

OPERATING INSTRUCTIONS

FIREWOOD PROCESSOR

(FIREWOOD PROCESSOR)

RCA 480 joy

RCA 480 joy PLUS



MANUFACTURER'S ADDRESS



TAJFUN[®]

Tajfun Planina d.o.o.
Planina 41a, 3225 Planina pri Sevnici, Slovenia
Phone: **+386 (0)3 746 44 24**, Fax: **+386 (0)3 5791 241**,
E-mail: **prodaja@tajfun.si**,
<http://www.tajfun.com>

TABLE OF CONTENTS

<i>Chapter:</i>		<i>Page:</i>
	MANUFACTURER'S ADDRESS	2
	TABLE OF CONTENTS	3
1.	INTRODUCTION	5
1.1	Copyrights	5
1.2	Manufacturer's liability	5
1.3	Reservations	5
2	SAFETY INSTRUCTIONS	6
2.1	General safety instructions	6
2.2	Safety instructions for the firewood processor	6
2.3	Safety instructions for the conveyor	7
2.4	Safety instructions for the rope pulleys	7
2.5	Noise	7
2.6	Other dangers	7
2.7	Application	7
2.8	Improper use of the machine	7
3	GENERAL	8
3.1	Scope of the Operating Instructions	8
3.2	Description of the machine's functions	8
3.3	Machine's main components	8
3.4	Specifications	9
3.4.1	<i>Type plate</i>	9
3.5	Machine's labels and their meaning	10
4.	MACHINE SETUP	13
4.1	Connecting to the mains circuit	14
4.2	Additional equipment setup	14
4.2.1	Attaching the loading deck to the machine's hydraulic control system	14
5	MACHINE START-UP	15
5.1	In-feed conveyor setup	15
5.2	Operating the RCA 480 joy and RCA 480 joy PLUS	16
5.2.1	Turning on the RCA 480 joy control	16
5.2.2	Description of the RCA 480 joy control functions	16
5.2.3	Turning on the RCA 480 joy PLUS control	17
5.2.4	Description of the RCA 480 joy PLUS control functions	18
5.3	Display – functions and controls (RCA 480 joy PLUS)	19
5.3.1	Setting the display language	19
5.3.2	Selection of displayed values	20
5.3.3	Machine output	21
6.	MACHINE OPERATION	22
6.1	Conveyor	22
6.2	Log feeding	23
6.3	Sawing	24
6.3.1	Adjusting the log cutting length	24
6.3.2	Removing sawdust	25

1. INTRODUCTION

Dear Customer,

By purchasing our firewood processor you obtained a piece of equipment that will provide you with great assistance at your work. To make machine operation as safe and as pleasant as possible, please carefully read these operating instructions and follow the safety and maintenance directives.

We would like to thank you for your trust and we wish you to be satisfied with your work.

1.1 Copyrights

All documents are protected by the copyright laws.

No part of this document may be distributed or reproduced.

1.2 Manufacturer's liability

Before using this machine carefully read these operating instructions.

The manufacturer does not assume any liability for damages or faults if the machine was not used in accordance with the operating instructions.

Report any faults immediately upon identification.

The manufacturer's liability for faults becomes void in the following events:

- Improper use;
- The use of unsuitable implements and drives, which are not supplied together with the machine;
- The use of other spare parts and tools;
- Rework and modification carried out without manufacturer's prior written agreement.

The manufacturer cannot be held liable for defects of the wear and tear parts.

1.3 Reservations

The manufacturer reserves the right to change specifications, graphical material and safety standards listed in the supplied operating instructions.

2. SAFETY INSTRUCTIONS

2.1 General safety instructions

- ***Machine operation and maintenance may be carried out only by individuals who have the knowledge about machine's operation, work-related dangers and operating instructions.***
- ***Machine operation and maintenance may not be carried out by people under the influence of alcohol, drugs or medicinal products that affect people's psychophysical abilities.***
- ***The machine can be operated by one person only. Please, make ensure that nobody is standing in the near vicinity (in the 3m radius) of the machine's operating area!***
- ***Machine operation and maintenance may be carried out only by qualified personnel over 18 years of age!***
- ***Before starting the operation place the machine in a stable position in accordance with the machine's installation instructions!***
- ***Use only PTO shafts of appropriate strength (min. 25kW) with undamaged exterior plastic protective cover!***
- ***Never use damaged, cracked or deformed cutting chains, chain sprockets and saw bars!***
- ***All protective parts of the machine (safety nets, saw shield, covers, etc.) must be fixed in place during the machine's operation. Any modification of these protective parts is prohibited!***
- ***Always wear personal protective equipment (safety glasses, hearing protectors, gloves and forestry boots)!***
- ***When troubleshooting, replacing the chain, cleaning or any other service procedure always disengage the PTO shaft and shut down the power unit (tractor) or unplug the power cord from the mains (EP 12)!***
- ***Do not wear loose clothing!***
- ***Keep the operating area clean and tidy!***
- ***Always use caution when operating the machine! Moving parts can cause serious injuries in case of improper use of the machine!***
- ***During the running of the machine never leave the machine unsupervised!***
- ***Do not reach into the working area during the operation of the machine!***
- ***Before removing any wedged pieces of wood shut down the machine's drive or turn off the machine.***
- ***For transportation of the machine via public roads install lights on the rear end of the machine!***
- ***For personal safety use only original spare parts and accessories approved by the manufacturer!***
- ***The damaged power cord or plug must immediately be replaced.***

2.2 Additional safety instructions for the firewood processor

The manufacturer, Tajfun Planina d.o.o., provides the declaration of conformity and risk estimation only for the machines operated by a single person that has sufficient overview over the entire surrounding area, and applies to the machine's entire operating area.

Personal protective equipment and protective parts, which must always be used when operating the machine, are included in the scope of delivery.

- Never reach within the chain saw or splitting cylinder working area during the machine's operation. Never remove cut pieces and other wood residues from the sawing and splitting area during the machine's operation.
- For outdoor use only. When operating the machine indoors it is necessary to install a suction device on the machine, which is supplied as part of the accessories.
- Ensure regular machine maintenance and cleaning. Regularly remove the sawdust and wood residues.
- The operating pressure of the hydraulic system must not exceed 230 bars.

2.3 Safety instructions for the conveyor

- Observe the working area of the machine located in the near vicinity of the moving parts, as well as under the entire construction along the conveyor belt, and not only on the discharge conveyor.
- The transported material can fall off the conveyor in this area.
- Never reach inside the chute and never touch the conveyor belt during the machine's operation.
- Shut down the machine prior to removing any wedged parts of wood.

2.4 Safety instructions for the rope pulleys

- Prevent the pulling of the wire rope over the sharp edges!
- Never hold the wire rope during winding and unwinding!

2.5 Noise

During the machine's operation the operator is exposed to the following noise levels (measured near the operator's ear):

	RCA 480 joy (PLUS)
Idling:	85 dB (A)
Operation:	92 dB (A)

The total noise level depends on the noise generated by the power machines (tractor, diesel unit).

Therefore, it is mandatory to wear hearing protectors while operating the machine.

2.6 Other dangers

Provided that all safety measures are followed and the machine is being used in accordance with the operating instructions other risks still persist:

- Contact with the machine's moving parts;
- Injuries due to the flying particles of wood;
- Burns due to contact with hot machine parts (multiplication gear);
- Hearing impairment in case of hearing protector's improper use or lack of use;
- Human errors (overstraining, mental stress, etc.).

2.7 Application

RCA 480 joy/RCA 480 joy PLUS Firewood Processor is a machine used for processing firewood. The processor is intended for cutting wood logs with a diameter from 5 to 48cm, which are thereafter split into 4, 6, 8, 12 or 16 firewood logs (with an adjustable length of 25 to 50cm) using a splitting force of 250kN.

The machine is intended for outdoor use only.

2.8 Improper use of the machine

Any use of the machine, which does not comply with the use described under the previous section, is considered to be improper and is prohibited.

3. GENERAL

3.1 Scope of the operating instructions

These operating instructions apply to the following models:

- RCA 480 joy
- RCA 480 joy PLUS

3.2 Description of the machine's functions

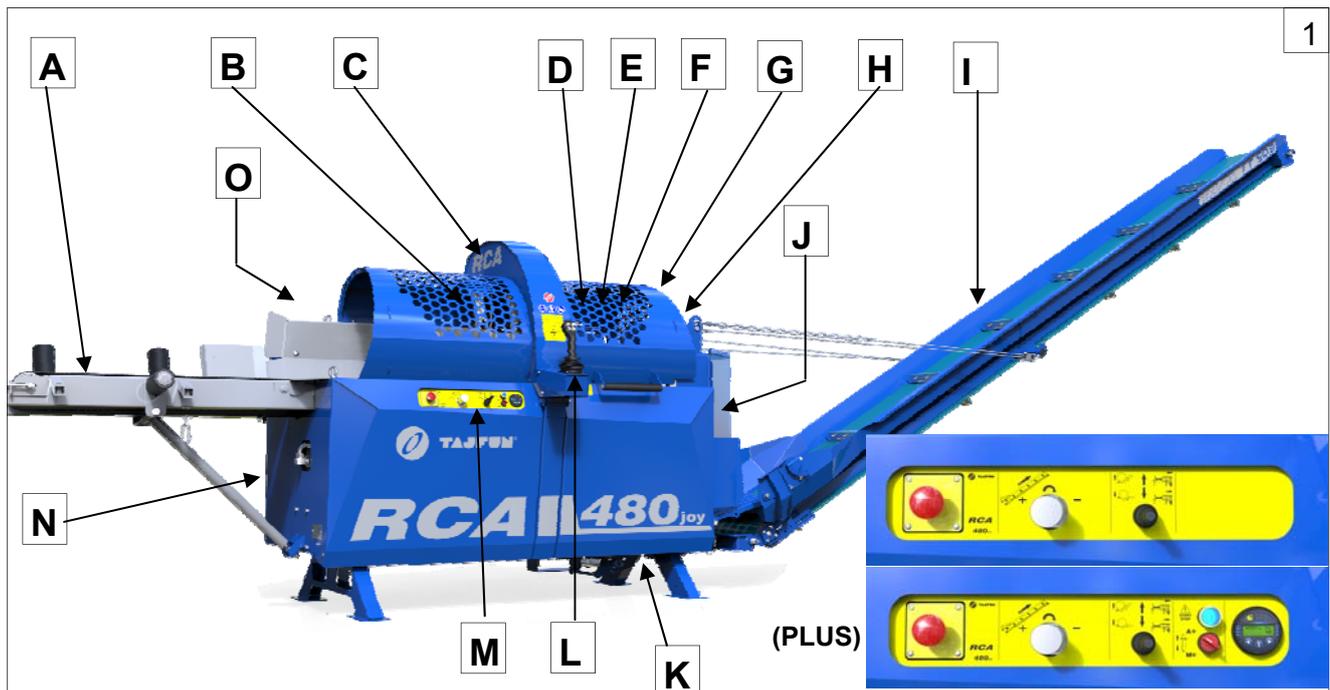
The (RCA 480 joy/RCA 480joy PLUS) firewood processor is used for processing firewood.

The operation process includes the following stages:

1. Loading logs on the **log deck** (optional), which allows the feeding of the logs transversally and longitudinally, as well as synchronously with the in-feed conveyor.
2. Transporting logs with maximum diameter of 5 to 48cm (2" to 18.9") with the **in-feeder conveyor** to the adjustable limiter, which can be used to set the cutting length (25 to 50cm or 7.9" to 20" (Section 6.2).
3. Sawing with the **chainsaw** according to the set cutting length (Section 6.3).
4. Splitting. The use of suitable **splitting wedge** allows adjusting the log size (cross-section) (Section 6.4).
5. Transporting logs with the adjustable **conveyor** (adjustable speed, height and transversal offset (Section 6.1).

The quality of the logs, as well as the machine capacity, diminishes when using pre-split wood.

3.3 Machine's main components



A	In-feed conveyor	I	Conveyor
B	Log holder	J	Splitting cylinder, splitting wedge
C	Chainsaw drive	K	Splitting wedge lifting mechanism
D	Chain lubrication oil reservoir	L	Control handle
E	Trapdoors	M	Control panel
F	Cutting length limiter	N	Hydraulic oil reservoir
G	Machine cover with a safety switch	O	Three-point hitch
H	Hydraulic pulley		

3.4 Specifications

Cutting length	25–50cm (7.9”–20”)
Cutting diameter	5–48cm (2”–18.9”)
Saw bar	1.5mm (24”, b=0.058”)
Chain	3/8”, 42 cutter teeth, 1.5mm (b=0.058”)
Splitting force	250kN (≈25T)
Machine width	1,600mm (63”)
Machine length (transport position)	2,410mm (94.9”)
Machine height (transport position)	2,630mm (103.5”)
Required tractor power	30kW (40KM) (drive) / 70–80kW (transport)
Required tractor outlet voltage	12V
Minimum control fuse rating	20A
Tractor PTO input shaft speed	[400–430min ⁻¹] (RPM)
Maximum splitting pressure	230 bars
Oil reservoir volume	100 liters (25 gallons)
Chain lubrication oil reservoir volume	8 liters (2 gallons)
Operating noise level (max.)	92dB(A)
Weight	1,300kg (2,866lbs)
TT 403 Conveyor	
Conveyor length	4,000mm (13”)
Conveyor belt width	430mm (17.5”)
Maximum speed	60cm/s (24”)
Weight	130kg (286lbs)
TT 503 Conveyor	
Conveyor length	5,000mm (16.4”)
Conveyor belt width	430mm (17.5”)
Maximum speed	60cm/s (24”)
Weight	160kg (353lbs)

3.4.1 Type plate

Tajfun Planina d. o. o.
 Planina 434
 3225 Planina pri Sevnici
 www.tajfun.com

Tip / Typ / Type / Тип:
 RCA 480 joy PLUS

FIREWOOD PROCESSOR Nr.: 240326-XXXXX

L = 25 - 50 cm
 D = ϕ 10 - ϕ 48 cm
 $F_c = 250$ kN
 24" x 3/8"

$n_{min} = 400$ min⁻¹
 $n_{max} = 430$ min⁻¹

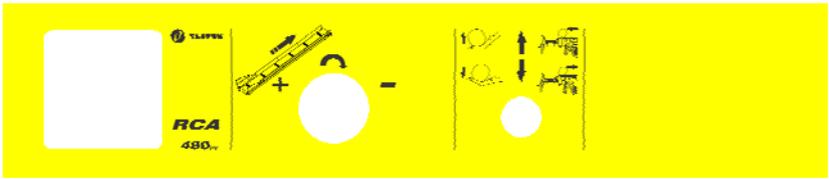
$p_{max} = 170/230$ bar
 1300 + 130 kg

Year of manufacture: 2015
 Serial number: 240326-XXXXX

511730

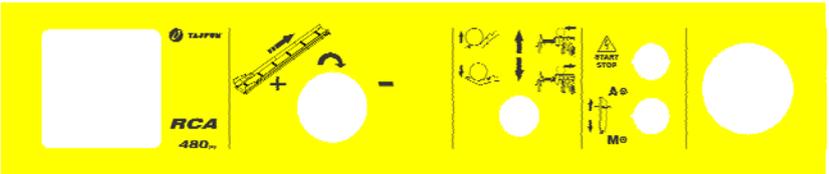
3.5 Machine labels and their meaning

1 2 3



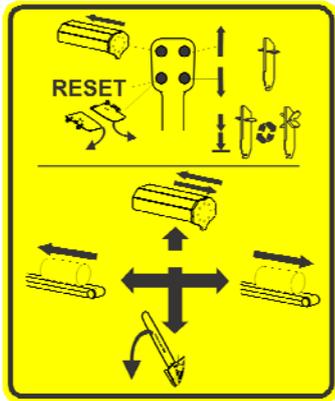
Control panel (RCA 480 joy only)
 1. STOP switch
 2. Conveyor belt speed
 3. Deck control

1 2 3 4 6



Control panel (RCA 480 PLUS only)
 1. STOP switch
 2. Conveyor belt speed
 3. Deck control
 4. Electrical system switch on/off
 5. Automatic splitting wedge shift
 6. Display

5



Control handle (joystick) functions



Automatic stopping of the machine after lifting the cover



Machine working area
 The working area extends in a 3m radius around the machine



Read operating instructions



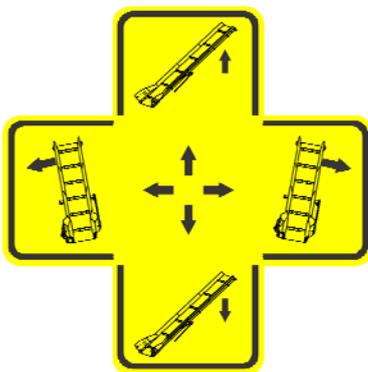
Wear forestry boots



Wear hearing protectors and safety glasses



Wear protection gloves



Conveyor movement controls scheme



Cutting length setting scheme



Remaining log length on the in-feed conveyor scheme



Hydraulic oil reservoir



Chainsaw lubrication oil reservoir



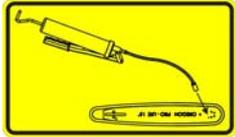
Direction of the chainsaw drive belt movement



Maximum allowed inclination of the conveyor according to the log length



Cutting chain lubrication intensity setting



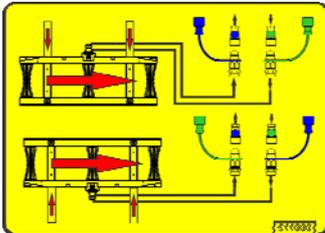
Lubrication of the chainsaw's saw bar



Proper belt tension scheme



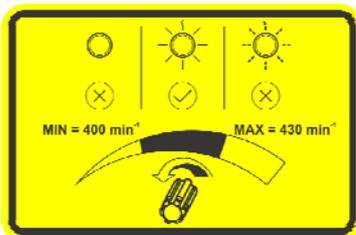
Danger of cutting chain contact



Scheme of the deck's hydraulic pipes according to its position



The valve handle position when operating with or without the deck



Scheme of the warning light activity according to the PTO shaft rotational speed:

- Turned off -> the rotational speed is too low
- Steady -> proper rotational speed
- Flashing -> the rotational speed is too high (only for RCA 480 joy PLUS)



Proper direction of the PTO shaft rotation
Approved rotational speed range (only for RCA 480 joy)

4. MACHINE SETUP

- Use bolts to connect the firewood processor to the three-point tractor hitch. Fix the bottom tractor hitch bars with the tension screws to allow the machine to move transversely. During machine transport observe the total weight of the machine (Section 3.4).
- Connect the PTO shaft to the universal joint and secure it by using a safety chain.
- Plug the machine control cable into the 12V tractor outlet.

Check the length of the PTO shaft upon first installation.

Check the length of the PTO shaft by raising and lowering the machine to determine the position with the minimum distance between the joints. After PTO shaft installation the length of the pipes must be shorter for approximately 20mm.

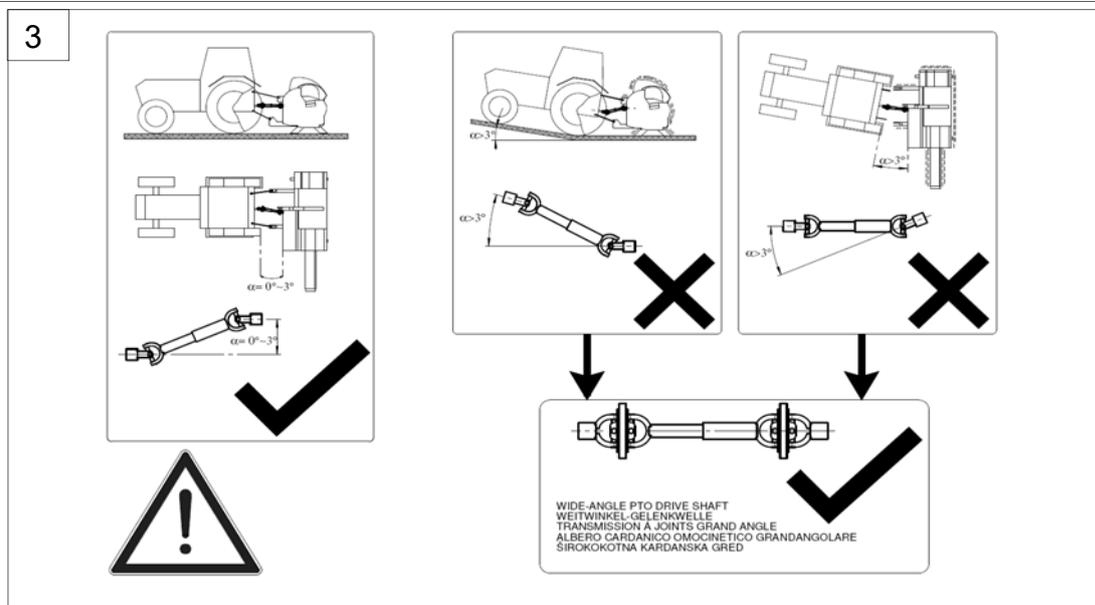
If the PTO shaft is too long, reduce the length as follows:

- Use a saw to cut both ends of the steel and plastic pipes to the same length. Then file down, clean and grease the edges.
- Always use a PTO shaft without a clutch.

When using our machines, we recommend Tajfun PTO Shafts:

Model	Dimensions	Compatibility
PTO Shaft C Line-T 6BR + KK560	1 3/8" Z6 – 1 3/8" Z6; L _{KK} = 560	EP 12 (RCA 380, RCA 400 JOY, RCA 480 JOY)
PTO Shaft C Line-T4 DZ BR + KK510	1 3/8" Z6 – 2X; L _{KK} = 510	RCA 380, RCA 400 JOY, RCA 480 JOY

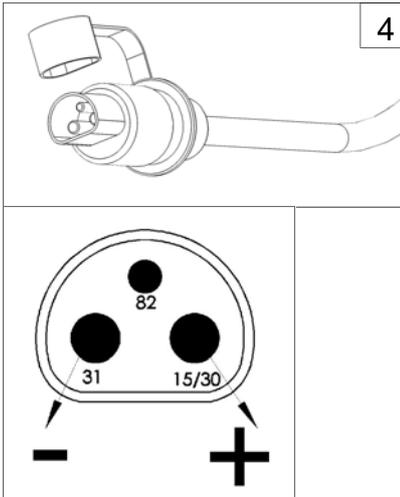
The tractor output shaft and machine input shaft should be positioned as parallel as possible! Otherwise, the PTO shaft's geometry may cause uneven transmission of the rotation and subsequent vibrations. If this is not possible, a PTO shaft with two wide-angle joints must be used, since this is the only PTO shaft that ensures a steady rotation under wide variety of angles (Figure 3).



- PTO shaft (grooved shaft 1 3/8" Z6 – DIN 9611A) must comply with the required engine power of the machine (Specifications).
- The tractor PTO shaft must rotate clockwise. In case of EP11 the shaft must also rotate clockwise.
- **The recommended speed of the PTO shaft:** 420min⁻¹; maximum: 430min⁻¹; minimum: 400min⁻¹
- When the machine is disconnected place the PTO shaft into the PTO shaft holder (Figure 3a).



4.1 Connecting to the mains circuit



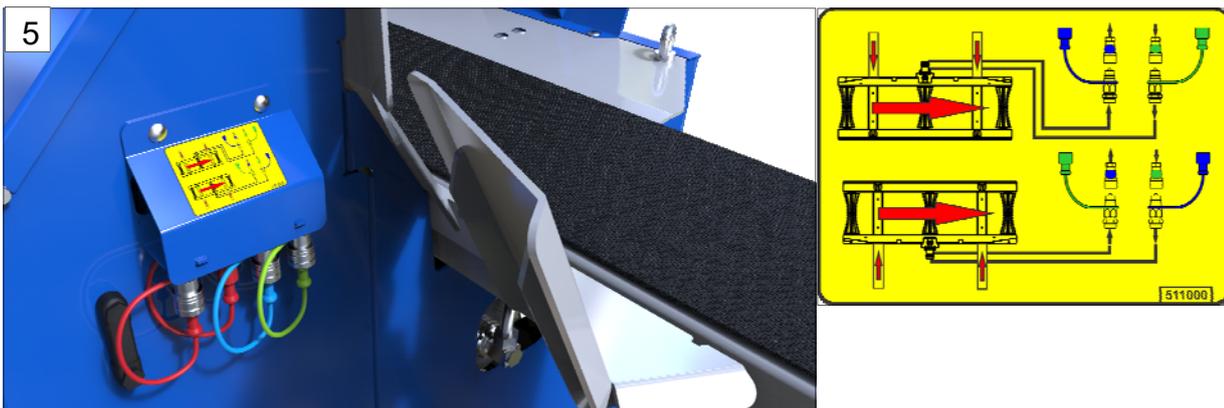
Plug the 3 pin plug (Figure 4) into the tractor mains or EP unit (optional).

Check that the power source provides a constant 12V voltage and 16A current; otherwise, this may lead to faulty operation of the electrical system. Minimum cross-section of the cables from the power source should be 2.5mm².

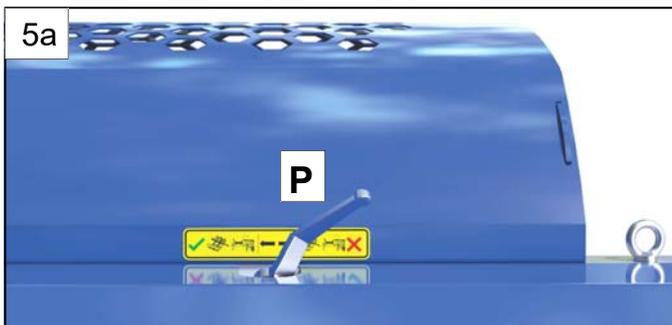
After operation always disconnect the supply cables; otherwise, the tractor battery may begin to discharge.

4.2 Additional equipment setup

4.2.1 Attaching the loading deck to the machine's hydraulic control system



- Use the quick couplings to connect the loading deck's hydraulic pipes and the machine couplings. To ensure proper connection observe the label and the color covers of the couplings (Figure 5).
- If the hydraulic couplings are not installed or if the loading deck is not in operation, place the selector valve (P – Figure 5a) in the appropriate position (X).



5. MACHINE START-UP

Before starting up the machine always check the chain tension and re-tension the chain, if necessary!

A loose chain can cause vibrations, which can have a negative effect on the operation of the drive belt. The increased level of vibrations can also damage the drive belt.

Before machine start-up remove all wood residues and other particles from the splitting chute.

Check the hydraulic oil level and chain lubrication oil level before machine start-up!

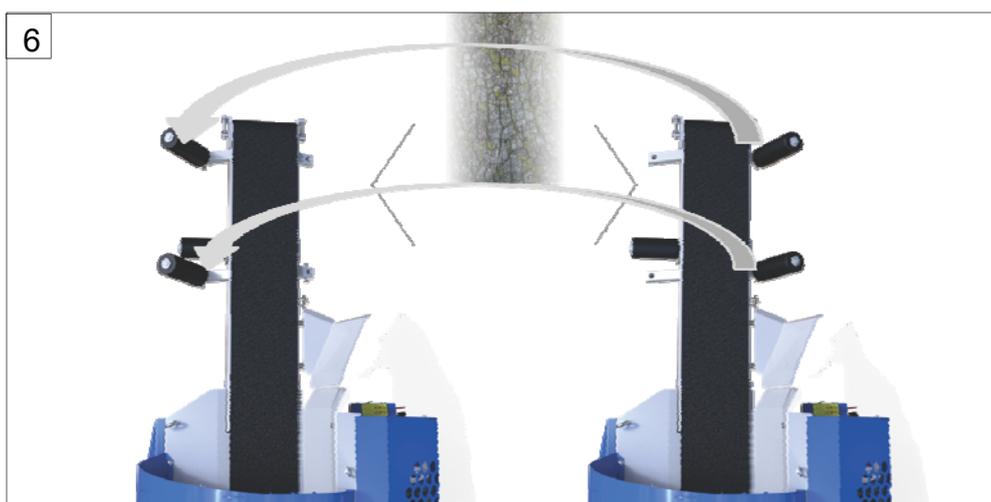
Before machine operation check the machine functions, and particularly the function of the safety devices. Follow the steps below.

- Check the faultless operation of the machine and equipment, as well as the chain lubrication.
- Set the manual tractor throttle to minimum.
- Lift the machine cover (G – Figure 1) to disengage the safety switch and disable all the main functions of the machine.
- Engage the PTO shaft drive and start the machine.
- Manually add throttle to set the required PTO shaft rotational speed (420min^{-1}).
- Install the machine cover.
- Check the function of the emergency STOP switch (EMERGENCY SHUTDOWN).
- Follow the RCA 480 operating instructions (Section 5.2).

When the outdoor temperature drops under 0°C leave the machine idling for 5 minutes to allow the hydraulic system to warm-up to reach the operating temperature (the hydraulic pipes feel warm).

The machine can be operated by only one person! Ensure that there is no other person in the vicinity of the machine.

5.1 In-feed conveyor setup



Set the in-feed conveyor lifting mechanism in the operating position, open the guide plate and, if necessary, move the side cylinders to the suitable position according to the feeding direction of the logs on the in-feed conveyor (Figure 6).

5.2 Operating the RCA 480 joy and RCA 480 joy PLUS

5.2.1. Turning on the RCA 480 joy control



Close the protective cover (G). Press the green S3 button (RESET) located on the main control handle. (Figure 7). Switch off the safety STOP switch (a – Figure 8).

5.2.2 Description of the RCA 480 joy control functions

Main control handle (joystick)

- The main control handle (joystick) has the following functions (Figure 8):

- Left or right → moving the in-feed conveyor in the left or right direction
- Backward → sawing (two-phase – fixing the log and starting up the cutting chain, which is followed by the chainsaw movement)
- Forward → splitting (push the handle in the forward direction briefly, do NOT hold it this position)

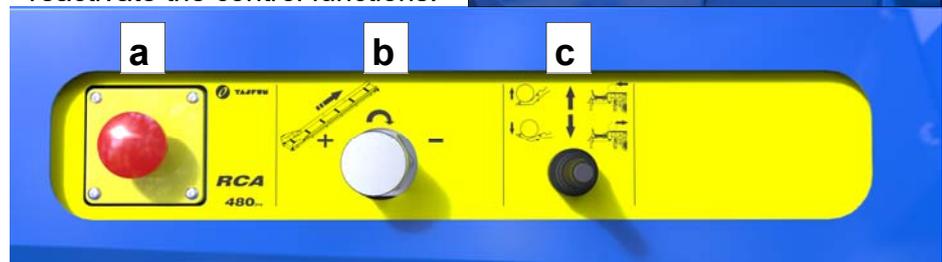
- The control handle buttons:

- Yellow buttons → moving the splitting wedge up/down
- Red button → returning the splitting cylinder home from any position
- Green button → RESET function; manual opening of the trapdoors After each machine shut down (lifting the cover, pushing the STOP switch) push the RESET button to reactivate the control functions.



Additional functions:

- **a** → safety STOP switch
- **b** → conveyor belt speed regulator
- **c** → log loader – conveyor chain



Additional functions – conveyor (Figure 9):

- UP/DOWN → raising and lowering the conveyor by means of a hydraulic winch
- LEFT/RIGHT → moving the conveyor left and right (15° to each side).

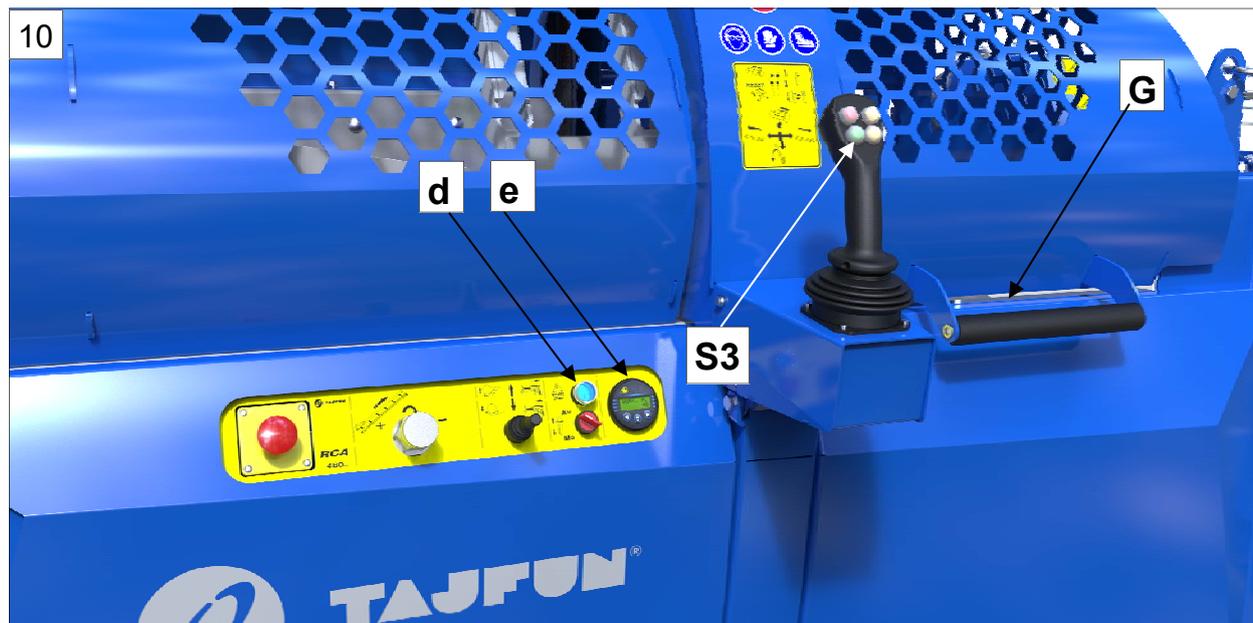
Warning!

The speed of these functions depends on the conveyor belt speed valve settings.

If the speed is set too low, the hydraulic winch brake remains engaged and the winch does not operate.



5.2.3 Turning on the RCA 480 joy PLUS control



Close the protective cover (G). Press and hold the “d” switch for approximately 3 seconds to allow the “e” display to light up. This procedure also activates the computer. Press the green **S3** button (RESET) located on the main control handle. Switch off the safety STOP switch (a – Figure 12).

5.2.4 Description of the RCA 480 joy control functions

Main control handle (joystick)

- The main control handle (joystick) has the following functions (Figure 11):

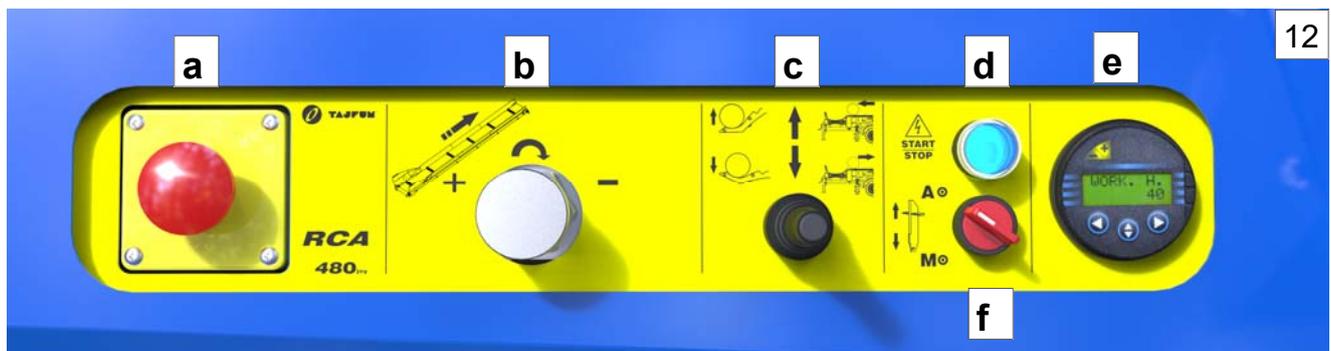
- Left or right → moving the in-feed conveyor in the left or right direction
- Backward → sawing (two-phase – fixing the log and starting up the cutting chain, which is followed by the chainsaw movement)
- Forward → splitting (push the handle in the forward direction briefly, do NOT hold it this position)

- The control handle buttons:

- Yellow buttons → moving the splitting wedge up/down, unlocking the lifting mechanism used for splitting wedge replacement (Section 6.4.2)
- Red button → returning the splitting cylinder home from any position
- Green button → RESET function; manual opening of the trapdoors After each machine shut down (lifting the cover, pushing the STOP switch) push the RESET button to reactivate the control functions.



11



12

Additional functions (Figure 12):

- **a** → safety STOP switch
- **b** → conveyor belt speed regulator
- **c** → log loader – conveyor chain
- **d** → computer on/off switch (3 sec)
- **e** → selector switch for automatic balancing of the splitting wedge
 - A -> automatic balancing
 - M -> manual balancing
- **f** → display for PTO shaft revolutions, operating hours, oil temperature, pressures, output, ...

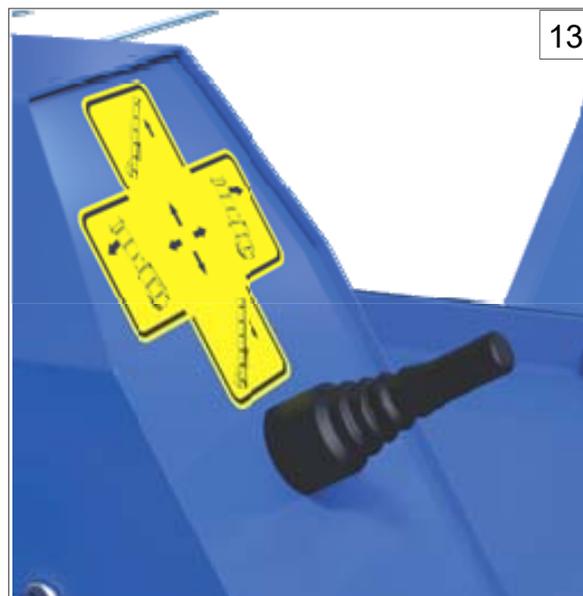
Additional functions – conveyor (Figure 13):

- UP/DOWN → raising and lowering the conveyor by means of a hydraulic winch
- LEFT/RIGHT → moving the conveyor left and right (15° to each side).

Warning!

The speed of these functions depends on the conveyor belt speed valve settings.

If the speed is set too low, the hydraulic winch brake remains engaged and the winch does not operate.



5.3 Display – functions and controls (RCA 480 joy PLUS)

Control panel display (Figure 14) is used to display information, which might be useful to the machine operator. The display can also be used for entering data by selecting different values (language, cutting length, output reset).

The display comprises of three selector keys (1, 2, 3), screen (4) and indicator lights (5).



5.3.1 Setting display language

Setting language:

Select the language by pressing the key 3 on the home display (RCA 480 JOY.

(Figure 15).

Select between available languages by using keys 1 and 2.

Confirm the selection by pressing the key 3 again.

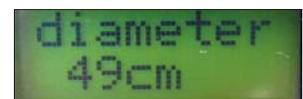
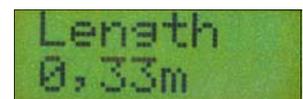
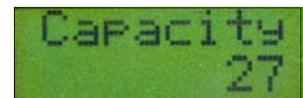
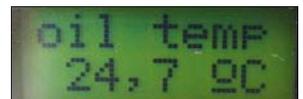
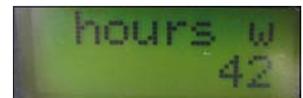


5.3.2 Selection of displayed values

Use keys 1 and 2 to switch between screen displays and use key 3 to select among the available values.

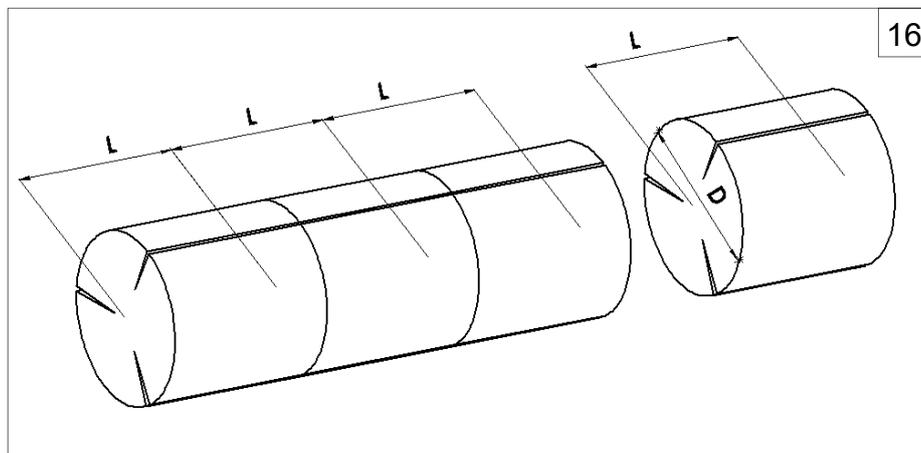


- PTO shaft revolutions [min^{-1}]
- Operating hours
- Operating pressures (1, 2, 3)
- Hydraulic oil temperature
- Machine output [m^3]
Display reads: total output, interval output and average machine output (Section 5.3.3).
- Setting cutting length (key 3)
- Log diameter (measured during sawing)
- Alarm (the red indicator light turns on)



5.3.3 Machine output

The machine output is the volume of wood processed by the machine by means of cutting and splitting. The volume is defined based on the DIAMETER (D) and LENGTH (L) of cut bark-free logs. (Figure 16).



The machine automatically measures the DIAMETER (D) according to the position of the log holder (B – Figure 1), which is detected during sawing.

To ensure correct output volume the LENGTH (L) must be manually set on the display by pressing key 3 (Section 5.3.2) to ensure that the length corresponds to the cutting limiter setting (Figure 20b).

The default factory LENGTH (L) of the machine is set to 33cm. If you forget to set the value on the display to correspond to the saw length limiter setting, prior to operation, the machine will operate according to the default factory setting or the last input length value.

Total machine output [m³]

is the total volume of wood cut and split by the machine from the beginning of its service. This value cannot be deleted or set to zero (“0”).

Interval machine output [m³]

is the total volume of the wood cut and split by the machine from the last reset of value to baseline “0” (key 3 – Section 5.3.2).

Average machine output or productivity [m³/h]

is measured during the last interval output – from the last value reset to “0”. The value is refreshed every 15 minutes.

Important!

The calculated output depends on the quality of the diameter measurement and may lead to deviations in case of warped wood. The calculated output is for **informational use only**.

6. MACHINE OPERATION

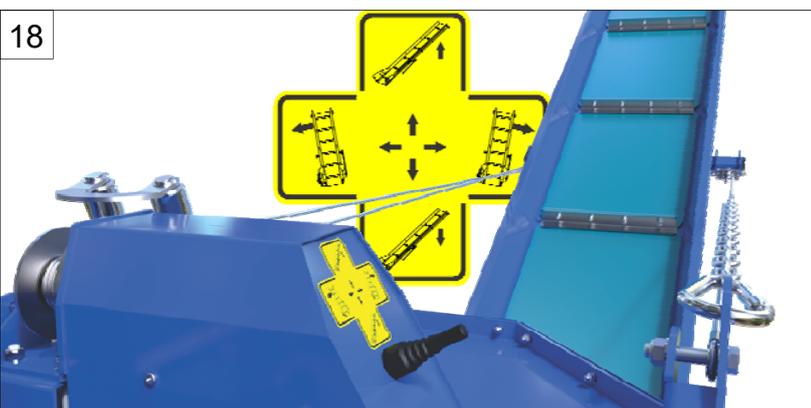
6.1 Conveyor

Lift and low the conveyor by means of the hydraulic winch and fix the conveyor at the desired height with a load chain. The conveyor can also be moved from the center position to left or right for 15° (Figure 17).

Prior to operation place the conveyor into the working position:

- the machine must be running (Section 5.2.1, 5.2.3).
- Move the control handle on the hydraulic winch (Figure 18) to the right side for the winch to begin unwinding and the conveyor to shift from the vertical position. If necessary, gently push the conveyor away from the machine. Do not set the conveyor belt speed regulator valve (**b** – Figure 12) to minimum, because this setting will prevent the disengagement of the hydraulic winch brake.
- Place the conveyor under the desired inclination angle (maximum 45°) by moving the control handle up or down.
- Shut off the valve completely (**a** – Figure 19) and press and hold the yellow button on the main control handle (**L** – Figure 1) until the telescopic conveyor is extended to the maximum.
- If necessary, use the control handle on the hydraulic winch (Figure 18) to move the conveyor to the left or the right direction.

The conveyor belt speed can be regulated by means of a conveyor belt speed regulator valve (**b** – Figure 8, 12)



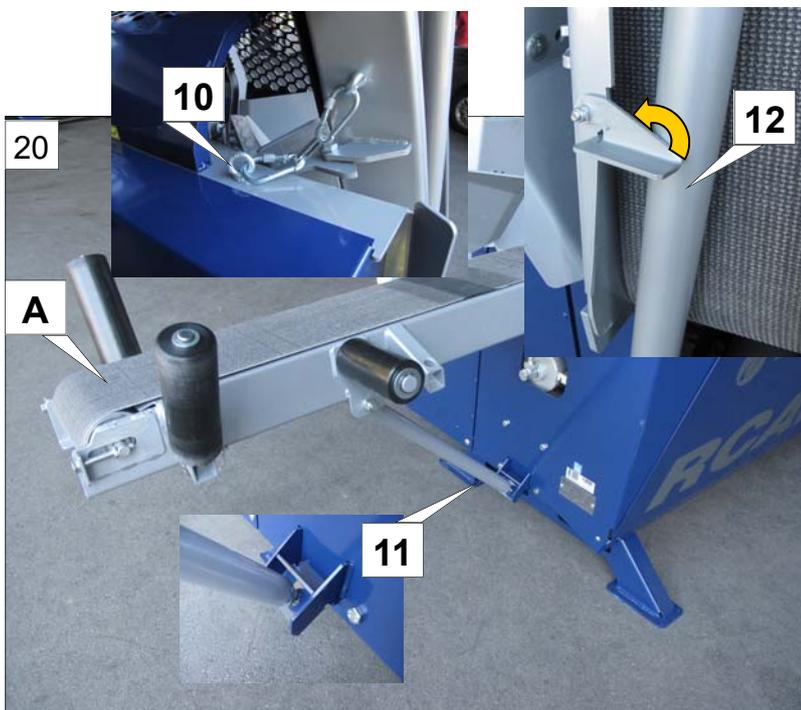
6.2 Log feeding

Before operation place the in-feed conveyor in a horizontal operating position:

- Pull out the safety pin (10 – Figure 20).
- Remove the support limiter (12 – Figure 20).
- Lower the in-feed conveyor (A – Figure 20) to the horizontal position and support it using the supporting leg (11 – Figure 20).
- Set the supporting leg so that the upper rod on the conveyor belt in the middle of the in-feed conveyor is slightly elevated above the table (factory default setting).

Activate the feeding by pushing the control handle (Figure 20a) to the right. The feeding can be stopped at any time (when the log reaches the cutting length limiter) by pushing the handle to home (neutral) position. To activate the feeding in the opposite direction push the control handle to the left.

Attention! If the feeding is active after the log reaches the cutting length limiter, (14 – Figure 20b), the in-feed conveyor belt can slip and can become damaged!



During feeding both trapdoors lift and remain in place (Figure 20b) until the end of the sawing phase or until the green RESET button is pushed.

During the feeding phase the cutting length limiter moves in the correct position.



6.3 Sawing

The chainsaw operates only during the sawing cycle, otherwise it is at standstill in the home position. Start the sawing by pulling the main control handle (Figure 8, 11) backwards. Sawing is carried out in two phases. First, fix the log with the log holder (Figure 20c) and engage the cutting chain activation clutch (Figure 20d). This is followed by the saw bar operation. During the sawing operation the handle must be in the “backward” position; otherwise, the saw bar will return to the home position.

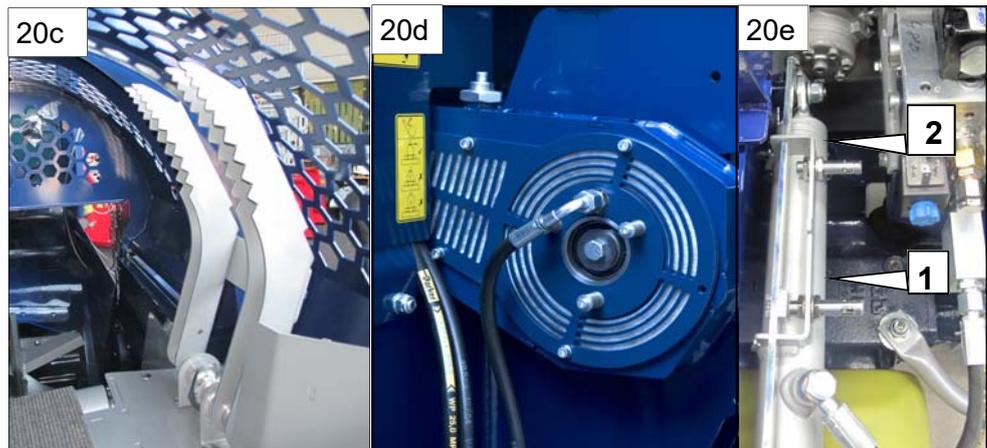
There are two inductive switches located on the saw bar operation cylinder (Figure 20e). Switch 1 (cylinder retracted) prevents the operation of the in-feed conveyor belt, when the saw bar is not in the home position. Switch 2 opens the trapdoors and returns the saw bar to the home position.

The force used by the cylinder to push the saw bar is factory set and must not be modified. The saw bar operation speed is also set to a fixed value. The sawing speed varies depending on the sharpness of the cutting chain and type or diameter of wood.

Prior to sawing always check the sharpness and tension of the chain and the level of the chain lubrication oil!

The wood must remain in the fixed position during sawing. Take extra care when cutting the last piece – both clamps must be well fixed. The movement of the wood during sawing can damage the saw bar and the cutting chain!

The trapdoors provide a smoother transfer of the cut pieces into the splitting chute and are in the horizontal position throughout the sawing operation. The trapdoors open when the saw bar reaches the bottom position (2 – Figure 20e). The trapdoors can also be opened manually at any time by pressing the green button on the control handle. This is particularly useful when cutting warped wood, which leans on the trapdoors during sawing and pushes the saw bar from the side thus subsequently interfering the sawing operation.



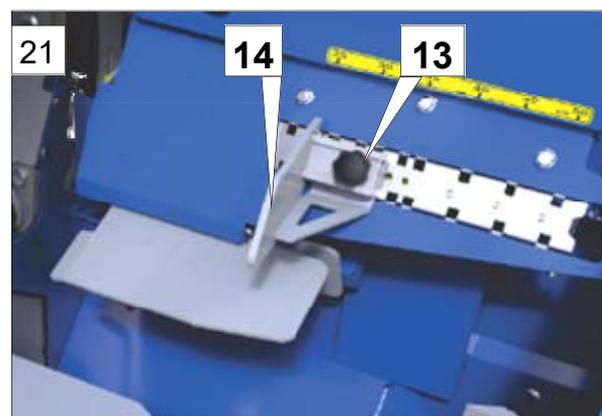
Regularly clean and, if necessary, replace the filter in the chainsaw drive. The dirty filter prevents the clutch and belt cooling air from entering the machine thus decreasing the service life of these elements.

6.3.1 Adjusting the log cutting length

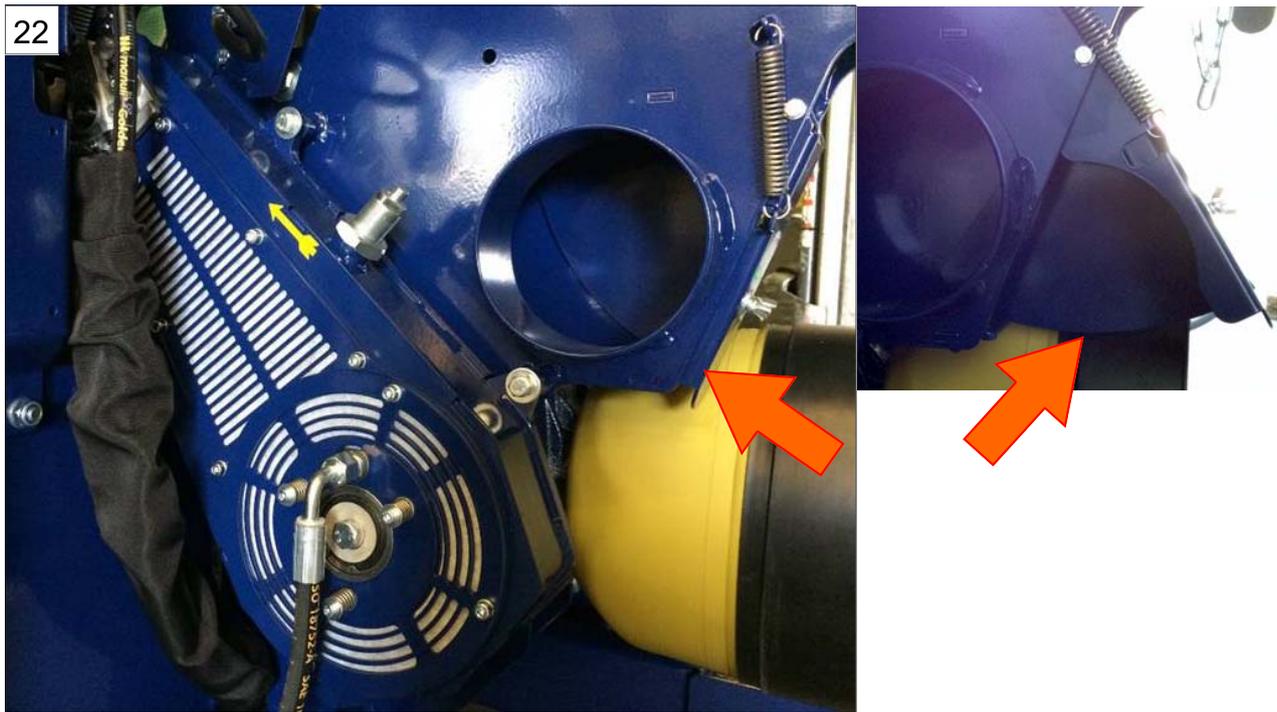
The length of the firewood is set by adjusting the position of the cutting length limiter (14 – Figure 21) by fixing it in the desired position with a screw (13 – Figure 21).

Important!

The RCA 480 joy PLUS machine requires the set length value to be entered via the display as well to ensure the correct calculation of the output (Section 5.3.3).



6.3.2 Removing sawdust



The channel for removing the sawdust is equipped with a hatch (Figure 22), which must be closed if the machine is connected to the suction unit for extracting wood pieces and sawdust (XE 10, XE 10 Hy, XE 11 Hy, etc.). When operating without a suction unit open the hatch and extend the extension line to facilitate the removal of the sawdust from the machine.

The firewood processor is also intended for indoor use; however, only with a connected suction unit.

6.4 Splitting

Splitting is carried out by means of a splitting cylinder that pushes the log towards the splitting wedge. The splitting speed depends on the wood resistance and changes during splitting. Since the splitting speed is inversely proportional to the splitting force, the splitting cylinder provides a higher splitting force at a lower speed and a lower splitting force at a higher splitting speed. The splitting cylinder automatically selects the required speed or splitting force that provides a higher energy efficiency.

Engage the splitting cylinder by briefly pushing the control handle forward (Figure 23). Do not hold the handle in this position! The cylinder will automatically move in both directions (forward and backward). The adjustable switch located under the machine cover returns the cylinder.

Before splitting always check the correct position of the log inside the splitting chute!

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

The cut piece of wood may fall into the splitting chute diagonally. If this happens, open the cover and reposition the piece of wood prior to splitting. Problems may also be caused by wood pieces that were cut sideways (particularly the last piece). These pieces can lift up during splitting and damage the machine.



6.4.1 Adjusting the height of the splitting wedge and replacing the splitting wedge (RCA 480 joy)

Lift or lower the splitting wedge by pressing the yellow buttons on the main control handle (Figure 23). By doing so you place the splitting wedge to the center of the log and ensure the optimum size of the firewood.

It is best to lift or lower the splitting wedge when the splitting chute is empty or when the splitting cylinder starts to move.

The lifting mechanism of the splitting wedge (Figure 24) also allows gradual movement of the splitting wedge up/down during splitting operation. If the wood gets stuck under the splitting wedge, remove the wood to prevent damage to the lifting mechanism.



To replace the splitting wedge:

- Lower the splitting wedge to the bottom position to release the lifting mechanism.
- Pull out the splitting wedge and replace it with a new one.
- Then slightly lift the mechanism to fasten the splitting wedge in the operating position.

6.4.2 Adjusting the height of the splitting wedge and replacing the splitting wedge (RCA 480 joy PLUS)

The RCA 480 joy PLUS allows the automatic balancing of the splitting wedge, since the lifting mechanism of the splitting wedge is connected to the log holder, where the log diameter is measured by sensors installed on the holder.

Use the selector switch (Figure 25) to select between the automatic balancing of the splitting wedge (A) or the manual balancing of the splitting wedge (M).

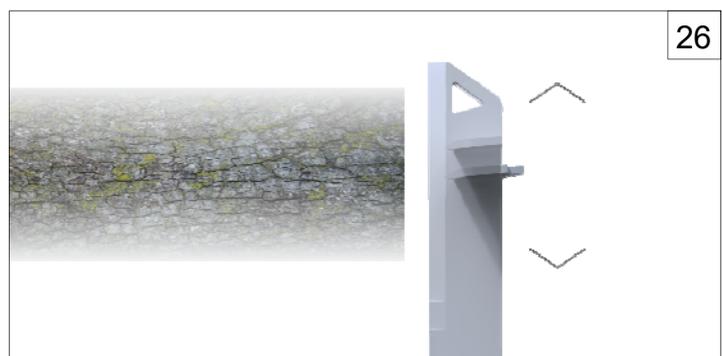
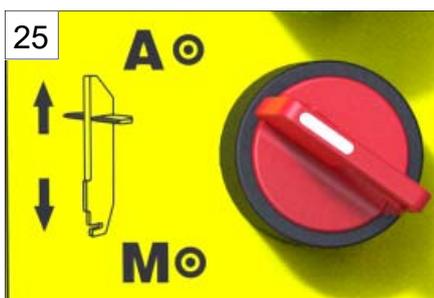
Operation with automatic balancing (A):

The position of the splitting wedge is automatically adjusted to the log diameter. If necessary, press the yellow buttons on the main control handle to further lift or lower the splitting wedge.

Operation with manual balancing (M):

Lift or lower the splitting wedge by pressing the yellow buttons on the main control handle (Figure 27). By doing so you place the splitting wedge to the center of the log to ensure the optimum size of the logs.

The lifting mechanism of the splitting wedge also allows gradual movement of the splitting wedge up/down during splitting operation. If the wood gets stuck under the splitting wedge, remove the wood to prevent damage to the lifting mechanism.



To replace the splitting wedge:

- Clean the area below the blade.
- Continuously hold the yellow button for lowering the splitting wedge for 5 seconds (Figure 27) to allow the lifting mechanism to lower to the bottom position, where the replacement of the splitting wedge can take place.
- Pull out the splitting wedge and replace it with a new one.
- Then slightly lift the mechanism to fasten the splitting wedge in the operating position.

The lifting mechanism has two bottom positions:

- Operating bottom position —> the bottom most position, which can be reached by the lifting mechanism during operation. In this position the splitting wedge is still clamped in the lifting mechanism and cannot be pulled out.
- Bottom position for splitting wedge replacement —> by holding the yellow button for lowering the splitting wedge for 5 seconds, the mechanism moves even to a lower position and releases the splitting wedge.

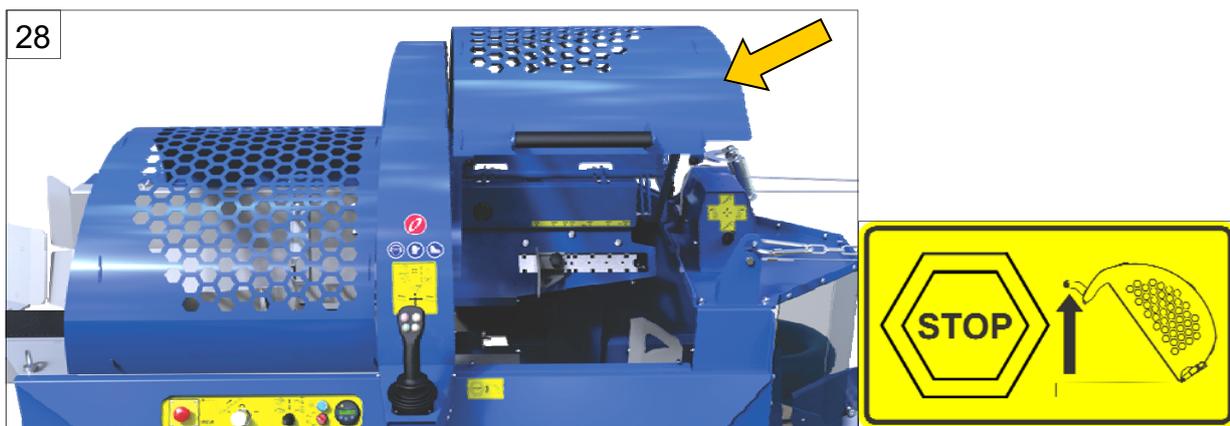


6.4.3 Machine cover with a safety switch

If any problems arise during splitting or if the log is not positioned properly inside the splitting chute, the splitting process must immediately be **stopped** or, prior to that, the cylinder must be switched off to allow the splitting cylinder, which moves towards the splitting wedge, to return.

The machine cover (Figure 28) is connected to the safety switch, which means that all main machine functions are disengaged if the machine cover is lifted: the feeding and the conveyor are stopped, and the splitting cylinder and the saw bar return to the home position. Lifting the machine cover has the same function as the main safety switch.

Manual interventions around the log are possible only after opening the machine cover and stopping the machine. Close the machine cover and disengage the safety switch to continue sawing and splitting. To restore all machine functions push the green RESET button on the main control handle.



6.5 Cleaning during operation

29



In certain areas sawdust and wood residues begin to compile during the operation and must regularly be removed (Figure 29):

- **a** – Wood residues under the machine. If you fail to clean the wood residues, they can clog the area behind the splitting cylinder and prevent the cylinder from returning to the home position. This can increase the pressure during machine idling, as well as cause overheating.
- **b** – Wood residues under the conveyor drive cylinder can damage the conveyor belt.
- **c** – Sawdust ejected by the chainsaw must be removed regularly to prevent the sawdust to fill up the drain channel.

7 MAINTENANCE AND SERVICE

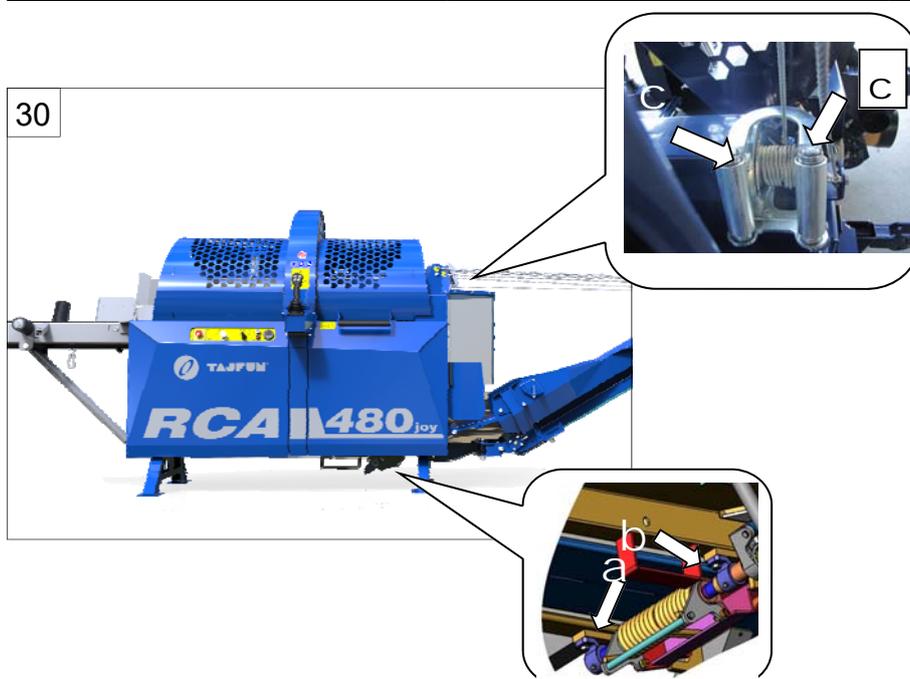
Regular machine maintenance ensures reliable operation and long lifetime of the machine.

Any work on the electric circuit can only be performed by a qualified electrician.

7.1 Maintenance plan

Turn off the machine and disconnect the PTO shaft when performing service or maintenance.

WHAT?	WHEN?	HOW?
Check the tension of the cutting chain.	Before each use.	7.4.
Check the tension of the saw belt.	Every 50 hours of operation.	7.11.1
Tighten any loose bolts and nuts, as well as any hydraulic connections.	<ul style="list-style-type: none"> • After first hour of operation. • Every 100 hours of operation 	Using appropriate tools.
Check the oil level.	Before each use.	Visually.
Change the oil in the hydraulic system.	After 5,000 hours of operation or once every two years.	7.7
Replace the oil filter cartridge.	When changing the oil or if the filter gauge indicator is in the red zone.	Replace the filter cartridge.
Change the multiplication gear oil.	When replacing multiplication gear bearings.	Drain the oil in a suitable container through the lower-most plug and reinstall the plug. Fill the oil through the upper plug.



WHAT?	WHEN?	HOW?
Lubrication (Figure 30)		
Lubrication point: a, b, c	At least after every 80 hours of operation.	Lithium grease.

7.2 TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
The machine does not react to the main control handle or other control handle commands.	The power cable is not connected.	Connect the cable to the tractor outlet.
	The power cable is connected; however, there is no voltage on the socket or the polarity of the socket is incorrect.	Switch on the tractor lights, check the fuses (inside the machine's and tractor's distribution board) and the polarity.
	The RESET button was not engaged.	Before every start-up or after opening the protection cover push the RESET button to restore all the machine functions.
Excessive machine vibrations.	Improper tractor and machine position is causing vibrations of the PTO shaft.	Reconnect the tractor and the machine according to the instructions.
	Worn out PTO shaft.	Check and replace the PTO shaft, if necessary.
Overheating of the machine.	Low level of the oil.	Top with oil of suitable quality.
	Spent hydraulic oil.	Check the oil quality and replace the oil, if necessary.
	The oil filter is clogged and the filter gauge is in the red zone when the oil is warm.	Replace the oil filter cartridge.
	The PTO shaft rotational speed is too high resulting in increased flow and loss, which causes the heating of the oil.	Verify that the PTO shaft rotational speed is between 400 to 430 RPM.
	The splitting cylinder cannot fully return to the home position due to the excessive accumulation of sawdust and wood particles behind the cylinder. This is also indicated by increased pressure when idling.	Lift the splitting cylinder cover and clean the wood residues. Afterwards regularly clean the area under the machine.
	Overheating and loss of splitting force can result leakage inside the splitting cylinder.	Service may be required.
No hydraulic components is functioning and the valve indicator lights turn on when you move the main control handle.	The connection between the angle multiplication gear and the hydraulic pump was terminated.	Replace the sprocket that connects the multiplication gear and the pump (service).
The machine is loud.	The PTO shaft rotational speed is too high.	Verify that the PTO shaft rotational speed is between 400 to 430 RPM.
	Low level of the multiplication gear oil.	Check the oil level and top it, if necessary.
	The PTO shaft with an in-built clutch is loud.	We advise against using PTO shafts with clutches, since they can damage the drive parts. Use the regular PTO shaft or PTO shaft with two wide-angle joints.
	Improper positioning of the tractor and machine is causing vibrations.	Reconnect the tractor and the machine according to the instructions.
	The PTO shaft is not lubricated.	Lubricate the PTO shaft in accordance with the instructions.
The discharge conveyor belt is not operating.	The RESET button was not engaged prior to start-up.	Before every start-up or after opening the protection cover push the green RESET button to restore all the machine functions.
	Conveyor belt speed regulator is set in a minimum value.	Set the regulator to a higher value.
	The gear cylinder is rotating and the belt is at a standstill due to lack of tension.	The conveyor valve must be completely tightened to prevent oil leakage from the cylinder, which is tensioning the belt.
	A piece of wood is mechanically blocking the rotation.	Remove the foreign body and regularly clean the area under the gear cylinder.
The in-feed conveyor belt is not operating or is slipping, and the gauge reads the pressure of 90–100bars.	The hydraulic pipes for driving the log loader cylinders are improperly connected and the oil flow is blocked.	Check the pipe joints and push in the couplings sufficiently.
	The log loader is not attached and the quick couplings behind the table are free.	Turn the valve above the hydraulic system cover (Figure 5a).
	The cylinder is slipping across the belt, which is not sufficiently tensioned.	Tension the belt.
	The log is too heavy and is getting stuck.	Cut the log to shorter pieces.
The belt is pulled to one direction. Applicable to both the in-feed and the discharge conveyors.	Improper setting of the driven cylinders.	Set the driven cylinder to allow the conveyor belt to run in the center.
Leakage of the hydraulic cylinder.	The seal is damaged.	Replace the seal (service).
	The piston rod is damaged.	Replace the cylinder (service).

PROBLEM	POSSIBLE CAUSE	SOLUTION
The splitting cylinder starts the splitting operation, but returns too quickly or returns after another function is activated.	The splitting valve fails to remain in the position due to insufficient mains power.	Check tractor output voltage. If you power the control mechanism with another power supply by converting 220V to 12V, check the power supply output. The current can rise to 16A. DC current from this power supply must be as "linear" as possible without oscillations. A transformer alone does not provide enough power and must include a capacitor of sufficient capacity. Do not use a cable with a small wire diameter or excessively long cable due to high voltage drops in the DC current.
The splitting cylinder moves completely forward, but fails to return automatically. The splitting cylinder can be returned manually by pressing the red button on the main control handle.	The end position inductive switch failed to trigger a signal to return the splitting cylinder.	The position of the switch must be set to detect the end position of the cylinder. The switch is located under the machine cover next to the splitting cylinder.
The splitting cylinder is losing power, switching from high to low speed may take longer, the machine cannot reach maximum pressure. The machine sometimes operates faultlessly and sometimes with errors.	Potential leakage inside the splitting cylinder due to a loosen piston. Potential cracks inside the internal piston rod.	Cylinder repair is required.
Increased pressure (above 50bars) on the splitting gauge (J – Figure 1) when idling. The hydraulic oil can heat up faster.	The splitting cylinder cannot fully return to the home position due to the excessive accumulation of sawdust and wood particles behind the cylinder. This is also indicated by increased pressure when idling.	Lift the splitting cylinder cover and clean the wood residues. Afterwards regularly clean the area under the machine.
The height of the splitting wedge cannot be set.	The splitting wedge may have disengaged from the lifting mechanism.	Reinstall the splitting wedge inside the lifting mechanism.
The drive belt is torn.	The speed of the PTO shaft is too low and the chain is worn out and is not tensioned.	Replace the belt and use proper settings during operation.
	The belt is not tensioned sufficiently.	Replace the belt.
	The chainsaw was blocked during sawing, because the wood was not sufficiently fixed.	Replace the belt.
	The gear bearing is blocked.	Replace the damaged bearings (service).
The saw bar does not move, but the log holder and the chainsaw are operating.	A foreign body got jammed inside the throttle between the hydraulic cylinder and hydraulic block thus blocking the oil intake.	Remove the foreign body by unscrewing the coupling, which holds the saw gauge. Here, a throttle is located inside a small block, where the foreign body is most likely located.
Sawing has slowed down.	The chain has worn out.	Install a sharp chain. The force used by the saw bar to push the wood is always the same; whereas, the cutting speed depends on the chainsaw quality and wood resistance when sawing.
The saw bar is overheating.	Insufficient lubrication increases friction and subsequently causes overheating.	Use dedicated chainsaw lubrication oil, increase lubrication pump flow, check oil level in the lubrication oil reservoir, ensure uninterrupted oil flow to the groove of the saw bar.
The saw bar is pulled in one direction cutting sideways, overheating is also possible.	The saw bar is bent. This was most likely caused by wood movements during sawing.	Replace the saw bar.
	A few cutting teeth on the chain are damaged.	Re-sharpen or replace the chain. Check the saw bar as well.
	The chain damaged the surface of the chainsaw holder. The chain created an edge on the surface of the holder where now the saw bar rests. The saw bar is therefore placed laterally according to the direction of cutting.	Grind off the edge.
The chainsaw clutch is slipping.	The clutch plates are worn out.	Replace the plates.
	The oil is leaking on the slide surfaces.	Identify the source of the oil and degrease the slide surfaces.

More demanding procedures must only be performed by a qualified service.

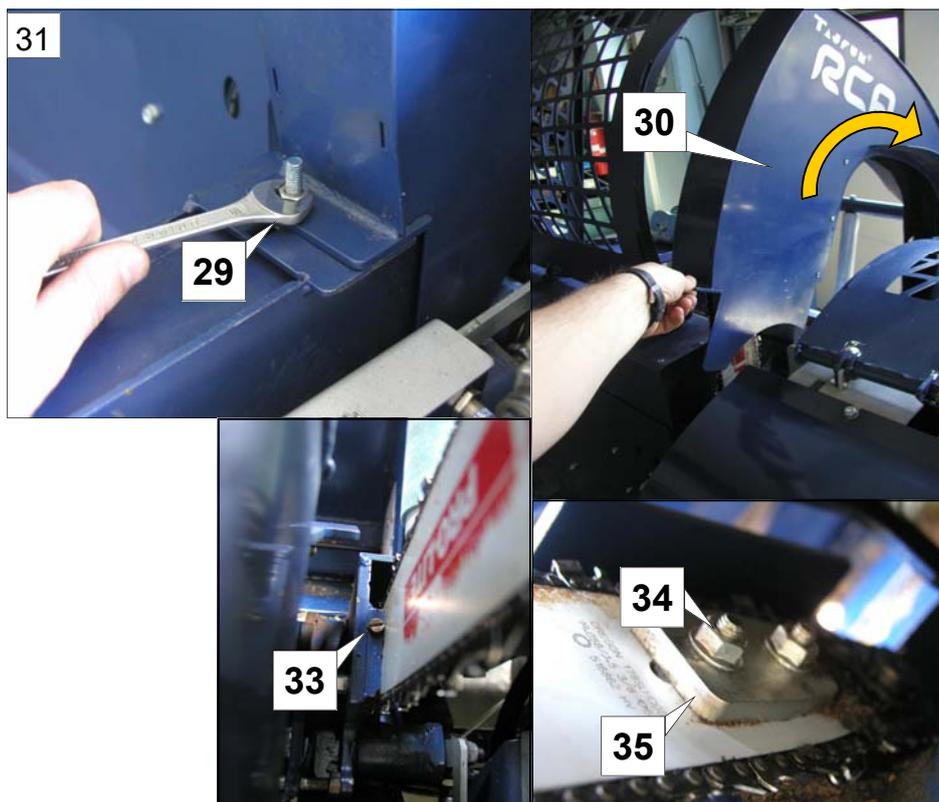
7.3 Cutting chain replacement

Before replacing the cutting chain disconnect the machine drive!

- Disconnect the PTO shaft.
- Unscrew the screw (29 – Figure 31) and move the saw shield (30 – Figure 31) in the forward position.
- Loosen the cutting chain tensioning screw (33 – Figure 31).
- Unscrew both nuts (34 – Figure 31) on the fixing plate (35 – Figure 31) until you can move the saw bar away from the tensioner.
- Remove the worn out cutting chain and replace it with a new sharp chain.
- Make sure the cutting teeth are turned in the right direction – the cutting edge on the top of the saw bar must face the machine controls.
- Replace the cutting chain by carrying out the above steps in the reverse order, but do not forget to tension the chain at the end.
- Remove sawdust from the saw bar holder, lubrication groove and the saw bar.

Wait 2 to 3 minutes for the new cutting chain to run in. Afterwards recheck the cutting chain tension (Section 7.4).

Do not install a new cutting chain on a worn-out sprocket. Replace the sprocket no later than after replacing a worn-out chain for the second time (Section 7.6).



7.4 Tensioning a cutting chain

- Loosen both nuts (34 – Figure 31) on the fixing plate (35 – Figure 31).
- Tighten the tensioning screw (33 – Figure 31) until the chain is properly tensioned.*
- Retighten both nuts (34 – Figure 31) on the fixing plate (35 – Figure 31).

*The cutting chain is properly tensioned when it clings to the bottom side of the saw bar when cold and can still be lifted on the upper side of the saw bar (somewhere in the middle) for approximately three fourths of the gear teeth height.

Always wear gloves when checking the chain tension to prevent cutting your fingers on the sharp chain!

7.5 Angles used for sharpening the cutting chain

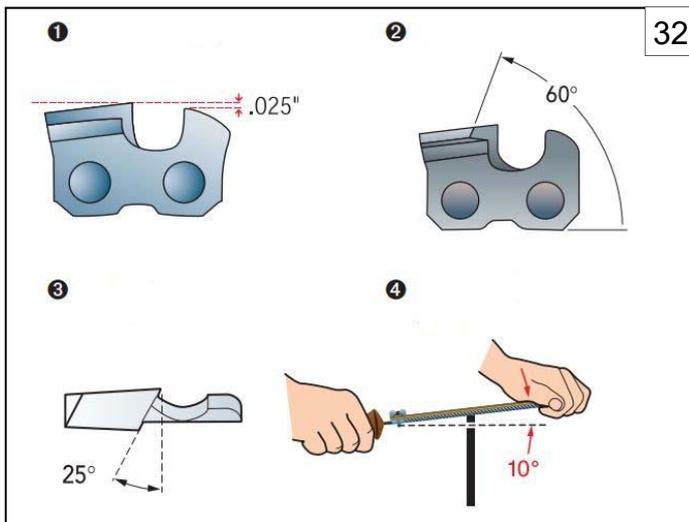
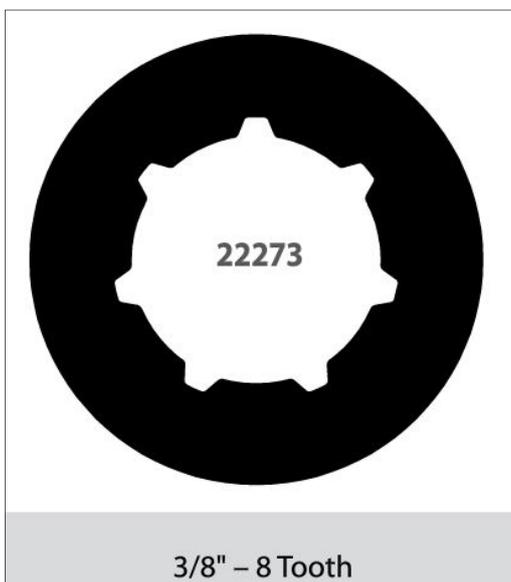


Figure 32 shows the angles for sharpening the MULTICUT 3/8" chain, which is used for firewood processors.

1. Sawdust thickness (0.025" = 0.65mm) – difference between the height of the blade and teeth depth.
2. Prong angle
3. Sharpening angle
4. File inclination

7.6 POWER MATE sprocket

Use only OREGON Power mate 3/8" sprockets (OREGON No. 22273). The sprocket has a wear indicator (X). When the bottom point of the indicator is reached, discard the sprocket.



7.7 Changing the hydraulic system oil

Important:

To prevent pollution dispose of the spent oil in a suitable manner!

- **Change oil after 5,000 hours of operation or once every two years.**
- The oil drain plug is located on the bottom side of the reservoir.
- Hydraulic system oil volume: 100 liters.

Hydraulic oil of suitable viscosity (viscosity: **46mm²/s at 40°C**).

The machine is factory filled with **Hydrolubric VGS 46** (OLMA d.d.) oil.

The hydraulic oil quality must correspond to the following standards:

Standard:	Designation:
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 Replacing the oil filter cartridge

- Replace the filter cartridge for the first time after 200 operating hours, then every 1,000 operating hours.
- The filter cartridge is not washable.
- Reduced filter permeability can be observed on the filter gauge – if the gauge indicator is in the red zone when the oil is heated to the operating temperature (if gauge indicator only sometimes reaches the red zone, filter replacement is NOT necessary).

7.9 Lubrication of the angle multiplication gear

- The machine is factory filled with 1.2l of SAE 75 oil (Renolin CLP 100 DIN 51 517/13).
- Change oil when replacing the multiplication gear bearings.

7.10 Lubrication of the cutting chain

Never operate the machine without lubricating the chain first!

Chain lubrication oil reservoir volume: 8L

Approximate oil consumption: 0.6–1.0L/h

High-quality chain lubrication oils with viscosity grade of 95mm²/s at 40°C are recommended.

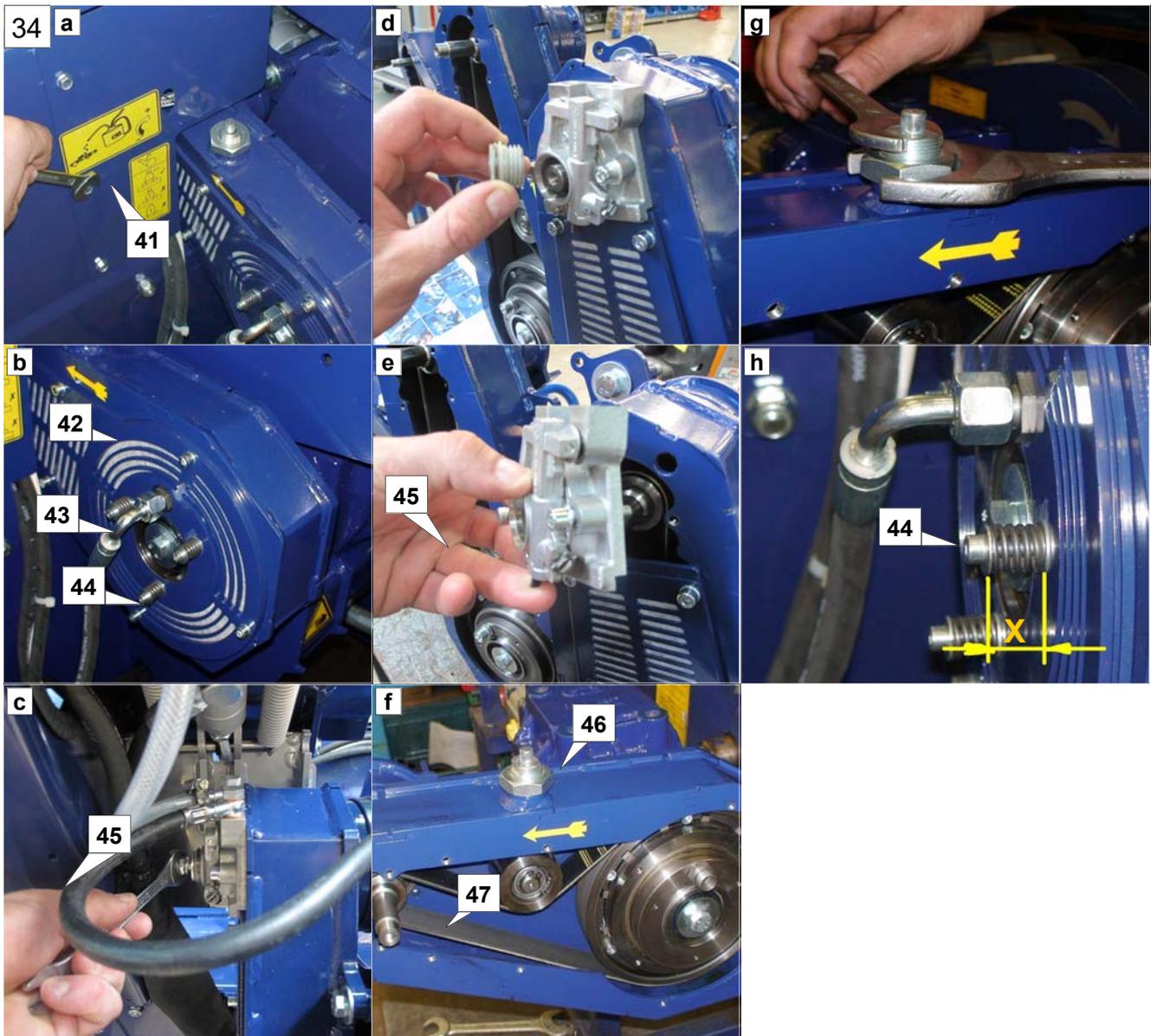


Do not use spent oil!

The flow of the cutting chain lubrication oil can be regulated depending on the oil quality by means of a regulation screw (Figure 33). The flow is factory set to **maximum!**

7.11 Replacing the cutting chain belt

- Disconnect the machine from the drive.
- Remove: drive protection (41 – Figure 34a), drive cover (42 – Figure 34b), hydraulic pipe (43 – Figure 34b), 3 spring screws (44 – Figure 34b).
- Unscrew the lubrication pump (45 – Figure 34c).
- Loosen the belt tensioner (46 – Figure 34f).
- Remove the belt (47 – Figure 34f) from the driven pulley.
- Remove the old belt and clean the drive assembly.
- Insert a new belt.
- Install the belt on the pulley.
- Tension the belt (Figure 34g) and re-attach the elements: lubrication pump (45 – Figure 34e), drive cover with filter (42 – Figure 34b).
- Screw the spring screws (44 – Figure 34h) and apply LOCTITE 222 (or equivalent). Ensure that the distance **X** is 17mm. **Attention!** Do not fully compress the spring, since this prevents the operation of the clutch.
- Fasten the hydraulic pipe.
- After one hour of test run recheck the belt tension (first disconnect the machine from the drive). Afterwards recheck the belt tension every 50 operating hours.

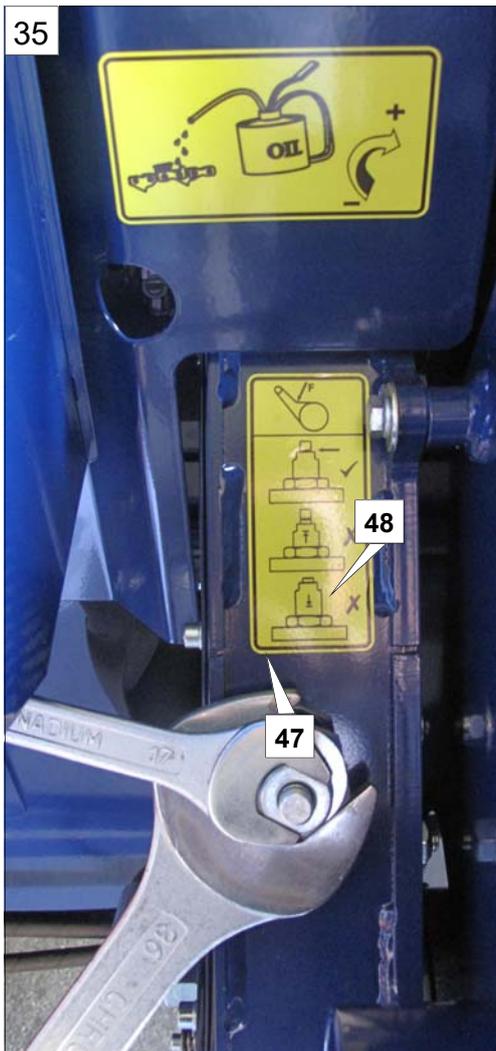


7.11.1 Belt tensioning

Tension the belt when the machine is at a standstill!

Set the correct tension of the belt by using the notch on the tension indicator. The notch of the properly tensioned belt must be aligned with the edge of the spring guide. Set the tension of the belt as follows:

- Loosen the safety nut (47 – Figure 35).
- Screw or unscrew the spring guide as necessary (48 – Figure 35) to allow the notch to align.
- Tighten the safety nut (47 – Figure 35).



7.12 Indications of improper use

Some damages that are caused before the end of the service life of machine's exposed components may indicate overload or improper operation of the machine. Manufacturer's warranty does not cover these types of damages:

- Torn or damaged conveyor or in-feed conveyor belt
- Torn chain
- Damaged chain guide (saw bar)
- Damaged or bent framework, splitting wedge or cylinder protection
- Damaged or bent length limiter or hatch
- Torn cutting chain drive belt
- Damages to the control and other handles
- Damages to the framework due to unsuitable transport at the site
- Damages to the conveyor's hand winch
- Damages to the load chain carabiner
- Damages to the splitting wedge holder
- Damaged or broken splitting wedge

Important:

The machine has successfully undergone functional and safety tests. To ensure flawless and safe operation use only original spare parts in case of malfunction. The warrants and customer's rights become void if any other spare parts are used, if repair is carried out in a non-professional manner, if repairs are carried out by unauthorized personnel and in case of modifications or rework.

7.13 Wear and tear parts

The machine incorporates the following wear and tear parts, which are replaced by the customer if necessary. These parts are not covered by warranty defined under the warranty statement:

- Chain
- Drive sprocket
- Chain guide (saw bar)
- Chain drive belt
- Clutch plates
- Conveyor wire rope
- In-feed conveyor
- Conveyor belt
- Splitting wedge
- Oil
- Air filter
- Oil filter

7.14 Spare parts ordering

When ordering spare parts provide the following information:

Machine type and serial number; catalogue no., name and quantity of spare part; customer's correct address.

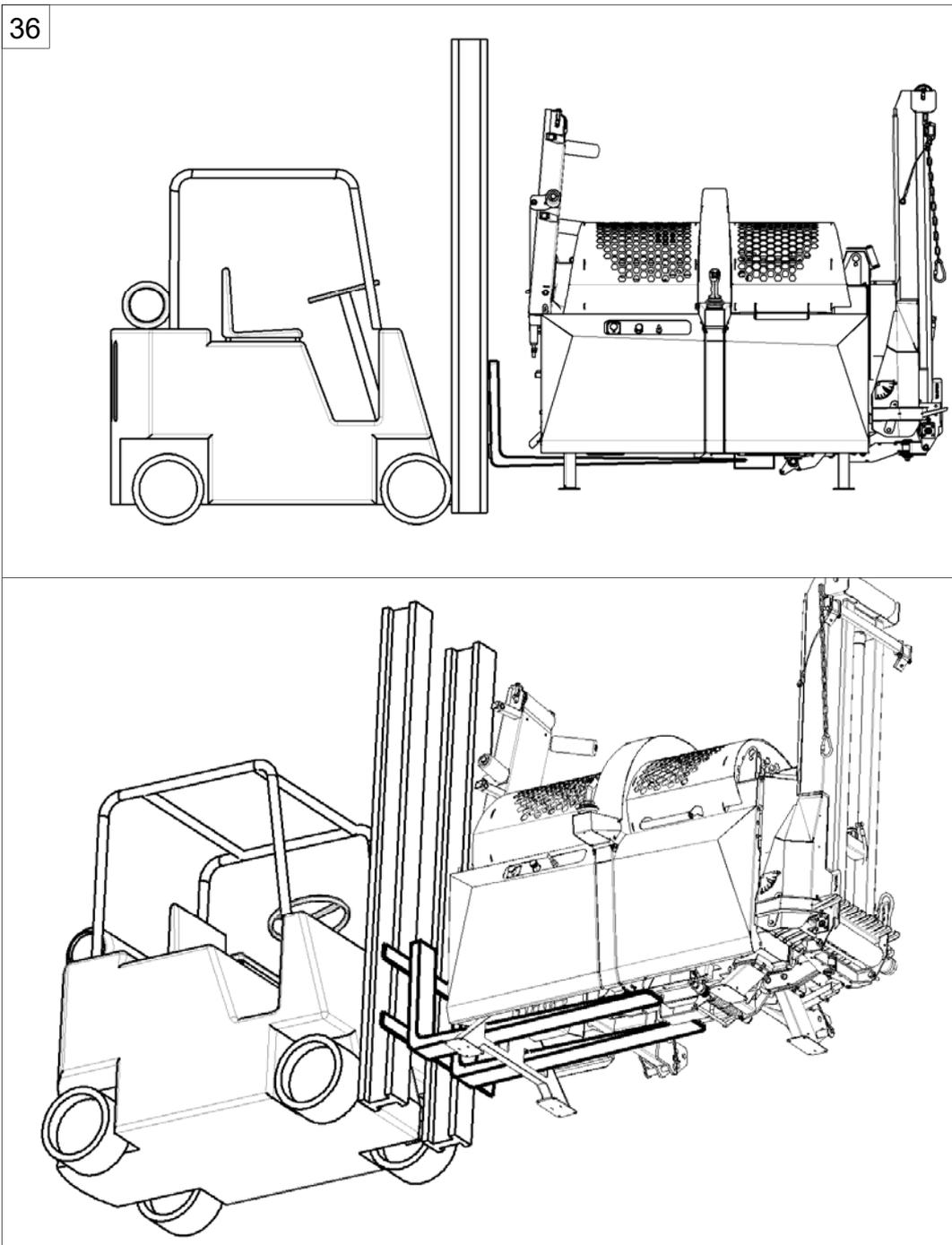
The manufacturer shall provide spare parts and service for 10 years after the purchase of the machine.

8. LOADING AND TRANSPORTING THE MACHINE

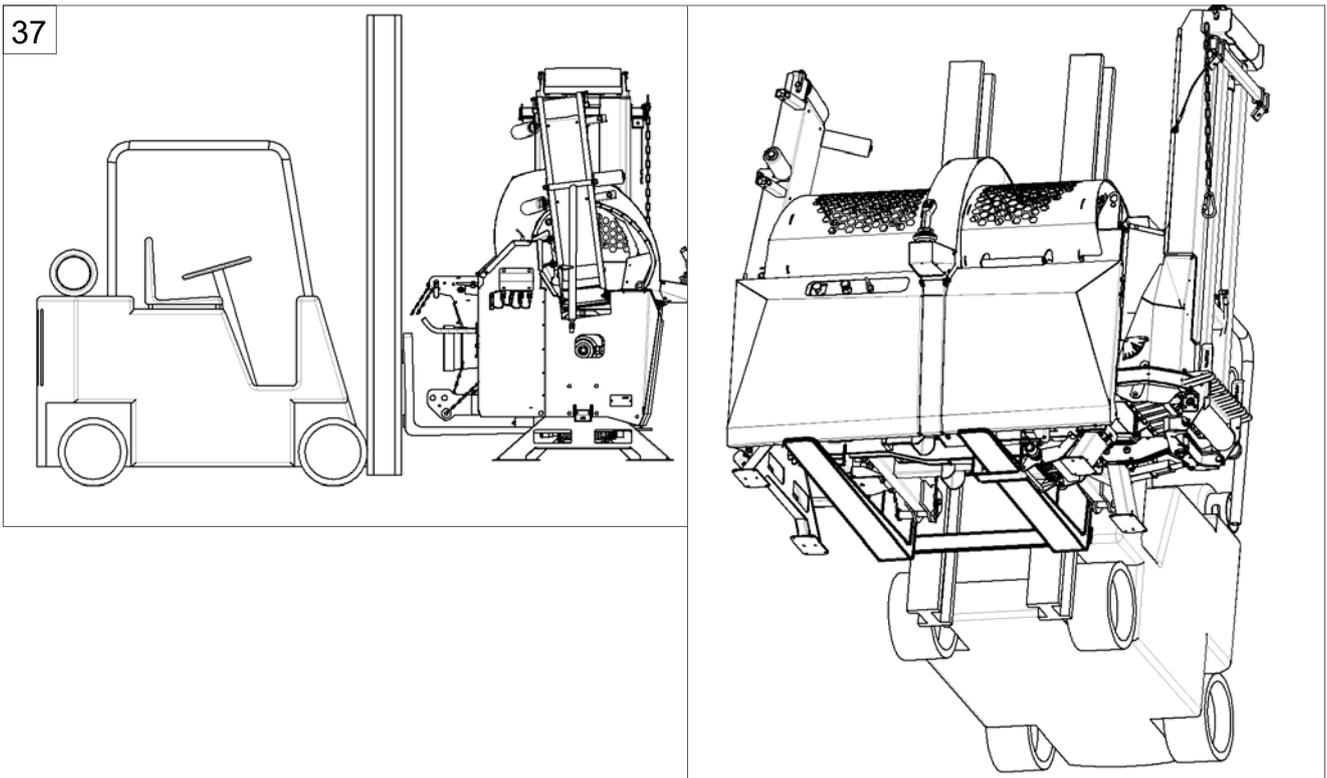
8.1 Loading with a forklift

The loading with a forklift can be carried out from two sides.

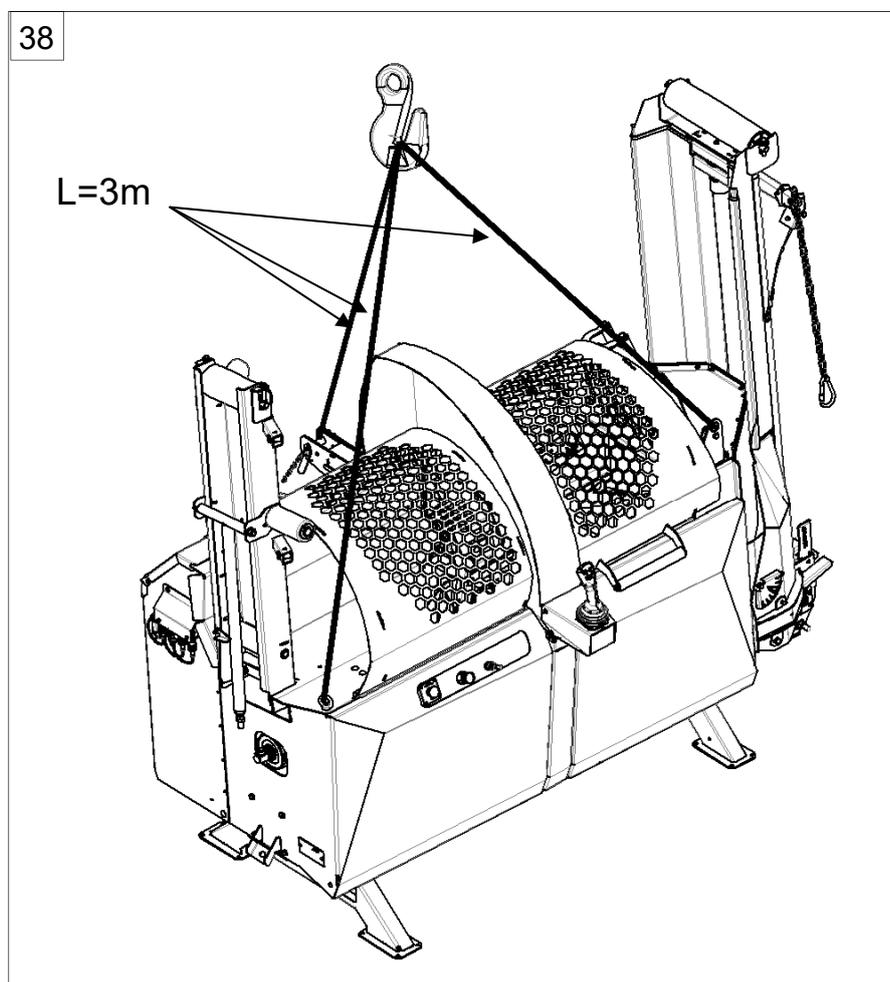
Longitudinally (Figure 36):



Transversely (Figure 37):



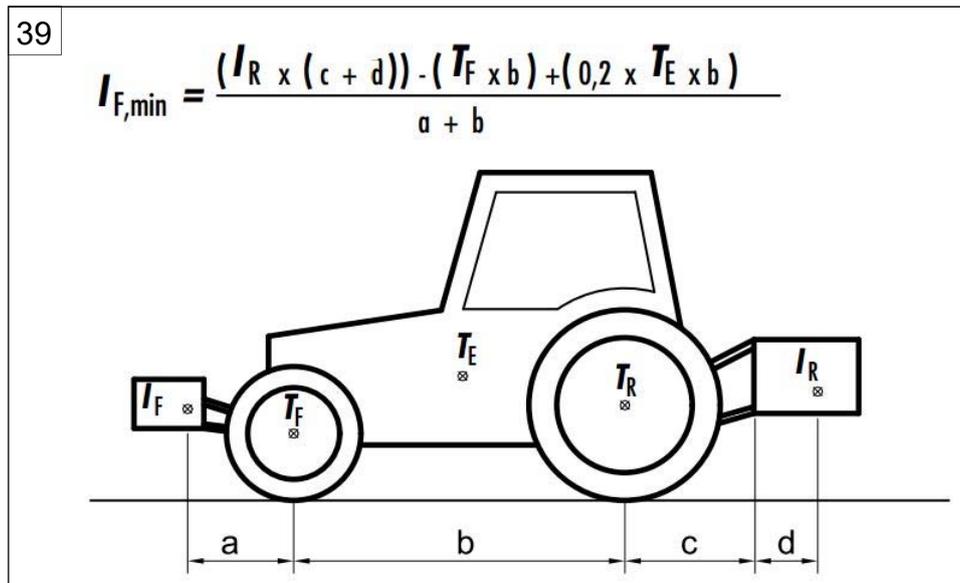
8.2 Loading with the help of lifting straps



8.3 Transporting with a tractor

The machine can be transported with the help of a three-point hitch. Due to the weight of the machine the stability of the vehicle must be verified and additional weights on the front side must be used, if necessary. The force applied to the front wheels must be sufficient and must account for a minimum of 20% weight of an empty tractor.

To calculate the weight mass $I_{F,min}$ use the following formula (Figure 39).



- $I_{F,min}$ [kg] Minimum mass of the front weights
- I_R [kg] Total mass of the machine attached at the rear (1,430kg – RCA 480 joy)
- T_F [kg] Front axle load of an empty tractor
- T_E [kg] Weight of an empty tractor
- a [m] Distance between the center of gravity of the front weight and the centre of the front axle
- b [m] Tractor wheelbase
- c [m] Distance between the center of the rear axle and the centre of connection bolts
- d [m] Distance between the centre of connection bolts and the center of gravity of the attached machine (0.8m – RCA 480 joy)

ES – Declaration of conformity

Manufacturer:

TAJFUN Planina, proizvodnja strojev d.o.o., Planina 41a, 3225 Planina pri Sevnici

declares with full responsibility that the product mentioned hereafter:

**FIREWOOD PROCESSOR
RCA 480 joy
RCA 480 joy PLUS**

covered by this declaration complies with the requirements of:

Machinery Safety Rules – Official Gazette of the Republic of Slovenia No. 75/2008
(Directive 2006/42/EC)

in compliance with the following standards

EN ISO 4254-1:2009; EN ISO 12100:2010; EN ISO 13857:2008; EN 349:1993+A1:2008;
EN 609-1999+A2:2009; ISO 4413:2010

Planina, 15. December 2016

Iztok Špan

*Authorized person for technical documents operating at the manufacturer's location is also the
signee of this statement:*

Director



WARRANTY CERTIFICATE

THE WARRANTY DOES NOT EXCLUDE THE CUSTOMER'S RIGHTS RESULTING THE MANUFACTURER'S LIABILITY FOR PRODUCT DEFECTS.

We hereby warrant as follows:

- Faultless operation of the product if used according to the provided operating instructions;
- To repair any faults and defects, which arise during the warranty period, within 45 days. If we fail to repair the product within the given period, we will provide a new product upon customer's request.

The warranty period is **12 MONTHS** from the date of purchase or delivery, which can be observed from the certified warranty certificate (store's stamp, date of delivery and salesman's signature, serial number, year of manufacture).

The warranty certificate shall only be deemed valid together with the original invoice!

The warranty covers defect of the material and workmanship. If repairs are carried out by unqualified personnel or if other than original spare parts were used, the warranty shall become void! Our warranty also becomes void as follows:

- If these operating instructions are not followed;
- Damages caused by the customer;
- Damages caused by improper use or overload and operation in unsuitable conditions.

We shall provide service and spare parts for 9 years after the expiry of the warranty period.



Product specifications (copy from the type plate):

Type:	Serial no.:	Year of manufacture:
-------	-------------	----------------------

Data on product sale:

STORE (company and headquarters):	Date of delivery:
	Stamp and signature of the salesperson: