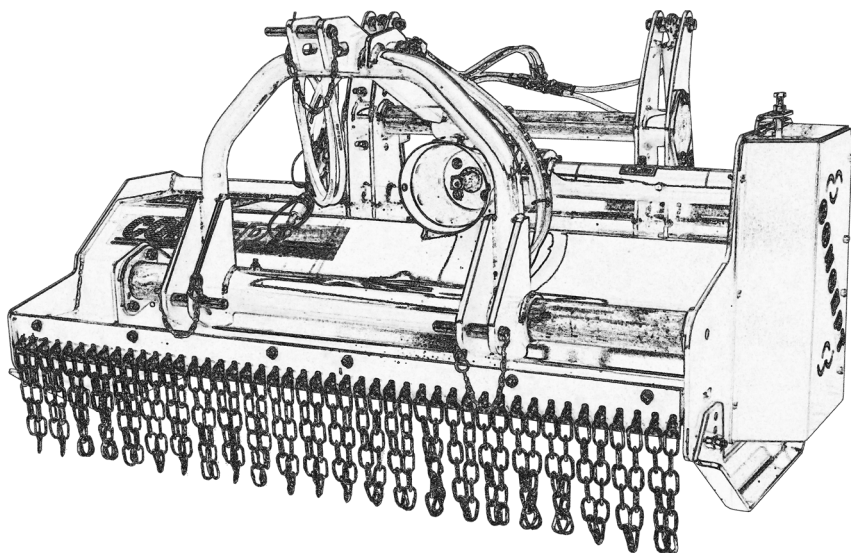


CONCEPT **PERUGINI**

FLAIL MOWER GTS



INSTRUCTION BOOK

Manufactured by
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CONCEPT PERUGINI

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PRODUCTS WITHOUT PRIOR NOTICE AND THE COMMITMENT TO UPDATE
THIS MANUAL

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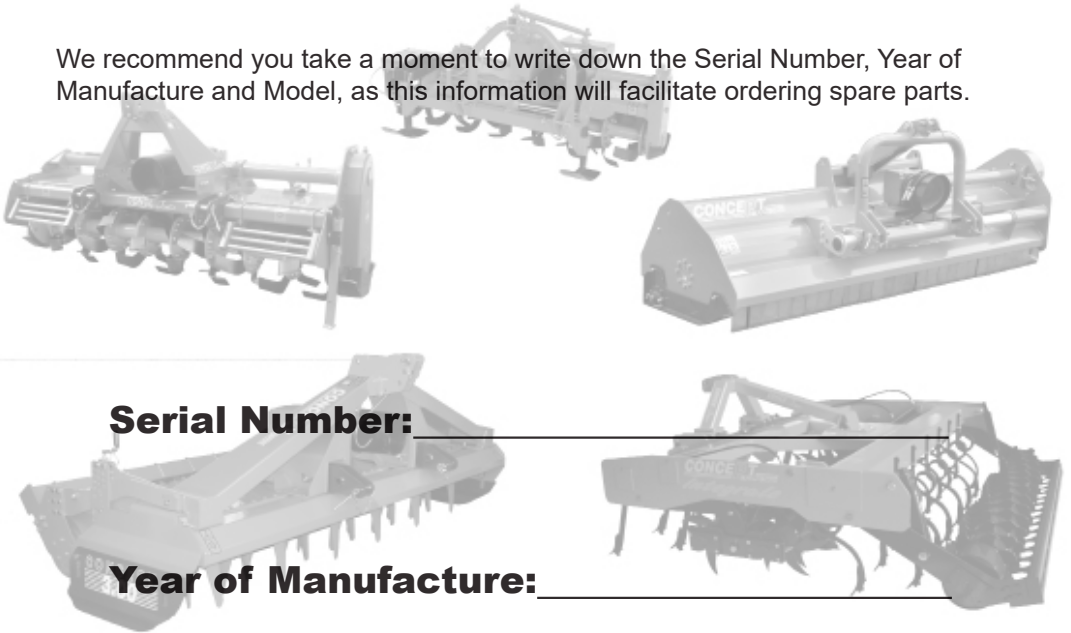


Introduction

Concept Perugini S.R.L would like to thank you for purchasing this Flail mower and offer their support and assistance throughout its productive life.

We strongly recommend that this booklet is read and understood before using your new machine, and that regular maintenance is carried out as described further in the booklet. If any doubts arise then don't hesitate to contact your local dealer or the company via the options provided on the front page or via Facebook @ Concept Perugini.

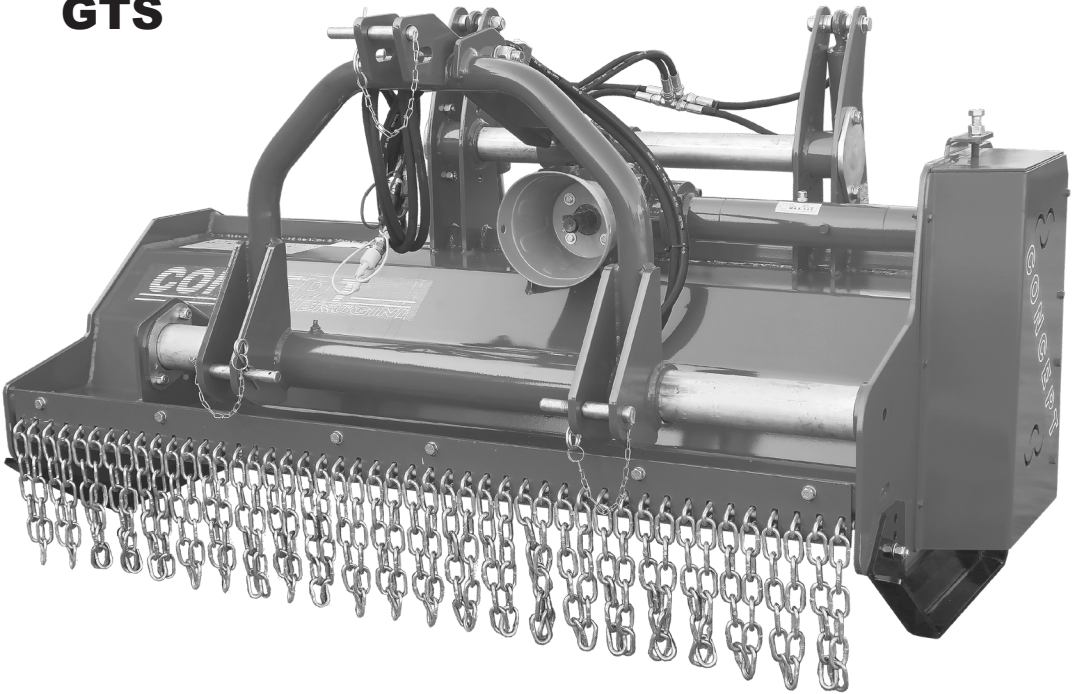
We recommend you take a moment to write down the Serial Number, Year of Manufacture and Model, as this information will facilitate ordering spare parts.



Instruction Manual

The aim of this manual is to help you (the user) understand how to use and how to maintain the machinery. This booklet covers the **GTS**.

GTS



Identification

The identification plate, attached to the machine shows the following information:

CONCEPT		CE	
47014 MELDOLA - (PO) - ITALIA			
1 ANNO DI FABBRICAZIONE	20 MANUFACTURE YEAR		
2 ANNÉE DE FABRICATION	20 DE LAJOUR		
3 N° DI IMMATRICOLA	40 SERIAL NUMBER		
3 NUMÉRO DE MATRICULE	40 FABRIKNUMMER		
1 MODELLO	20 TYPE	3 TYPE	4 MODELLEERIE
KW	HP	min ⁻¹	

- Manufacturer's Name
- CE mark
- Year of production
- Serial number
- Recommended tractor horsepower
- Overall weight
- P.T.O. speed and direction of rotation

These data are very important in order to check the compatibility between the machine and the tractor and when ordering spare parts

Before operation

At the factory each machine is carefully inspected to guarantee proper functioning. In addition, the dealer, before delivering the machine should have carried out a pre delivery inspection. However as a precaution measure check:

- Oil level in the gearbox
- Grease all those components provided with grease nipples
- Air pressure in the tractor's tyres, length of lift arms
- Tractor PTO speed to match the machine transmission speed

Safety

Symbols

In this booklet three different symbols are used to highlight danger levels or important information



DANGER

To draw the operator's attention to situations which could endanger his or other people safety.



CAUTION

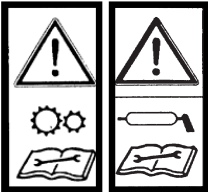




To draw the operator's attention to situations which could affect the machine performances but not his or other people safety.



IMPORTANT

To draw the operator's attention to situations which do not affect the machine performances and his or other people safety.

It is important to comply with the instructions given by the safety stickers, which must always be on the machine. If new ones are required, contact your dealer.

	SYMBOL	DESCRIPTION
1		<p>Before operation, adjusting or servicing the machine, it is important that each operator carefully reads the following instructions. Servicing lubrication etc. should be carried out with the engine stopped, the brakes applied and locked and the starter key removed.</p>
2		<p>Anybody who is near the machine when working, must keep at a safe distance. During operation keep away from rotating parts and PTO shaft. Do not remove safety guards whilst the machine is working or with engine running.</p>
3		<p>Danger of injury to lower body parts. Anybody who is near the machine when working must keep a safe distance at all times.</p>
4		<p>Danger of injury to limbs. Anybody who is near moving parts must be aware of where his body is in relation to the machine and keep at a safe distance. Do not remove safety guards.</p>
5		<p>Any servicing should be carried out with the tractor off and the correct parking procedures should be followed out as advised by the manufacturer. Should the machine need to be raised it should be supported securely.</p>



When lifting the machine always use the appropriate lifting gear and always use the lifting points indicated by the yellow and black stickers as shown in picture.

General Safety Instruction

- During operation keep away from rotating parts and PTO shaft, do not remove safety guards during operation or with the engine running.
- Servicing should be carried out with the engine stopped, the brakes applied and locked and the started key removed. Once the machine is raised do not work underneath unless supported securely.
- When travelling on the public road disconnect the PTO shaft and carefully follow the traffic regulations of your country.
- Always lift the machine from the lifting points.
- The operator should be experienced and in good health in order to avoid injury to his person and others.
- The operator must wear the correct safety garments.
- Do not work when dark unless suitable lighting is available

Operator's Prerequisites

To avoid danger to himself and others, the operator must be:

- **Physically sound**
- **Mentally sound**
- **Trained**

We advise that the operator read and understand this booklet before using the machinery. If there are any doubts then contact your dealer or **CONCEPT PERUGINI S.R.L**

Work Clothing

The operator must wear the following:

- Working gloves
- Overalls of appropriate size
- Working boots
- Protective glasses
- Protective helmet

ALWAYS MAKE SURE THE TRACTOR IS TURNED OFF, P.T.O IS DISENGAGED AND MACHINE IS MADE SAFE

Attaching the machine to the Tractor

Concept Perugini Flail toppers can be linked up to any tractor with a category 1 or 2 three point linkage.

Read the tractor's instruction manual before attempting to attach the machine to the tractor.

- Adjust the width of the tractor arms to match the lower brackets on the machine
- On a flat surface reverse the tractor up to the machine
- Firstly attach the lower links and do the necessary adjustments to limit sideways movement
- Lengthen and attach the top link in order to have the machine parallel to the ground once attached
- **Remember** to fit all the locking pins and that the machine is safely secured to the tractor

NB On the the top link bracket is provided with a hole and a slot to attach the tractor's top link. It is important that during transport the top link is secured via the hole and during work the slot is used. Failing to follow these instructions could result in serious damage to the headstock sliding mechanism and to injury.

PTO Shaft

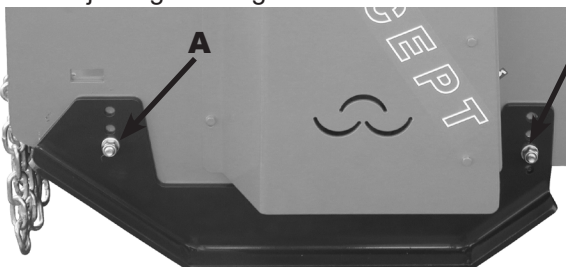
If necessary, cut the PTO shaft to the right length following the shaft manufacturer instructions.

When attaching the PTO shaft to the machine and tractor make certain that if the PTO shaft is fitted with an overrun clutch this must be installed on the implement. When connecting to the tractor verify that the locking pin is correctly located and secure in place. Before use make sure all the chains and guards are correctly fitted.

Working Depth

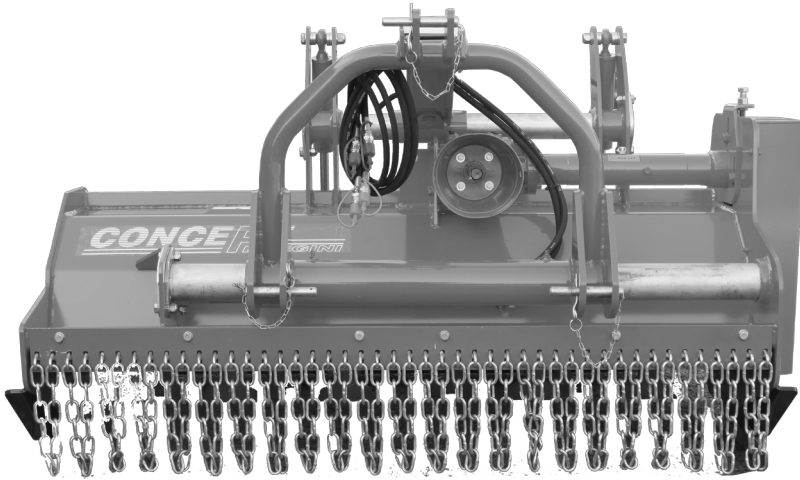
The height of the machine from the ground is controlled by the rear roller, skids and top link. Before using the flail mower make sure that the flails do not hit the ground, this will result in extreme wear will damage the rotor.

Always adjust the top link to keep the machine parallel to the ground when adjusting the height of the rear roller.



The roller in the GTS is an integrated part of the rear tailgate. To alter the height of the skids remove bolts **A**, reposition the skid in the desired height and fasten bolts **A**.

Side Shift



The hydraulic side shift is very simple and requires very little maintenance, simply connect the hoses to the tractor's double acting spool valve. Make sure there are no oil leaks and that the side shift tube is well lubricated. Grease the grease nipple provided every 10 working hours to reduce wear.

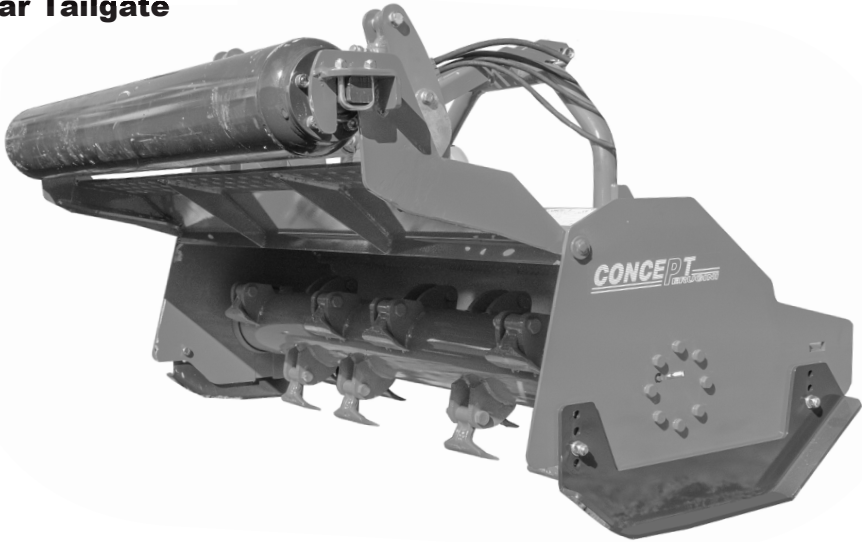
In the Field

Once the machine has been attached to the tractor, adjusted and inspected then it can be operated in the field.

- Lower the machine to approximately 10 cm from the ground.
- Engage the tractor PTO and slowly increase the speed to 540 rpm.
- Lower the machine to the ground, engage a forward moving gear and commence forward motion.

Always drive in a straight line, when turning lift the machine off the ground to avoid straining the parts in contact with the ground.

Rear Tailgate



The rear roller is incorporated in the tailgate which can be opened via hydraulic rams. Opening the tailgate allows the user to reverse on to large piles of prune cuttings, debris from forestry work and shrubs bushes and trees up to 15 cm in diameter.

The hydraulic rams have valves to alter the opening and closing speed of the tailgate.

THE TAILGATE CAN BE OPENED ONLY WHEN OPERATING THE MACHINE IN REVERSE. IT MUST BE CLOSED WHEN A FORWARD GEAR IS ENGAGED.

THE TAILGATE CAN BE OPENED ONLY IF THE USER IS CERTAIN THERE ARE NO HUMANS OR LIVESTOCK WITHIN A 100M RADIUS. UNDER NO CIRCUMSTANCES SHOULD THE GTS BE USED IN REVERSE IN THE PROXIMTY OF PUBLIC ROADS OR FOOTPATHS.

FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH TO BYSTANDERS AND LIVESTOCK.

Road Transport

When transporting on the road make sure to disconnect the PTO, if the machine is fitted with wheels then fold them in by relocating the pin. Carefully follow the traffic regulations of your country.

During transportation the tailgate must be closed.

Maintenance

The maintenance for the Concept Perugini flail mowers is very straight forward.

Lubrication

Every 10 working hours:

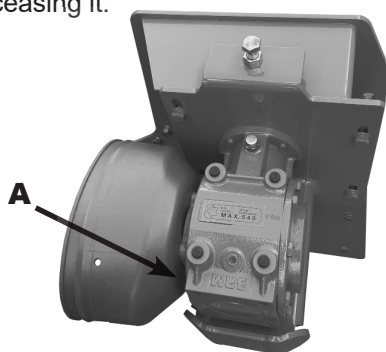
- Grease side shift sliding parts with **Agip 33/FD** or equivalent

Every 50 working hours:

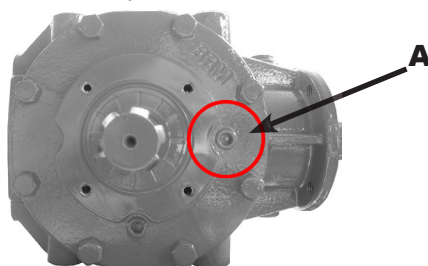
- Check the gear box and side shaft oil level. If necessary top up with gear oil **EP90**

Every 250 working hours or once a year:

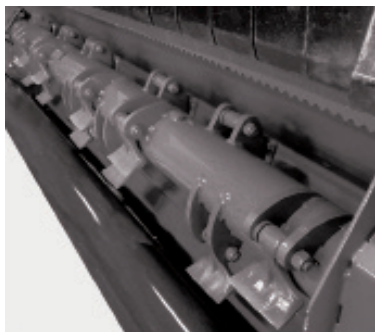
- Change the oil in the gear box and the side shaft
- Grease the rear roller bearings. **DO NOT OVER-GREASE** the bearings, this will lead to the seal braking causing dirt to enter the bearing and eventually ceasing it.



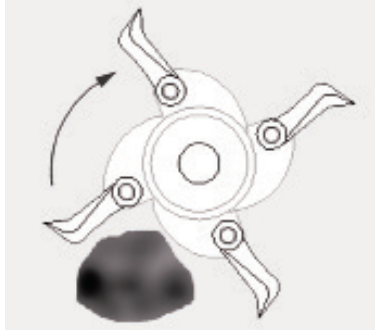
To control the oil level in the gearbox use tap **A** located behind the plastic guard. The guard must be removed in order to access tap **A**.



Rotor



Maintenance on the rotor is very important. Before and After each use check to see if the rotor and flails are damaged. If the rotor is damaged it will cause it to become unbalanced creating unwanted vibrations. If the rotor is damaged then contact your local dealer.



Check the bolts for tightness and the flails for wear and breakages. Replace all broken, bent or worn blades.

To replace the flails open the tailgate to access the rotor and proceed to replace the worn out flails.

Transmission

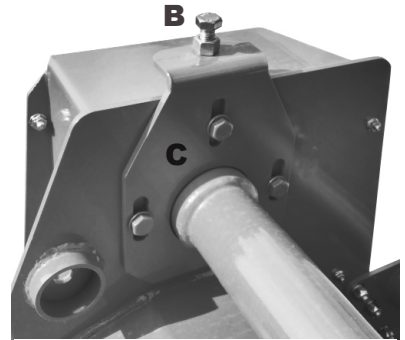
Belt tension observation slot



The transmission on all Concept Perugini flail mowers is belt driven. After the first 2/3 hours of use check the tension in the belts via the slot on the belt guard, there should be 5 mm play when 10kgf are applied.

Should the belts need tensioning or replacing, the procedure is very simple:

- Slacken the 3 bolts indicated **C**
- Slacken the 4 bolts indicated **A**
- Tighten or loosen bolt **B** to reach the optimum tension. **NB** loosen counter nut on **B** before either tightening or slackening
- Once the tension has been made tighten all bolts **B** and **C**
- Move the gearbox either upwards or downwards to make the side shaft square with the side of the flail mower. This is very important in order to lengthen the life of belts and to reduce uneven wear



Chains

The **GTS** is equipped with protective chains on the front of the machine. Before each use the user should examine the chains and if any of the chains are damaged they should be replaced immediately before use.

ALL MAINTENANCE MUST BE CARRIED OUT WITH THE TRACTOR OFF, P.T.O DISENGAGED AND THE MACHINE PROPERLY SUPPORTED. FAILURE TO DO SO CAN RESULT IN SERIOUS INJURY

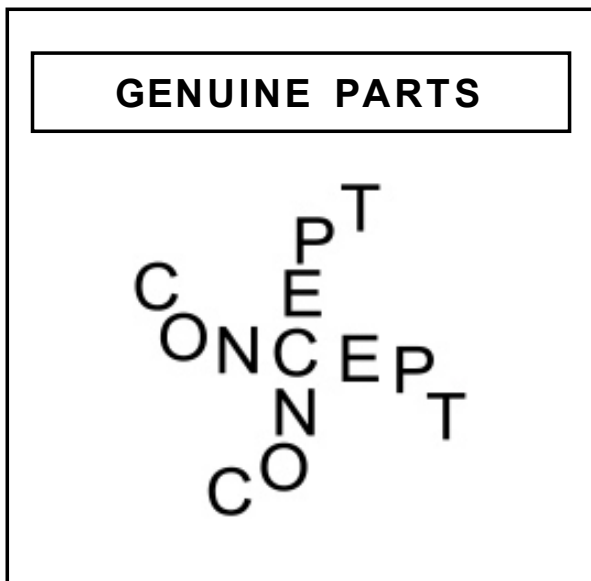
Storage

Before storing the flail mower after it's seasonal use it is recommended that a thorough check and clean is carried out. Remove all dirt and address any severely worn parts or broken parts. Treat any areas of the machine where the paint has worn off with a rust inhibitor and store in a dry place out of the elements to insure a longer life span. Grease the P.T.O shaft following the manufacturers recommendations.

Spare Parts

For the correct spare parts contact your local dealer and ensure that you have the all of the identification data and correct codes of the parts required.

Always use **genuine Concept** spare parts



THE USE OF NON GENUINE SPARE PARTS WILL NULLIFY THE WARRANTY

Warranty

During the warranty period the appropriate maintenance should be carried failure to do so will breach any cover necessary,

Concept Perugini S.R.L covers warranty with the exemption of wearing parts, providing that the fault is due to defects in workmanship or material and is in any way or to any extent not attributable to misuse, lack of reasonable care and general wear or to the fitting of spares, replacements or extra components which are not supplied or approved by Concept Perugini S.R.L. failure to comply will void warranty and should any problems arise Concept Perugini S.R.L is not held responsible and is not required to answer to any warranty claims.



CONCEPT MADE IN ITALY
FARM MACHINERY **PERUGINI**

The logo features the word 'CONCEPT' in a large, bold, sans-serif font with horizontal stripes. Below it, 'FARM MACHINERY' is written in a smaller, solid font. To the right, 'PERUGINI' is written in a large, bold, sans-serif font with horizontal stripes. Above 'PERUGINI', 'MADE IN ITALY' is written in a smaller, solid font.