. Problem with the belt wheel bearing. 4. Saw head is pushed too quickly. 5. Loose bolts.	1. Make sure the log is firmly clamped to the log planks and against the log supports. 2. The belts may have flat spots due to the blade tension being too loose when not in use. Replace them. 3. Check and replace the disc bearings if they are worn. 4. Slow down the feed rate when milling. 5. Check that all screws are tight.

9 Spare parts

Risk of injury due to the use of incorrect spare parts!

The use of incorrect or faulty spare parts may endanger the operator and cause damage and malfunctions.

Stürmer Maschinen GmbH assumes no liability or warranty for damage or malfunctions resulting from failure to follow these operating instructions. For repairs, use only flawless and suitable tools, original spare parts, or parts expressly approved by Stürmer Maschinen GmbH.

The use of unauthorized spare parts will void the manufacturer’s warranty.

Information about technical support

Repairs covered by the warranty may only be carried out by service technicians authorized by us.

9.1 Ordering spare parts

Spare parts can be obtained from your dealer.

Send a copy of the spare parts drawing with the marked components to the dealer and state the following:

- Article number
- Model name
- Date of manufacture
- Position numbers of the components and, if applicable, corresponding spare part drawing number
- Quantity
- Desired shipping method (mail, freight, sea, air, express)
- Shipping address

Spare parts orders without the above information cannot be considered. If the shipping method is not specified, shipping will be at the supplier's discretion.

Information about the model type, article number and year of manufacture can be found on the type plate attached to the log band saw.

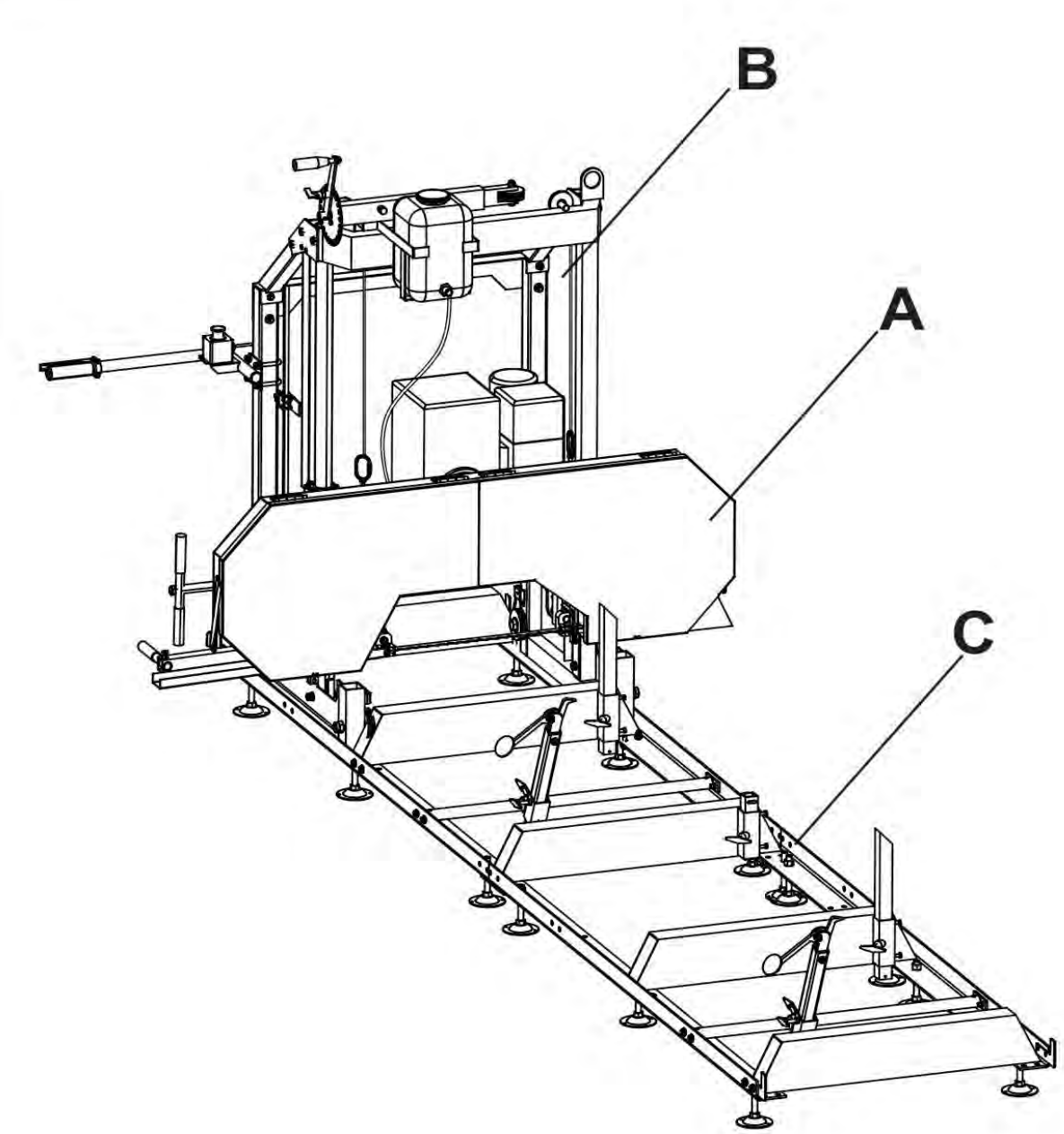
Example

The motor with the number 61, for the log band saw, model HBBS 400 / 230V, on the drawing HBBS 400 / 230V - A, must be ordered.

When ordering spare parts, send a copy of the spare parts drawing with the component and position number (61) marked to the authorized dealer and provide the following information:

- Article number 5670401
- Model name HBBS 400 / 230V,
- Drawing number HBBS 400 / 230V - A, Fig. 9-2 Spare parts drawing 1
- Position number 61

9.2 Spare parts



Spare parts drawing - HBBS 400 / 230V / HBBS 400 / 400V- A

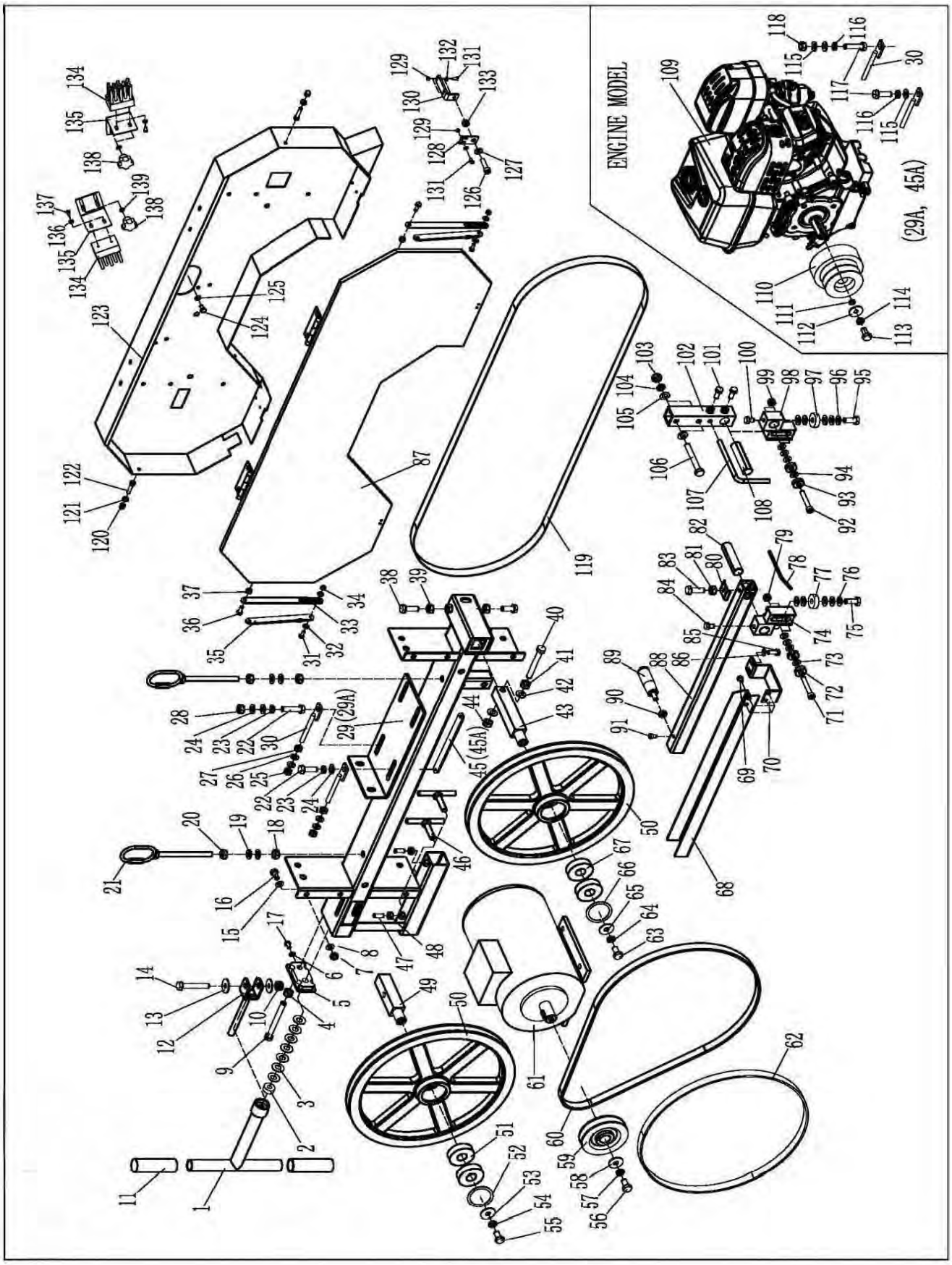


Fig.9-2: Spare parts drawing A

Spare parts drawing - HBBS 400 / 230V / HBBS 400 / 400V - B

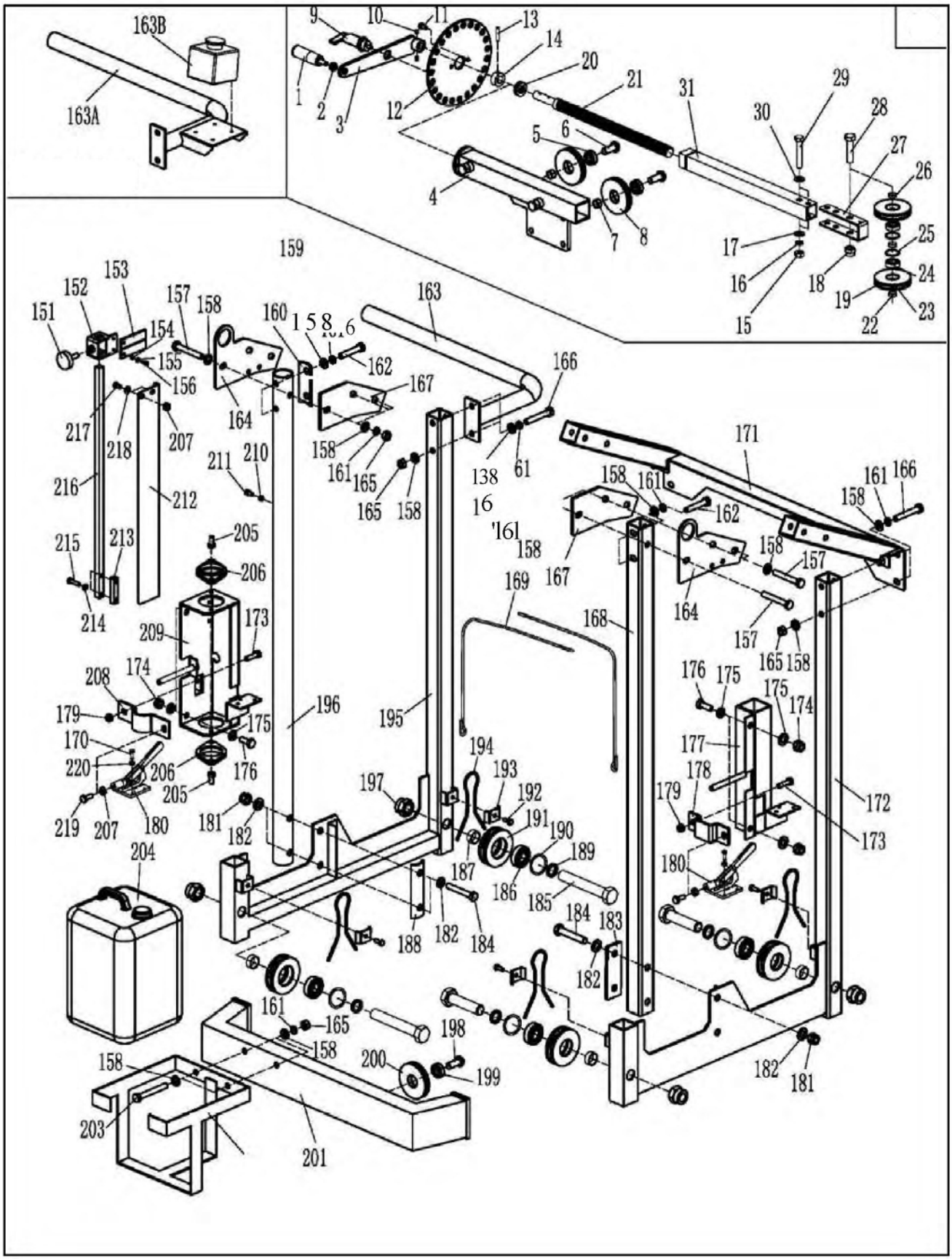


Fig.9-3: Spare parts drawing B

Spare parts drawing - HBBS 400 / 230V / HBBS 400 / 400V - C

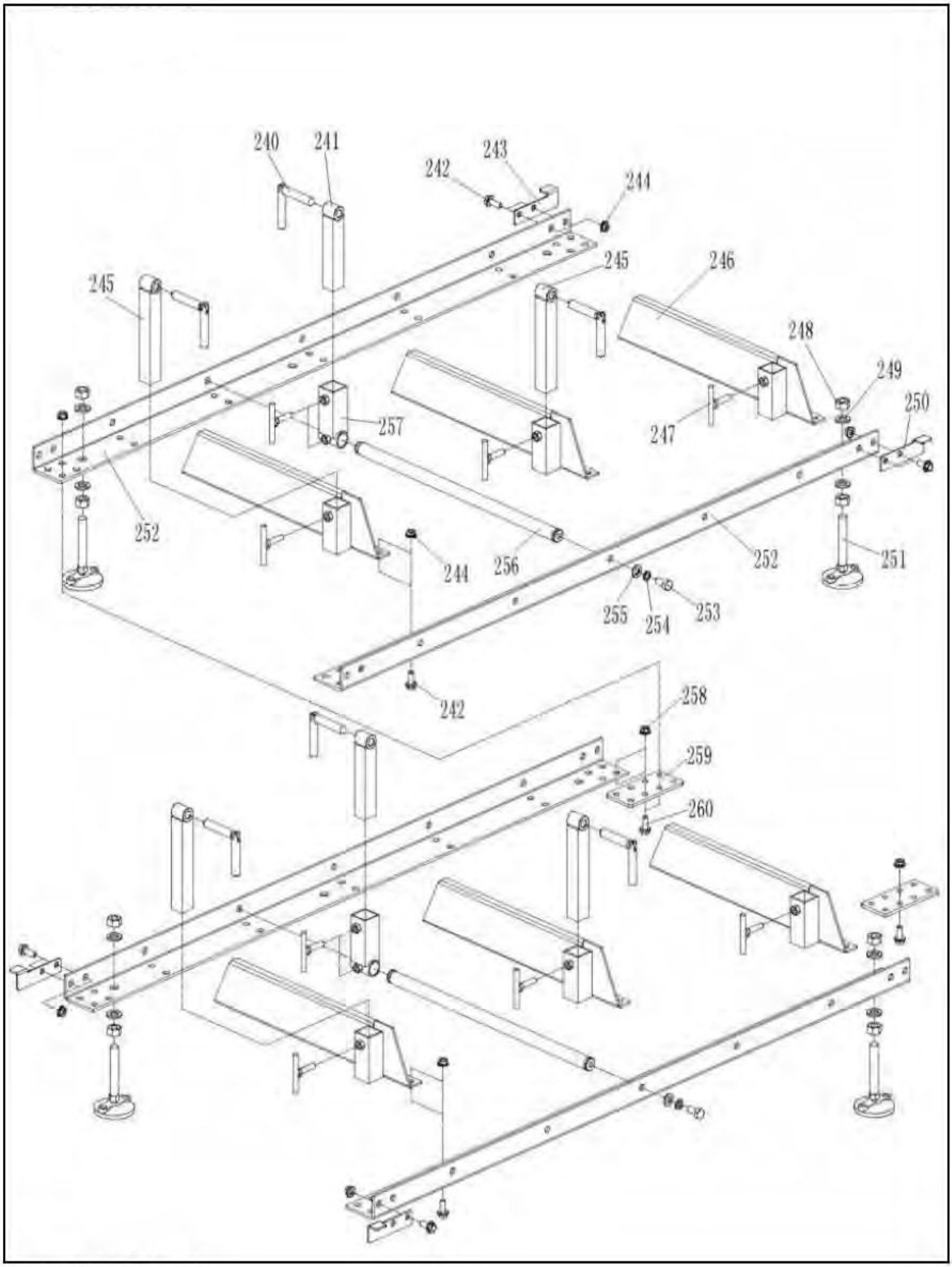


Fig.9-4: Spare parts drawing C

Spare parts drawing - HBBS 660 - A

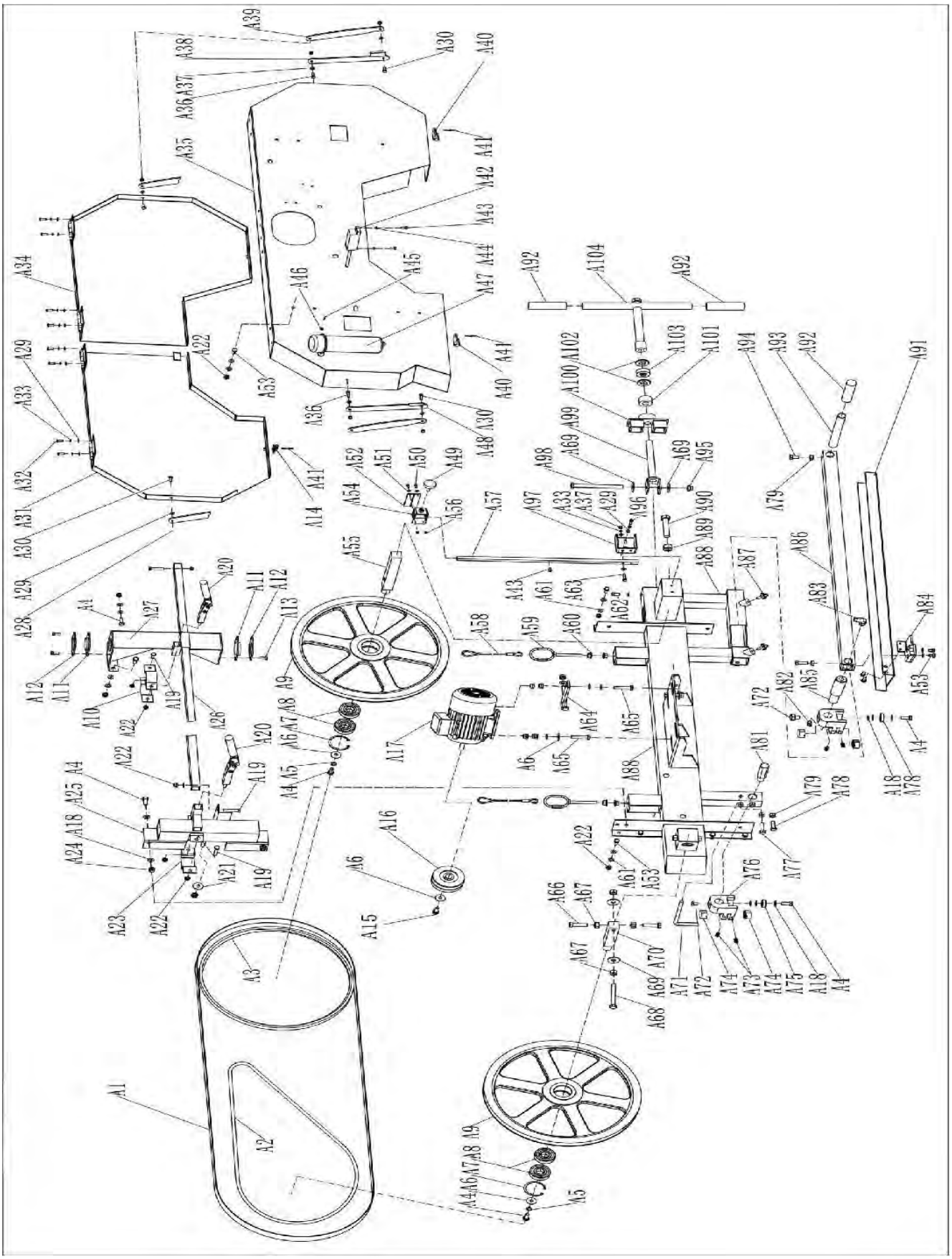


Fig.9-5: Spare parts drawing A

Spare parts drawing - HBBS 660 - B

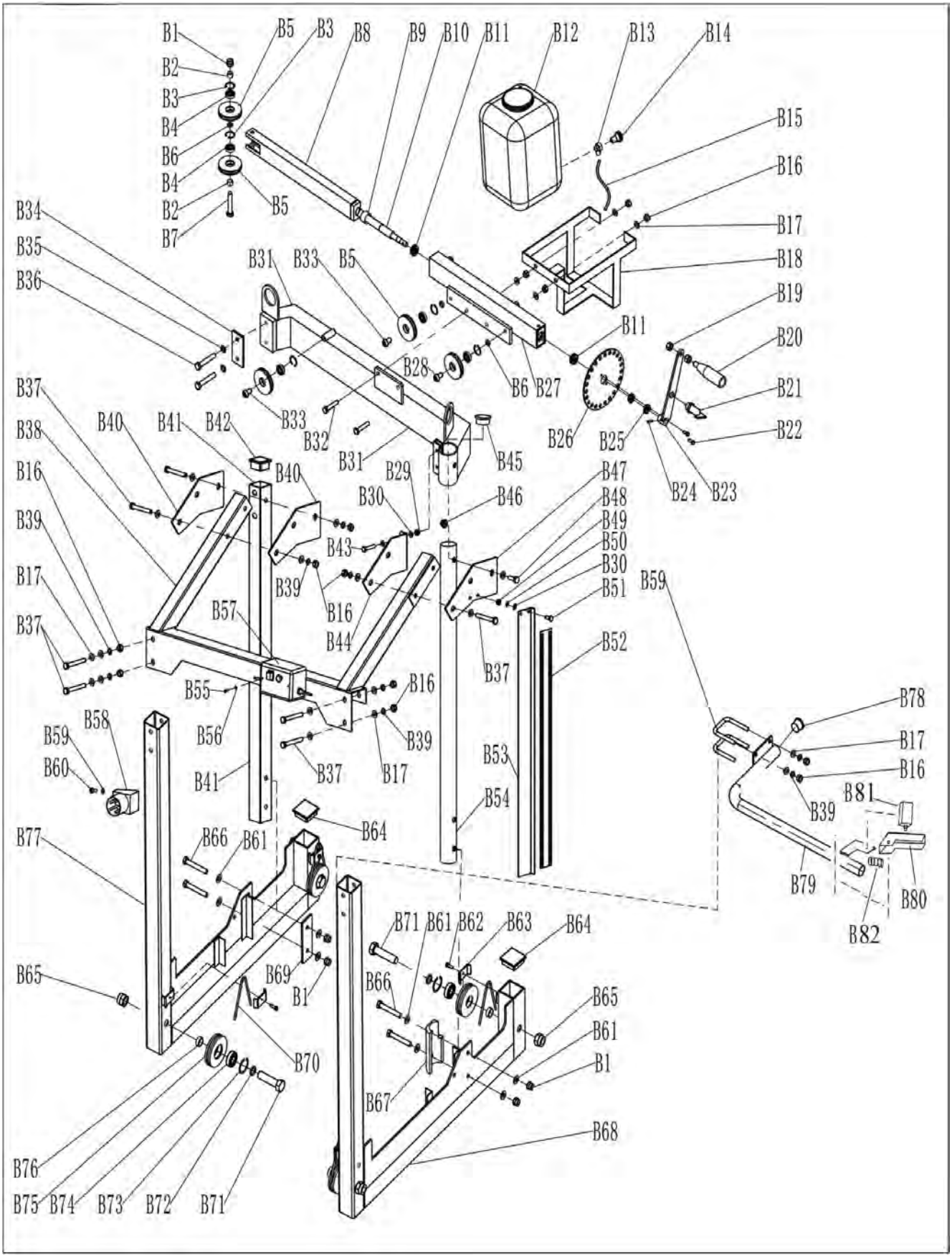


Fig.9-6: Spare parts drawing B

Spare parts drawing - HBBS 660 - C

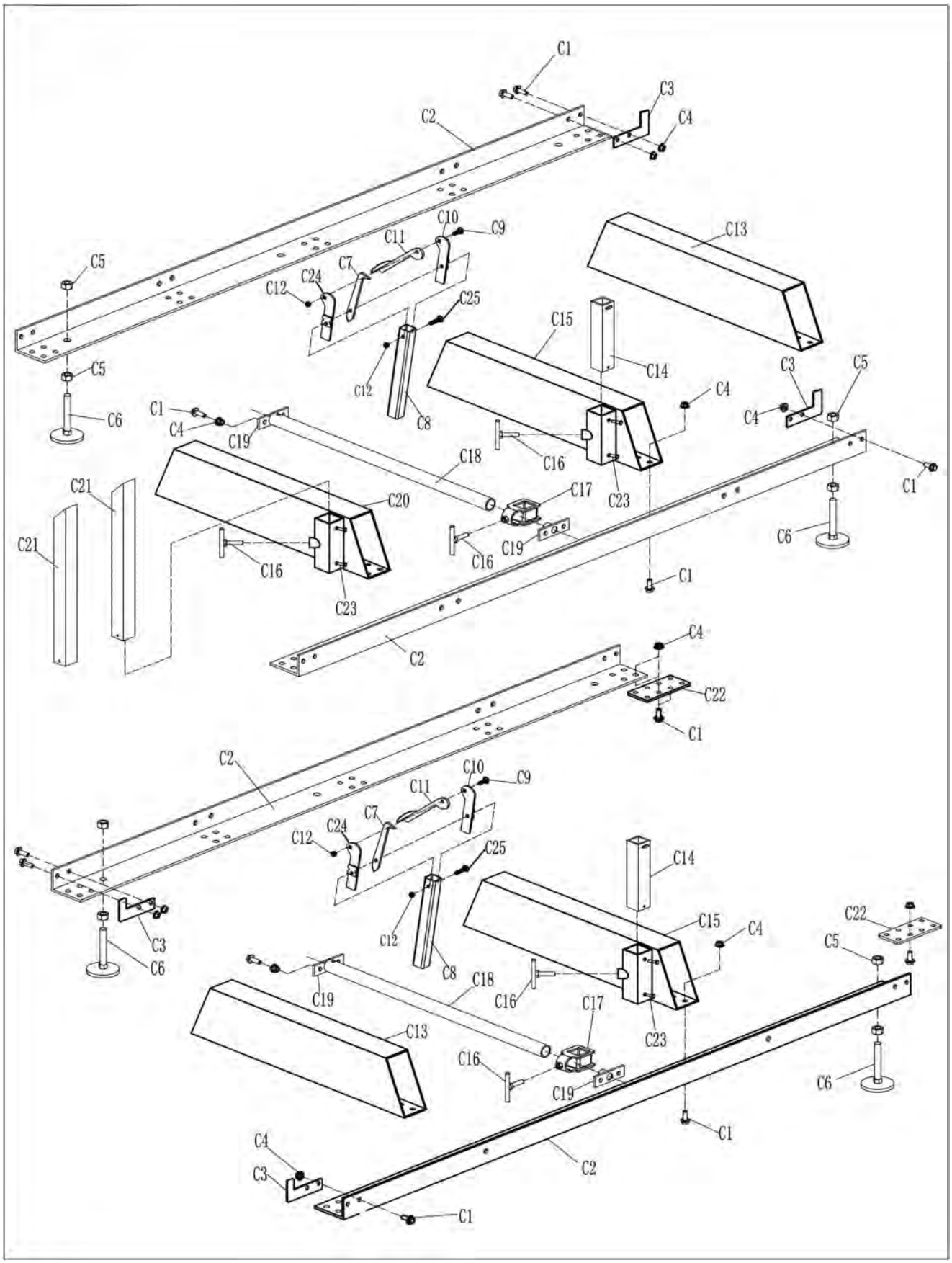


Fig.9-7: Spare parts drawing C

Spare parts drawing - HBBS 660 G - A

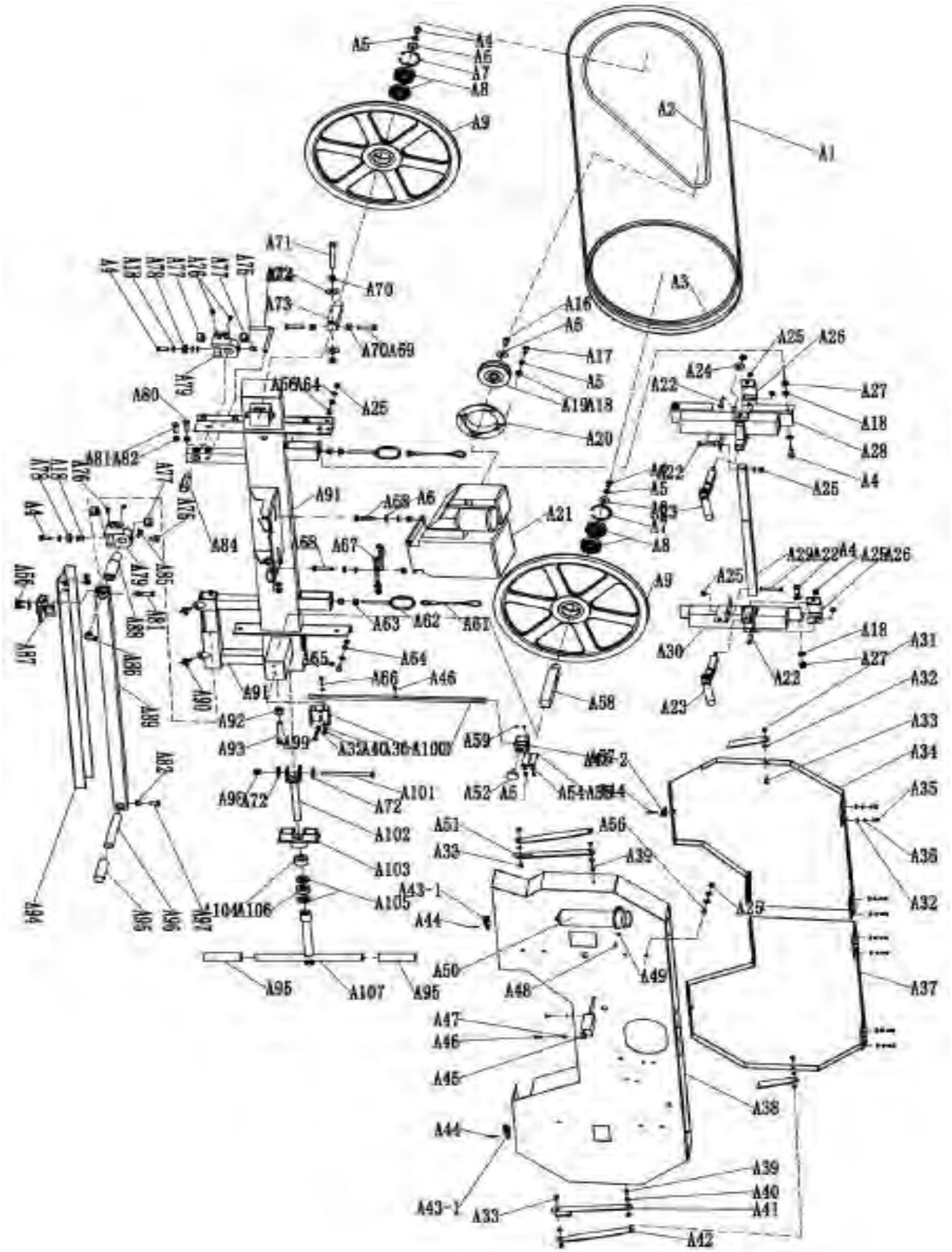


Fig.9-8: Spare parts drawing A

Spare parts drawing - HBBS 660 G - B

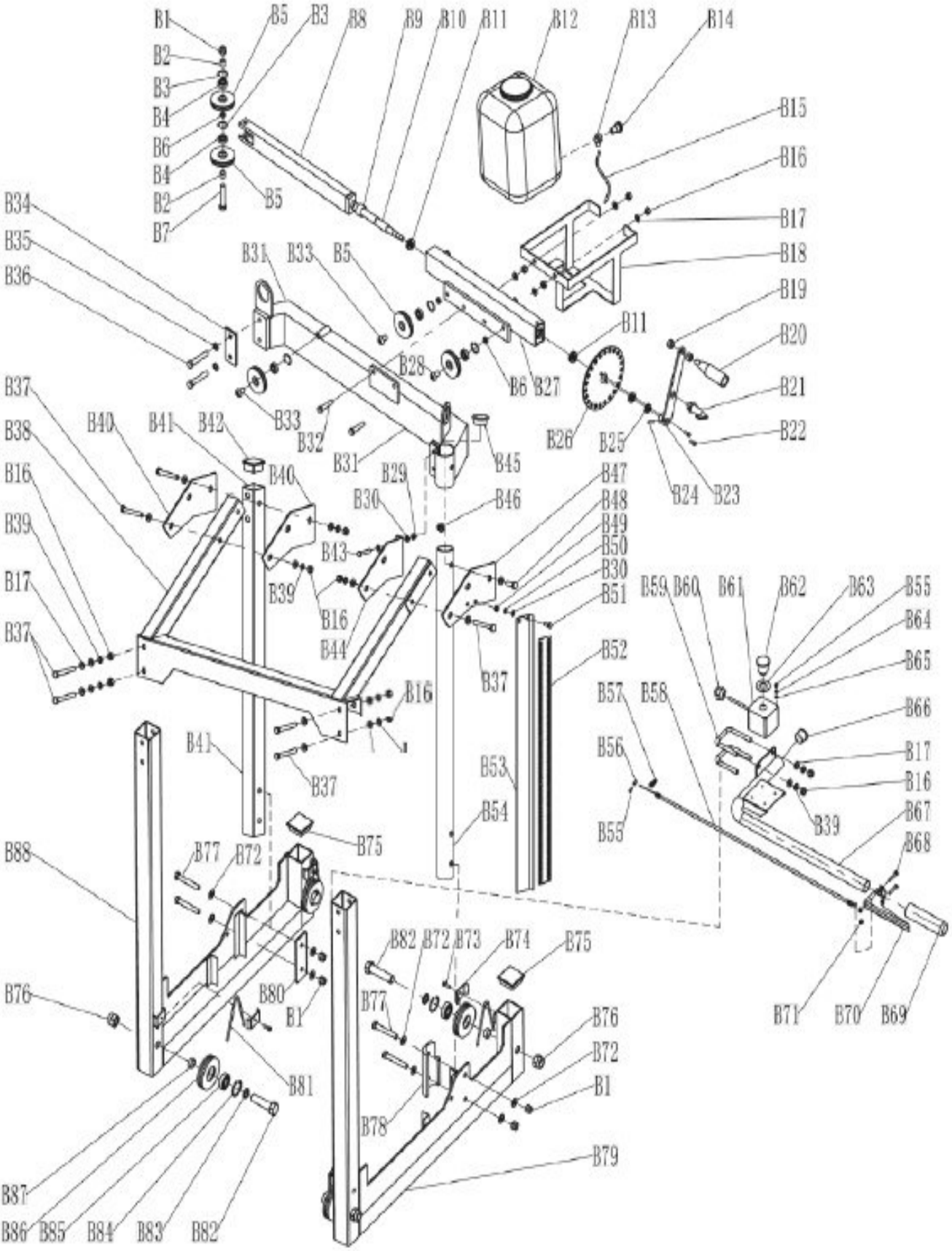


Fig.9-9: Spare parts drawing B

Spare parts drawing - HBBS 660 G - C

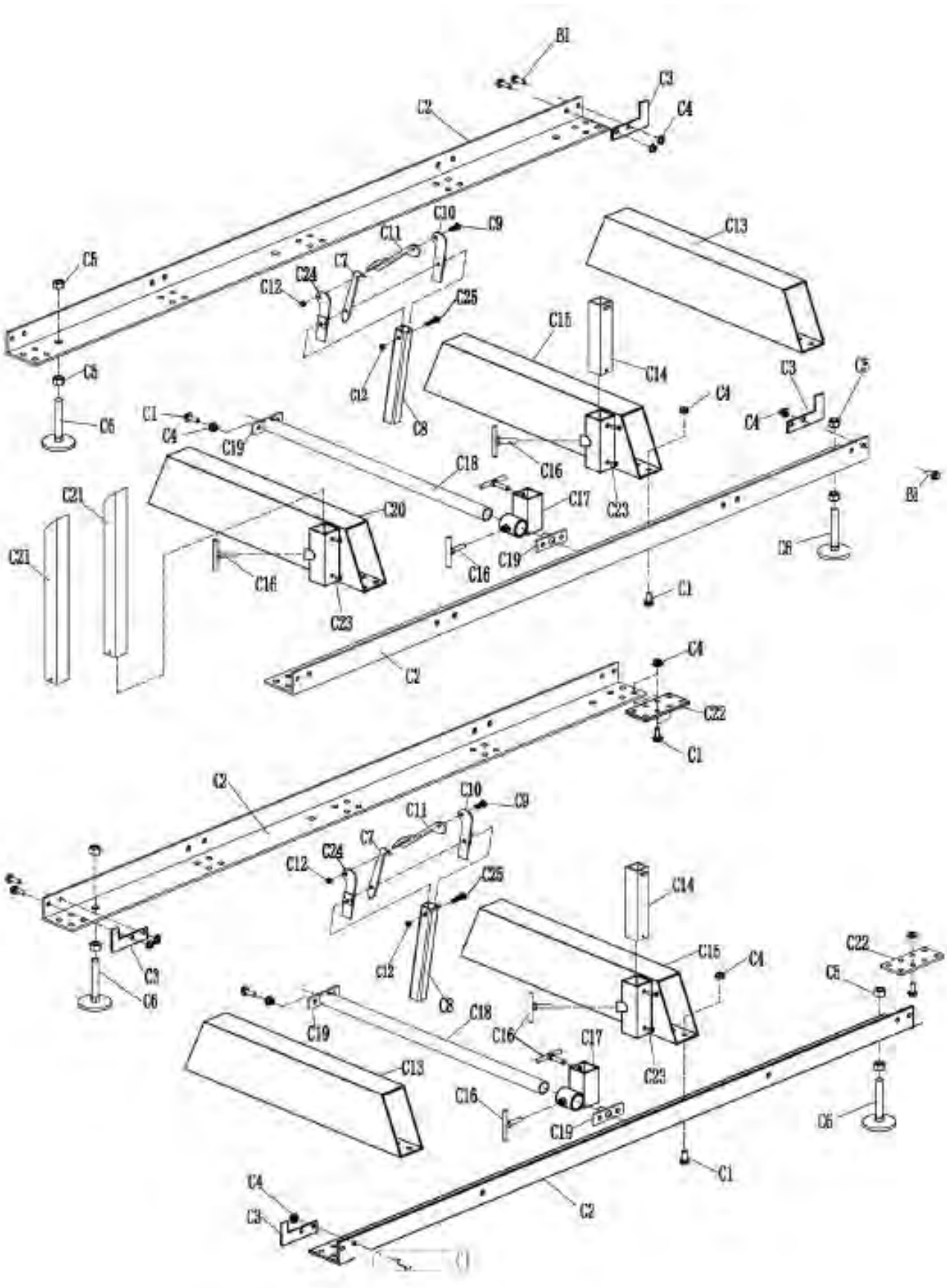


Fig.9-10: Spare parts drawing C

Spare parts drawing - HBBS 810 - A

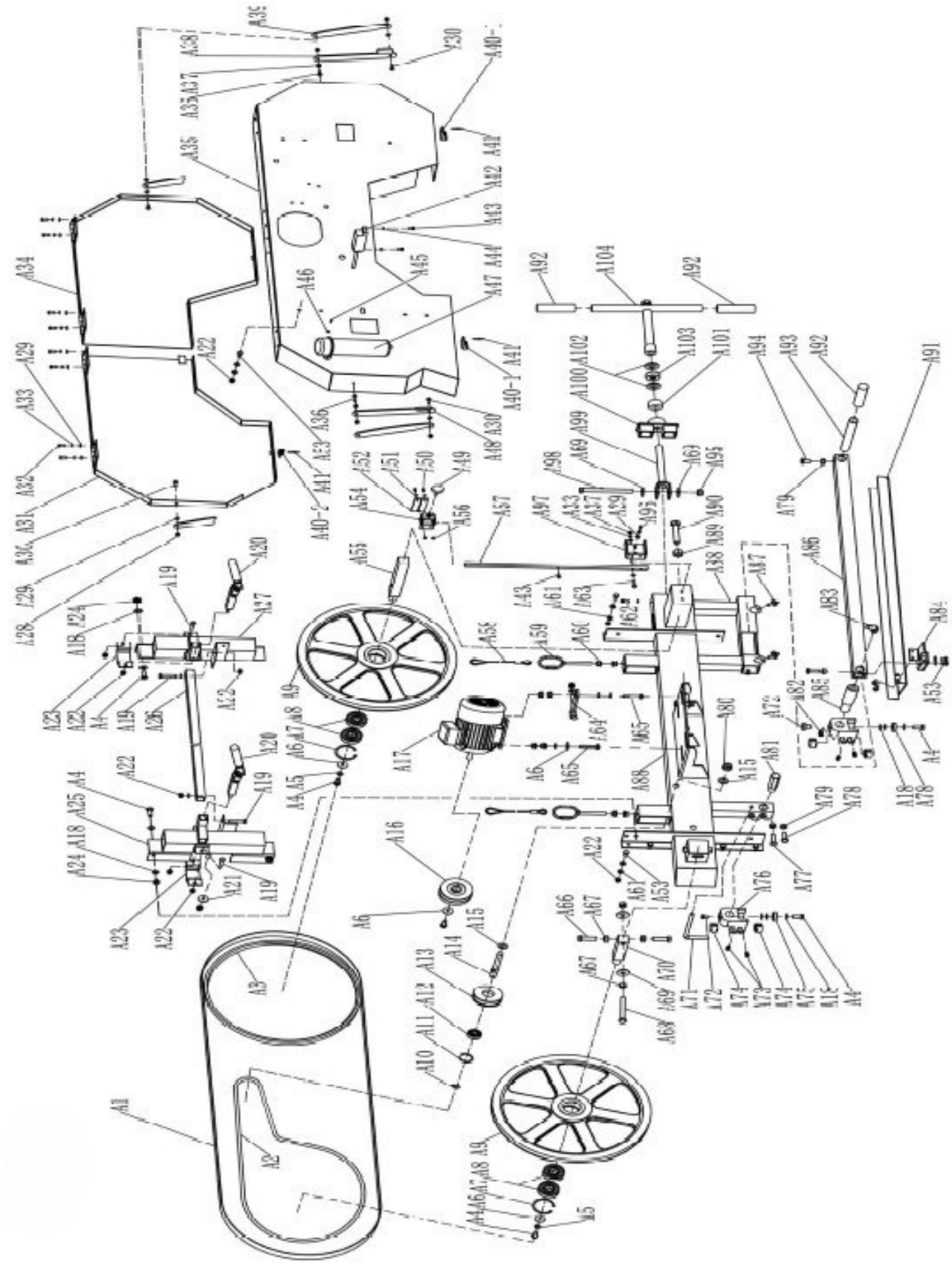


Fig.9-11: Spare parts drawing A

Spare parts drawing - HBBS 810 - B

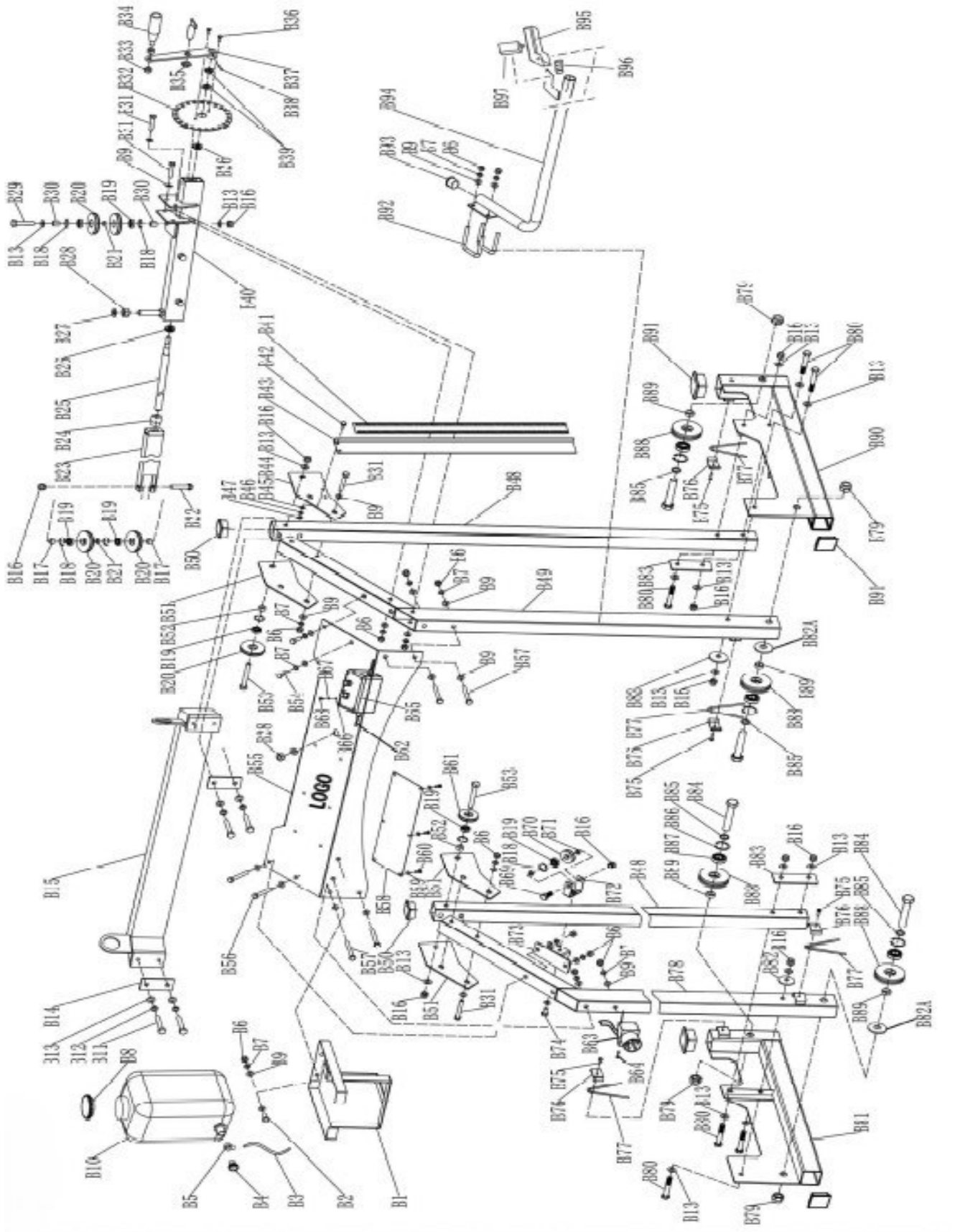


Fig.9-12: Spare parts drawing B

Spare parts drawing - HBBS 810 - C

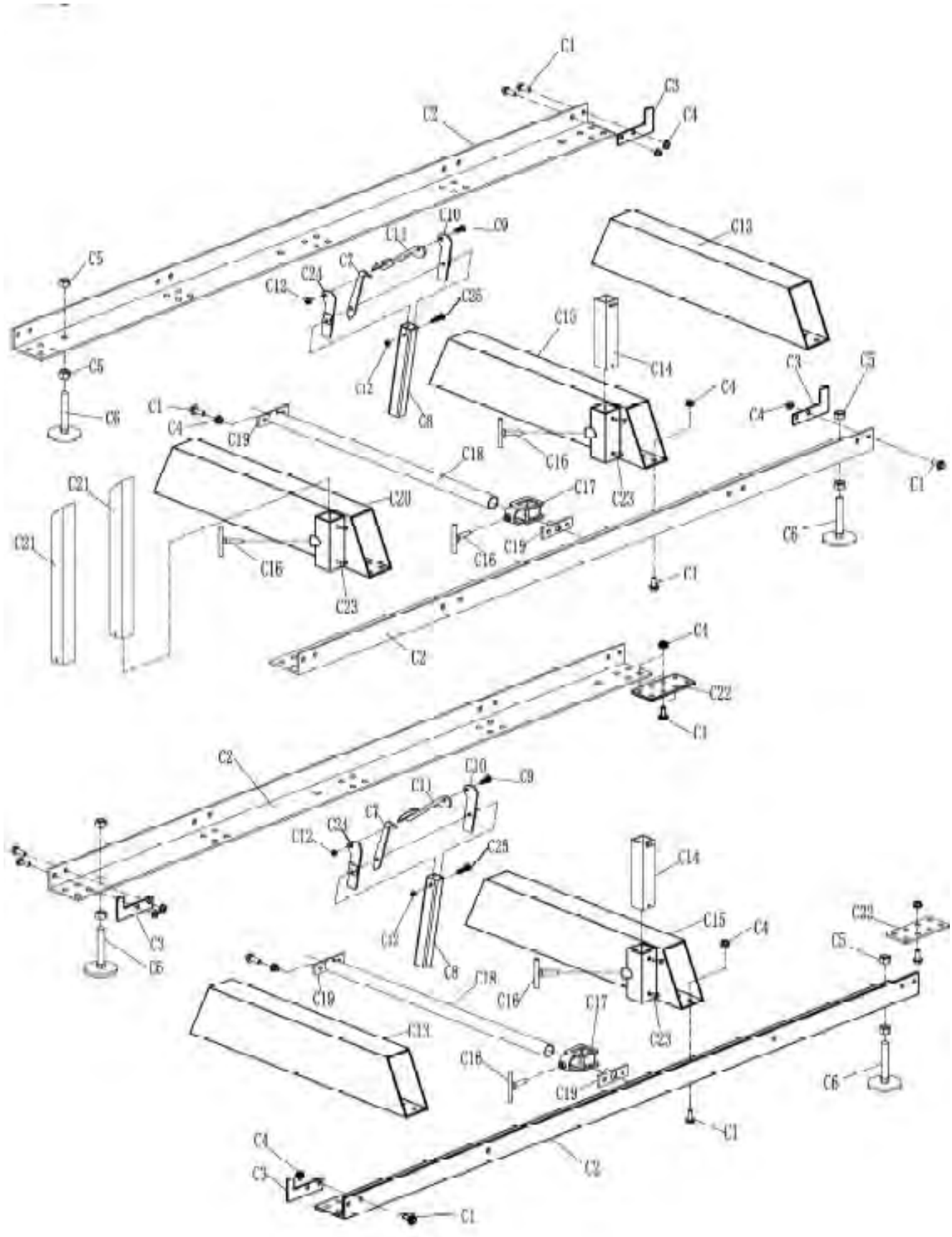


Fig.9-13: Spare parts drawing C

Spare parts drawing - HBBS 810 G - A

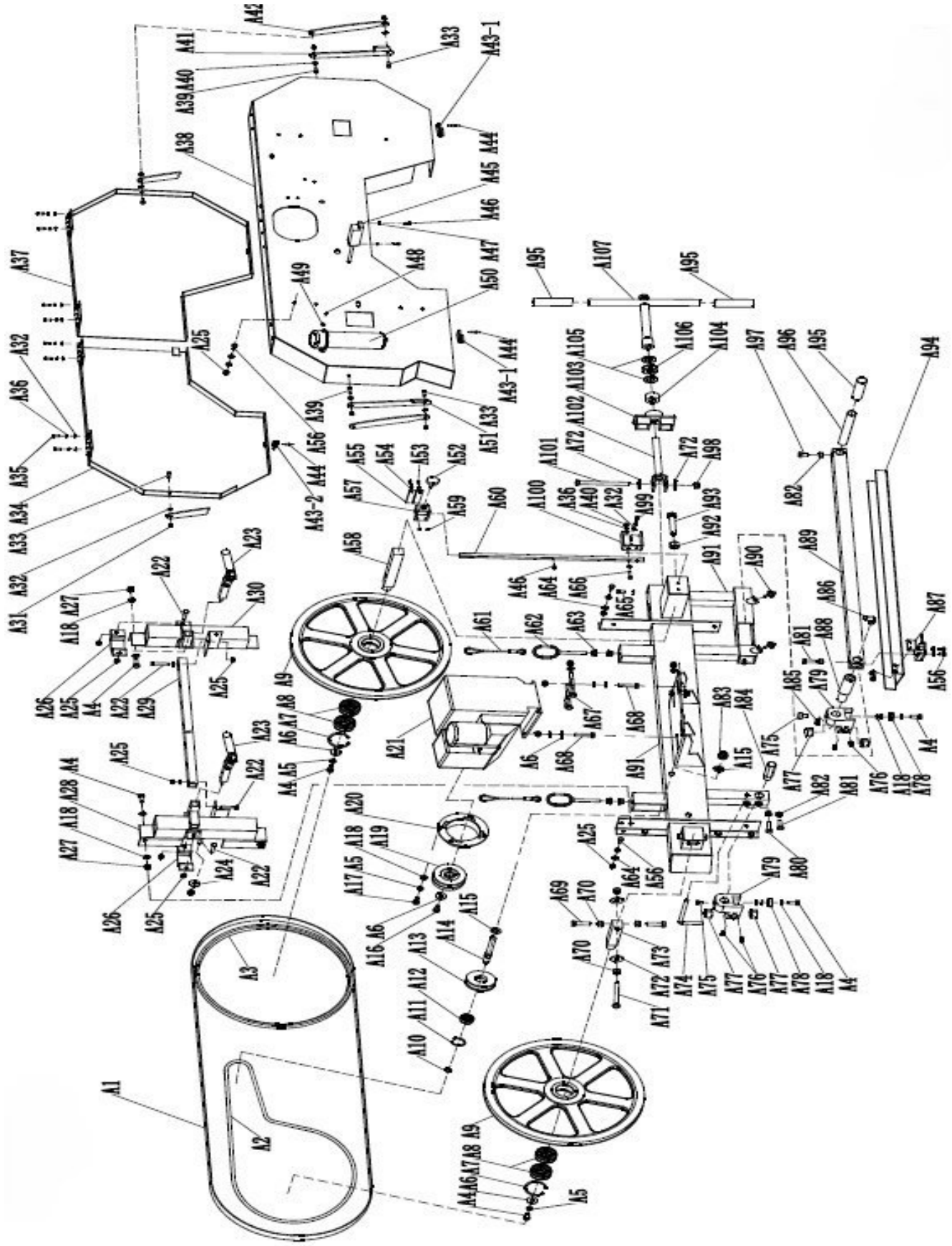


Fig.9-14: Spare parts drawing A

Spare parts drawing - HBBS 810 G - B

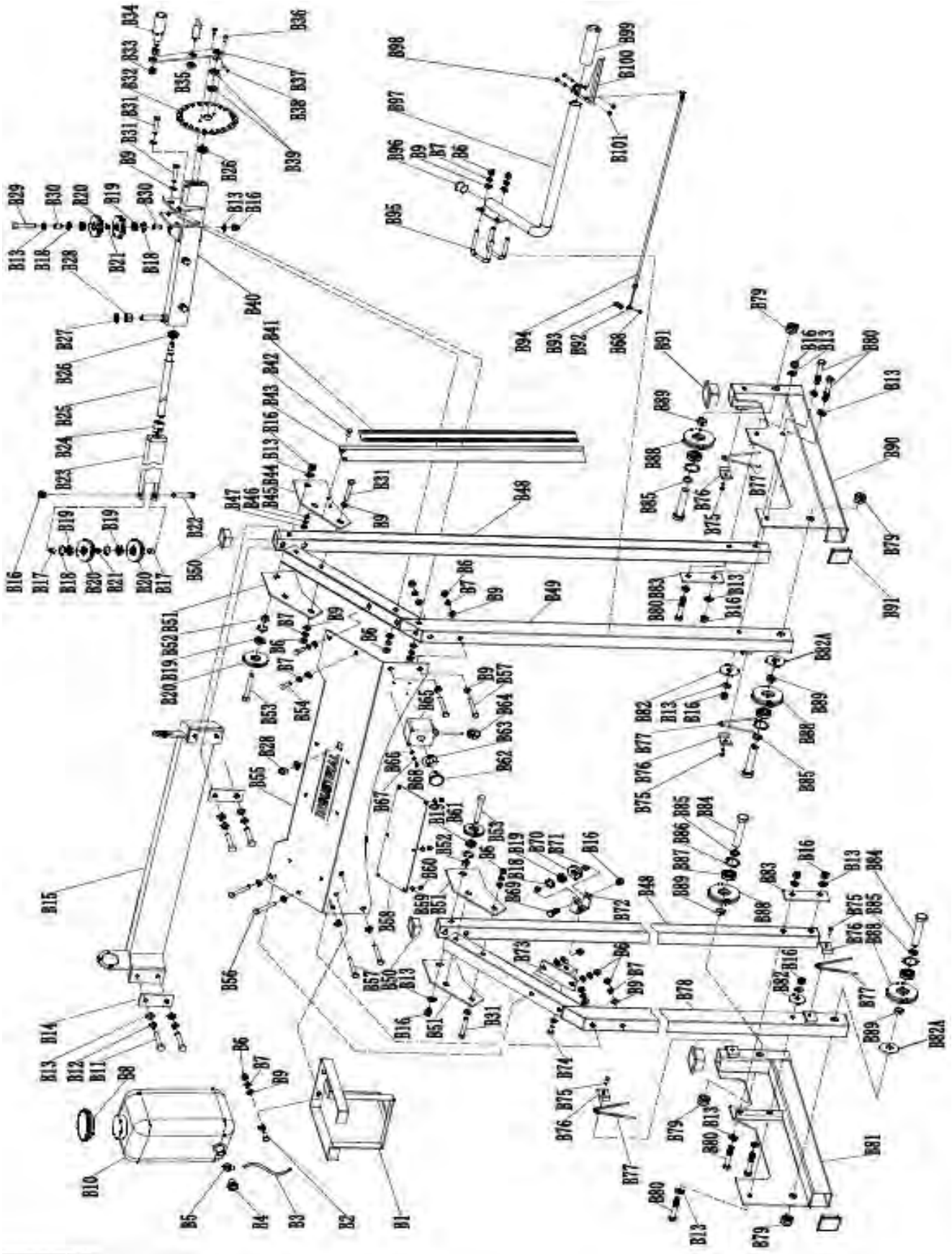


Fig.9-15: Spare parts drawing B

Spare parts drawing - HBBS 810 G - C

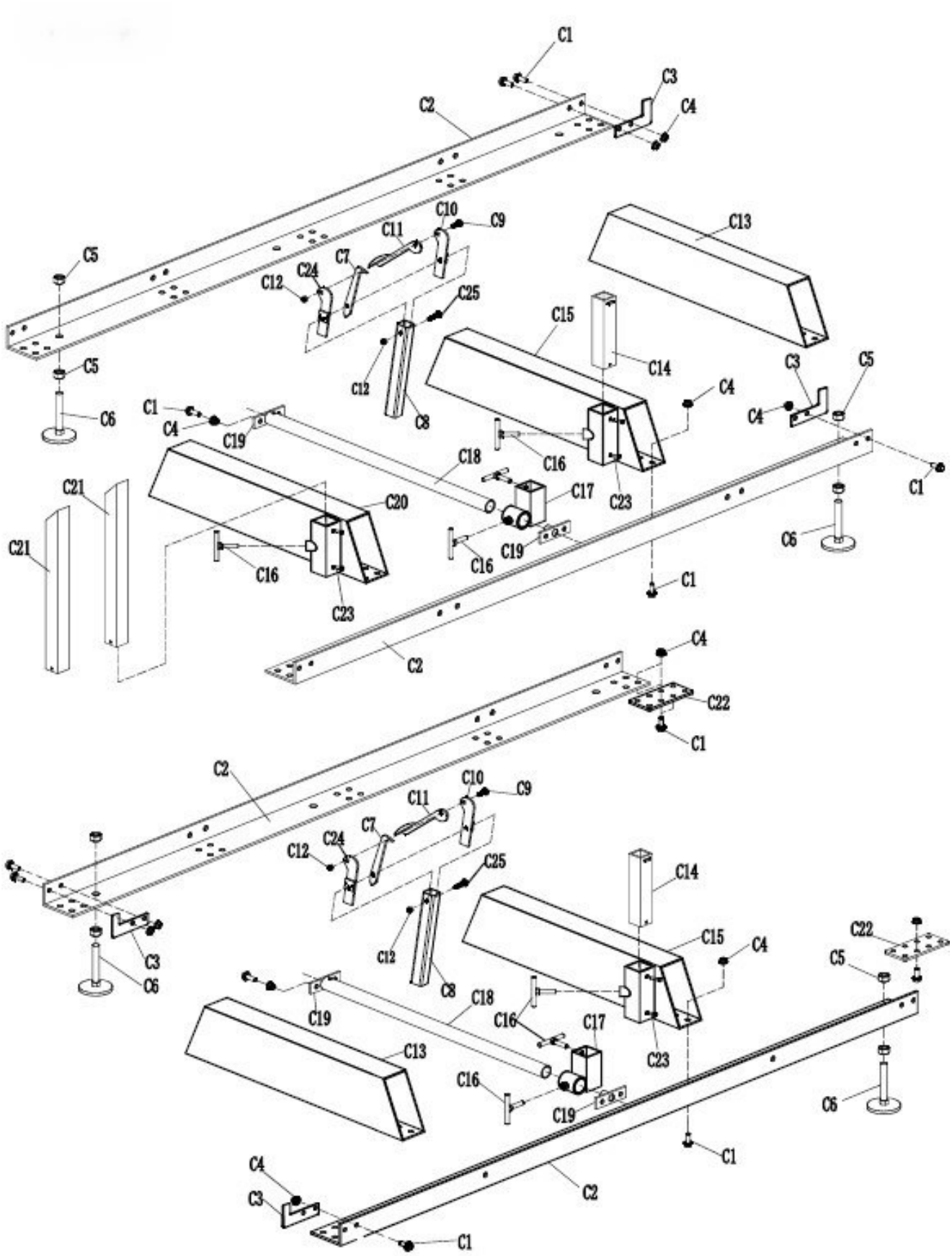


Fig.9-16: Spare parts drawing C

10 Electrical circuit diagrams

HBBS 400/230V, HBBS 400/400V, HBBS 660, HBBS 810

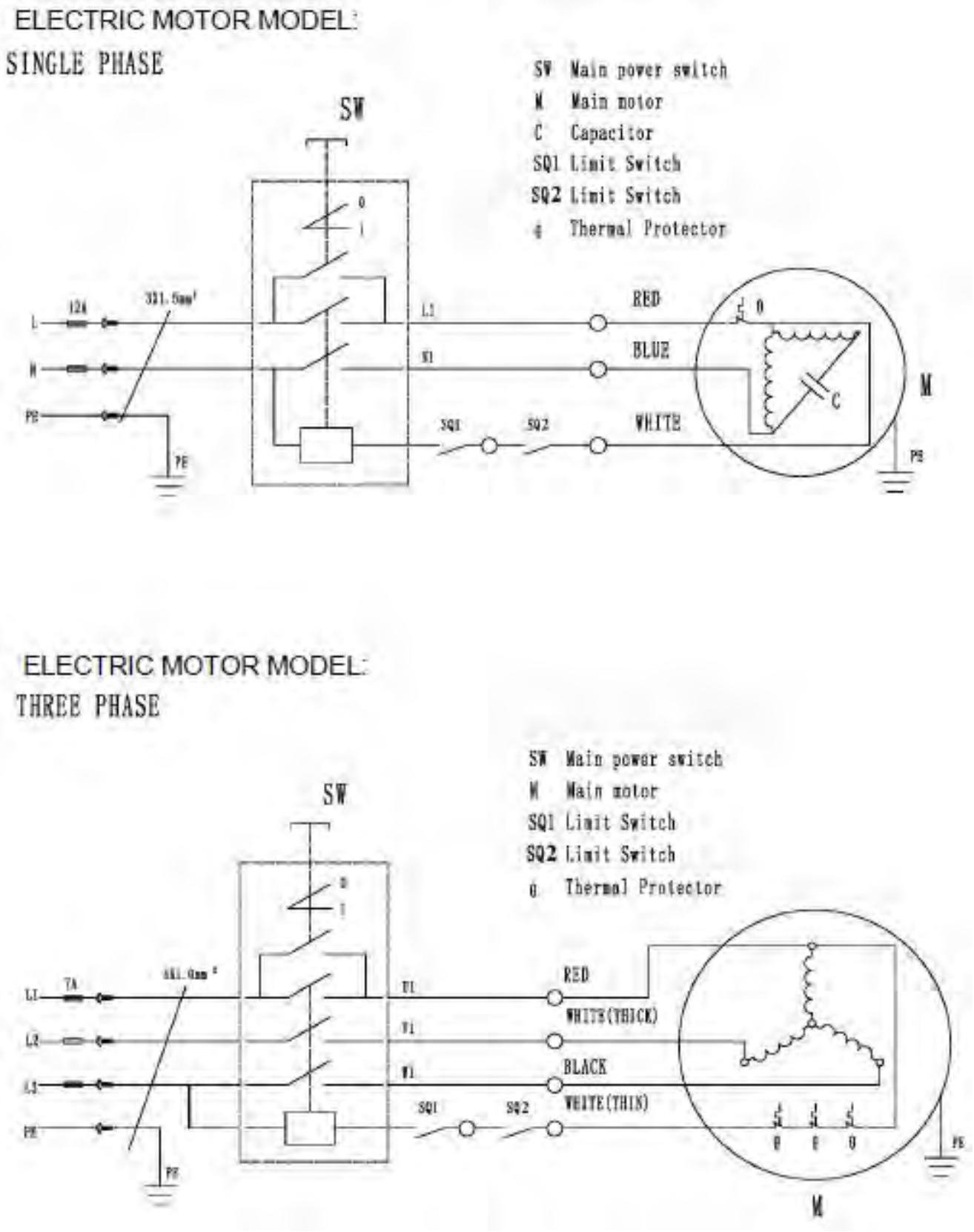


Fig.10-1: Circuit diagrams

11 EU declaration of conformity

According to Machinery Directive 2006/42/EC Annex II 1.A

Manufacturer / Distributor:	Stürmer Maschinen GmbH Dr.-Robert-Pfleger-Str. 26 D-96103 Hallstadt	
Product group:	Woodworking machines	
Type designation:	Log band saw	Article number
Product name: *	☐ HBBS 400 / 230V	☐ 5670401
	☐ HBBS 400 / 400V	☐ 5670403
	☐ HBBS 660	☐ 5670663
	☐ HBBS 660 G	☐ 5670664
	☐ HBBS 810	☐ 5670813
	☐ HBBS 810 G	☐ 5670814
Serial number: *	_____	
Year of construction: *	20_____	

* Fill in these fields according to the information on the type plate

complies with all relevant provisions of the above-mentioned Directive and the other standards applied, including any amendments thereto in force at the time of the declaration.

Relevant EU directives:	2014/30/EU	EMC Directive
	2012/19/EU	WEEE Directive
	2011/65/EU	RoHS Directive

The following harmonized standards were applied:

EN ISO 19085-2:2021	Woodworking machines - Safety - Part 2: Horizontal panel saws with pressure beam
EN 60204-1:2018	Safety of machinery - Electrical equipment of machines - Part 1: General requirements
EN 61000-3-3:2013+ A1:2019+A2:2021+AC:2022	Electromagnetic compatibility (EMC) - Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with a rated current ≤ 16A per phase not subject to special connection conditions
EN IEC 61000-3-2:2019+ A1:2021	Electromagnetic compatibility (EMC) - Part 3-2: Limits - Limits for harmonic currents (equipment input current ≤ 16 A per phase)
EN IEC 61000-3-11:2019	Electromagnetic compatibility (EMC) - Part 3-11: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems for equipment with a rated current ≤ 75 A per phase and subject to a special connection condition
EN IEC 55014-2:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar equipment - Part 2 Immunity
EN IEC 55014-1:2021	Electromagnetic compatibility - Requirements for household appliances, electric tools and similar equipment - Part 1 Emission

Name and address of the person authorized to compile the technical documentation: Kilian Stürmer, Stürmer Maschinen GmbH, Dr.-Robert-Pfleger-Str. 26, D-96103 Hallstadt

Kilian Stürmer (Managing Director) Hallstadt, 01.08.2024

CE

12 Attachment

12.1 Copyright

The contents of this manual are protected by copyright and the sole property of Stürmer Maschinen GmbH. Their use is permitted within the scope of the log band saw.
Any other use is prohibited without the written permission of the manufacturer. Distribution, reproduction, and exploitation of this document, as well as communication of its contents, are prohibited unless expressly permitted.
Violations will result in compensation for damages.
To protect our products, we register trademark, patent and design rights where possible in individual cases.
We strongly oppose any infringement of our intellectual property rights.

Technical changes reserved at any time.

12.2 Limitation of liability

All information and instructions in the operating instructions have been compiled taking into account the applicable standards and regulations, the state of the art and our many years of knowledge and experience.

In the following cases, Stürmer Maschinen GmbH assumes no liability for damages:

- Failure to follow the operating instructions,
- improper use, use of unqualified and untrained
- personnel, unauthorized modifications,
-
- Technical modifications, use of
- unauthorized spare parts.

The actual scope of delivery may differ from the explanations and illustrations described here in the case of special designs, the use of additional ordering options or due to the latest technical changes.

The obligations agreed in the supply contract, the general terms and conditions as well as the delivery conditions of the manufacturer and the legal regulations valid at the time the contract is concluded apply.

12.3 Storage

DANGER!

Incorrect or improper storage can damage or destroy components of the log band saw. Store the packaged or unpacked parts only under the specified environmental conditions.

Consult your dealer if the machine and accessories need to be stored for longer than three months and under environmental conditions other than those specified.

12.4 Disposal instructions / recycling options:

Please do not simply throw the packaging and later the used product into the environment, but dispose of both properly according to the guidelines established by your city/municipal administration or the responsible waste disposal company.

12.4.1 Decommissioning

CAUTION!

Obsolete equipment must be professionally taken out of service immediately to prevent future misuse and danger to the environment or people.

- Dispose of all environmentally hazardous operating materials from the old device.
- If necessary, disassemble the machine into manageable and recyclable components and assemblies.
- Dispose of the machine components and operating materials in the designated disposal methods.

12.4.2 Disposal of electrical equipment

Electrical devices contain a variety of recyclable materials as well as environmentally harmful components.

These components must be disposed of separately and properly. If in doubt, contact your local waste disposal service.

If necessary, the assistance of a specialised waste disposal company may be required for processing.

12.4.3 Disposal of lubricants

The lubricant manufacturer provides disposal instructions for the lubricants used. If necessary, ask for the product-specific data sheets.

12.5 Disposal via municipal collection points

Disposal of used electrical and electronic equipment (Applicable in the countries of the European Union and other European countries with a separate collection system for these devices).

The symbol on the product or its packaging indicates that this product shall not be treated as normal household waste. Instead, it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment.

By ensuring this product is disposed of correctly, you will help protect the environment and the health of others. Improper disposal of this product can harm the environment and human health. Recycling materials helps reduce the consumption of raw materials. For more information about recycling this product, please contact your local council, your household waste disposal service, or the shop where you purchased the product.

13 Product monitoring

We are obligated to monitor our products even after delivery. Please let us know

anything that might be of interest to us:

- Changed setting data.
- Experiences with the log band saw that are important for other users.
- Recurring malfunctions.

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Email: info@holzkraft.de