



ROTARY DISC MOWER

USER GUIDE



HT ALPLER

ATTENTION



**DO NOT
OPERATE THE MACHINES
BEFORE READING THIS MANUAL!**

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WARNING SIGNS & MEANINGS



CAUTION

This sign warns that the operations described could cause damage to machine, if they are not carried out correctly.



READ MANUAL FIRST

Read the "Operating and Maintenance Manual" carefully before first start and keep the manual nearest.



WARNING

This sign warns that the operations described could cause serious lesions or long term health risks, if they are not carried out correctly.



KEEP CHILDREN AWAY

This symbol expresses to keep the children away against any risk.



Be careful against danger of entrapment.



DO NOT STAND NEAR THE MACHINE WHILE IT IS WORKING

This symbol expresses not to stand near the machine while it is working to avoid any injury.



Do not carry people or loads on the plough.

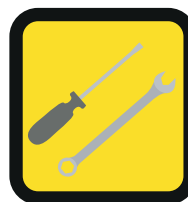


REVOLVING DEVICE

Stay clear of mower knife area as long as tractor engine is running



Do not open or remove safety shields while the engine is running



Shut off engine and remove key before performing maintenance or repair work.

1. INTRODUCTION

Dear Farmer,

Firstly, we congratulate you for your correct preference on the way to efficiency by selecting the brand "ALPLER". As your agricultural partner, we offer you our product in which we combined high quality, low operational cost and effective after-sale service concept.

All of "ALPLER" products are designed for the most efficient and the safest use and tested accordingly in cooperation with the relevant university departments, agricultural establishments and farmers. We request you to read the user manual before the first operation in order to use our product in a more effective manner as well as for product and your own safety. The failures that may result from using the product beyond the instructions for use specified in this manual are not covered by "ALPLER" warranty. "ALPLER" products are manufactured for agricultural utilization purposes only, and our company does not assume any liability against the conditions arising from misuse. Maintenance, repair and operation of our products must be carried out by those who were informed on the relevant and possible dangers.

Alpler Rotary Disc Mover is the MOST IDEAL machine type especially for the feed plants growing horizontally such as vetch, white clover, Lotus corniculatus and for reaping all kinds of meadow, pasture and feed plants and wild plants with the effect of the air current formed during the rotate of the discs.

It is driven by the tractor tail spindle and connected to it with three point hitch system. The movement is transmitted serially through its four fold belt pulley. The machine has 4-5-6 disc models. It has a safety mechanism against the damage which may occur if it hits a hard and big object (tree, stone, etc). It reduces the damage to a minimum by moving backwards when it hits an object. The Disc Mover rises up by hydraulic system. So the machine stays behind the tractor in transport position. Grass-cutting is performed on sloppy grounds after the machine is made suitable to the slope through the hydraulic piston. The grass that has been cut can be picked according to the desired sizes by the direction changer part that is connected to the rear part of the machine.

It provides a very low and high-quality cutting on the evened ground where it leaves spread the grass it has reaped with its high-quality cutting by leaving a one-type stubble.

Enjoy your new product and we wish you productive and fruitful years.

We hope to serve you for a long time...



CAUTION

If the product owner changes in the future, please submit this manual to the new owner of the product and inform on safety measures.

2. SAFETY RULES

2.1. GENERAL SAFETY INFORMATION

Note the use of the signal words Danger, Warning and Caution with the Safety messages.

The appropriate signal word each has been selected using the following guidelines:



DANGER!

Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components, which, for functional purposes, cannot be guarded.



WARNING

Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.



CAUTION

Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.

Safety of the operator is one of the main concerns when designing and developing a new piece of equipment. You, the operator, can avoid many accidents by observing the following precautions in this section.

- Replace any **CAUTION, WARNING, DANGER** or instruction safety decal that is not readable or is missing.
- Do not attempt to operate this equipment under the influence of drugs or alcohol.
- Review the safety instructions with all users.

This equipment is dangerous to children and persons unfamiliar with its operation. The operator should be a responsible adult familiar with the equipment and its operation. Do not allow persons to operate this unit until they have developed understanding of the safety precautions and of how it works.

2. SAFETY RULES

- To prevent injury or death, use a tractor equipped with a Roll Over Protective System (ROPS). Do not paint over, remove or deface any safety signs or warning decals on your equipment, Observe all safety signs and practice instructions on them.
- Never exceed the limits of a piece of machinery. If its ability to do a job, or to do so safely, is in question – Don't try it.
- Remember - Your best assurance against accidents is a careful and responsible operator. If there is any portion of this manual or function you do not understand, contact your local dealer or manufacturer.
- If you have questions not answered in this manual or require additional copies or the manual is damaged, please contact your dealer or ALPLER company.

2.2. SAFETY TRAINING

Safety is a primary concern in the design and manufacturing of our product. Unfortunately, our efforts to provide safe equipment can be wiped out by a single careless act of an operator or bystander.

In addition to the design and configuration of equipment, hazard control and accident prevention are dependent upon the awareness, concern, prudence and proper training of personnel involved in the operation, transport, maintenance and storage of this equipment.

It has been said, " The best safety device is an informed, careful operator." We ask you to be that kind of operator. It is the operator's responsibility to read and understand all safety and operating instructions in the manual and to follow them. Accidents can be avoided.

Working with unfamiliar equipment can lead to careless injuries. Read this manual, and the manual for your tractor, before assembly or operating, to acquaint yourself with the machines. If this machine is used by any person other than you, or is loaned or rented, it is the rotary tiller owner's responsibility to make certain that the owner's manual be available to the operator prior to operating:

- Reads and understands the operator's manuals.
- Is instructed in safe and proper use.

Know your controls and how to stop the tractor, engine, and tiller quickly in an emergency. Read this manual and the one provided with your tractor. Train all new personnel and review instructions frequently with existing workers. Be certain only a properly trained and physically able person will operate the machinery. A person who has not read and understood all operating and safety instructions is not qualified to operate the machine. An untrained operator exposes himself and bystanders to possible serious injury or death.

3. SETTINGS

3.1. TRANSPORTING



ATTENTION!

When the machine tied tractor and tractor is working

- Never carry anyone or any animal on the machine.
- Pay attention on the traffic rules on public roads.
- Check out the lightening, warning decals, and protection guards before starting to work.
- Pay attention to work with the machine in the daylight. Especially at nights in public roads take care to have safety decal (light decal apparatus) on the machine.

Transporting the machine,

1. Transporting with forklift: You must choose a forklift according to the weight of the machine. Hold the machine from its weight center. Connect the forklift hook on the machine from the weight center. Start transporting the machine.
2. Transporting with crane: This method is same as transporting with forklift. Hold the machine from its weight center by crane. Pay attention if the security lock of the crane's hook is working safely.
3. Transporting with palette: Choose palette according to the machine dimensions. Transport the machine by forklift while it is on palette.



ATTENTION!

PAY ATTENTION TO BE NOT UNDER THE MACHINE WHILE TRANSPORTING

- Never be under the machine or near the machine while transporting it by forklift, crane or palette.



ATTENTION!

TAKE CARE OF THE HOOKS AND IRON ROPES OF THE CRANE AND FORKLIFT TO BE SAFETY ENOUGH

- Take care of the security of the hook and iron ropes. Be sure that they are full of security.

3. SETTINGS

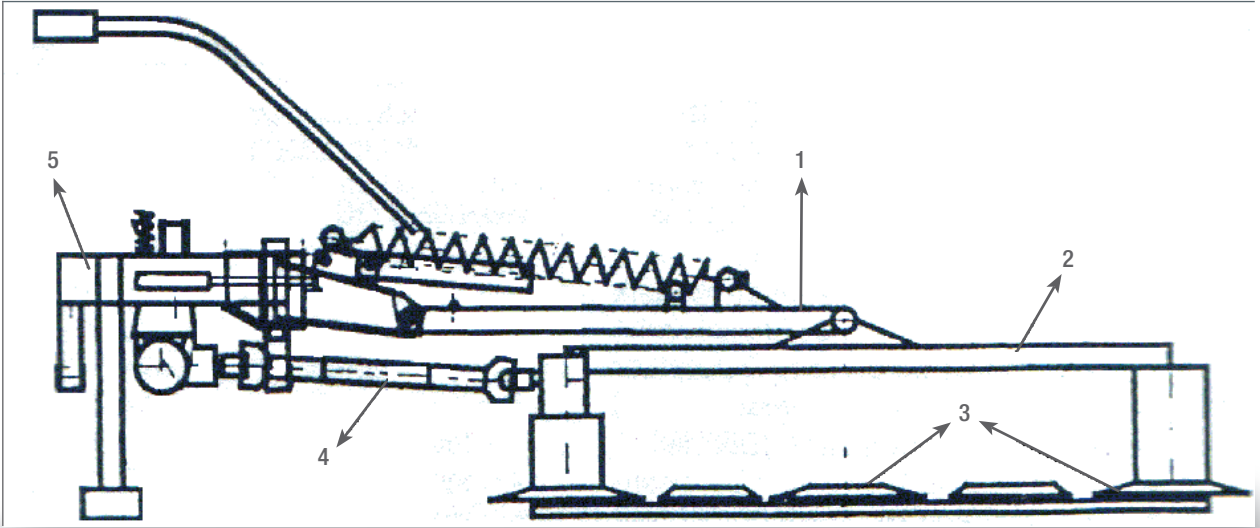


Fig. 1: Main parts of the machine

- 1. Main Chassis
- 2. Cutter Bar
- 3. Discs
- 4. Hydraulic Cylinder
- 5. Three Point Hitch System

3.2. PREPARATION AND RUNNING OF THE MACHINE

Connecting the machine to the tractor:

- Connect the Rotary Disc Mower to tractor by its three point hitch system.

At the same time put top and bottom safety pins according to convenient category.

(Note: Tractor max draw power till 40 HP are stated Category I, draw power which is between 40-100 HP are stated Category II.)

For this reason top and bottom pins diameters will be selected according to category I and category II and wear them.

Rotary Disc Mower machine is aranged according to category II. See Table-1

- Insert the safety pin.

Arrange the top and bottom arms so that the machine is paralel to the land.

(Note: Meanwhile tractor must be in a smooth surface.)

category	Max draw power (HP)	Bottom arm tractor connection pin: hole diameter \emptyset (mm) (max.)-(min.)	Top arm draw connection pin: hole diameter \emptyset (mm) (max.)-(min.)
I	40	22,10-21,84	19,56-19,3
II	40-100	28,45-28,19	25,91-25,7
III	80-225	36,85-36,32	32,26-32
IV	180-400	50,8-49,7	45,5-45,2

Table-1. (Sufficient tractor top and bottom arms connection pin and dimensions for attaching the machine and tractor)

3. SETTINGS

Working with Rotary Disc Mower machine:

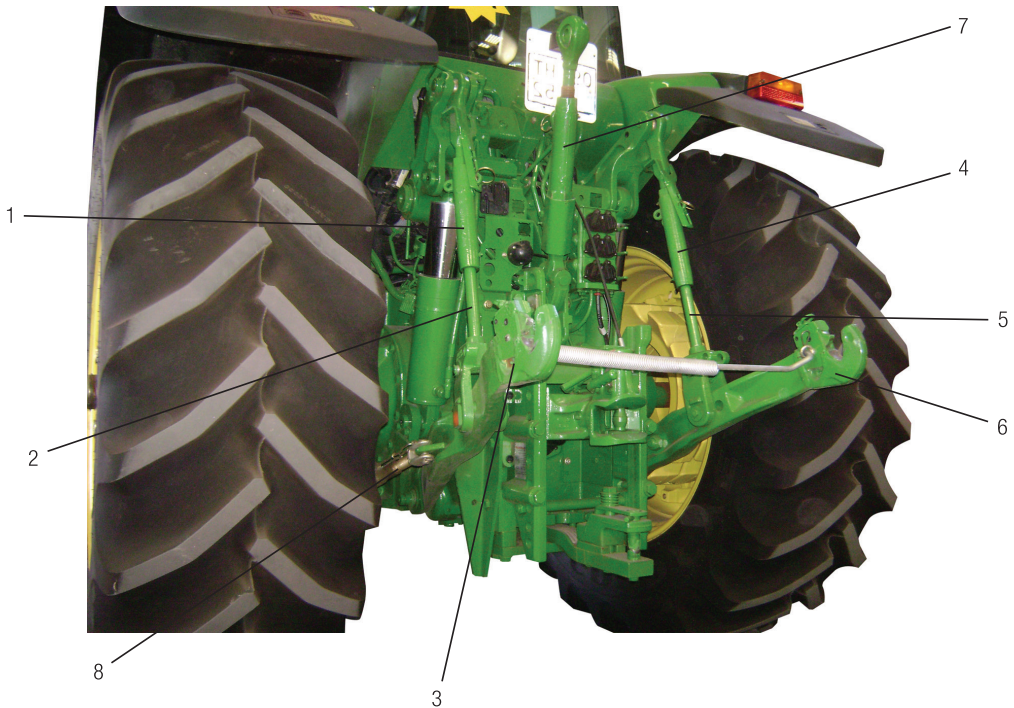


- Max. Input rotation speed of the Rotary Disc Mower is 540 RPM
- Provide to reach selected tractor's queue pin revolutions per minute convenient revolutions per minute for the machine.



ATTENTION!

STOP THE ENGINE THEN ADJUST AND PREPARE THE MACHINE FOR WORK



- | | |
|---|---|
| 1. Left lower link arm height adjustment mechanism | 5. Right lower link arm height adjustment lever |
| 2. Left lower link arm height adjustment lever | 6. Right lower link arm |
| 3. Left lower link arm | 7. Upper link arm (Middle arm) |
| 4. Right lower link arm height adjustment mechanism | 8. Right lower link arm tensioning mechanism |

3. SETTINGS

Connecting the machine to the tractor:

Firstly connect the lower non adjustable arm then adjustable arm at the end connect upper connection arm. While disconnecting the machine, do the opposite.

Connecting the P.T.O. shaft:

SERIES 4 P.T.O shaft which has **Friction Limiter Clutch** is used in Rotary Disc Mowers.

- Before connecting the pto, clean the surfaces of spindle and lubricate them with grease. Later shift the shaft on the pto spindle until the pin fits into safely. The shifting distance must be at least 15 cm. Take pto shaft guard in a safety position by hanger. This safety position is for the tractor and for the rotation of fixed parts.
- P.T.O shaft can only be connected when the P.T.O connection and engine are switched off and the ignition key is pulled down.
- Connect the prescribed P.T.O. shaft and secure the P.T.O shaft connection by a chain Make sure that the P.T.O shaft is in proper position on both ends. The adjustment of the P.T.O shaft is necessary for different tractors. To find out the right length. Shorten both shafts and protection tubes for exactly the same length.
- To find the right length:

Connect the machine to the tractor.

Pull out the P.T.O shaft entirely and connect each separate half of the shaft to the tractor and compare them with each other.

If the covering of the P.T.O shaft and P.T.O shaft does not run into the block at horizontal position. In case you need to shorten the P.T.O shaft. Shorten the shaft in exactly the same length.



Pic. 11 Cutting the shaft spindle for a suitable length for the tractor



ATTENTION!

When the machine is working, don't intervene the machine with hand, foot, foreign tools strictly.

- Pay your attention to proper mounting and securing of the P.T.O shaft.
- Make sure that nobody is in the area of danger of the implement before switching on the P.T.O shaft connection.
- After switching off the P.T.O shaft connection the danger of rotating heavier parts remains. Do not get close to the implement during this period. You can start to work only when the rotation is completely stopped.
- P.T.O shaft protection must be fitted on and must be in perfect condition.
- Use only original P.T.O shafts prescribed by your manufacturer. Because the manufacturer will not take any responsibility if another shaft is used.

3. SETTINGS

3.3. WHEN THE MACHINE IS TAKEN TO THE FARM

Start the engine of the tractor for a minute. Hold the machine with main hydraulic arm. Attach the security lock for not to damage to the hydraulic system while driving. Stretch the stretching chains to prevent swinging.

- When using the road queue pin, be careful that Revolutions Per Minute depends on tractor's speed and turning way can't be opposite in back movement.
- In machine's carrying position, take care of from tractor wheels, excess outside.
- The movements in curves, take care of freight condition and drift mass of the machine.
- It's dangerous to work with tractor in downhill.

Still If you have to do it, take care about it and don't turn curves so severe.

- To provide a safe movement stability, to cultivate the downhill working field; take care of fitting the tractor with sufficient addition weight.

Before starting up in farm:

Put tractor hdyraulic control arm to position control condition and make the height adjustment.

In position control condition, when you are moving hdyraulic arm a little, tool lifts up, stops in a level, if you move the arm again, it lifts some more and stops, namely draw doesn't rise the top point like in control.

Note: Hdyraulic setdown-lifting arm is lifted up and put it in a certain level.

In this condition tool and machine completely lift up, front elect arm is in "DRAW CONTROL"

If tool and machine don't lift completely, and lift in a certain level, it's in "POSITION CONTROL".

Position control condition provides the machine's working in the field by putting tool and machine which are depended hdyrolic connection arms in a certain height.

When you're working with like Centrifuge fertilizer distributed machine, front election arm must be in position control condition.

- Safety Max. Input rotation speed of the Rotary Disc Mower is 540 RPM

After providing a convenient dept, the machine is taken to the field with a convenient gear it is started up moving on and working.

- Running and stopping of Hdyraulic Side Shifting Rotary Tiller is arranged only from tractor driver place.
- Rotary Disc Mower must works into the circle that has 5 m distance between itself and people. Because in this field pieces that machine throws like stone and soil may come.
- Rotary Disc Mower is worked only in flattened smoothy field.

Besides, be careful about if stone and chips exist in the field or not.

Then these strange materials is in working field, it can cause harm to machine's cultivation bodies, knives, and at the same time herbals and people.

- Rotary Disc Mower don't be worked in nonsmoothy fields.
- Machine's working speed is arranged only by depending working conditions.
- During working with the machine, in the end of the turnings tractor queue spindle is stopped and you wait until the machine is stopped.

Before the turnings the machine is lifted and slinged. So danger of throwing field pieces which the machine's got dissepars.

- If your tractor which you run Rotary Disc Mower with doesn't have a close driver cabin, please during the working use a protection glasses and noise.

4. MAINTENANCE AND REPAIR



ATTENTION!

MAINTENANCE, REPAIRS, CLEANING MAY ONLY BE EXECUTED WHEN THE DRIVE AND THE ENGINE ARE SWITCHED OFF AND THE IGNITION KEY IS PULLED OUT.

Rotary Disc Mower is produced by full of quality. So this machine will not need so much maintenance and repair after working with the machine.

Take care about the items that is written below for maintenance and repair:

- Cleaning, lubrication or adjusting of the implement, driven by the P.T.O shaft can be done when the connection and the engine are switched off and the ignition key is pulled out.
- Maintenance and repair must be done after the shaft and machine is disconnected from the tractor.
- It is easy to repair and make maintenance to the Rotary Disc Mower.
- Put the machine in a closed area after work, lubricate the parts and take care against rust.
- Control the nuts and screws every day to see if they are tightened enough. If not tighten them.
- Change the broken and wearied parts.
- Choose the suitable parts while making maintenance. The parts must be safety.
- Use adequate tools and gloves during repairs, maintenance and cleaning.
- Lubricate the grease nipples periodically as shown in Pic.18-19.
- Use original spare parts.
- Control the gear box oil level in each 50 hours of work. Change the oil of the gear box after controlling the oil level in the period of 100 hours work. Use SAE 140 oil in the gear box. Fill 5 litres of SAE140.
- If you perform any maintenance on the lifted implement, always secure the implement by a suitable holder.
- Call ALPLER technical service for the maintenance of the machine.

Maintenance Period	Daily	Weekly	50 hours	100 hours	400 hours
Greasing (control of transmission oil level)					
Changing of oil (SAE140)			A	C	
Control of oil leak	A				
Control of knife corrosion				A	
Lub. grease nipples		B			
Control of tightness (bolt-nut)	A		C		
Cleaning	B				

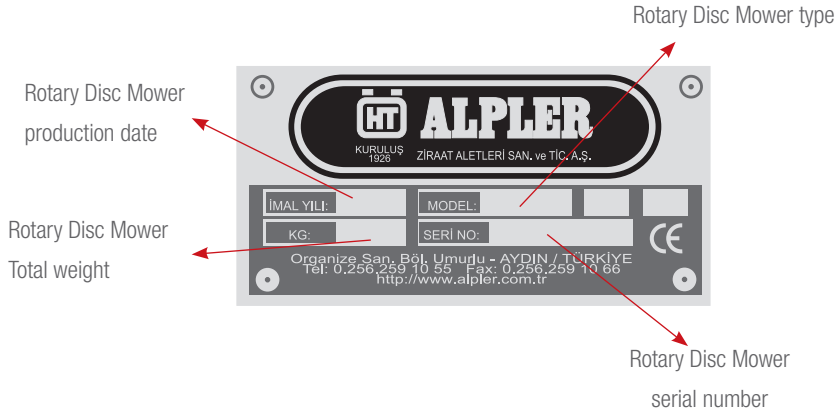
A= CONTROL

B= MAINTENANCE

C= VARIATION

Table-7. Maintenance Periods

5. WARRANTY



Use original spare parts in ALPLER branded products. The customer will be responsible for the problems that occur due to not using original spare parts. The Rotary Disc Mower will not be covered by the warranty when non-original parts are installed on the Rotary Disc Mower, additional equipment is attached on the Rotary Disc Mower or it is used after removing standard parts.

While ordering spare parts, for the codes beginning with '0', plough serial number together with the part code should be provided. For other codes, it is not necessary to provide the Rotary Disc Mower serial number.

Label information is important for identifying the Rotary Disc Mower and for spare part orders. As a measure against the illegibility of the label due to deformation or its loss, label information on the Rotary Disc Mower should be written literally in the corresponding fields of the following label picture, and it should be retained.

Our Rotary Disc Mowers are **warranted for 2 years** for faults that may occur due to material, workmanship and mounting errors.

Faults resulting from improper use are not covered by the warranty. The average lifetime is 10 years.

5. WARRANTY

WARRANTY CERTIFICATE

Warranted by ALPLER for a period of two years

BRAND: ALPLER
PRODUCT TYPE:
MODEL:
SERIAL NUMBER:
DATE OF PRODUCTION:

Seller's

Title:.....
Address:.....
Phone:.....
Fax:.....
Invoice Date:.....

Signature & Seal



Exports to 75 countries
on 5 continents.

 **ALPLER**

ALPLER AGRICULTURAL MACHINERY

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