



GS/LYNX14P

OPERATING MANUAL

saelen.fr ts-industrie.eu

SAELEN® TS INDUSTRIE®

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DECLARATION OF CONFORMITY

The **TS industrie** Company

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HEREBY DECLARE THAT THE MACHINE:

Trade Name: **TS Industrie**

Type : **GS/LYNX14P**

Engine performance: **10,43 kW**

Technical documentation held by Mathieu Willerval.

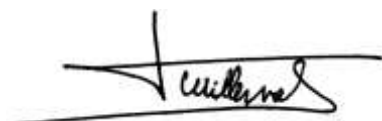
is in conformity with the following European Directives:

- **2006/42/EC** Directive „Machinery“
- **2014/30/EU** Directive „Electromagnetic compatibility“
- **2016/1628** Directive „Emissions“
- **2000/14/EC** Directive „Noise emissions“

Conformity evaluation procedure concerning directive 2000/14/CE
Annex V.

<i>Power at 3800 rpm</i>	<i>Measured sound pressure level</i>	<i>Guaranteed sound pressure level (EVA)</i>
10,43 Kw	124 dBA	126 dBA

RONCHIN, December 12, 2014



Mathieu Willerval (Production Manager TS Industrie)



Attention!

Before our machines are delivered they pass a tight quality control in the works.

Given that we no longer have a bearing on the machine after it leaves the works, the dealer has to perform another check before the delivery to the end customer.

The following is to be checked:

- Exterior damages produced by transport etc.
- Tight seat of all screw and hose connections
- Filling level of oil, water and fuel
- Complete functional control of all parts

This control is to be confirmed with stamp and signature on the **Machine Delivery Document**. If the fully completed and signed delivery document is not returned there is no right for warranty!

Furthermore, it is required to check all screw connections for tight seat and the laid hoses for marks of abrasion!

Agree a date for this directly with your customer.

Regular inspections according to the operating manual are to be met!

Controlled quality – an important step towards customer satisfaction!
Play your part!

It is strictly forbidden to use the machine if emergency stops, cables, or any other safety device or control device are damaged or not present

Guarantees

Processing of warranty claims

Warranty claims according to the General Business Terms of the manufacturer are valid for the period of 1 year starting with the day of delivery.

Determinative for the moment of the transfer of risk is the date written in the **Machine Delivery Document**. As a matter of principle, warranty claims are to be announced to the supplying franchised dealer. For the preservation of evidence, all parts of the delivered machine covered by this have always to be stored unchanged until the final processing of the warranty claim brought to notice.

Technical modification at machines and/or parts thereof will result in loss of any and all right of warranty claims. The same is applicable in case of inappropriate treatment or use of lubricants and spare parts or accessories not approved by the manufacturer. Transport damages and damages caused by usual wear after commissioning of the machine do not create any warranty claims.

The delivered machine has to be subjected to the obligatory check and inspection intervals specified in the enclosed maintenance schedule. If the obligatory visual check and inspection schedule is not complied with, any and all warranty claims become void. Another requirement for a valid warranty claim is the presentation of a complete proof about the executed obligatory visual checks and inspections.

All warranty and maintenance works are only allowed to be carried out by a specialist dealer authorised by **TS Industrie**.

It is pointed out that warranty works exceeding an amount of 150.00 € is unconditionally to be agreed with **TS Industrie** and authorised by **TS Industrie**. In this case, the manufacturer reserves the right that he carries out the repair.

Prerequisite for the assertion of a warranty claim is the return of the fully completed and signed Machine Delivery Document.



Modifications on the equipment and programming of the electronic system are prohibited because these might have a negative effect on the operational safety and life time of the machine.

**DO NOT FORGET TO REGISTER THE WARRANTY,
OTHERWISE IT WILL BECOME VOID**

**www.ts-industrie.eu
Section: Services / Warranty**



BREVET D'INVENTION

Code de la propriété intellectuelle-Livres VI

DECISION DE DELIVRANCE

Le Directeur général de l'Institut national de la propriété industrielle décide que le brevet d'invention n° 606 607 30 dont le texte est ci-annexé est délivré à :
SAELEN S.N.S. Société anonyme - FR

La délivrance produit ses effets pour une période de vingt ans à compter de la date de dépôt de la demande, sous réserve du paiement des redevances annuelles.

Mention de la délivrance est faite au Bulletin officiel de la propriété industrielle n° 6126-6127-6128-6129 (n° de publication 6 755 651).

Fait à Paris, le 07/01/2014

Le Directeur général de l'Institut
national de la propriété industrielle

D. HANGARD

INSTITUT
NATIONAL DE
LA PROPRIÉTÉ
INDUSTRIELLE

SIEGE

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75800 PARIS cedex 08
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Télécopie : 01 42 93 59 30

ETABLISSEMENT PUBLIC NATIONAL

CRÉE PAR LA LOI N° 51-444 DU 19 AVRIL 1951

Preface

We thank you very much for deciding to purchase an universal chipper from **TS Industrie**. Your universal chipper was manufactured with utmost care and high quality standards. In order to meet these requirements also for the mostly professional applications, we kindly ask you to diligently read this operating manual and to comply especially with the warning and maintenance information. Only if complying with all maintenance works within the specified maintenance intervals we can concede the full manufacturer's warranty for your universal chipper from **TS Industrie**.

The operating manual includes several models such that in the introduction is explained how to orient yourself with the help of small pictographs.



Location of the serial number

For any spare parts order or a question regarding technical information have always the serial number of your LYNX 14P at hand.

Manufacturer's type plate



The serial number is located as shown in the image. It does always have **five- or six-digit number**.

Serial number




Do not state the number from the type plate of the trailer.



Safety instructions

1. The machine is only allowed to be used according to the operating manual!
2. In case of machines with engine also the operating instructions of the engine are to be observed.
3. Folding the intake extension up (as far as present) is only allowed after standstill of the rotor.
4. Maintenance, cleaning and setting works as well as the removal of protective devices are only allowed after the engine is shut down, the ignition switched off, the drive decoupled and the tools immobile. Remove the ignition key such that unintended start is impossible.
5. Prior to operation it is required to remove foreign matters, e.g. ferrous parts, stones etc.
6. After maintenance or repair it is to be checked if all protective devices are mounted.
7. The wood chipper is not allowed to be operated in closed spaces because of the risk of intoxication.
8. The rotor must not be uncovered before it has reached standstill. That is to say, the propulsion engine (tractor) is parked and the ignition is in 0-position.
9. The machine operator is responsible that no third persons are staying in the working and danger area.
10. For repairs it is to be observed to use approved original spare parts only.
11. Only persons of over 18 years are allowed to operate the wood chipper.
12. Safety shoes and tight fitting clothes, work gloves with tight gauntlets as well as ear protection and goggles are to be used.

- 
13. For transporting the wood chipper it must be moved into transport position.
- A) Fold the hopper (as far as present) up and check if the locking device is engaged.
 - B) Move the wood chipper into transport position and check if the safety pin has engaged.
 - C) Turn the ejection channel such that it does not jut laterally out over the machine.
 - D) If necessary lift all parking sustainers.

14. When driving on public roads the lighting must correspond to the Highway Code.

15. For work, the wood chipper must be parked stable.

16.

a) Single-axle machines with engine are attached to tractor vehicles, and the parking brake is applied as far as present.

In case of machines without brakes it is required to push the supplied chocks under the wheels.

b) For operation without tractor vehicle it is required to lower the parking sustainers (front and rear).

17. For safety reasons a minimum distance of 10 metres should be kept from the machine.
The expulsion must always be directed away from the operating personnel.

18. Only after the engine is shut off and the rotor is standing still, it is allowed to reach with the hands into the infeed mouth.

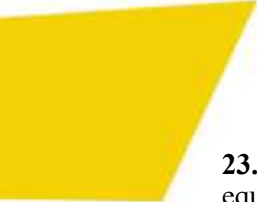
19. The admissible hydraulic operating pressure set ex works is not allowed to be changed.

20. Only trunks up to a diameter of 16 cm are allowed to be processed.

21. The hydraulic system is to be competently checked every year. The hydraulic hoses are to be replaced after 5 years.

22. During feed of the wood chipper do not reach into the feed hopper. Congestions are to be removed in a safe manner (shut the engine down, use an aid). For pushing in short pieces or shrubbery material do only use solid wooden rods or other aids made of wood. Our wood chippers are designed only for manual feed. Do not use mechanical resources (gripper) for feeding the machine.

Do not move in the area of the expulsion.



23. Carry out an functional check every day before starting the machine, especially of the safety equipment (**trailer coupling**, gear linkage, shifting block, cut-off switch on the hoods in case of the M version etc.). Chipping knives and counter-knives are also to be checked for proper functioning and tight seat.

24. Prior to starting the machine the operator must be trained in detail.

25. The rotor must not be uncovered before standstill and the engine is switched off.

26. Danger because of flying off pieces. It is to be observed that also in the operating range pieces such as wood chips might fly out of the hopper area. Body protection is always to be used. Operation is to be carried out lateral of the hopper.

27. Note for all machines with engine:

The inclination of the engine during operation (driving) must amount to max. 25°. In case of reduced oil level the lubrication of the engine is not ensured even at 25°!

28. Caution when parking the machine on a slope. The machine operator has to ensure that the machine is safely stationed for the time of the work.

29. **After connecting the machine to the tractor vehicle, remove and store the support wheel.**

30. The machine must only be fed with wood. Ensure that no stones or metal objects enter the machine.

31. The machine must not be used for transporting material or persons.

32. The machine must not be used for pushing or towing.

33. Battery acid is a caustic fluid. Therefore any contact with eyes, skin and clothes must be avoided. In case of contact rinse all affected areas with water and go see a doctor, if required.

34. Always disconnect the battery before any work on the electric installation.

35. Only **trained personnel** is authorised to carry out these works. The execution of all installation and removal works as well as special maintenance works is reserved for an authorised specialist dealer.

36. Pay attention that you are not drawn into the infeed roller with the clothes.

37. Regularly clean the lateral skirt such that it remains transparent.

Pictographs

Wear eye and ear protection!



Use protective gloves with specially tight gauntlets!



Wear safety shoes!



Do only touch machine parts after they are at a complete standstill!



Keep sufficient distance to rotating machine parts!



Pictographs

While the drive is running never open and remove protective devices!



Read the operating manual before start-up!



Do not stay in the area of the expulsion if the machine is running! Hazard area!



Shut down the engine and remove the key prior to any maintenance and repair work!



Caution! Entanglement.

Never reach into the infeed hopper while the engine is running.

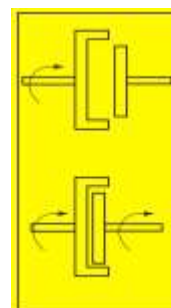


Fill the fuel tank with **gasoline**.



Gear lever up =
Rotor disengaged

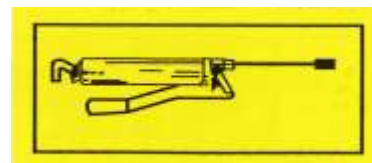
Gear lever down =
Rotor engaged



The machine is operated with hydraulic oil HV46.

HYDRAULIC

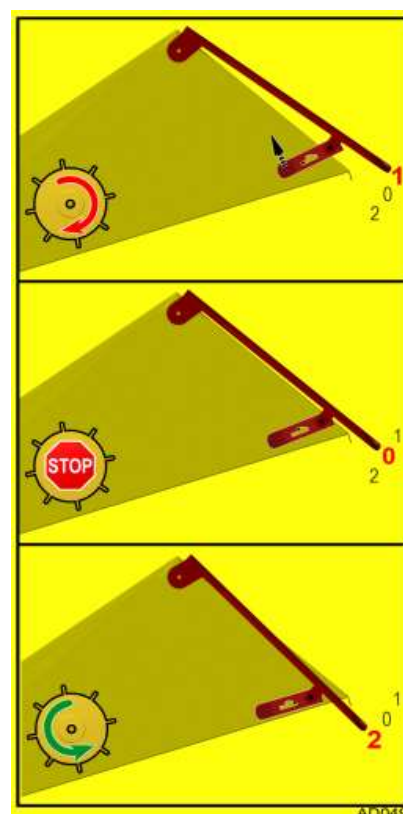
Lubrication points



The sound level of the working machine is not the value of the standard level on the sticker.



CONTROL OF THE FEED ROLLER

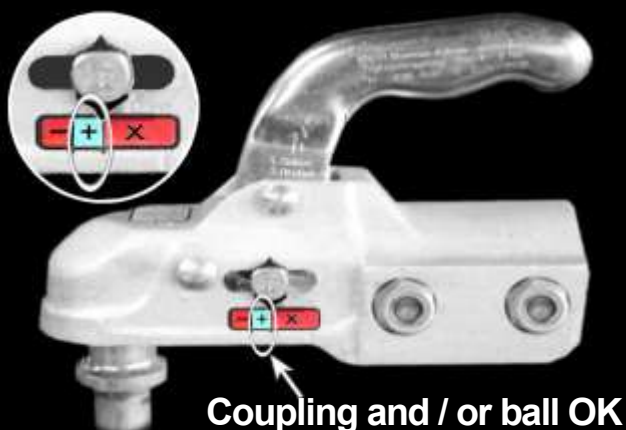


Safe transport

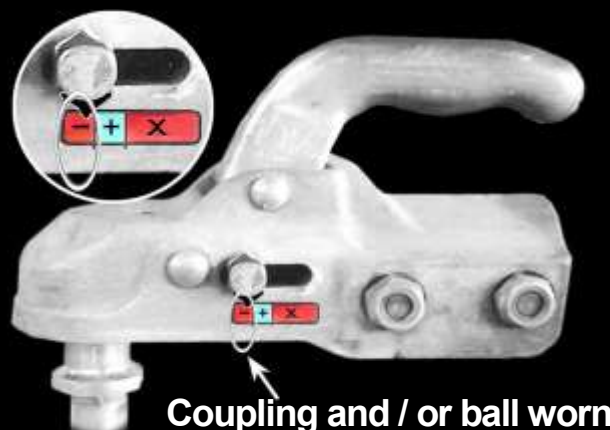
- 1) Observe the valid Highway Code.
- 2) Ensure that the machine is always fitted with signal lights, which are clean and visible for other road users.
- 3) Reduce speed when driving on rural roads and unlevel routes.
- 4) Remove all remaining material from the hopper.
- 5) Turn the expulsion chimney completely to the front and fold the expulsion hatch completely down.

Coupling wear indication:

Check the wear indication each time the machine is hooked up to the tractor vehicle. Acquire the habit to replace the coupling dog and / or coupling ball of the vehicle as soon as the wear indication hits the negative area, such that you cannot loose the chipper when driving on rough roads or driving against a kerb when reversing.



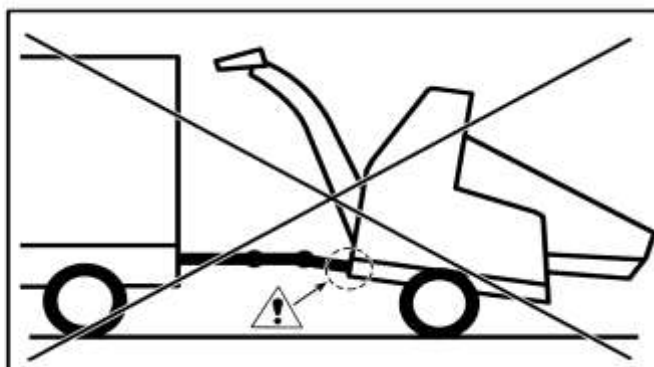
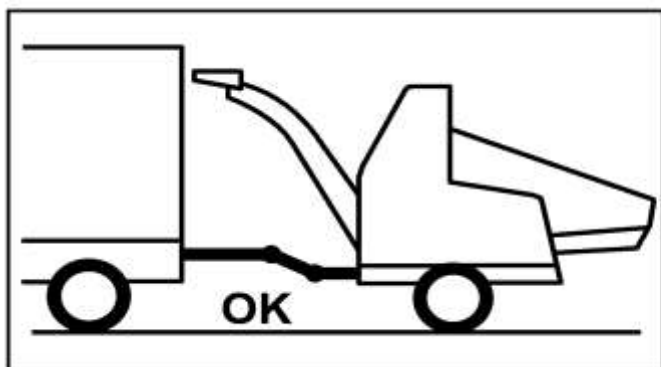
Coupling and / or ball OK



Coupling and / or ball worn

Coupling to a vehicle:

The chipper should always be coupled in horizontal position such that the machine is prevented from tilting backwards AND check every day that the drawbar adjusting devices are secured to prevent jerky movements, which damage coupling and towing device and reduce the life span.



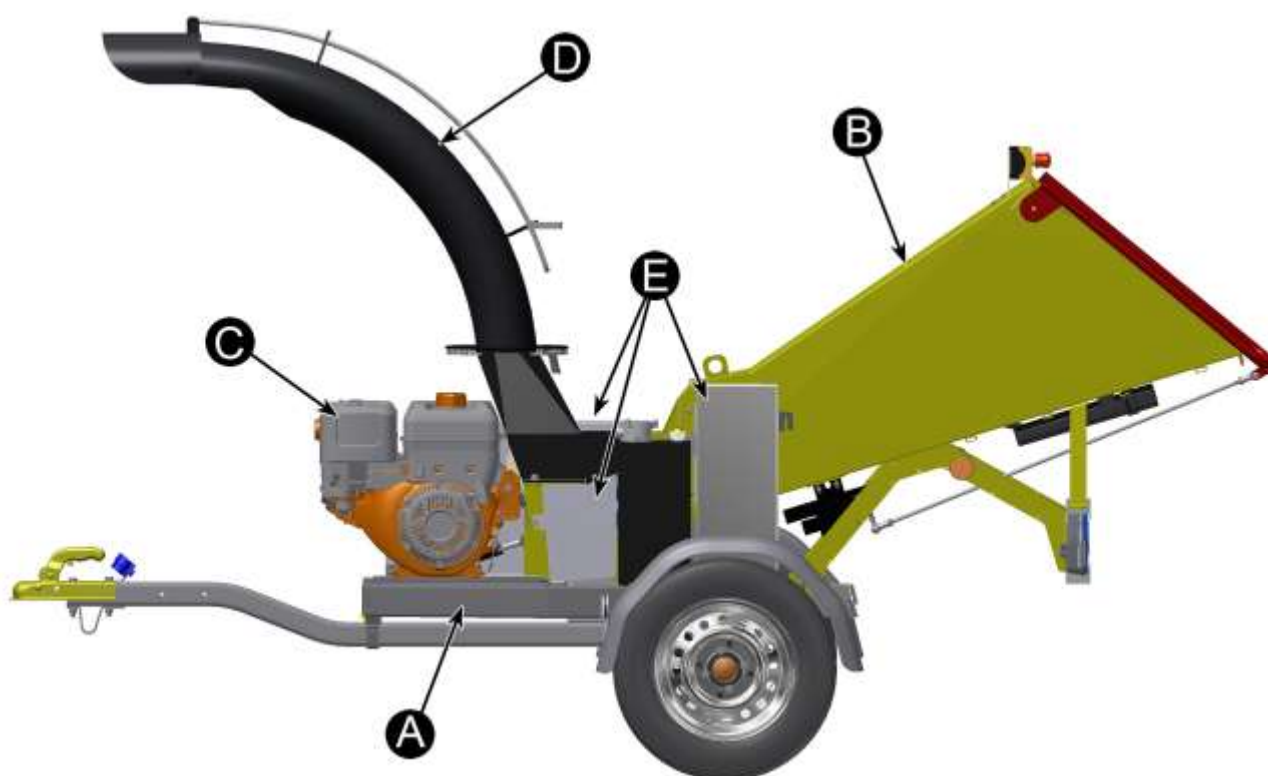
General description and functions

DESCRIPTION OF THE MACHINE

The chipper **LYNX 14P TS Industrie** is designed for chipping branches up to a **diameter of 3,94 inches**.

The machine consists of the following main components:

- (A) : Frame
- (B) : Chipping unit
- (C) : Engine and drives
- (D) : Expulsion chimney
- (E) : Noise insulation hoods



General description and functions

A. Frame

The frame is used for allocating the different components of the chipper **LYNX** and allows an independent movement of the machine.

B. Chipping unit

The unit consists of one infeed hopper (1), one infeed roller (4) and one rotor.

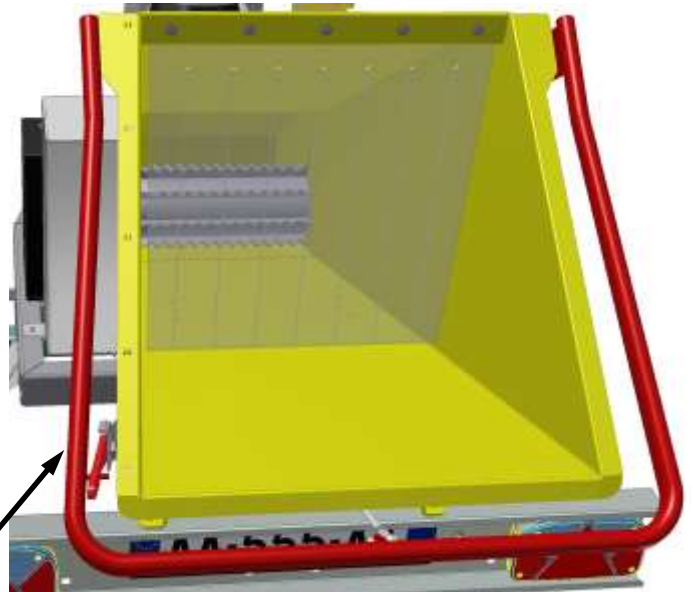
Infeed roller:

The roller transport the chipping material at constant speed in direction rotor. An anti-blocking system disconnects the infeed if the speed of the rotor falls below the minimum speed (chipping unit jammed) and automatically connects again after the speed of the rotor is sufficient for correct chipping work.

Using the gear shift linkage at the infeed hopper, the infeed can turn into both directions (forward and backward).

With the **setting screw** on the distributor below the infeed hopper, the turning speed can be adjusted to the diameter of the wood chips.

Setting screw completely screwed in: Feed roller at maximum speed.



Rotor:

The rotor is the main component of the machine and has the task to chip the material coming from the infeed roller.

The rotor rotates at a constant speed.



General description and functions

C. Engine and drives

The gasoline engine is located above the chipping unit. It supplies the required energy for the drive of the rotor and the hydraulic oil pump **(1)**.

The machine is driven by a single cylinder gasoline engine with an output of 14 HP at 3800 rpm. Further information regarding the engine can be taken from the manual of the manufacturer.

The rotor is driven via the output shaft, the belt pulley **(2)** and 2 V-belts. The hydraulic pump is connected to the engine and drives the hydraulic motors of the infeed rollers.



D. Expulsion channel

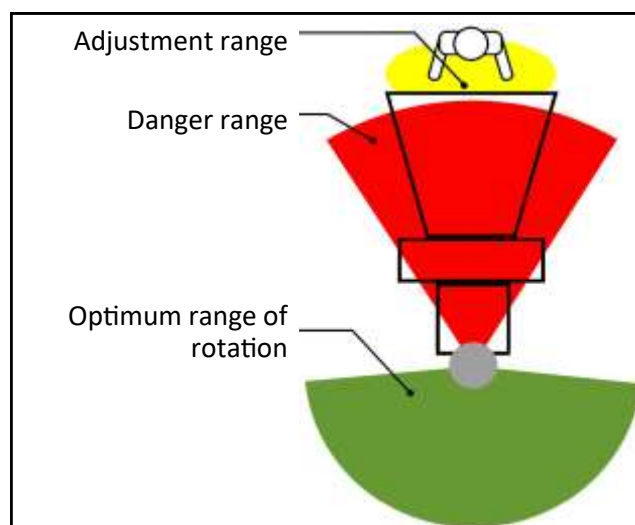
This expulsion channel expulses the chipped material. The upper part can be swivelled by 360° in horizontal position. The expulsion hatch can be adjusted in vertical position.



Caution:

When connecting the wood chipper residual chips can be expulsed.

One electric switch disconnects the engine if the expulsion channel is open towards the rotor.



E. Hoods

Different hoods protect against rotating parts making work safe.

CONTROL OF THE FEED ROLLER

The **LYNX** is fitted with a mechanically controlled hydraulic distributor. Forward and backward mode are controlled with the control rod at the rear end of the infeed hopper.

Note: The engine has to run at max. speed for making the infeed roller turn.

FORWARDS MODE:

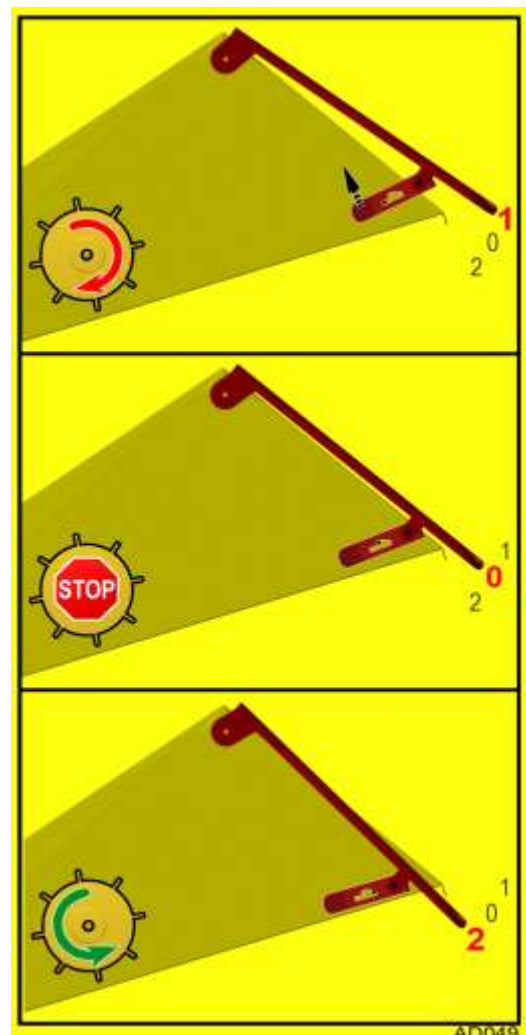
- 1** : - Unlock bolt.
- Move the control rod back.

STOP THE INFEED:

- 0** : The bolt locks the centre position.

BACKWARDS MODE:

- 2** : Move the control rod forward.



COUPLING THE MACHINE TO A VEHICLE

When hooking the wood chipper to a vehicle the procedure is as follows.

With the support wheel adjust the height of the drawbar such that the trailer coupling is standing above the vehicle. Now reel the support wheel in and the open ball head coupling has to engage on the ball of the trailer coupling.

Ensure that the trailer coupling safely engages!

The wear indication on the coupling must be in the green area + (see page 16).

Then connect the arrestor cable with the vehicle and plug in the connector for the lighting. **Reel the support wheel completely in.** check the lighting.

CHECKS PRIOR TO INITIAL START-UP OF THE MACHINE

Every operator has to read and understand the provisions, and has to observe all safety measures included in this chapter. A list with the checks for initial start-up is available to the operator. These checks have to be carried out for safety reasons to ensure the safe and efficient operation of the chipper.

The following points are to be checked before using the machine:

1. The machine is sufficiently lubricated as indicated in the operating manual?
2. Check the following filling levels:
 - Engine oil
 - Petrol
3. Check the hydraulic oil level.
4. Check that the air filter is clean.
5. Check that the engine radiator is clean.
6. Ensure that all hoods are closed and locked.
7. The machine must not be operated in confined spaces. Risk of intoxication because of the diesel engine exhaust gases and dust generation by the chipper.
8. The expulsion channel and the expulsion hatch are only allowed to be adjusted by an authorised operator.

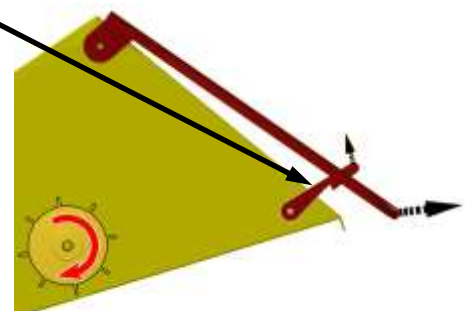
ATTENTION!

In case the machine shows difficulties in chipping the material and has to be switched off, **restart the engine only after having removed the cause and the material was removed from the rotor!!!**

START-UP

Each time before start-up of the machine ensure that it is standing stable on solid ground.

1. Check if the hatch of the expulsion channel is open.
2. Position the starter lever fully to the left.
3. Put the gas lever to the left to part throttle.
4. Turn the contact key to the right and start the engine.
5. Open the choke and have the engine run at idle speed until reaching operating temperature.
6. Push the gear lever slowly down to connect the rotor.
7. Set the engine to max. speed.
8. Unlock the bolt upwards and pull the control rod backward to engage the feed roller.
9. Now work can be started.



Material infeed and operation

INSTRUCTIONS FOR CHIPPING

Watch out for solid foothold of the operating personnel!

Place chipping material on the hopper bottom and move it with the thicker end (trunk) towards the infeed rollers (chamfer the thick end of the trunk).

As soon as the material is captured by the rollers move to the side, because due to unevenness of the trunk there might be material kick-out,

The captured material now is automatically chipped and hurled into the direction (distance) into which the expulsion chimney was set to beforehand,


After the material infeed from time to time attention is also to be paid to the thrown out chippings, and maybe readjust the direction of ejection. The ejection distance of the material is controlled with the ejection hatch.

When chipping splints, barks and brush-wood splintering can be avoided by always feeding the material side-by-side and lengthwise positioned into the infeed channel,

If the feed stops (jamming because of too much material or forked branches), press the **black** button (rollers rotate backwards) and the chipping material is pushed back. Now reduce the material quantity, cut the forked branch, and restart the infeed,

The hopper can only be cleaned using appropriate wooden aids.

Caution:

 While the machine is running do not reach into the hopper! If required, push the kindling further using a wooden slat or wood slider! Never push the chipping material into the hopper using a metal rod or metal slider! It is also prohibited to stay in the danger area! In case of especially thick or hard wood, it makes sense to slow down the engine, reduce the speed until it has reached the rated speed.

If the area of the expulsion chimney is jammed, the hood must not be opened before standstill of the rotor and shut-down drive engine, and then the material can be removed with an appropriate tool.

Noise emission

The chipper produces a guaranteed sound power level according to Directive le 2000/14/EC :

Model	Sound power level EVA [dB]	Sound pressure level [dB(A)]
LYNX	126	123



SAELEN TS INDUSTRIE

Material infeed and operation

SHUT-DOWN

1. Have the chipper run for some minutes empty for removing the residual material behind the infeed roller in the chipper to prevent that the rotor becomes jammed in the next application.
2. For stopping the infeed roller move the control rod forward.



3. Set the engine to idle speed.
4. Turn the key on the control element to the left and shut the engine off.



BIODEGRADABLE LUBRICANTS FOR REDUCING ENVIRONMENTAL POLLUTION

Just by their function, the chippers from **SAELEN** are used as a solution for the sustainable development for the production of compost, mulch and wood chips.

SAELEN chippers are often used in woods, parks, landmarks, in the proximity of lakes and rivers, where leaks and hydraulic fluids signify a risk for the environment.

Therefore, the company **SAELEN** contributes to the environmental protection by supplying their machines with **biodegradable high performance lubricants**.

Corresponds to the agricultural Directive 2006/11/EG.

Advantage of biodegradable lubricants:

- No risk for the environment
- Increase biodegradability
- Not toxic (based on rapeseed and sunflower oil)
- Regenerative
- Very high viscosity
- Excellent wear and anticorrosive properties
- Increased safety for the user
- Increased duration of the components
- Reduced volatility properties





SAFETY INSTRUCTIONS



1. Securely park the machine, remove the contact key and wait until the standstill of all mobile parts before starting the maintenance and repair works,
2. After termination of the maintenance works ensure that all protective devices are properly mounted and are operative.

All machines pass a test-drive before leaving the works. On delivery the hydraulic tank is filled up to the upper mark of the sight-glass with hydraulic oil. The filter has to be replaced after 150 operating hours. Thereafter, the replacement takes place according to the maintenance schedule. The first inspection is integral part of the warranty terms.

Only trained personnel is allowed to carry out maintenance and repair works.

The maintenance of the engine is to be carried out according to the enclosed operating instructions of the engine manufacturer.

On delivery, the bearings are lubricated and the transmissions are filled with oil. It is recommended to perform an inspection of the machine prior to initial start-up.

LUBRICANT: Filling quantity:

Engine: 1,15 l.

Fuel: 6,6 l.

Hydraulic oil: 8,5 l.



Recommended LUBRICANTS:

- 1) Lubricants for bearings, joints and different components:
Multi-purpose high-performance grease SAE (EP).
"SAELEN BIOPLEX "
- 2) Hydraulic oil:
AFNOR NFE 48603 Type HV ISO VG 46
"MINERVA BIO HYDRO 46 "
- 3) Engine oil:
SAE 15W40 according to standard API CH4-CG4-CF
"MINERVA POWER LONG WAY 15W-40 "

Maintenance

ENGINE MAINTENANCE INTERVALS: See operating instructions of the engine

MACHINE MAINTENANCE INTERVALS

Operating hours	Maintenance works
Every day	<ul style="list-style-type: none">- Check function of the safety switches and the red control rod- Check the engine oil level- Check the trailer coupling- Check the tight seat of wheel nuts- Check the lighting equipment
First time after 4 operating hours	<ul style="list-style-type: none">- Check the tight seat of all fastening screws
Every 15 operating hours	<ul style="list-style-type: none">- After the first 50 operating hours: Check the tight seat of the 8 fastening screws from rotor bearings- Check knives and counter-knives- Lubricate both rotor bearings- Check ventilation holes under the rotor for free passage- Check if material is wrapped around the bearings and remove- Check infeed rollers- Check the hydraulic oil level
Every 150 operating hours	<ul style="list-style-type: none">- 1. Replace the hydraulic oil filter (thereafter all 500 operating hours or every 2 years)- Check condition of counter-knives
Every 300 operating hours	<ul style="list-style-type: none">- Check the battery acid level
Every 500 operating hours	<ul style="list-style-type: none">- Change the hydraulic oil (or every 2 years)- Replace the hydraulic oil return filter (or every 2 years)- Replace the intake strainer in the hydraulic oil tank

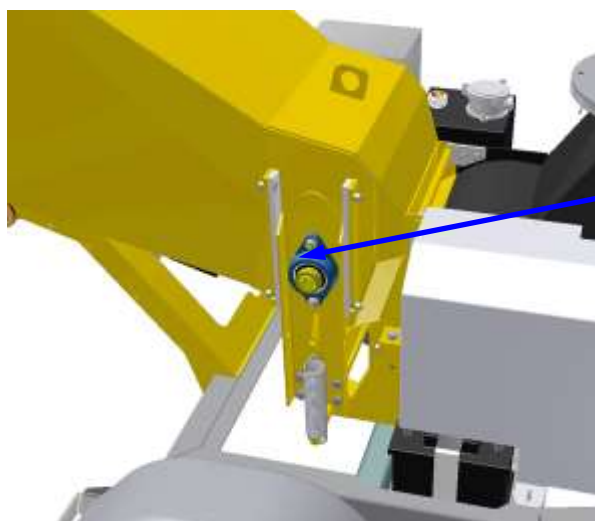
LUBRICATING POINTS



Shut the engine off and remove the key before the lubricating and maintenance works.



ROTOR BEARING LUBRICATION



INFEED ROLLER BEARING LUBRICATION

Maintenance

OIL LEVELS



DIP STICK ENGINE OIL



DIP STICK HYDRAULIC OIL

KNIFE AND COUNTER-KNIFE REPLACEMENT

Remove ignition key before the maintenance works.

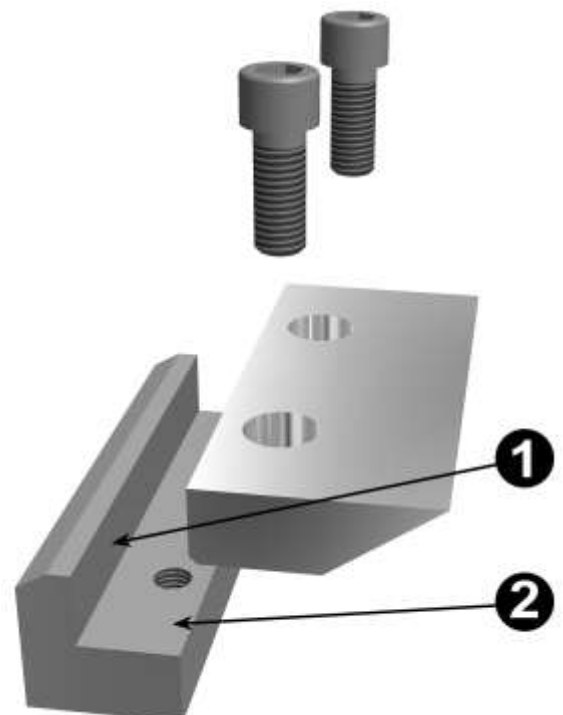
- Ex works, all 6 fastening screws of knives and inserts secured without screwlock medium, with a torque of **157 Nm (16 M.kg)**, and therefore must be loosened using a corresponding tool.
- At the left and right side of the chimney base unscrew the two nuts and open the expulsion chimney.
- Turn the chimney backwards or place it on the ground.



- Unscrew all fastening screws from knives and inserts. Do always use new screws of **class 12.9** for installing knives and inserts.
- Clean contact surfaces **(1)** and shoulders **(2)**.
- Install new or sharpened knives of identical weight.

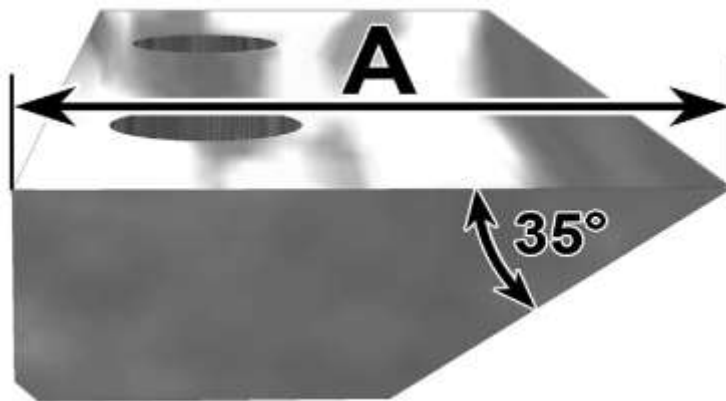
IMPORTANT: Only a specialist is allowed to sharpen the knives on an appropriate machine and not on a portable grinding machine.

Also it is to be observed that the edge of the knives is to be sharpened at an angle of 35°.



Maintenance

After sharpening, the length **A** must not fall below 50 mm (a new knife has a length of 60 mm).



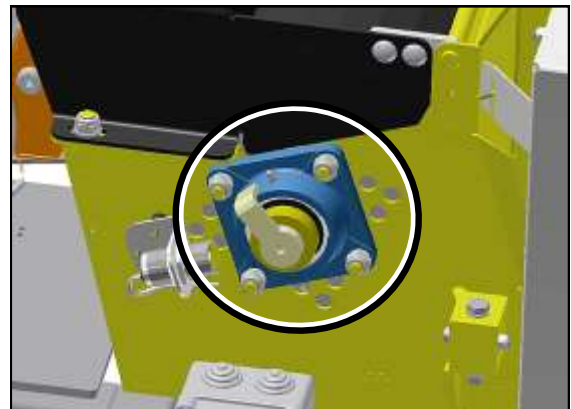
Do only use screws of type TCHC 12 X 40 class 12.9.

- Tighten screws of class 12.9 applying a torque of 157 Nm and ensure correct seat of knives and inserts.

Tightening with the correct torque is important to prevent the screws from coming loose.

- Close expulsion channel and hoods again.
- Start the engine and have it run until it has reached operating temperature.
- Accelerate the engine up to maximum speed and check if the machine produces unusual vibrations.

VENT OPENING UNDER THE ROTOR



For improving the rotor ventilation and the material expulsions, the **LYNX** is fitted with another vent opening under the rotor, additionally to the standard two lateral vent openings.

These air intakes must be checked for cleanliness and free passage in regular intervals.

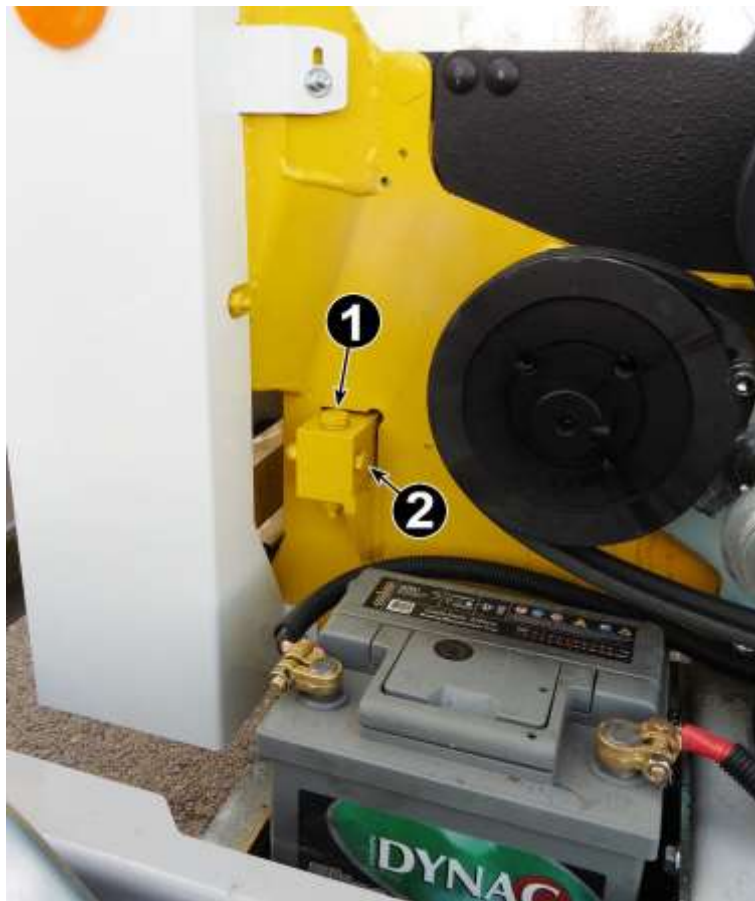
CHECK COUNTER-KNIFE

Remove ignition key before the maintenance works.

- Unscrew retaining screws Ø10 (1) at both ends of the counter-knife.
- Unscrew both locking screws Ø8 (2).
- Pull the counter-knife partially out of the housing. If the edge is worn, pull the counter-knife out of the housing, give it a quarter turn, such that the new edge is pointing towards the knives, and push the counter-knife back into the housing.

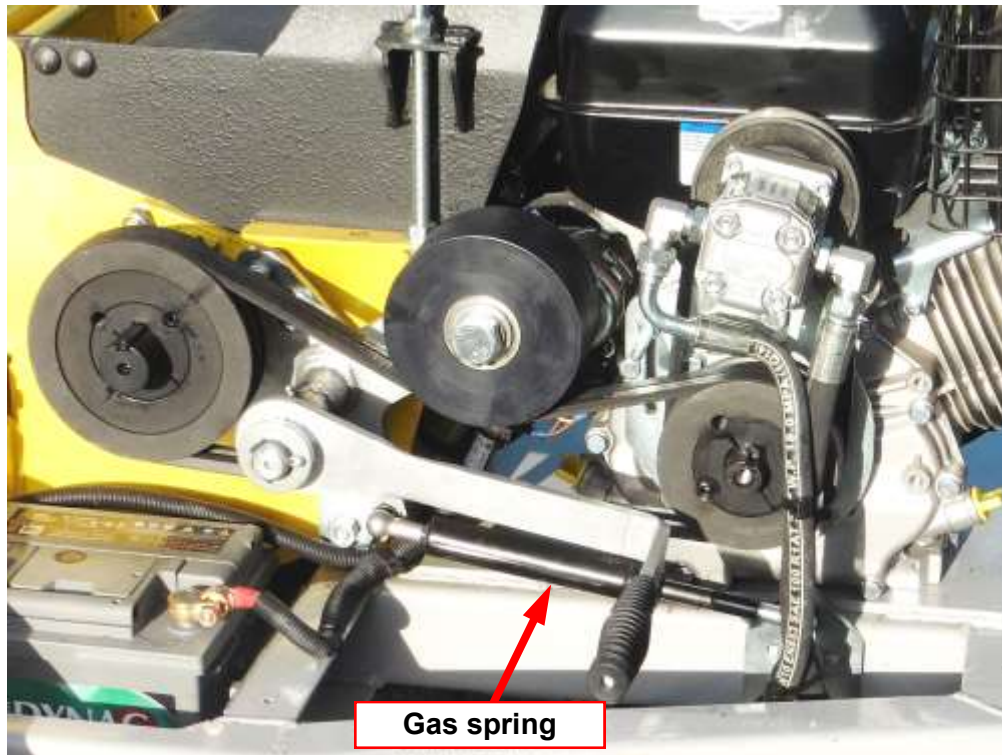
(The counter-knife can be pulled out of the housing on the right side as well as on the left side)

(All 4 edges can be utilised)



ADJUSTING THE V-BELT TENSION FOR THE ROTOR

While operating the machine the correct tension of the rotor V-belts is ensured by a gas spring, which eliminates the clearance because of normal wear and elongation of the V-belts. The V-belts are automatically kept tensioned as soon as the gear lever is moved down and the clutch is connected.



Rotor disengaged

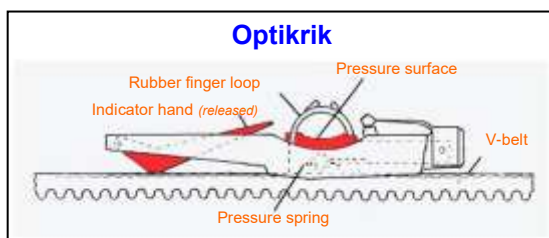


Rotor engaged



Check V-belt tension with pretension measuring device **Optikrik**

The pretension measuring device Optikrik (available at your agent's) is used for checking the V-belt tension at the LYNX and any other machine. In case of the LYNX the V-belts are to be tensioned with 200 Nm.

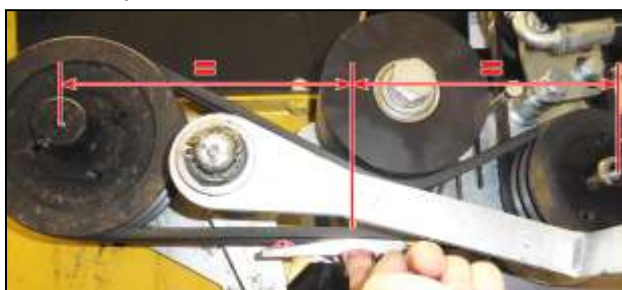


1. Ensure that the indicator hand is in rest position.

2. Engage the V-belt and place the device flat on the back of the V-belt in the middle of the two pulleys.

3. With one finger press slowly onto the pressure surface until the indicator hand releases.

4. The intersection of indicator hand and scale must be at 200 Nm.

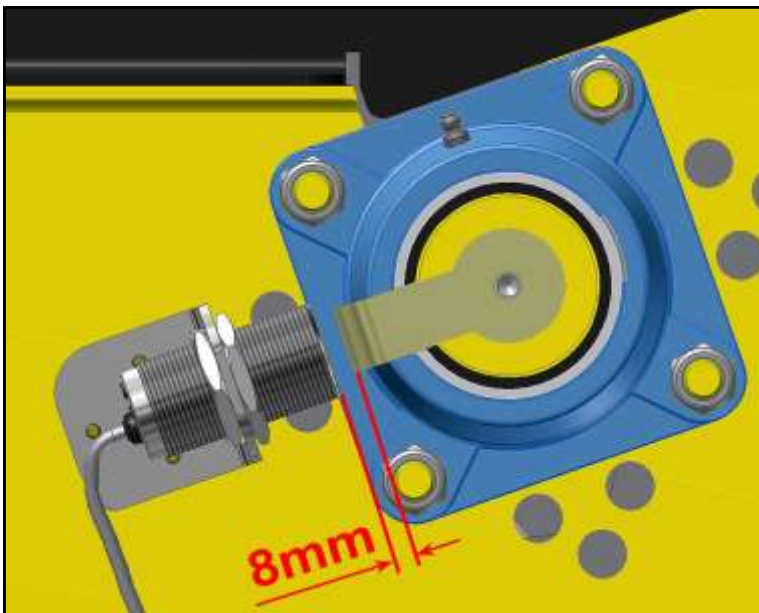


SAELEN TS INDUSTRIE

Description and operation

NO STRESS SYSTEM

The **LYNX** is fitted with a proximity sensor M30, which captures the speed of the rotor for preventing clogging of the machine. If the rotor speed drops under the nominal value set ex works (rotor = 2200 rev/min; engine = 2950 rev/min), the hydraulic oil supply is interrupted and the feed roller is switched off. The machine is no longer supplied with material, the engine can accelerate again to working speed (3800 rev/min), and the feed roller /conveyor belt are switched on again.



The distance between sensor and metal pin must amount to **8 mm**.

The solenoid valve of the No Stress system is controlled by a relay in the distribution box below the left rotor bearing.

The electric circuit is protected with a **3 amps** fuse.



Description and operation

TANKS

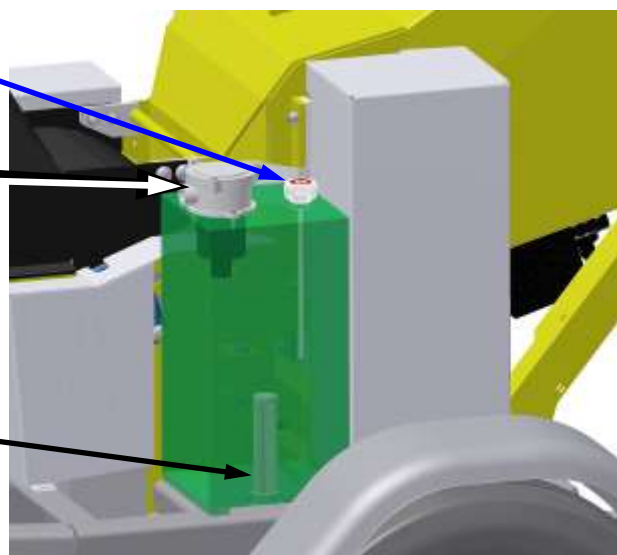
The machine is fitted with two tanks:

Hydraulic oil tank with a capacity of 8.5 litres, consisting of:

Oil dip stick with lid

Return oil filter

Intake filter



Fuel tank with a capacity of 6.6 litres

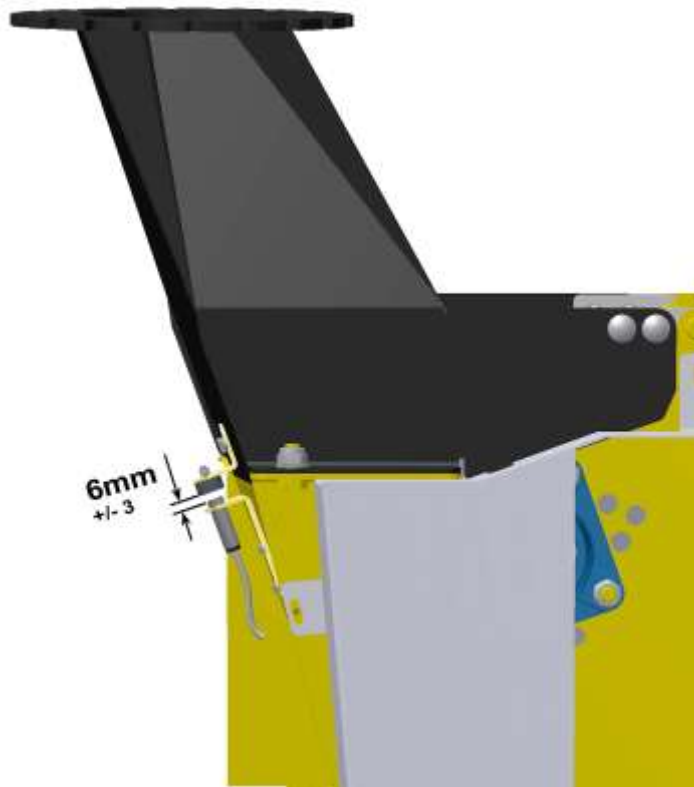


Description and operation

EXPULSION CHANNEL SAFEGUARD

The machine is fitted with a safeguard for expulsion channel:

This fuse consists of a proximity sensor installed on the lower yellow rotor housing. The electric switching contact is established when the sensor is approaching the magnet at the chimney base. When the expulsion chimney is opened, the contact is interrupted and the engine is switched off.



The proximity switch must not enter in contact with the magnet. The distance between sensor and magnet must amount to 6 mm +/-3 .

Description and operation

EMERGENCY STOP SWITCH

The machine is also fitted with one emergency stop switch located above the infeed hopper.

When activated, these switches have the following functions:

1. Diesel engine shut off
2. Infeed roller shut off



Description and operation

EXPULSION CHANNEL

After opening the latch (1) the upper part of the expulsion chimney can be turned by 360°.



Troubleshooting

In this chapter we have compiled a list of possible errors, their causes and their solutions. In case an error appears, which is not listed in chapter "Troubleshooting", please contact your dealer. Have your operating manual and the serial number of your machine on hand.

FAILURE	CAUSE	REMEDY
The engine does not start	<ul style="list-style-type: none"> - Emergency stop switch activated - Expulsion channel open - Expulsion channel safeguard wrong adjusted or defective - 3A-fuse defective - Battery empty - Supply cable damaged 	<ul style="list-style-type: none"> - Unlock switch - Check locking of the channel - Check sensor (see page 36) - Replace fuse (see page 34) - Charge or replace battery - Check electric circuits
Reduced engine output	<ul style="list-style-type: none"> - Knives/Counter-knife blunt - Fuel filter clogged 	<ul style="list-style-type: none"> - Sharpen or replace knives. Replace counter-knife - Replace filter
The engine shuts off and cannot be restarted	<ul style="list-style-type: none"> - Hood/Expulsion channel safeguard defective - Fuel tank empty 	<ul style="list-style-type: none"> - Check sensor (see page 36) - Fill with fuel
No forward or backward motion of the conveyor belt or of the infeed roller	<ul style="list-style-type: none"> - Regulating screw at infeed completely loose - Hydraulic motor or pump defective - Oil deficiency in hydraulic tank 	<ul style="list-style-type: none"> - Tighten the regulating screw - Check defective part or replace - Check oil level
The machine is chipping with difficulties	<ul style="list-style-type: none"> - Knives/Counter-knife blunt - V-belt damaged or loose 	<ul style="list-style-type: none"> - Sharpen or replace knives. Replace counter-knife inserts - Replace or tension V-belt
The infeed roller does not regulate, neither under the switch-on limit of the NoS-tress System	<ul style="list-style-type: none"> - Failure of the electric or hydraulic installation 	<ul style="list-style-type: none"> - Contact dealer

Specifications

L Y N X 1 4 P	
Performance:	100 mm
Hourly output:	9 m³/h
Length:	3.20 m
Width:	1.38 m
Height:	1.76 m
Weight:	500 Kg
Number of inserts:	16
Number of knives:	4
Rotor diameter:	290 mm
Rotor weight:	35 Kg
Rotor width:	252 mm
Infeed roller width:	350 mm
Engine power:	14 HP Briggs & Stratton
Fuel tank capacity:	6.6 l
Engine speed:	3800 rpm
Rotor speed:	2837 rpm
Overload protection:	YES
Hydraulic supply:	YES
Hydraulic oil tank capacity:	8.5 l
Hydraulic pressure:	150 bar
Axle:	YES
Noise protection:	NO
Number of wheels:	2
Tyres:	155/70R13
Tyre pressure:	2.5 bar
CO2 REDUCTION:	No

Hydraulic connections



① 800

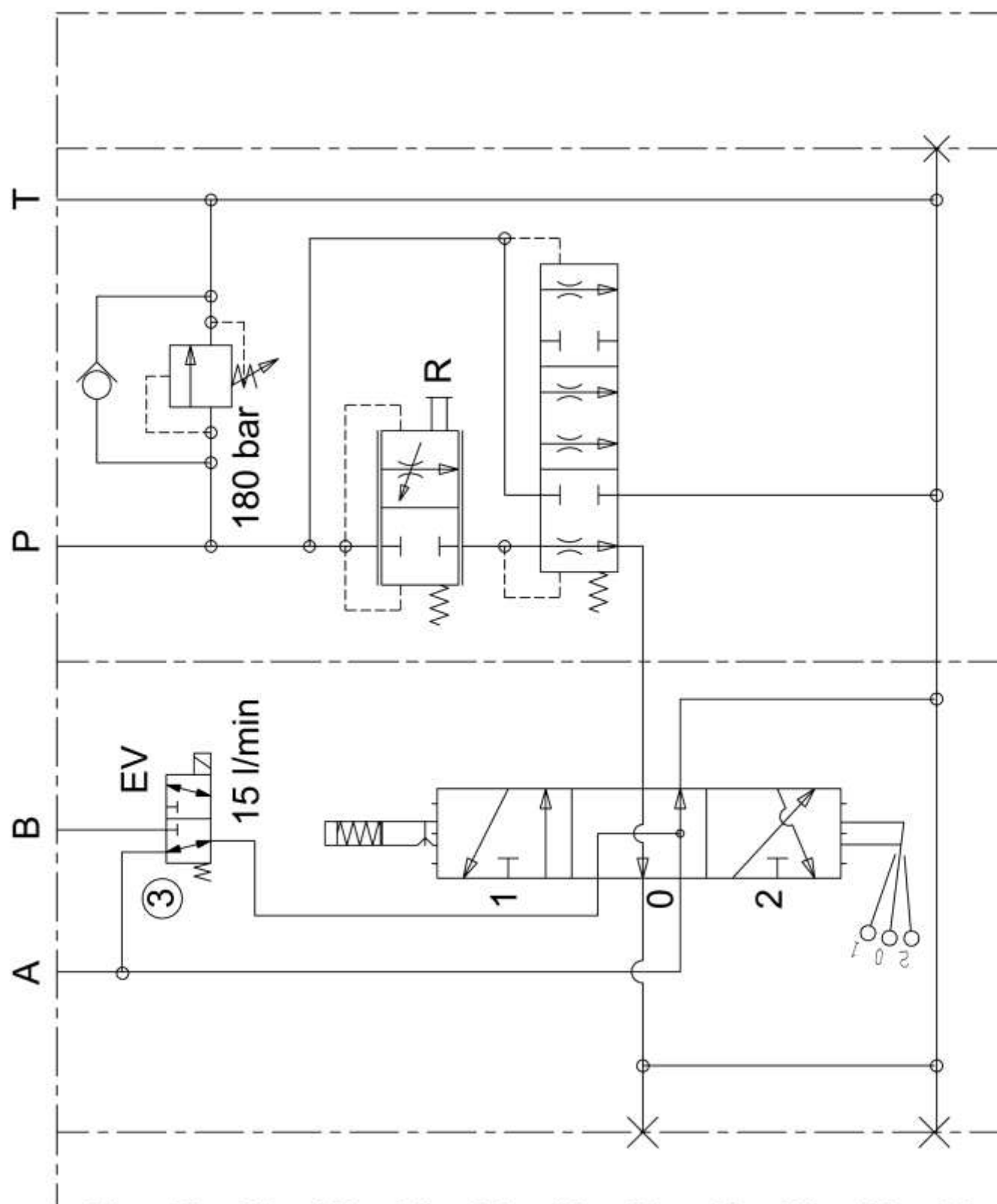
② 800

Ⓟ 1650

Ⓣ 1450

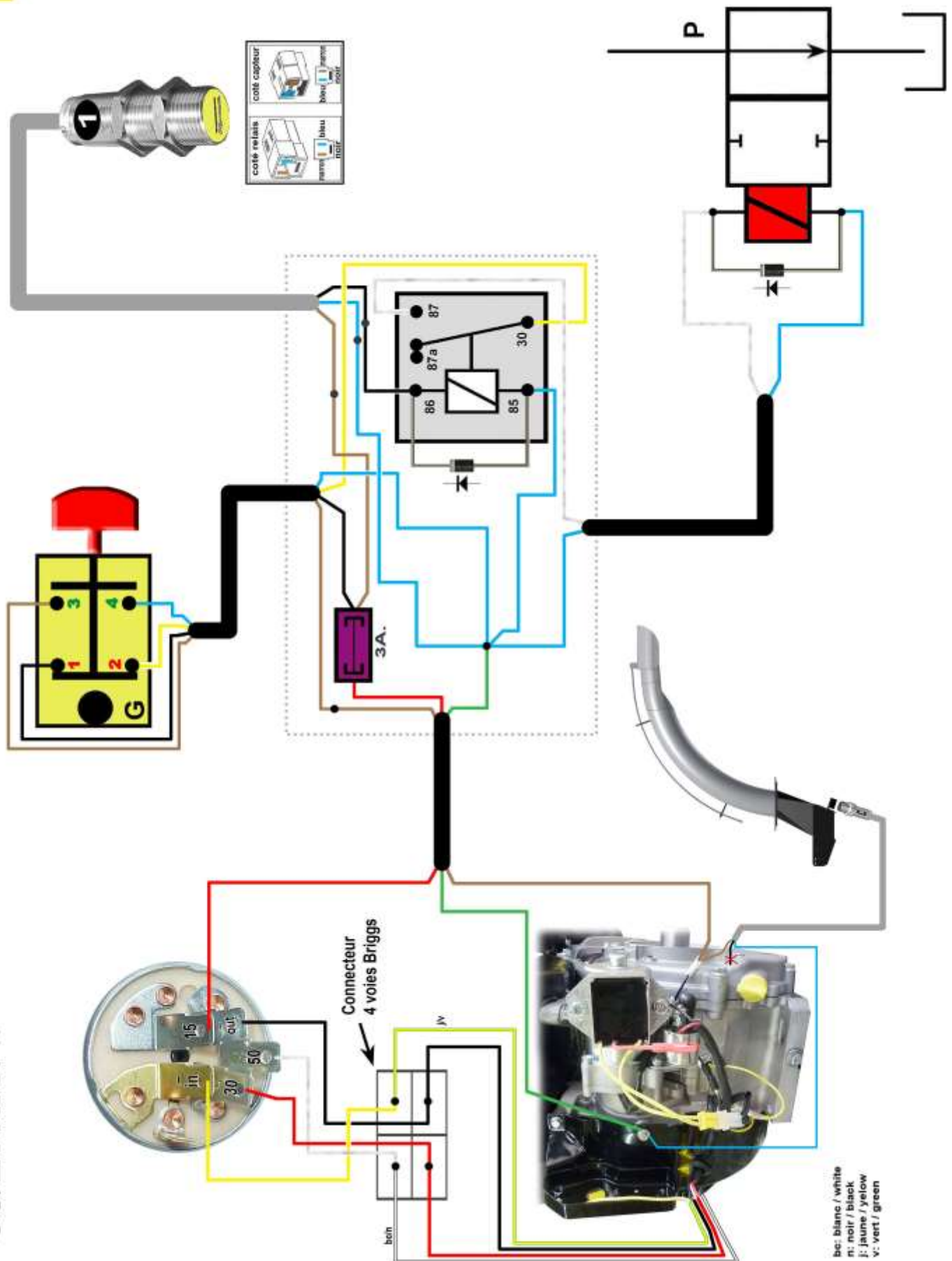
Aspiration: 1400

Hydraulic Circuit Diagram



Electric Circuit Diagram

GS/LYNX14P



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