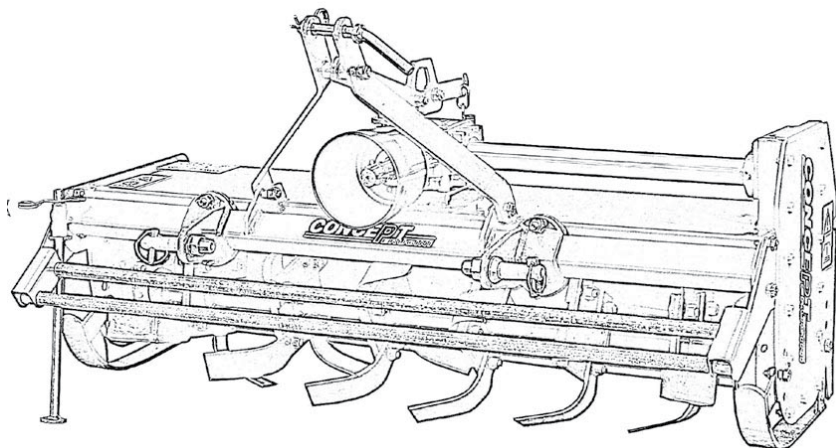


# **CONCEPT** **PERUGINI**

## **ROTAVATOR CF XF ZF**



### **INSTRUCTION BOOK**

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**CONCEPT PERUGINI**

CONCEPT PERUGINI S.R.L. RESERVES THE RIGHT TO MODIFY THEIR  
PRODUCTS WITHOUT PRIOR NOTICE AND THE COMMITMENT TO UPDATE  
THIS MANUAL

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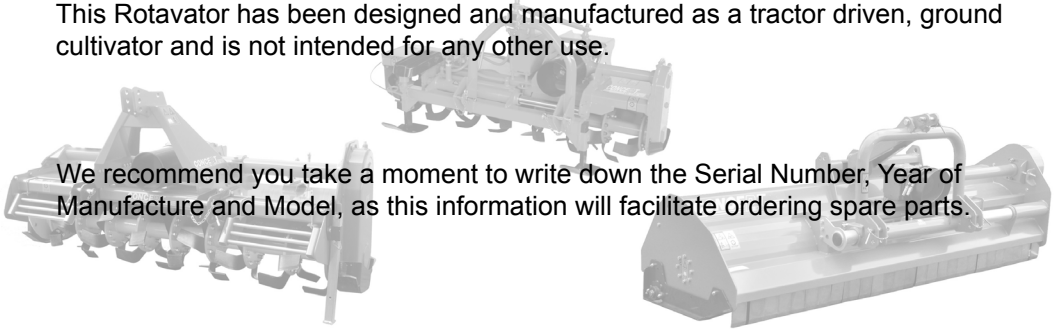
## Introduction

Concept Perugini S.R.L would like to thank you for purchasing this Rotavator 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.



This Rotavator has been designed and manufactured as a tractor driven, ground cultivator and is not intended for any other use.



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.



**Serial Number:** \_\_\_\_\_

**Year of Manufacture:** \_\_\_\_\_

**Model:** \_\_\_\_\_

## Identification

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

<b>CONCEPT</b> EQUIPAMENTOS		CE	
47014 MELDOLA - (FO) - ITALIA			
1 ANNO DI FABBRICAZIONE	20 MANUFACTURE YEAR		
2 ANNÉE DE FABRICATION	20 DE LAJOUR		
3 N° DI IMMATRICOLA	40 SERIAL NUMBER		
4 NUMÉRO DE MATRICULE	40 FABRIKNUMMER		
1 MODELLO	20 TYPE	3 TYPE	40 MODELLERIE
KW	HP	 $\text{min}^{-1}$	
		<input type="checkbox"/> 440 <input type="checkbox"/> 5000	<input type="checkbox"/>

- 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

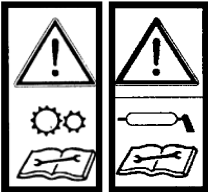




To draw the operator's attention to situations which could affect the machine performances but not his or other people safety.



#### 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.

	<b>SYMBOL</b>	<b>DESCRIPTION</b>
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:

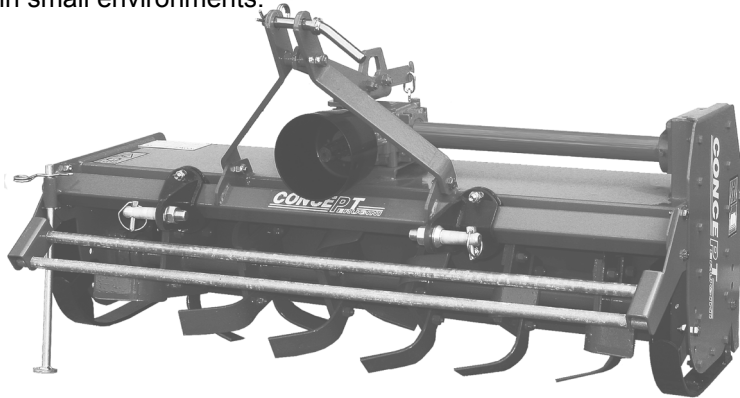
- Working gloves
- Overalls of appropriate size
- Working boots
- Protective glasses
- Protective helmet

## CF XF ZF

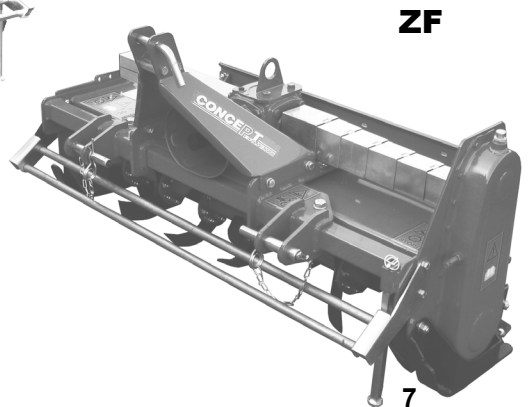
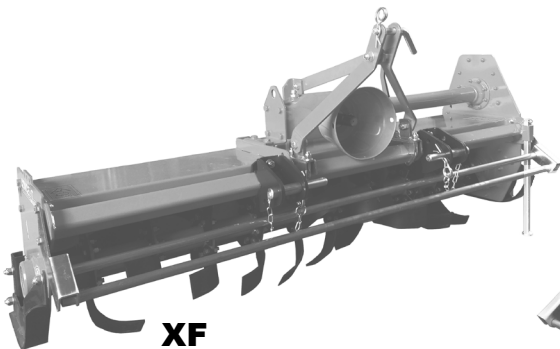
In this booklet our aim is to give all the necessary information regarding first use, maintenance and general care taking of your new Concept Perugini Rotavator.

The **CF** is a small rotavator ideal for tractors up to a max 25 HP, this machine is ideally suited for hobby farmers, garden care, vegetable patches or green houses. It comes in 5 sizes: **CF 95 CF 100 CF 110 CF 120 CF 130**

The adjustable side skids allow the work depth to be altered and the rear tailgate controls the soil mix. The unique design of the side transmission allows the side panel to be completely flat which reduces the risk of hitting obstacles when working in small environments.



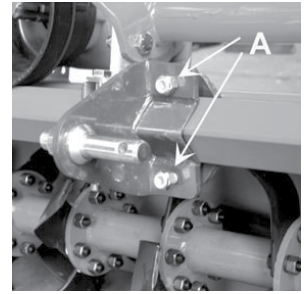
The **XF ZF** are bigger rotavators for tractors up to a max 38 HP. The **XF** covering sizes from **110 125 145 165** whilst the **ZF** comes in **125 145 165**. The difference between the machines being the mobility of the headstock of the **ZF** allowing this to be an offset tiller. Ideally suited for bigger tractors than the CF and for a more professional use in confined spaces. The heavy duty chain transmission makes work a trouble free ordeal.



## Instructions for Use

### Attaching the Machine to the Tractor

The Concept Rotavators can be used with any type of tractors with category 1 or 2 three point linkage. Read the tractor's instruction manual before attaching the implement. The lower linkages are adjustable, before connecting the machine to the tractor adjust the linkages to match the width of the tractor arms. Slacken bolts **A**, adjust the width and then tighten bolts **A**.

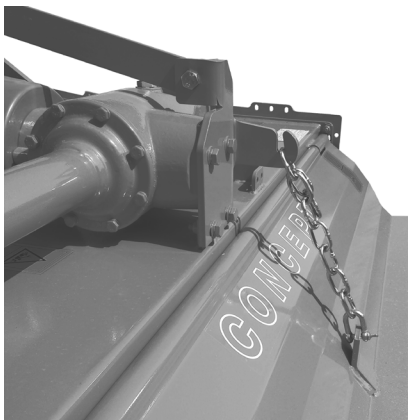


1. On a flat surface reverse up to the machine. Stop and apply the brakes.
2. Adjust the height/width of the lower arms on the tractor linkage accordingly.
3. Remove the safety pins from the hitch pins, position the tractor arms between the lower linkages and secure them with the hitch pins. Refit safety pins.
4. Position the top link between the top linkage plates and insert the hitch pin. Refit safety pin.
5. Adjust the top link so that the machine is parallel to the ground.
6. Attach the hydraulic hoses to the tractors double acting spool valve.

If necessary cut the PTO shaft to the right length following the shaft manufacturers instructions. Prior to cutting the shaft ensure that a minimum of 100mm is achieved and that the PTO does not "bottom" when in use. Check the guards chains are properly secured.

### Working Depth

To control the working depth you must alter the height of the skids. To do this remove bolts **A** and slacken nut **B**, select the desired height and re-insert **A** and tighten **B** and nuts on **A**.



### Tailgate Adjustment

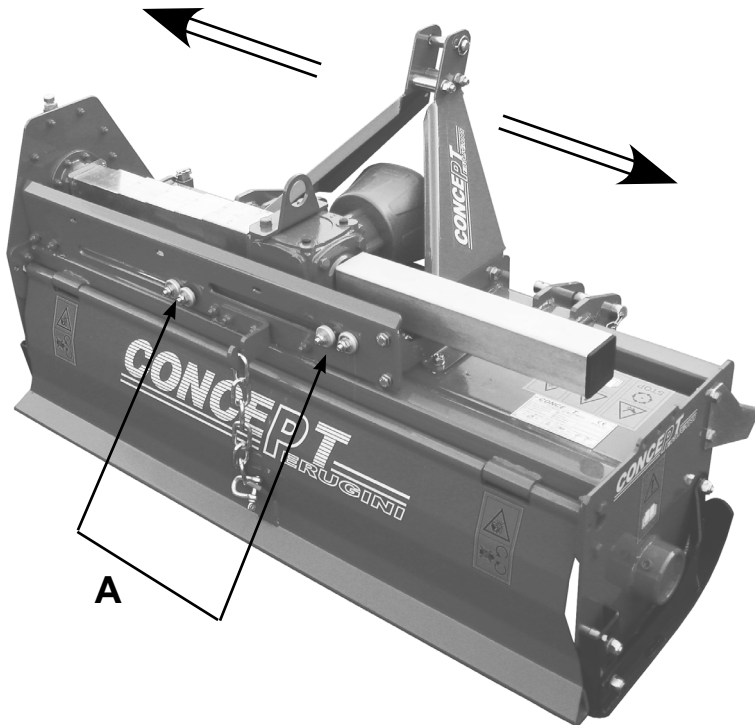
On the CF and XF/ZF the tailgate height is adjusted via the chain provided.



Any adjustments made on the machine must be carried out with the engine stopped, PTO disengaged, parking brake applied and with the machine securely supported.

## ZF

The **ZF** differs from the **XF** because of the possibility to move the headstock and the gearbox and therefore obtain the desired offset. Because of this the headstock is different to the one on the **XF**.



To offset the **ZF** slacken bolts **A**, slide the headstock and gearbox to the desired position and then tighten **A**.

The **ZF** is not an automatic offset machine, it does not have hydraulic rams, it is a manually offset machine and does not therefore centre itself but must be moved into the desired working position by hand.

## In the Field

After all the adjustments have been carried out and the PTO shaft is connected, the machine has been checked and properly connected to the tractor then the machine is ready to be used.

- Lower the machine to 5 cm off the ground
- Engage the tractor's PTO and start machine
- Lower the rotavator to working height
- Engage a suitable gear and start moving forward

## Road Transport

When travelling on the public road disconnect the PTO shaft and follow the traffic regulations of your country

## Maintenance

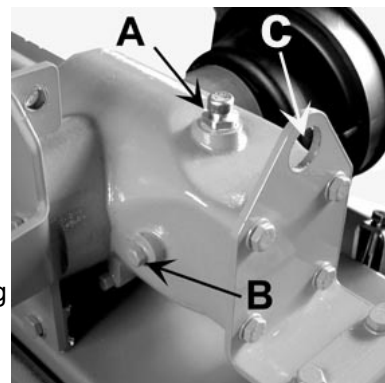
**When the machine is moved, loaded or unloaded, always use the lifting eye C**

## Lubrication and Checks

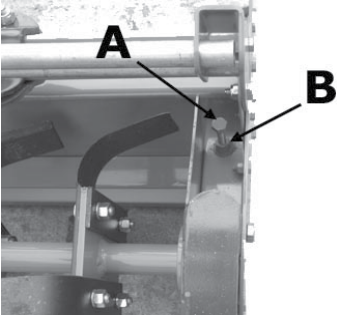
**Every 10 hours:** Grease the rotor bearing on the side opposite to the transmission with Agip 33/FD or equivalent. Check bolts connecting the gearbox to the chassis for tightness.

**Every 50 hours:** Check the oil level in the gearbox through the plug **B**. If necessary add oil via plug **A** using EP90 gear oil.

**Every 250 hours or Annually:** Change the gearbox oil. This operation must be performed at least once a year.



## Chain Maintenance



On the **CF** model the chain lubricant does not need to be changed. It is guaranteed for life.

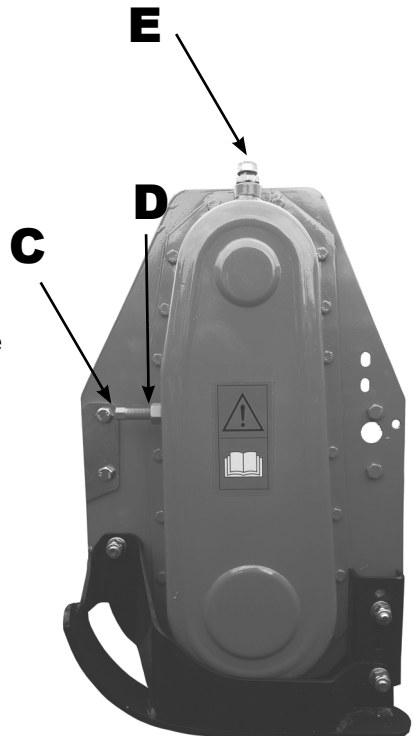
To tension the chain undo nut **B** and tighten bolt **A**. Tighten bolt **A** until the play in the chain play is relieved and the unscrew **A** by  $\frac{1}{4}$  turn. Tighten nut **B**.

The **XF** and **ZF** differ slightly to the **CF** as they don't have a flat side panel and therefore the chain tensioner bolts are located on the "outside" of the side panel.

Undo nut **B** and tighten bolt **C**. Once the play in the chain has been relieved unscrew bolt **C** by  $\frac{1}{4}$  turn. Tighten nut **B**.

On the **XF** and **ZF** rotavator you can inspect the state of transmission lubricant via cap **E** and should there be the need to add lubricant do so from here. Only use MU EP2 grease.

Every 5 years or when the need a rises change the grease in the side transmission. To do so unscrew all the nuts holding the transmission panel in place and clean out and replace the grease. Close the transmission plate and securely tighten the nuts and bolts.



## Blades Replacement

Before use check the bolts for tightness and the blades for signs of wear and cracks. Replace all broken, bent or worn blades. To replace blade:

- Lift the machine off the ground and support it securely.
- Lift the tailgate and secure it to the top link.
- Remove the bolts and replace the damaged blade.
- En-certain that the bolts are correctly fastened.
- Put the tailgate back into its correct working position.

**Blade replacement must be carried out with the engine stopped, the PTO disengaged, the parking brake applied, with the machine off the ground and suitably supported.**

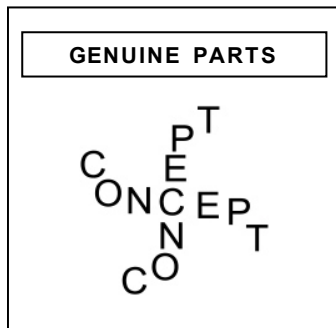
## Storage

Before storing the rotavator 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.

A large, stylized logo for Concept Perugini. The word "CONCEPT" is written in a bold, italicized font with horizontal lines through the letters. Below it, the words "FARM MACHINERY" are written in a smaller, bold, italicized font. To the right of "CONCEPT", the word "PERUGINI" is written in a large, bold, italicized font with horizontal lines through the letters. Above "PERUGINI", the words "MADE IN ITALY" are written in a smaller, bold, italicized font.