

INSTRUCTION MANUAL FOR USE AND MAINTENANCE

FIREWOOD PROCESSOR

RCA 400 JOY

RCA 400 JOY TG



CE

MANUFACTURER'S ADDRESS



TAJFUN®

Tajfun Planina d.o.o.

Planina pri Sevnici 41A,
3225 Planina pri Sevnici,
Slovenia

T: +386 (0)3 746 44 00

E-mail: export@tajfun.com

W: www.tajfun.com

1. INTRODUCTION	5
1.1. Warranty limitations	6
1.2. Reservations	6
2. SAFETY RULES	7
2.1. General safety rules	7
2.2. Additional safety precautions for the RCA machine	8
2.3. Safety instructions for work with the discharge conveyor	8
2.4. Safety instructions for rope pulleys	8
2.5. Noise	9
2.6. User qualification	9
2.7. Other dangers	9
2.8. Intended use	9
2.9. Incorrect use of the machine	9
3. GENERAL	10
3.1. Description	10
3.2. Main components of the machine	10
3.3. Technical data	11
3.4. Type plate	12
3.5. Labels on the machine and their meaning	13
4. CONNECTION AND SETUP	15
4.1. Connection to the tractor	15
4.2. Connection to the power supply	16
4.3. Placing the machine in working position	16
4.4. Placing the machine in transport position	17
4.5. Infeed Conveyor	17
4.6. Discharge Conveyor	18
4.7. Connecting the accessories	19
5. MACHINE START-UP	20
5.1. RCA 400 JOY operation	21

6. MACHINE OPERATION	22
6.1. Wood feeding	22
6.2. Cutting	23
6.2.1. Setting the cutting length	24
6.2.2. Sawdust discharge	24
6.3. Splitting	25
6.3.1. Setting the splitting wedge height and replacing the splitting wedge	26
6.3.2. Correct use of the splitting wedge	27
6.3.3. Protection cover with a safety switch	29
6.4. Cleaning during operation	29
7. MAINTENANCE AND SERVICING	30
7.1. Maintenance plan	30
7.2. What to do if...	31
7.3. Replacing the cutting chain	34
7.4. Tensioning the cutting chain	35
7.5. Sharpening angles of the cutting chain	35
7.6. Power Mate sprocket	35
7.7. Changing oil in the hydraulic system	36
7.8. Hydraulic system filters	36
7.9. Lubricating the multiplication gear	36
7.10. Lubricating the cutting chain	37
7.11. Oil quantity	37
7.12. Replacing the chain saw belt	38
7.12.1. Tensioning the belt	39
7.12.2. Air filter replacement and cleaning	40
7.13. Additional power outlet (12V)	41
7.14. Pressure gauges	41
7.15. Signs of improper machine use	42
7.16. Consumables	42
7.17. Ordering spare parts	42
8. LOADING AND TRANSPORT	43
8.1. Loading with a forklift	43
8.2. Loading with load belts	44
8.3. Transport with a tractor	45

1. INTRODUCTION



Dear customer,

by purchasing **firewood processor**, you have acquired a working tool that will be of great help to you at work.

The correct use and maintenance of the product greatly affect its reliability during work and during its lifetime, so we advise you **to read the instructions carefully and thoroughly** and to follow them during work.

We thank you for your trust and wish you a lot of satisfaction when working with the **FIREWOOD PROCESSOR RCA 400 JOY TAJFUN**.

In particular, follow the following basic rules:

- follow all safety instructions;
- regularly clean the machine, as dirt increases the wear of moving parts and thus the possibility of damage;
- always use lubricants of the prescribed quality;
- contamination with lubricants and oil increases the risk of an accident;
- our sales department is available for all necessary professional advice, and our service department can help you with maintenance;
- when requesting RCA 400 JOY information or ordering replacement parts, please quote the type and factory number;
- **observe the regulations and instructions for safe work!** In this way, you will protect your life and the lives of others;
- any errors must be reported as soon as they are identified;
- all documents are protected by copyright!
- documents, including individual sections, may not be distributed or reproduced!



DANGER!
Carefully observe the information about the dangers listed next to such a sign!

1.1. WARRANTY LIMITATIONS

Please read these operating instructions carefully before using the machine.



The manufacturer assumes no responsibility for damage or faults caused by not following the instructions for use!

The machine manufacturer's warranty and its responsibility cease in the following cases:

- if the machine was used in an incorrect way or was operated by a person who was not professionally qualified for this work;
- inadequate attachments and drives not supplied with the machine;
- if non-original spare parts or accessories were used;
- partial or complete non-compliance with the instructions for use;
- alterations or modifications not approved in writing by the manufacturer;
- exceptional cases.

The manufacturer is not liable for defects in consumables.

1.2. RESERVATIONS

The manufacturer reserves its right to make changes to technical specifications, pictorial material and safety standards in the attached instructions for use.

2. SAFETY RULES



To protect against the risk of injury, electric shock and fire, you must follow the following instructions when using the machine.



Read the following instructions carefully before starting work!

2.1. GENERAL SAFETY RULES

- The machine may only be used by persons who are familiar with its operation, the hazards at work and the instructions for use.
- Persons who are under the influence of alcohol, drugs or medications that affect psychophysical abilities must not operate or maintain the machine.
- Only one person can operate the machine. Make sure that no one else stays in the dangerous area of the machine (radius = 3 m)!
- Before starting work, place the machine in a stable position in accordance with the instructions for setting up the machine!
- Use P.T.O. drives of suitable power (min. 25 kW) and with an undamaged external plastic guard!
- Do not use damaged, cracked or deformed chains, sprockets and sawbars!
- All protective devices on the machine (protective nets, saw shield, covers, etc.) must be correctly installed before start-up and are not allowed to be modified or removed during operation!
- Use personal protective equipment (protective eyewear, ear muffs, gloves, protective footwear)!
- When repairing faults, changing the cutting chain, cleaning or any service intervention on the machine, it is absolutely necessary to disconnect the P.T.O. drive and switch off the power unit (tractor) or pull out the electrical plug from the mains (EP - Electric power unit)!
- Do not wear loose clothes!
- Maintain a clean and tidy work environment!
- Be careful when working! Improper use of the machine can result in severe injuries due to moving parts!
- Do not leave the machine running unattended!
- Do not reach into the moving parts of the machine during the work process!
- Before removing any jammed piece of wood, switch off the power unit of the machine or turn off the machine.
- When transporting the machine on public roads, it is necessary to attach lights to the back of the machine!
- Follow the road traffic regulations and the rules on vehicle parts and equipment of your country.
- For your safety, use only original spare parts provided by the manufacturer of the machine!
- A damaged electrical cable or plug must be replaced immediately.

2.2. ADDITIONAL SAFETY PRECAUTIONS FOR THE RCA MACHINE

- The Declaration of Conformity and Risk Assessment of the manufacturer Tajfun Planina d.o.o. includes a machine that is operated by a single person, with an adequate inspection of the entire area around the machine and covers the entire working area of the machine.
- Personal protective equipment and protective equipment, which must be used when working with the machine, are not included in the scope of delivery.
- Never reach into the working area of the chain saw, splitting cylinder and sawdust extractor fan while the machine is in operation. Also, never remove chips and other wood residues from the dangerous area during cutting, splitting and extracting when the machine is in operation.
- The machine is designed for outdoor use. If you also use the machine indoors, you must use the sawdust extractor fan that is part of the machine's standard equipment.
- You must ensure regular maintenance and cleanliness of the machine. Regularly remove sawdust and scrap wood.
- The working pressure of the hydraulic system must not exceed 240 bar.
- It is not allowed to move the firewood processor when in working position. Before any transport or relocation, put the machine in the transport position.

2.3. SAFETY INSTRUCTIONS FOR WORK WITH THE DISCHARGE CONVEYOR

- Consider the dangerous area of the machine, which is in the immediate vicinity of moving parts, as well as under the entire machine along the conveyor belt and not only at the exit part of the discharge conveyor.
- Transported material can fall out in this area.
- Never reach into the chute or touch the belt when the machine is running.
- Switch off the machine before starting to remove any stuck pieces of wood.

2.4. SAFETY INSTRUCTIONS FOR ROPE PULLEYS

- Avoid pulling the wire rope over sharp edges!
- Do not touch the wire rope with your hand during winding and unwinding!

2.5. NOISE

When working with the machine, the operator is exposed to noise measured at the operator's ear:

RCA 400 JOY	
No load	85 dB (A)
Operating	92 dB (A)

The total noise level also depends on the noise of the driving machines (tractor, electric power unit, hydro power unit, ...).

For this reason, operators must use mufflers when working with the machine.

2.6. USER QUALIFICATION

- The firewood processor can only be repaired by persons who are **qualified** for this work (**authorised maintenance service**).
- The machine may only be used by persons who are familiar with its operation, the hazards at work and the instructions for use.
- Only qualified persons over the age of 18 are allowed to work with the machine and maintain it!

2.7. OTHER DANGERS

Even if all safety precautions are taken and the machine is used in accordance with the instructions, some risks remain:

- touching rotating parts of the machine;
- injuries due to flying pieces of wood;
- burns from touching hot parts of the machine (multiplication gear);
- damage to hearing if protection is not used correctly or not at all;
- human errors (excessive physical effort, mental stress, etc.).

2.8. INTENDED USE

The firewood processor RCA 400 JOY is a machine used to make wooden log splits. It is intended exclusively for cutting wood with a diameter of 5 to 40 cm and splitting with a splitting force of up to 150 kN. The machine enables splitting wood into 2, 4, 6, 8, 12 or 16 log splits, whereby the length of the log splits is adjustable (from 25 to 50 cm).

The machine is intended for outdoor work.

2.9. INCORRECT USE OF THE MACHINE

Any other use of the machine as described in the previous section is considered improper use and is prohibited.

3.1. DESCRIPTION

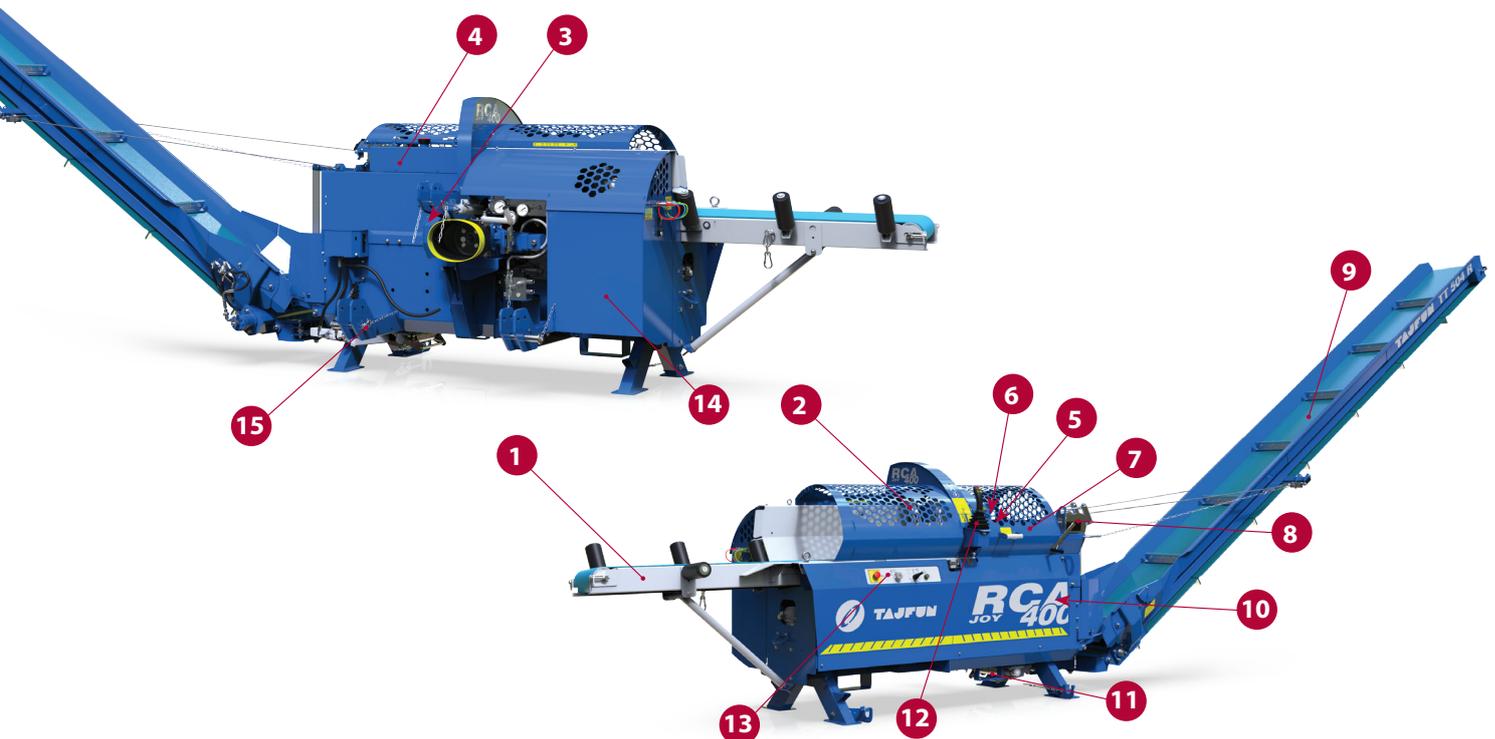
The firewood processor (RCA 400 JOY) is used to make wooden logs.

The work process takes place in the following order:

- Storage of logs on the **live deck** (accessory), which allows transverse and longitudinal feeding of logs, synchronised with the infeed belt on the machine;
- Transport of logs of maximum diameter (5 - 40 cm or 2" - 20") with an **infeed conveyor** to an adjustable length limiter that determines the cutting length (25 - 50 cm or 7.9" - 20") (See section: *Wood feeding*);
- Cutting with a **chain saw** to an adjustable length (See section: *Cutting*);
- Splitting logs. By choosing the appropriate **splitting wedge**, the size (section) of the log splits may be chosen (See section: *Splitting*);
- Transport of log splits with an adjustable **discharge conveyor** (adjustment of speed, height and transverse offset) (See section: *Discharge Conveyor*).

When using pre-split wood, the quality of the firewood will be worse, and the capacity of the machine will also be lower.

3.2. MAIN COMPONENTS OF THE MACHINE



1	Infeed Conveyor	9	Discharge Conveyor
2	Log Holder	10	Splitting Cylinder, Splitting Wedge
3	Chain saw drive	11	Wedge lifting mechanism
4	Chain lubrication oil reservoir	12	Operating handle - Joystick
5	Swinging Lap	13	Control panel
6	Length Limiter	14	Hydraulic oil reservoir
7	Machine cover with safety switch	15	Three-point hitch
8	Manual pulley		

3.3. TECHNICAL DATA

RCA 400 JOY		
Cutting length	25 - 50 cm (9.5" - 19")	
Cutting diameter	5 - 40 cm (2" - 16")	
Sawbar	17", b = 0.058" (1.5 mm)	
Chain	3/8" Oregon DuraCut™, Z = 42	
Splitting force	150 kN (≈ 15 T)	
Required Tractor Capacity	30 kW (40 HP) - Drive 60 kW (82 HP) - Discharge Conveyor	
Required tractor outlet voltage	12 V	
Electric fuse	20 A	
PTO Shaft Speed	min.: 400 min ⁻¹ (RPM)	
	max.: 430 min ⁻¹ (RPM)	
Max. splitting pressure	240 bar	
Volume of oil in reservoir	100 l (25 gal)	
Chain lubrication oil reservoir volume	8 l (2 gal)	
Operating noise level (max.)	92 dB (A)	
Weight	RCA 400 JOY	920 kg (2028 lbs)
	RCA 400 JOY TG	950 kg (2094 lbs)

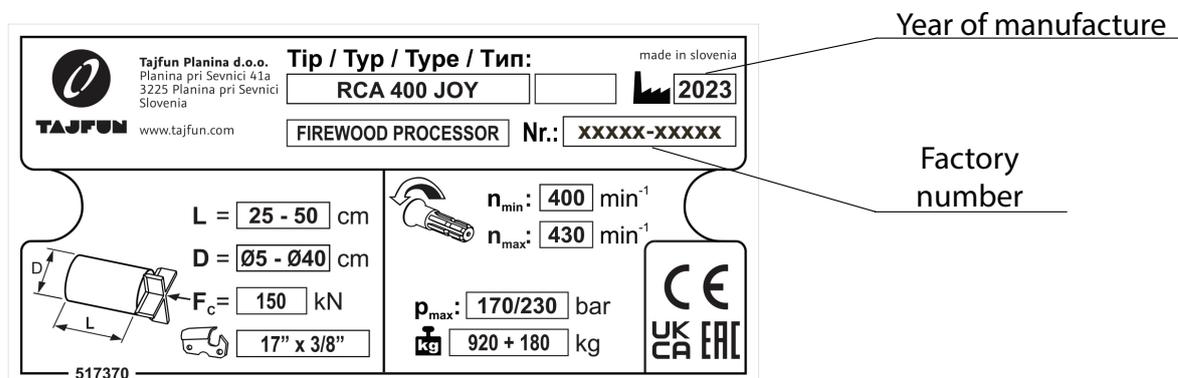
Discharge Conveyor TT 404 / TT 404 R	
Discharge conveyor length	4000 mm (13')
Conveyor belt width	430 mm (17")
Maximum speed	0.8 m/s (31.5"/s)
Weight	TT 404 - 175 kg (386 lbs)
	TT 404 R - 180 kg (397 lbs)

Discharge Conveyor TT 504 / TT 504 R	
Discharge conveyor length	5000 mm (16.5')
Conveyor belt width	430 mm (17")
Maximum speed	0.8 m/s (31.5"/s)
Weight	TT 504 - 200 kg (441 lbs)
	TT 504 R - 210 kg (463 lbs)

Dimensions				
	RCA 400 JOY + TT 404, TT 404 R / TG		RCA 400 JOY + TT 504, TT 504 R / TG	
	Working Position (incline 45°)	Transport Position	Working Position (incline 45°)	Transport Position
Width	6100 mm (240")	2350 mm (92,5")	6930 mm (272,8")	2350 mm (92,5")
Length	1400 mm (55")	1400 mm (55")	1400 mm (55")	1400 mm (55")
Height	3150 mm (124")	2480 mm (97,6")	3800 mm (149,6")	2768 mm (109")

3.4. TYPE PLATE

The **type plate** contains information about the product and the manufacturer and is attached to the machine body.



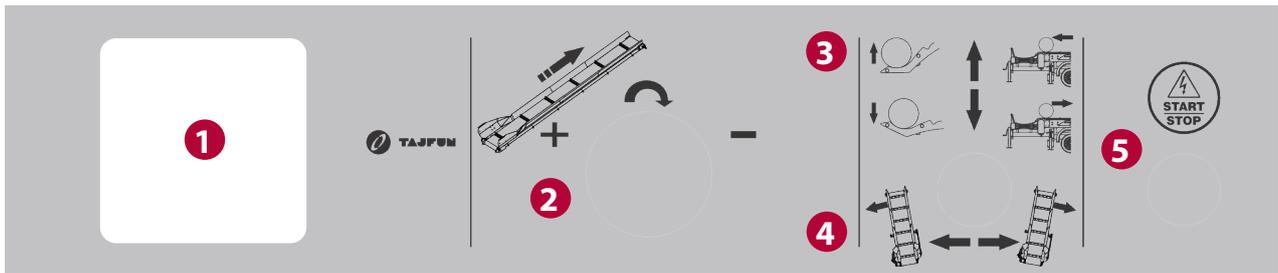
When ordering spare parts, always state the type and complete factory number of the machine! In this way, you will receive exactly those parts that belong to your version of the machine.



With the CE mark the manufacturer declares that the machine meets all essential safety and health requirements.

The manufacturer has also issued the prescribed **Declaration of Conformity** for this machine.

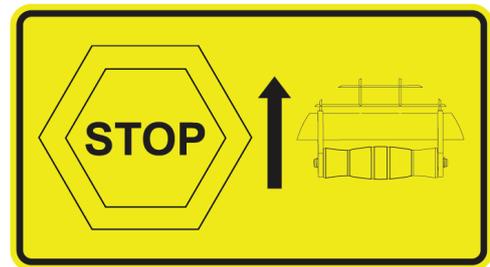
3.5. LABELS ON THE MACHINE AND THEIR MEANING



Control panel:

1. Safety STOP switch - EMERGENCY STOP;
2. Setting the belt speed;
3. Operating a ramp or log loader;
4. Moving the discharge conveyor left-right (TG model);
5. Turning the el. system off/on - start/stop switch.

Automatic machine stop when the cover is raised.



Dangerous area of the machine.

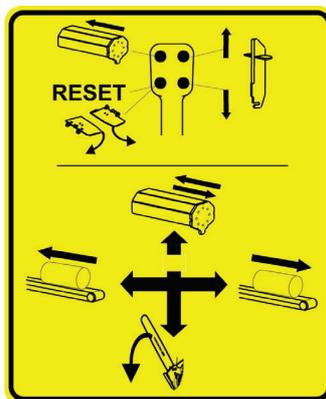
The dangerous area extends 3 m around the machine.



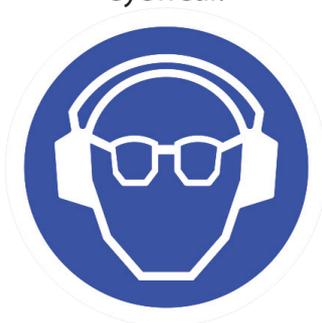
Mandatory use of protective gloves.



Functions of the control handle - Joystick



Mandatory use of mufflers and protective eyewear.



Be sure to read the instructions for use.



Mandatory use of protective footwear.



Hydraulic oil reservoir.



Chain saw lubrication oil reservoir.



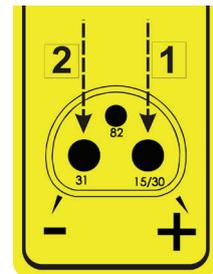
Display of the remaining length of the log on the feeder.



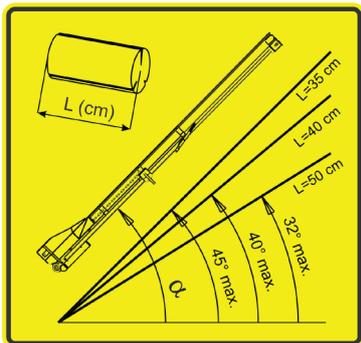
Display of the cutting length setting.



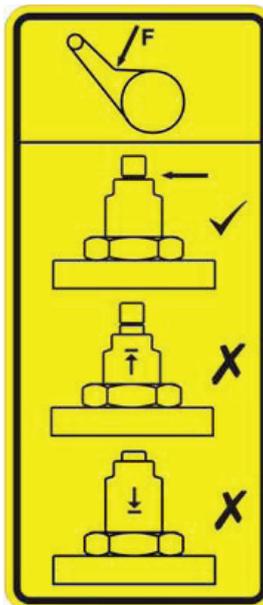
Polarity of the 3-pin connector.



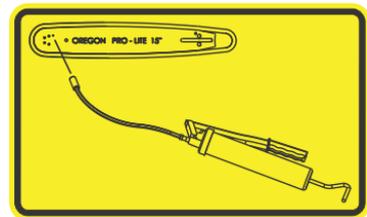
Maximum permissible tilt of the discharge conveyor relative to the length of the log splits.



Display of correct belt tension.



Lubricating the chain saw sawbar.



Direction of movement of the drive belt.



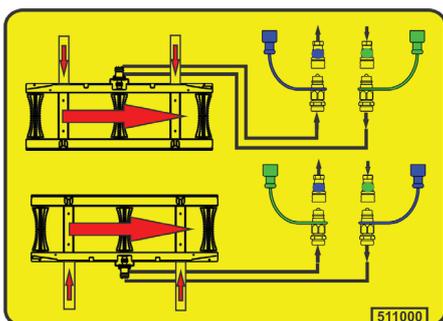
Danger of contact with the cutting chain.



Setting the intensity of lubrication of the cutting chain.



Display of the connection of the hydraulic hoses of the ramp according to its layout.



Correct direction of rotation of the P.T.O. shaft. Permissible RPM range.



4. CONNECTION AND SETUP



4.1. CONNECTION TO THE TRACTOR

Attach the firewood processor to the three-point tractor system using bolts. The lower lift arms of the tractor must be fixed with tensioning screws in such a way that they prevent the machine from moving transversely. When transporting the machine, consider the weight of the entire machine (See section: *Technical data*). Connect the P.T.O. to the P.T.O. shaft and secure it with a safety chain. Connect the power cable of the machine to the 12 V socket on the tractor (See section: *Connection to the power supply*).

When installing for the first time, also check the length of the P.T.O.

Check the length of the P.T.O. by raising and lowering the machine to find the position with the shortest distance between the connecting shafts. In this position, the tubes should be approximately 20 mm shorter with the P.T.O. installed.

If the P.T.O. is too long, it is necessary to shorten it:

- Saw off the steel and plastic tubes at both ends to the same length. Then, file the edges, clean and lubricate.

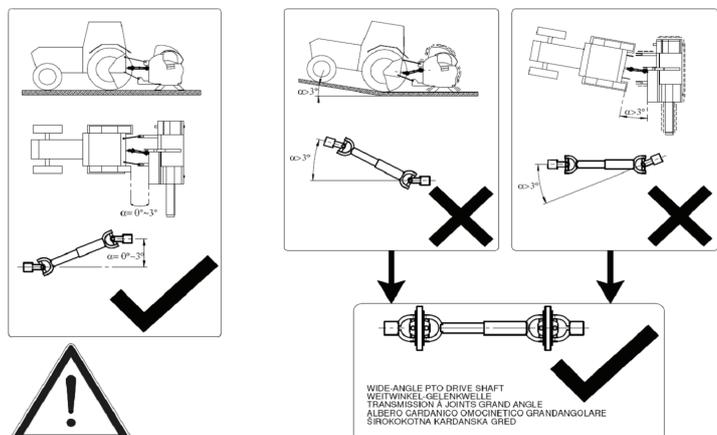


Do not use a P.T.O. with a clutch.

When using our machines, we recommend Tajfun P.T.O.s:

Name	Dimensions	Compatibility
C Line-T 6BR + KK560 P.T.O.	1 3/8" Z6 – 1 3/8" Z6; LKK = 560	EP 12 (RCA 330 JOY, RCA 380, RCA 400 JOY, RCA 480 JOY, RCA PRO 500)
C Line-T4 DZ DZ BR + KK510 P.T.O.	1 3/8" Z6 – 2X; LKK = 510	RCA 330 JOY, RCA 380, RCA 400 JOY, RCA 480 JOY, RCA PRO 500

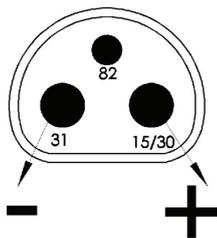
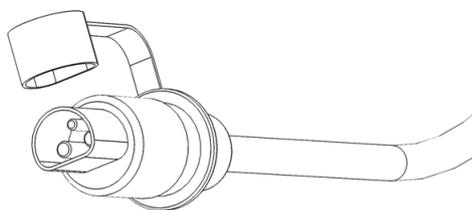
The output shaft of the power unit and the input shaft on the machine must be as parallel as possible! If they are at an angle, due to the geometry of the P.T.O. shaft, the rotation is transmitted unevenly and vibrations are created as a result. If this cannot be ensured, it is necessary to use a P.T.O. shaft with wide-angle joints on both sides, which is the only one that ensures uniform rotation at different angles.



- The P.T.O. (spline shaft 13/8!" Z6 – DIN 9611A) must correspond to the required drive power of the machine (*See section: Technical data*).
- The P.T.O. shaft on the tractor must rotate clockwise (looking towards the tractor). If you are working with an EP (Electric power unit), the shaft must also rotate clockwise.
- **Recommended P.T.O. shaft speed: 420 min⁻¹**; maximum: 430 min⁻¹; minimum: 400 min⁻¹.
- With the machine disconnected, install the P.T.O. on the P.T.O. Shaft holder.



4.2. CONNECTION TO THE POWER SUPPLY



Connect the 3-pin plug to the power supply on the tractor or EP unit (accessory).

The power source must have a voltage of 12 V and current protection with 20 A fuses, otherwise the electrical system may malfunction. From the source of power, the minimum cross-section of each wire must be at least 5 mm².

Always disconnect the power cable after finishing work, otherwise the battery on the power unit may be discharged.

4.3. PLACING THE MACHINE IN WORKING POSITION

- Place the firewood processor on a level and solid surface;
- place the infeed conveyor in its working position (*See section: Infeed Conveyor*);
- place the discharge conveyor in its working position (*See section: Discharge Conveyor*).

It is not allowed to move the firewood processor when in working position. Before any transport or relocation, put the machine in the transport position.



4.4. PLACING THE MACHINE IN TRANSPORT POSITION

- Lift the infeed conveyor in its transport position (See section: *Infeed Conveyor*);
- lift the discharge conveyor in its transport position (See section: *Discharge Conveyor*).



4.5. INFEEED CONVEYOR

The infeed conveyor must be placed in a horizontal working position before starting work:

- Remove the safety pin;
- Remove the support limiter;
- Lower the infeed conveyor to a horizontal position and support it with a support leg;
- Adjust the support leg so that the infeed belt is slightly raised in the middle (it is already set at the factory).



4.6. DISCHARGE CONVEYOR

Before starting work, place the discharge conveyor in its working position. Raise and lower the discharge conveyor with the help of a hand winch, and secure it at the desired height with a supporting chain so that the weight of the discharge conveyor is distributed between the wire rope and the supporting chain.

The discharge conveyor can also be moved from the centre position by 15° to the left or right with the operating handle of the accessory (TG model only).

When using and maintaining the hand winch, follow the manufacturer's instructions, which you received together with these instructions.



Placing the discharge conveyor in its working position:

- Using a hand winch, lower the discharge conveyor to the desired incline (max. 45°) and secure it with a chain.
- Turn on the machine.

Discharge Conveyor TT 404 and TT 504

- Close the valve completely and press and hold the yellow button on the machine's control handle - joystick until the discharge conveyor is fully extended.

Discharge Conveyor TT 404 R, TT 504 R

- Turn the valve in the placement position and press and hold the yellow button on the machine's control handle - joystick until the discharge conveyor is fully extended.

Placing the discharge conveyor in its transport position:

- Placing the discharge conveyor in its transport position.

Discharge Conveyor TT 404 and TT 504

- Open the valve. The discharge conveyor folds under its own weight.

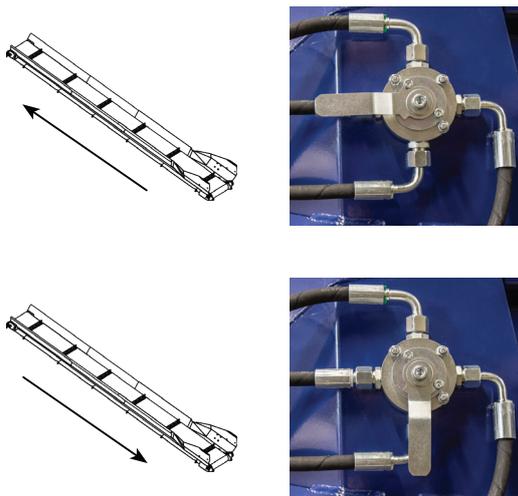
Discharge Conveyor TT 404 R, TT 504 R

- Turn the valve in the folding position and press and hold the yellow button on the machine's control handle - joystick until the discharge conveyor is fully folded.

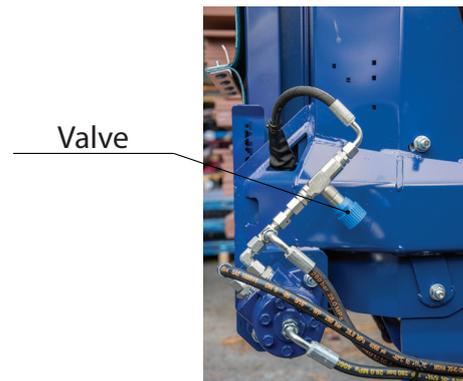
The discharge conveyor belt speed is adjusted with the discharge conveyor belt speed regulator.

After each change of the inclination of the discharge conveyor, it is necessary to secure the discharge conveyor with a chain and then loosen the wire rope of the hand winch a little, so that the weight is distributed between the chain and the wire rope!

Discharge Conveyor TT 404 R, TT 504 R



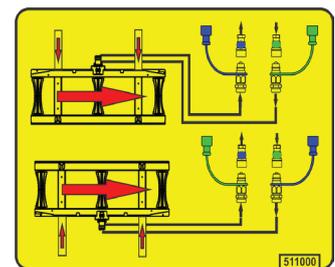
Discharge Conveyor TT 404 and TT 504



4.7. CONNECTING THE ACCESSORIES



Connect the hydraulic hoses (live decks or log loaders) with quick couplings to the couplings on the machine. A sticker and coloured covers of the couplings are helpful for correct connection.



If you do not use a log loader, the use of connection hoses is mandatory. Otherwise, the machine will not work properly!

5. MACHINE START-UP



Before each start-up of the machine, a visual inspection of the machine must be carried out. Check for:

- Tension and sharpness of the cutting chain;
- Amount of hydraulic oil and oil for lubricating the cutting chain;
- Correct installation of all safety pins;
- The cleanliness of the machine (*See section: Cleaning during operation*);
- Damaged tubes or cables (scratched, pressed, etc.);
- Mechanical damage on the machine;
- Regular maintenance of the machine according to the maintenance plan;
- Firmly tightened screws and nuts.

Machine start-up:

- Set the manual throttle lever on the tractor to minimum;
- lift the cover of the machine and disable the operation of all the main functions of the machine;
- turn on the P.T.O. shaft drive;
- the required RPM of the P.T.O. shaft (420 min^{-1}) can be achieved by manually opening the throttle;
- the safety STOP switch must be turned off;
- turn on/press the Start/Stop button located on the control panel;
- lower the protective cover;
- press the green RESET key (Joystick).

Before starting work, it is necessary to check the operation of the safety devices and perform a function test of the machine:

- Check the faultlessness of the machine and equipment and the lubrication of the cutting chain;
- Check the operation of the safety STOP switch (EMERGENCY STOP);
- Check the operation of the safety switch on the protective cover;
- Check that all the functions of the machine are working (*See section: RCA 400 JOY operation*).



**If faults are found during the inspection,
they must be corrected before starting work!**

At outside temperatures below 0°C , let the machine idle for about **5 minutes** to warm up the hydraulic system to operating temperature (hydraulic hoses warm to the touch).



**Only one person can operate the machine!
Make sure that no one else is near the machine.**

5.1. RCA 400 JOY OPERATION

TURNING ON OPERATION

The protective cover of the machine must be closed. Press the Start/Stop button located behind the operating handle and hold it for about 3 seconds. Then press the green button (RESET) on the control handle - joystick. The safety STOP switch must be turned off.

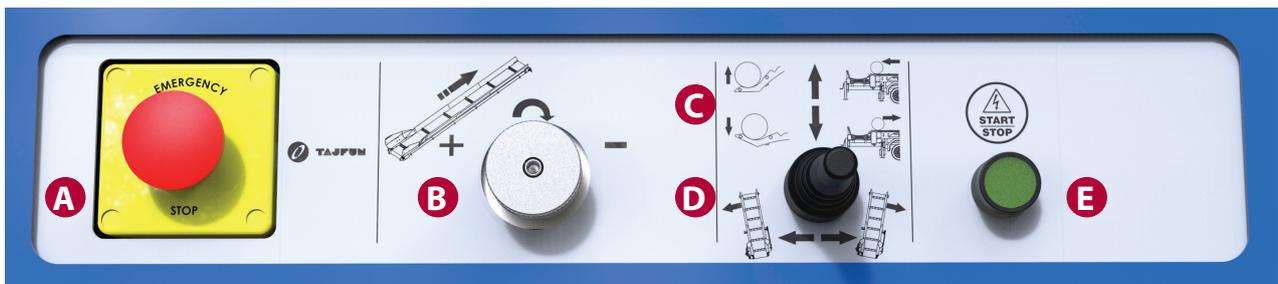
Control handle (Joystick)

The control handle (joystick) has the following functions:

- Left / right -> move the infeed conveyor left / right;
- Back -> cutting (2 phases: first fixing the log and starting the cutting chain, then moving the saw);
- Forward -> splitting (short push of the handle forward, do NOT hold it there).

Buttons on the control handle - joystick:

- Yellow buttons -> move the wedge up / down;
-> turn on/off the additional electrical output (e.g.: LED light) by simultaneously pressing both yellow buttons (5 seconds);
- Red button -> return the splitting cylinder back from any position;
- Green button -> RESET function, manually open the swinging laps. After each shutdown of the machine (lifting the cover, STOP switch), it is necessary to press RESET to re-establish the control functions.



Control panel:

- A** -> Safety STOP switch - "EMERGENCY STOP";
- B** -> Discharge conveyor belt speed regulator;
- C** -> Live deck (discharge conveyor chain), log loader;
- D** -> Moving the discharge conveyor left or right, 15° to each side (TG model only);
- E** -> Turning on/off power supply.

6. MACHINE OPERATION



6.1. WOOD FEEDING

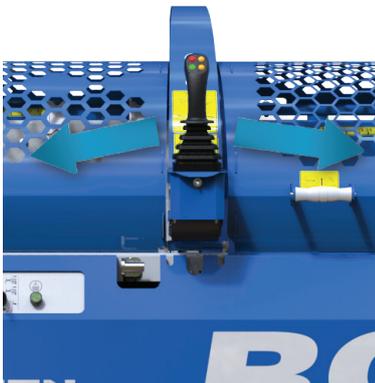
The infeed conveyor needs to be placed in a horizontal working position before starting work:

Feeding is activated by pushing the control handle - joystick to the right, and feeding can also be stopped at will (when the log reaches the length limiter) by returning the handle to the neutral position. By pushing the control handle - joystick to the left, feeding in the opposite direction is activated.



Attention! If feeding is still active even after the log has already reached the length limiter, the infeed belt slides and can be damaged!

During feeding, both swinging laps rise and remain in position until the cutting phase is complete or until the green RESET button is pressed.
Also, the length limiter moves closer during feeding.



6.2. CUTTING

The chain saw is in motion only during cutting, otherwise it is stationary and located in the starting position.

Switch on the cutting process by moving the control handle - joystick back. The cutting process involves 2 stages. In the first stage, you fix the log with the holder and turn on the power unit to rotate the cutting chain, and in the second stage, the movement of the sawbar begins. During the cutting process, the handle must be kept in the "back" position, otherwise the sawbar will return to its starting position.

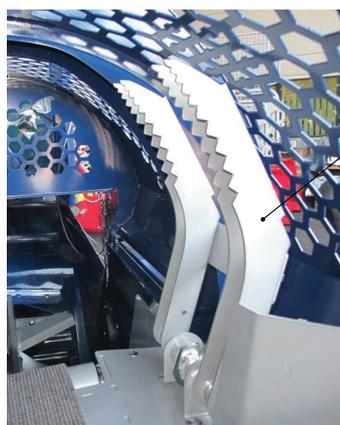
There are two inductive switches on the cylinder for moving the sawbar. Switch 1 (the cylinder is retracted) prevents the infeed belt from moving when the sawbar is out of its starting position. Switch 2 opens the swinging laps and returns the sawbar to its original position.

The force with which the cylinder pushes the sawbar is set at the factory with pressure and is not allowed to be changed. The speed of the sawbar movement is also fixed. The cutting speed varies depending on the sharpness of the cutting chain and the type or thickness of the wood.

Before cutting, always check the sharpness and operation of the automatic chain tensioner, as well as the amount of lubricating oil!

The wood must not move during cutting, and be especially careful with the last piece, so that both holders grip it well. Moving the wood during cutting leads to damage to the sawbar and chain!

The swinging laps ensure a better fall of the cut log rounds into the splitting chute and are in a horizontal position during cutting. They open, when the sawbar is in the lower position. They can be opened at any time by pressing the green button on the control handle - joystick. This is especially useful for curved wood, which leans against the lap during cutting and thus presses laterally on the sawbar, which hinders cutting.

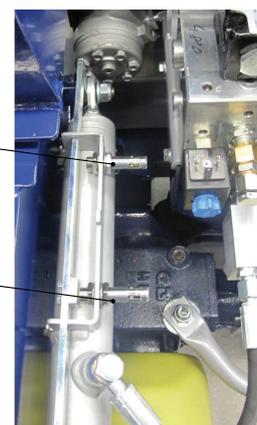


Log Holder



Inductive switch 2

Inductive switch 1



Regularly clean and, if necessary, replace the filter on the saw drive. A dirty filter prevents the ingress of air for cooling the drive parts and shortens their service life.

6.2.1. SETTING THE CUTTING LENGTH

Length Limiter



The length of the log splits may be adjusted by using the position of the length limiter, which is fixed in the desired position with a screw.

6.2.2. SAWDUST DISCHARGE

The RCA 400 JOY has a canal for sawdust discharge where you can connect an extraction unit for extracting wood chips and sawdust (XE).

Canal for sawdust discharge



The firewood processor can also be used indoors, but only if you have the sawdust extractor fan connected and switched on.

6.3. SPLITTING

Splitting is carried out using a splitting cylinder that presses the log round against the splitting wedge. The splitting speed depends on the resistance of the wood and changes during splitting. Since the splitting speed is inversely proportional to the splitting force, the splitting cylinder allows a higher splitting force at a lower speed and a lower force at a higher splitting speed. Required speed or the splitting force is automatically selected by the cylinder, which results in a very good utilisation of the energy used.

Switch on the splitting cylinder by briefly pushing the control handle - joystick forward. **Do not hold the handle in this position!** The cylinder will automatically travel back and forth. The cylinder is returned by an adjustable switch under the cover of the machine.

Before each splitting operation, make sure that the splitting is in the correct position in the splitting chute!

The cylinder can be returned at any time by pressing the red button on the control handle - joystick, lifting the protective cover or pressing the safety STOP switch.

It can happen that the sawn piece falls to the side when it falls into the splitting chute. In that case, you must first open the protective cover and straighten the side lying piece before starting the splitting operation. The pieces that have been sawn at an angle (especially the rear pieces) are also dangerous. These pieces often stand up during splitting, which can lead to damage to the machine.

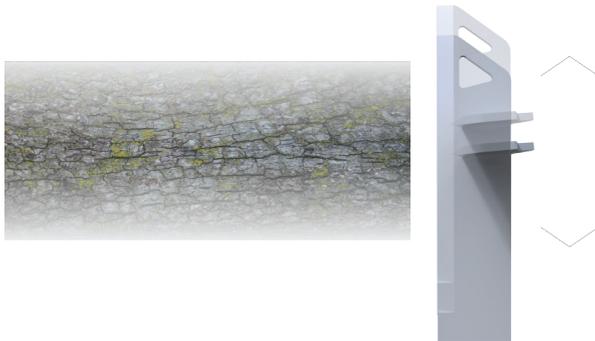


6.3.1. SETTING THE SPLITTING WEDGE HEIGHT AND REPLACING THE SPLITTING WEDGE

The splitting wedge can be raised or lowered by pressing the yellow buttons on the control handle - joystick. In this way, you centre the splitting wedge in the centre of the log round and enable the optimal size of the log splits.

The easiest way to raise or lower the wedge is when the chute is empty or when the splitting cylinder starts to move.

The lifting mechanism of the splitting wedge also allows partial height movements of the wedge during splitting. If wood gets stuck under the wedge, it must be removed to avoid damage to the lifting mechanism.



Replace the splitting wedge by:

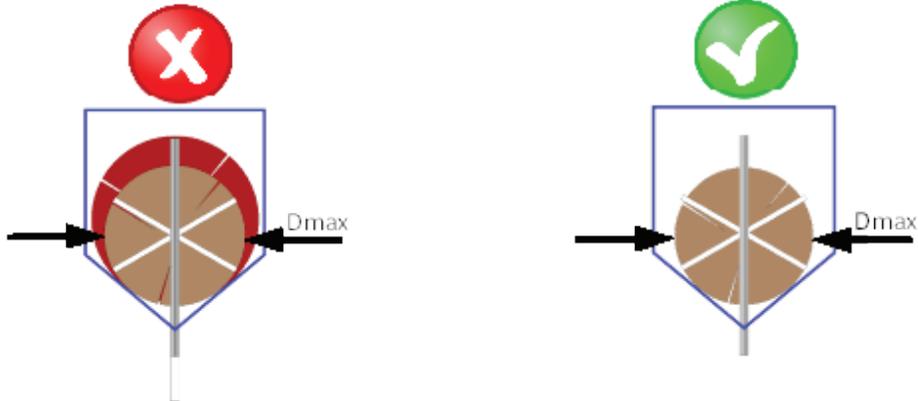
- Clean the space under the blades;
- hold the yellow button for lowering the splitting wedge until the lifting mechanism is lowered to the lowest position;
- pull the wedge out and replace it with another.



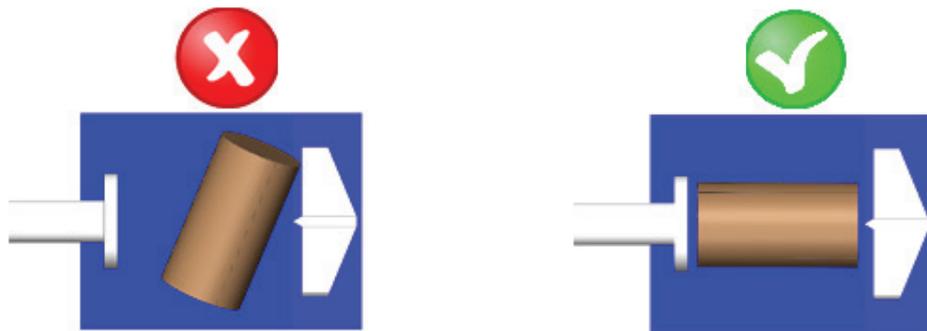
6.3.2. CORRECT USE OF THE SPLITTING WEDGE

In order for your splitting wedge to have a long service life, follow these instructions:

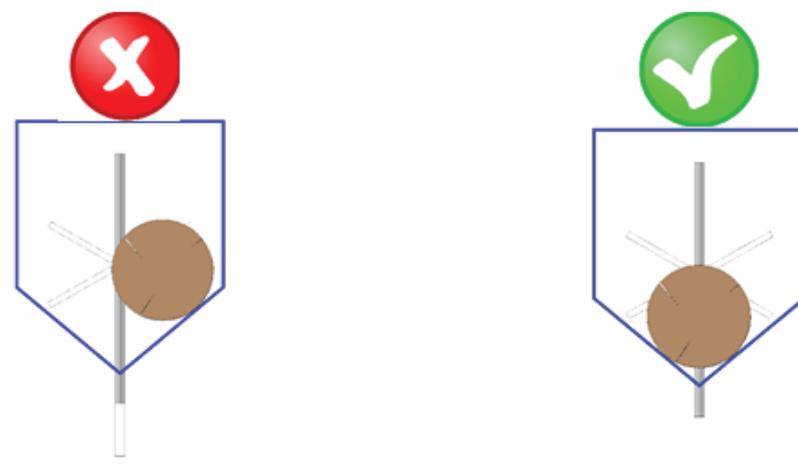
1. The splitting wedge is intended exclusively for splitting wood up to the maximum diameter listed on your RCA machine.



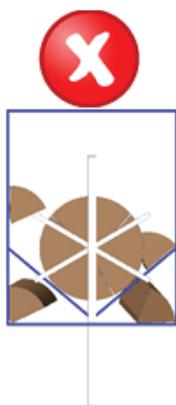
2. The log round in the splitting chute must always be oriented longitudinally towards the splitting wedge. This prevents unnecessary overload and downtime.



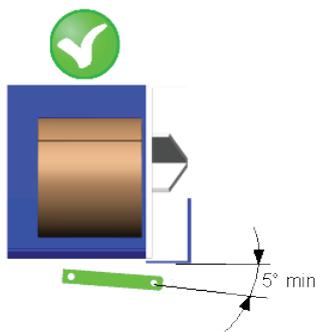
3. The log round in the splitting chute must always be centred on the vertical blade of the splitting wedge. This prevents overloading of the side blades of the splitting wedge.



4. Make sure that the splitting chute and the splitting wedge are always easily accessible. Remove any remaining wood that has become stuck.



5. Adjust the height of the splitting wedge slightly less than the mechanism allows. This allows the splitting wedge to still "breathe" during splitting and does not strain the mechanism and the lower blades of the wedge.



Failure to follow the instructions may result in mechanical damage to the wedge and the machine, which are not subject to complaints.

6.3.3. PROTECTION COVER WITH A SAFETY SWITCH

In the event that disruptions while splitting occur, the splitting process must be stopped immediately.

The cover of the machine is connected to a safety switch, which means that when the cover is raised, all the main functions of the machine stop instantly: feeding stops, and the splitting cylinder and the saw return to the starting position when the cover is raised. The machine cover thus simultaneously functions as the main safety switch.

Only when the machine cover is open and the machine is stopped can manual intervention be performed on the splitting. Also, cutting and splitting cannot continue until the machine cover is closed and the safety switch is on. To restore all functions, it is necessary to press the green RESET button on the control handle - joystick.



6.4. CLEANING DURING OPERATION



During operation, large piles of sawdust and wood residues form in some areas, which must be removed regularly:

1. Debris under the machine. If you do not clean, sawdust can fill the parts behind the splitting cylinder, preventing it from returning to its starting position. High idle pressure and overheating occur.
2. Debris under the discharge conveyor drive roller can damage the belt.
3. The sawdust ejected by the chain saw must be removed continuously so that it does not fill the canal for sawdust discharge (in case of working without a sawdust extractor fan).
4. Clean the splitting chute (wood scraps and other pieces).

7. MAINTENANCE AND SERVICING



Regular maintenance of the machine is a condition for reliable operation and a long service life of the machine.

Interventions on the electrical wiring may only be carried out by a qualified electrician.

7.1. MAINTENANCE PLAN

During service and maintenance works, the machine must be turned off and the P.T.O. must be disconnected from the power unit!

WHAT?		WHEN?	HOW?
Check the tension of the cutting chain		Before each use	See section: <i>Tensioning the cutting chain</i>
Check the tension of the saw belt		After every 50 hours of operation	See section: <i>Tensioning the belt</i>
Tighten all the loose screws and nuts and hydraulic connections		<ul style="list-style-type: none"> • After the first hour of operation • After every 100 hours of operation 	Using a tool
Check the quantity of oil	Hydraulic oil reservoir	Before each use	Visually
	Multiplication gear	At least once a week	See section: <i>Oil quantity</i>
	Chain lubrication oil reservoir	Before each use	
Changing oil in the hydraulic system		After 5000 hours of operation or every 2 years	See section: <i>Changing oil in the hydraulic system</i>
Changing the return oil filter cartridge		After the first 200 hours of operation Then every 1000 hours of operation When changing oil or if the filter pressure gauge indicator is in the red range	Replace the cartridge.
Clean the pressure oil filter cartridge		Every 1000 hours of operation	Using gasoline for cleaning
Changing oil in the multiplication gear		<ul style="list-style-type: none"> • After the first 50 hours of operation • Then every 1000 hours • When changing bearings in the multiplication gear 	At the lowest plug of the housing, drain the oil into a suitable container and return the plug. Fill in new oil at the upper plug.
Air filter cleaning and replacement At the saw drive		<ul style="list-style-type: none"> • Cleaning the filter daily • Replacing the filter every 6 months 	See section: <i>Air filter replacement and cleaning</i>



WHAT?	WHEN?	HOW?
Lubrication		
Lubrication point: a, b, c,	At least every 80 hours of operation	Lithium grease

7.2. WHAT TO DO IF...

FAULT	POSSIBLE CAUSES	FAULT ELIMINATION
The machine does not react to movements of the control handle - joystick or other operating handles.	The power supply cable is not connected.	Connect the cable to the tractor socket.
	The power-supply cable is connected; however, there is no voltage at the socket or the polarity is not correct.	Turn on the lights on the tractor, check the fuses (on the machine fuse box and on the tractor), check the polarity.
	The RESET key was not pressed.	Before each start-up or after opening the protective cover, it is necessary to restore the functions by pressing the RESET key.
The machine shakes violently.	Incorrect position of the tractor in relation to the machine causes vibrations on the P.T.O. shaft.	Reconnect the tractor and machine according to the instructions.
	Worn-out P.T.O. shaft.	Check the P.T.O. shaft and replace it, if necessary.
The machine gets very hot.	Low oil in the reservoir.	Add oil of adequate quality.
	Clogged return oil filter, filter pressure gauge is in the red range with warm oil.	Replace the return filter cartridge.
	Excessive P.T.O. shaft speed results in increased flow and greater losses that heat the oil.	Check the rotation speed of the P.T.O. shaft, which should be between 400 and 430 rpm.
	The splitting roller cannot return completely to its starting position because too much sawdust and wood particles have accumulated behind it, which is also seen in the increase in pressure when the machine is idling.	Remove the splitting roller cover and clean the residue. As you work further, regularly clean under the machine.
	Heating and a large loss of splitting force can be the cause of internal leakage of the splitting roller.	A service check is required.
None of the hydraulic components work and the lights on the valves come on when you move the control handle - joystick.	Interrupted connection between multiplication gear and hydraulic pump.	Replace the gear that connects the multiplication gear and the pump (service).

FAULT	POSSIBLE CAUSES	FAULT ELIMINATION
The machine is too loud.	P.T.O. shaft speed is too high.	Check the rotation speed of the P.T.O. shaft, which should be between 400 and 430 rpm.
	Low oil in the multiplication gear.	Check the oil level and add oil, if necessary.
	P.T.O. shaft with built-in clutch produces noise.	We do not recommend using a P.T.O. shaft with built-in clutch, since it causes damage to the drive parts. Use a regular P.T.O. shaft or a shaft with wide-angle joints on both sides.
	Improper position of the tractor in relation to the machine, there are also vibrations.	Reconnect the tractor and machine according to the instructions.
	The P.T.O. shaft is not lubricated.	Lubricate it in accordance with the instruction for the P.T.O. shaft.
The output conveyor belt is not rotating.	The RESET key was not pressed before start-up.	Before each start-up or after opening the protective cover, it is necessary to restore the functions by pressing the RESET key.
	The belt speed regulator is set to the lowest value.	Set the regulator to the highest value.
	A piece of wood mechanically blocks rotation.	Remove the foreign object and clean the area under the drive roller regularly.
The infeed belt does not move or slide, and there is pressure on the pressure gauge (90 - 100 bar).	The hydraulic hoses for driving the rollers on the log loader are incorrectly connected and the oil flow is blocked.	Check the hose joints, or push the couplings deep enough.
	The log loader is not connected, and the quick couplings behind the table are free.	Connect both couplings with the Connection hose (See section: <i>Connecting the accessories</i>).
	The roller slides on the belt, the belt is too loose.	Tension the belt.
	Too heavy a log that also gets stuck.	Cut the log into smaller pieces.
The belt is being pulled to one side. Applies to the infeed conveyor and discharge conveyor.	Poor adjustment of driven rollers.	Adjust the driven roller so that the belt runs in the centre.
The hydraulic cylinder is not tightening.	Damaged sealing.	Sealing replacement (service).
	Damaged piston rod.	Cylinder replacement (service).
The splitting roller goes all the way and does not return automatically. It is possible to manually return it by pressing the red button on the control handle - joystick.	Reed switch for the end position failed to provide a signal for returning the splitting cylinder.	Under the cover of the machine at the splitting cylinder, it is necessary to set the position of the switch so that it detects the end position.
The splitting roller starts to split and starts to return too quickly or starts to return when some other function is turned on.	The splitting valve does not stay in position due to insufficient electrical power.	Check the output voltage on the tractor. If you supply power to the machine using another power source, where you convert 230V to 12V, check its output power. The electric current can even rise to 15A. The direct current from such a power supply must be as "even" as possible, without fluctuations. A transformer alone is not sufficient and a sufficiently large capacitor must be added. Do not use a cable with a small wire diameter or an unnecessarily long cable, because the voltage drops are considerable with direct current.

FAULT	POSSIBLE CAUSES	FAULT ELIMINATION
The splitting roller loses power, long high-to-low speed transitions are possible, inability to reach max. pressure. Sometimes it works perfectly normal and other times it doesn't.	Possibility of internal leakage of the splitting cylinder due to a unscrewed piston. Or a crack in the inner piston rod.	Repair the cylinder at the service centre.
Increased pressure (above 50 bar) when the machine is idling on the pressure gauge for splitting. Faster heating of hydraulic oil is also possible.	The splitting roller cannot return completely to its starting position because too much sawdust and wood particles have accumulated behind it, which is also seen in the increase in pressure when the machine is idling.	Remove the splitting roller cover and clean the residue. As you work further, regularly clean under the machine.
	Clogged pressure filter.	Remove the pressure filter and clean it in cleaning gasoline.
Adjusting the wedge height is not working.	The wedge probably fell out of the lifting mechanism.	Reinstall the wedge in the lifting mechanism.
Torn drive belt.	Too little speed of the P.T.O. shaft and blunt and loose chain.	Replace the belt, work with correct settings.
	Belt not sufficiently tensioned.	Replace the belt.
	Blocked chain when cutting because the wood was not fixed well.	Replace the belt.
	Blocked bearing at the drive.	Replacement of damaged bearings (service).
Sawbar does not move, the log holder and chain rotation are working.	In the muffler between the hydraulic cylinder for moving and the hydraulic block a foreign object is stuck and is blocking the oil flow.	Remove the foreign body by unscrewing the coupling where the pressure gauge for the saw is attached. The muffler is located at this point in the small block, where the foreign object is most likely to be located.
Slowed cutting.	The chain has become blunt.	Install a sharp chain. The force with which the sawbar pushes into the wood is always the same, but the cutting speed depends on the quality of the chain and the resistance of the wood being cut.
Sawbar becoming too hot.	There is not enough lubricant, as a result of which there is increased friction and, consequently, overheating.	Use dedicated oil for chain lubrication, open the lubrication pump more, check the amount of oil in the lubrication reservoir, ensure the unobstructed flow of oil into the sawbar groove.
	P.T.O. shaft speed too high – over 430 min ⁻¹ .	Set the P.T.O. shaft speed to 420 min ⁻¹ .
The sawbar is pulled to one side, cuts sideways, overheating is also possible.	Bent sawbar, which is probably due to the movement of the wood during cutting.	Replace the sawbar.
	A few teeth on the chain are damaged.	Resharpener or replace the chain and check the sawbar.
	Chain-damaged surface on the sawbar holder. The chain made an edge on the surface and the sawbar rests on that edge. The sawbar is therefore sideways in relation to the cutting direction.	Smooth out the resulting edge.
The saw's clutch slips.	Worn-out clutch plate.	Replace the plate.
	Oil on the sliding surfaces.	Determine the source of the grease, degrease the sliding surfaces.



More demanding tasks may only be carried out by an authorised maintenance service. *

7.3. REPLACING THE CUTTING CHAIN



Before replacing the cutting chain, the machine must be disconnected from the power unit!

- Disconnect the P.T.O.;
- Unscrew the screw and switch the saw shield to the forward position;



- Loosen the screw for tensioning the cutting chain;



- Unscrew the two nuts on the fixing plate just enough to move the sawbar away from the tensioner;



- Remove the broken cutting chain and replace it with a well-sharpened one;
- Pay attention to the correct direction of the cutting teeth – on the upper side of the sawbar, the edge must be facing the control point of the machine;
- The cutting chain is installed in the reverse order of removal, being sure to tension it;
- Remove any sawdust on the sawbar holder, in the oil groove and on the sawbar.

First, run the new cutting chain for 2 to 3 minutes. Then check again the tension of the cutting chain (See section: *Tensioning the cutting chain*).

Do not install a new cutting chain on a worn sprocket. You must change the sprocket at the latest after changing another used chain (See section: *POWER MATE sprocket*).

7.4. TENSIONING THE CUTTING CHAIN

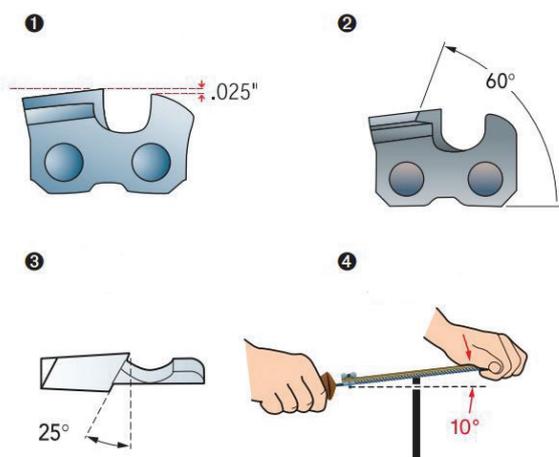
- Loosen both nuts on the fixing plate;
- Tighten the tensioning screw until the cutting chain is properly* tensioned;
- Retighten both nuts on the fixing plate.

* The cutting chain is correctly tensioned when, in a cold state, it adheres to the lower side of the sawbar and can be raised by approx. three quarters of the height of the drive tooth.



When checking the tension of the cutting chain, use gloves to avoid cutting yourself on the sharp chain!

7.5. SHARPENING ANGLES OF THE CUTTING CHAIN



On the figure are shown the angles for sharpening the DuraCut™ 3/8" chain used on firewood processors.

1. Depth of cut (0.025" = 0.65 mm) – the difference between the height of the blade and the depth tooth.
2. Ridge angle
3. Sharpening angle
4. File tilt

7.6. POWER MATE SPROCKET

Use only OREGON Power mate 3/8" sprockets (OREGON code 68210). The sprocket has a wear indicator (X). When worn to the depth of the indicator, it should be discarded.



3/8" - 7 teeth



7.7. CHANGING OIL IN THE HYDRAULIC SYSTEM



IMPORTANT!
Used oil must be appropriately disposed of in order to prevent polluting the environment!

- **Change oil after 5000 hours of operation or every 2 years.**
- The oil drain plug is located on the bottom of the reservoir.
- Quantity of oil in the hydraulic system: 100 l.

Hydraulic oil of appropriate viscosity (viscosity: **46 mm²/s at 40°C**).
The factory oil used is **Hydrolubric VGS 46** (OLMA d.d.).

The quality of the hydraulic oil must meet the following standards:

STANDARD	CODE
DIN	DIN 51 524/3 HVLP
ISO	ISO 6 743/4 HV
Denison	HF-2, HF-0
Vickers	I-286-S, M-2950-S
Cincinnati Milacron	P-68, P-69, P-70

7.8. HYDRAULIC SYSTEM FILTERS

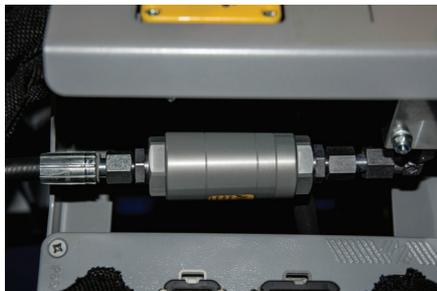
RETURN

- First change of the filter cartridge after 200 hours of operation, then after every 1000 hours of operation.
- The filter cartridge is not washable.
- Poor filter permeability can be seen on the filter pressure gauge if the indicator is in the red range at the oil's operating temperature (if it only occasionally fluctuates to the red range, this is NOT a sign to change).



PRESSURE

- Clean the pressure filter cartridge with gasoline for cleaning, every 1000 hours of operation.



7.9. LUBRICATING THE MULTIPLICATION GEAR

- The added factory oil is 1.2 L of SAE 75 (Renolin CLP 100 DIN 51 517/13).

7.10. LUBRICATING THE CUTTING CHAIN

Lubrication of the cutting chain on RCA 400 JOY is automated. Regularly check the oil level in the reservoir.



Never operate the machine without lubricating the chain!



Chain lubrication oil reservoir volume: 8 L

Indicative oil consumption: (0.6 - 1.0) L/h

Use only dedicated quality chain lubrication oil with a viscosity of 95 mm²/s at 40°C.

The oil flow for lubricating the cutting chain can be regulated according to the quality of the oil with the regulating screw.



The use of used oil is not permitted!

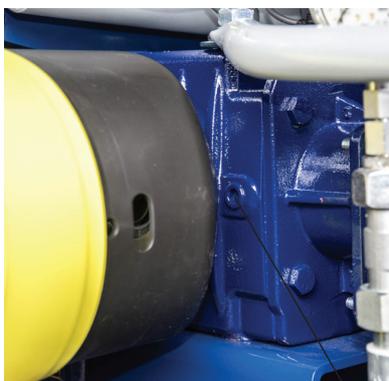
7.11. OIL QUANTITY

Regularly check the amount of oil and top up if necessary. The firewood processor must stand horizontally on a level surface.

HYDRAULIC SYSTEM RESERVOIR



MULTIPLICATION GEAR



LUBRICATION RESERVOIR OF THE CUTTING CHAIN



Oil level control screw

MULTIPLICATION GEAR

The firewood processor must be turned off and the multiplication gear must be sufficiently cold so as to avoid burns.

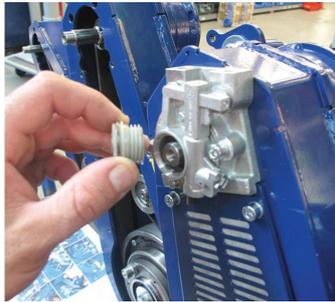
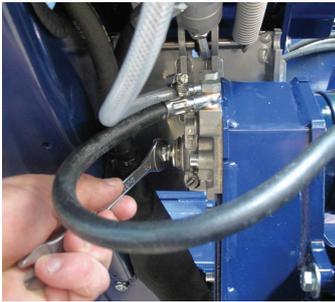
- Unscrew the oil level control screw.
- The oil level must reach the lower edge of the opening.
- After checking, tighten the screw back.

7.12. REPLACING THE CHAIN SAW BELT

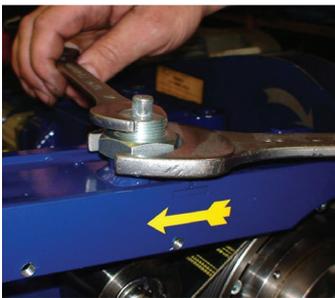
- Disconnect the machine from the drive;
- Remove the drive guard, drive cover, hydraulic hose, 3 screws with springs;



- Unscrew the lubrication pump;



- Loosen the belt tensioner;



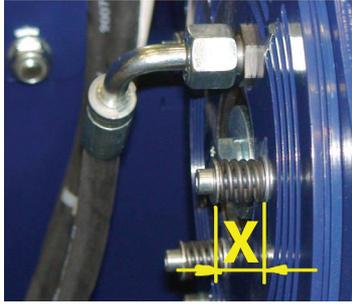
- Remove the belt from the driven belt pulley;



- Remove the old belt and clean the power unit compartment;
- Insert a new belt;
- Install the belt onto the belt pulley;
- Tension the belt and fix the drive covers with the filter and the lubrication pump;



- Tighten the screws with springs and secure them with LOCTITE 222 (or similar). Pay attention to the distance **X**, which should be 17 mm. **Attention!** If you fully compress the spring, the clutch will not work;



- Attach the hydraulic hose;
- After a one-hour test operation, check the belt tension again (with the machine disconnected from the drive). Carry out subsequent belt tension checks after every 50 working hours.

7.12.1. TENSIONING THE BELT



Tension the belt with the machine turned off!

The correct tension of the belt can be checked using the notch on the tension indicator. With a properly tensioned belt, the notch must line up with the edge of the spring guide, otherwise you must:

- Loosen the safety nut;
- Screw or unscrew the spring guide accordingly to align the notch properly;
- Fasten the safety nut.

Safety nut



7.12.2. AIR FILTER REPLACEMENT AND CLEANING

REPLACING THE FILTER

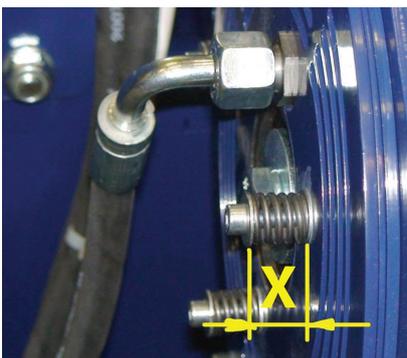
- Disconnect the machine from the drive;
- Remove the drive guard;



- Remove the drive cover, hydraulic hose and screws with springs;



- Replace the filter with a new one, clean the inside and reattach the drive cover;
- Tighten the screws with springs and secure them with the LOCTITE 222 adhesive (or similar). Pay attention to the distance **X**, which should be between 16 and 17 mm. The distance should be for all three screws of the **SAME LENGTH. Attention!** If you fully compress the spring, the clutch will not work;



- Attach the hydraulic hose and at the end attach the drive guard.

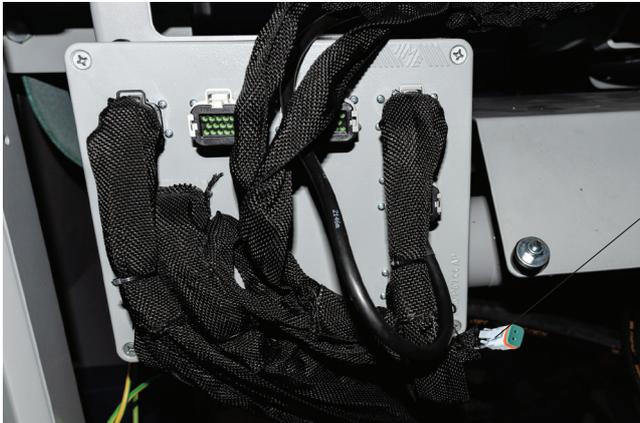
CLEANING THE FILTER

- Remove sawdust and debris from the top of the filter (cover) so as to allow free flow of air inside the saw drive;
- Regularly clean and replace the filter on the saw drive. Due to a dirty filter, the flow of air for cooling the drive unit is difficult, which in turn means overheating and damage to the drive unit (bearings, belt, shaft, etc.).

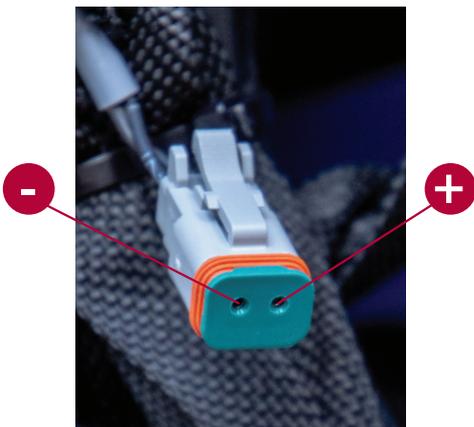
7.13. ADDITIONAL POWER OUTLET (12V)

The firewood processor has an additional 12V power outlet installed on the control electronics housing for connecting accessories (LED lights, fans, etc.).

The outlet may be turned on or off by simultaneously pressing both yellow buttons of the control handle - joystick.



Additional 12V power outlet



Additional 12V power outlet

Voltage	12 V
Power	10 W
Electric current (max)	1 A

7.14. PRESSURE GAUGES



1	Saw pressure gauge
2	Operating pressure gauge
3	High pressure gauge - splitting
4	Oil filter pressure gauge

7.15. SIGNS OF IMPROPER MACHINE USE

Certain damage before the end of the service life of exposed machine parts can be indicators of overloading or improper handling of the machine. The manufacturer does not provide a warranty for this type of damage:

- Torn or damaged discharge conveyor belt or infeed belt;
- Torn cutting chain;
- Damaged chain guide (sawbar);
- Damaged or bent frame, knife, cylinder or cylinder protection;
- Damaged or bent length limiter or swinging laps;
- Torn drive chain belt;
- Damage to the control handle - joystick or other operating handles;
- Damage to the frame due to inappropriate transport at the worksite;
- Damaged winch of the discharge conveyor;
- Damaged carabiner on the supporting chain;
- Damaged wedge holder;
- Damaged or broken splitting wedge;
- Clogged or damaged air filter.



Important: The machine is functionally and safety tested. In order to ensure fault-free and safe operation, only original spare parts should be used in case of failure. The buyer loses all warranty rights if he/she uses non-original spare parts, if the repair is carried out unprofessionally, if the repair is carried out by an unauthorised person, if the machine is modified or obstructed in any way.

7.16. CONSUMABLES

The machine is equipped with the following consumable or wear material, which the customer renews as needed. These parts are not covered by the warranty period of the machine stated in the warranty statement:

- Cutting chain;
- Drive sprocket;
- Chain guide (sawbar);
- Drive chain belt;
- Discharge conveyor wire rope;
- Infeed belt;
- Conveyor belt;
- Splitting Wedge;
- Oil;
- Air filter;
- Oil filter.

7.17. ORDERING SPARE PARTS

When ordering spare parts, it is necessary to specify:

Type and factory no. of the machine; catalogue number, name and quantity of the spare part;

exact address of the client.

The manufacturer guarantees servicing and all necessary spare parts for 10 years after the purchase of the machine.

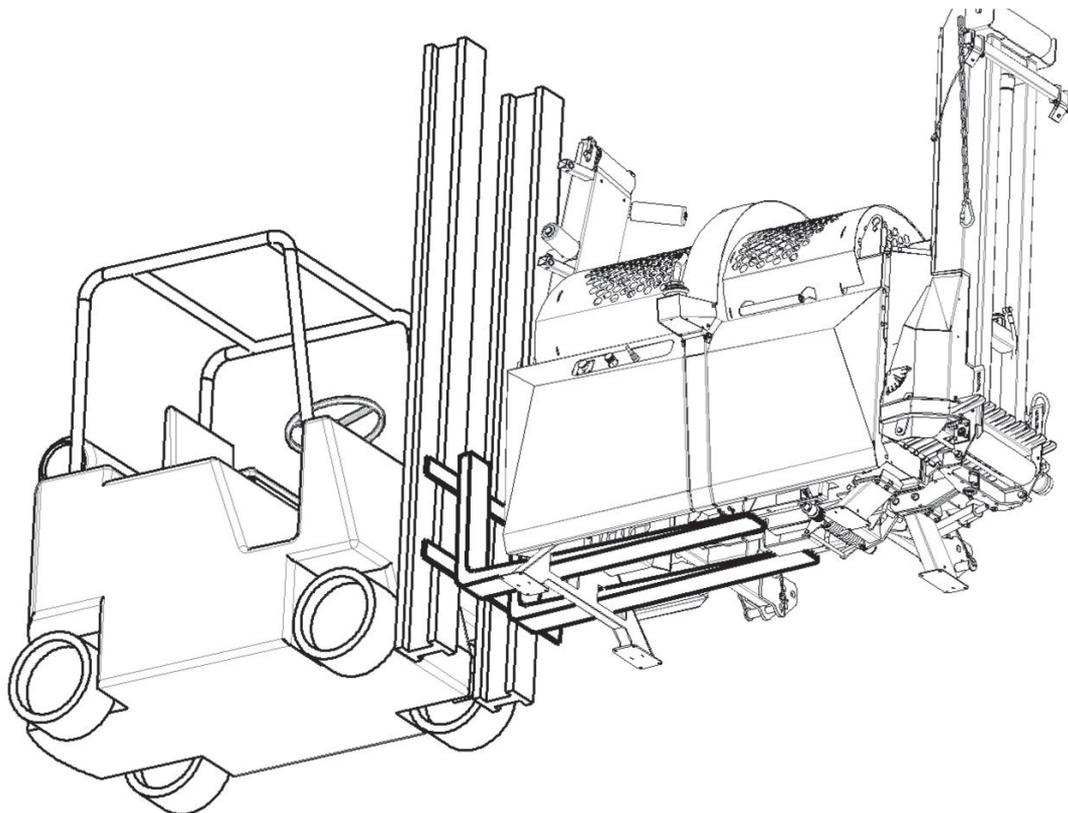
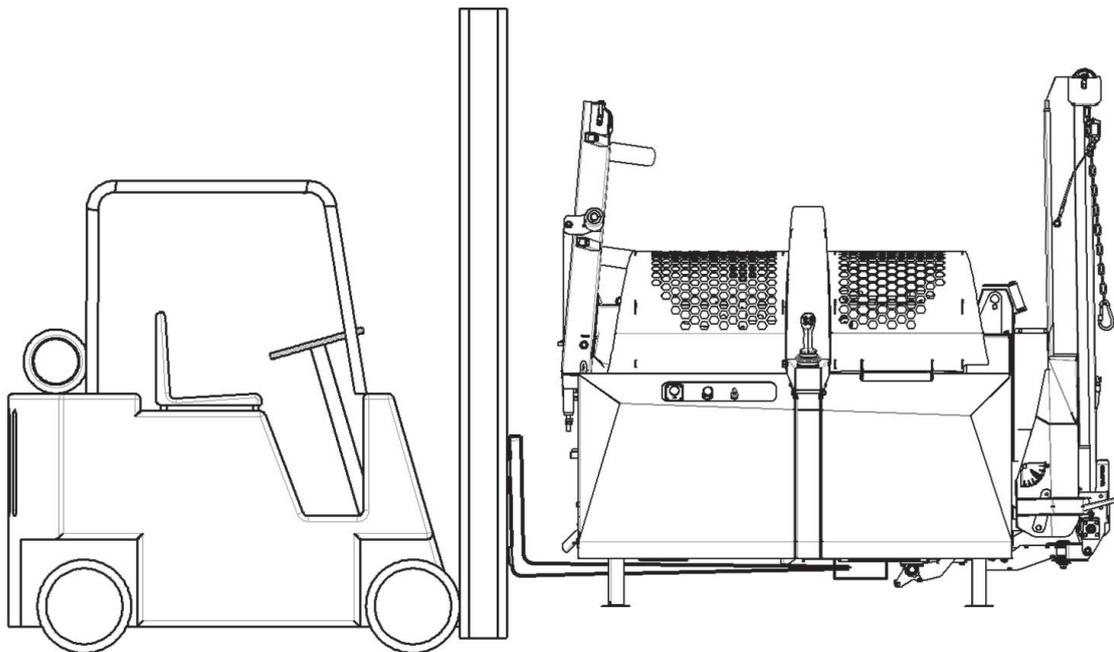
8. LOADING AND TRANSPORT



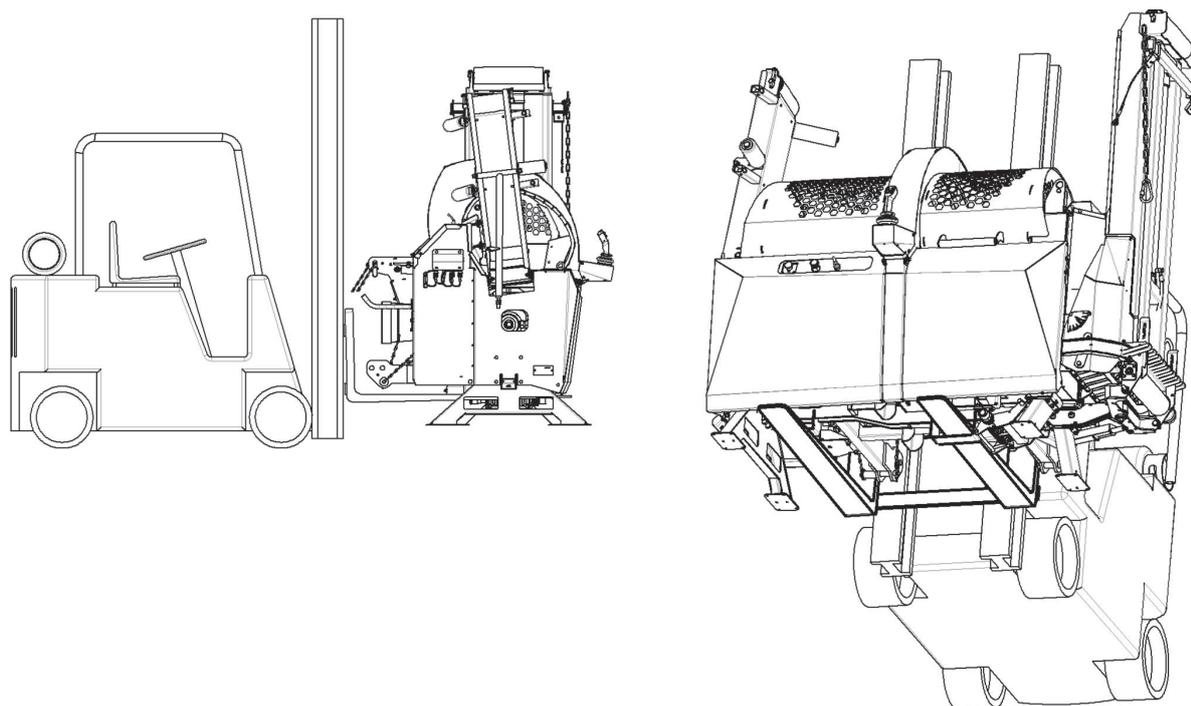
8.1. LOADING WITH A FORKLIFT

Loading the machine with a forklift is possible from two sides.

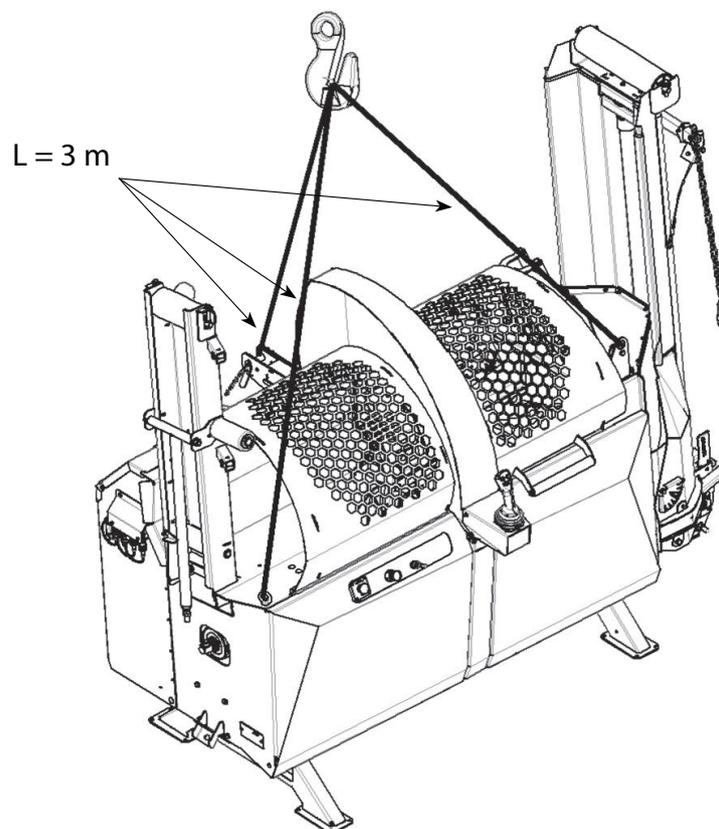
LONGITUDINALLY:



TRANSVERSALLY:



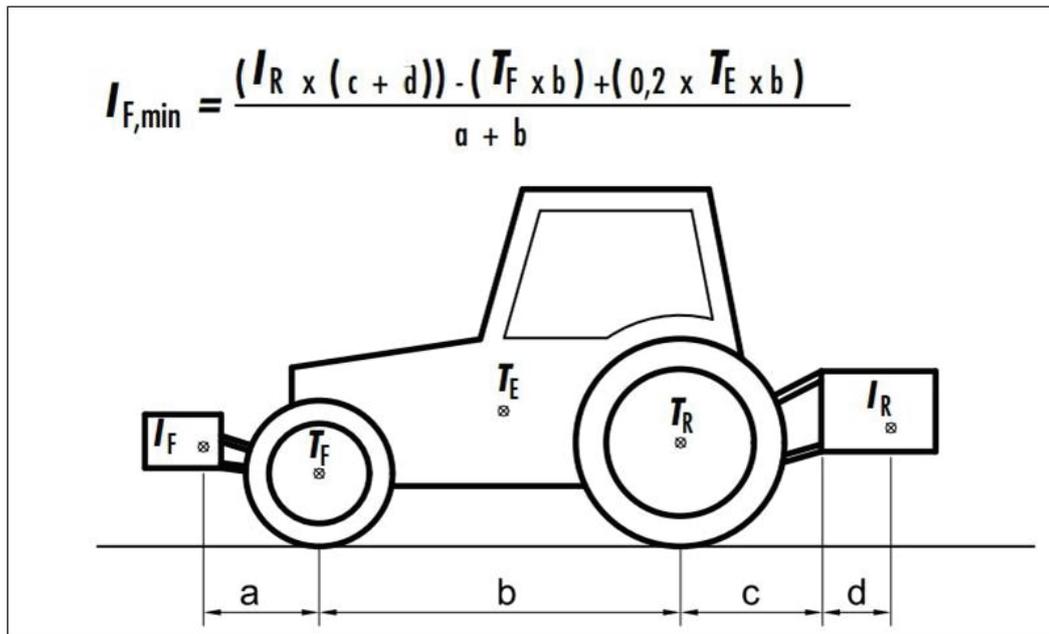
8.2. LOADING WITH LOAD BELTS



8.3. TRANSPORT WITH A TRACTOR

The machine can be transported with a three-point hitch. Due to the weight of the machine, it is necessary to check the stability of the vehicle and, if necessary, add weights to the front. It is necessary to ensure sufficient pressure on the front wheels, which must amount to a minimum of 20% of the weight of the empty tractor.

You can use the formula below to calculate the mass of the weights $I_{F,min}$.



- $I_{F,min}$ [kg] Minimum mass of the front weights
- I_R [kg] The total mass of the machine attached to the rear (1100 kg - RCA 400 JOY + TT 404 R)
- T_F [kg] Axle load of the front axle of an empty tractor
- T_E [kg] Mass of an empty tractor
- a [m] The distance between the centre of gravity of the front weight and the centre of the front axle
- b [m] Wheelbase of the tractor
- c [m] The distance between the centre of the rear axle and the centre of the coupling bolts
- d [m] The distance between the centre of the coupling bolts and the centre of gravity of the connected machine (0.8 m - RCA 400 JOY)



Tajfun Planina proizvodnja strojev, d.o.o.
Planina pri Sevnici 41a
SI-3225 Planina pri Sevnici
Slovenija
www.tajfun.com

EC DECLARATION OF CONFORMITY FOR THE MACHINES

Manufacturer:

**Tajfun Planina proizvodnja strojev d.o.o.,
Planina pri Sevnici 41A, 3225 Planina pri Sevnici, Slovenia**

declares under full responsibility that the following product:

FIREWOOD PROCESSOR

Type:	Factory number:
RCA 400 JOY	261787 - XXXXX
RCA 400 JOY TG	261695 - XXXXX

subject to this declaration, complies with the:

DIRECTIVE 2006/42/EC
OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL ON MACHINERY,

taking into account the following standards and regulations:

EN ISO 4254-1:2013; EN ISO 12100:2010; EN ISO 13857:2019;
EN ISO 13854:2017; EN 609-1:2017; ISO 4413:2010;

*The person authorized to draw up the technical documentation at the address
of the manufacturer shall be the same as the signatory of this declaration:*

Planina, 18. 05. 2023



Iztok Špan
Director

DECLARATION OF CONFORMITY

IN ACCORDANCE WITH UK GOVERNMENT GUIDANCE

1. Product / Type:

a. Product: **FIREWOOD PROCESSOR**

Type:	Factory number:
RCA 400 JOY	261787 - XXXXX
RCA 400 JOY TG	261695 - XXXXX

2. Manufacturer:

a. Name: **Tajfun Planina, d.o.o**
b. Address: **Planina pri Sevnici 41A, 3225 Planina pri Sevnici, Slovenia**

3. This declaration is issued under the sole responsibility of the product manufacturer.

4. The object of the declaration described above is in conformity with the relevant UK Statutory Instruments and their amendments:

Supply of Machinery (Safety) Regulations 2008

5. We hereby declare that the product described above, to which this declaration of conformity refers to, is in conformity with the essential requirements of the following standards:

EN ISO 4254-1:2013; EN ISO 12100:2010; EN ISO 13857:2019;
ISO 13854:2017; EN 609-1:2017; ISO 4413:2010;

Planina, 18. 05. 2023

**TAJFUN**

Tajfun Planina
proizvodnja strojev, d. o. o.
Planina pri Sevnici

[4]

Iztok Špan
Director



WARRANTY CERTIFICATE

THIS WARRANTY DOES NOT EXCLUDE CONSUMER RIGHTS DERIVING FROM THE SELLER'S LIABILITY FOR DEFECTS OF GOODS.

We hereby undertake:

- to guarantee the proper operation of the product during the warranty period, if all instructions herein are adhered to;
- to ensure the elimination of all defects and deficiencies within the warranty period within 45 days at the maximum. If the product is not repaired within the stated period, it will be replaced with a new one at your request.

The warranty is valid for **12 MONTHS** from the day of purchase, or from the day of delivery, which must be proven with a certified warranty certificate (seller's seal, date of delivery and signature of the seller, serial number, year of manufacture).

The warranty certificate is only valid together with the invoice!

The warranty covers material and workmanship defects. If an unauthorised person has tampered with the product system or has carried out a repair, or if non-original spare parts have been installed, the warranty becomes void. The warranty also becomes void:

- if the user does not comply with the user manual;
- in case of damages through your own fault;
- in case of damages resulting from improper use or overloading, and use in inappropriate conditions.

The warranty does not cover compensation for additional costs incurred due to the failure of the product (loss of income, transport costs, other potential damages, etc.).

Servicing and supply of spare parts is guaranteed for further 9 years after the expiry of the warranty period.



Product information (copy the information from the type plate):

Type:	Factory number:	Year of manufacture:
-------	-----------------	----------------------

Product sale details:

SELLER (company and registered office):	Date of delivery:
	Seller seal and signature: