



# VERTICAL TILLAGE MACHINE

## USER GUIDE



 **ALPLER**

ATTENTION



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

# INDEX

WARNING SIGNS & MEANINGS	2-3
1. INTRODUCTION	4
2. SAFETY RULES	5
2.1. RULES TO BE OBSERVED	5
3. ADJUSTING AND OPERATING	5
3.1. PREPARATION OF THE TRACTOR	5
3.1.1. TIRE PRESSURES	5
3.1.2. FRONT BALLAST WEIGHTS	6
3.1.3. LIGHTS	6
3.1.4. LIFT RODS	6
3.2. TRANSPORT POSITION	6
3.3. WORKING POSITION	10
4. MAINTENANCE	11
5. WARRANTY	12-13

# WARNING SIGNS & MEANINGS



## WARNING

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



## THE RISK OF FALLING DOWN

This symbol expresses the risk of falling down by losing the balance or because of other causes.



## READ MANUAL FIRST

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



## KEEP CHILDREN AWAY

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



Do not carry people or loads on the plough.



There is a danger of impact while plough is being turned. Stand away.



Be careful against the pointed and sharp edges on the plough.



Use the balance leg against danger of tipping over while detaching the plough from tractor.



Be careful against danger of entrapment.



UE 10

Do not hammer or apply force.



Be careful against danger of entrapment between the tractor.

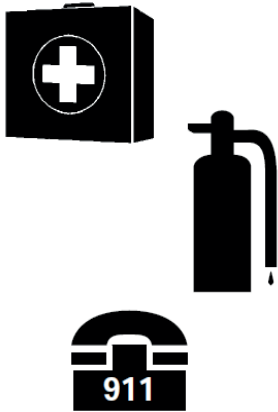


Locations which need to be greased in each use.

# WARNING SIGNS & MEANINGS

## Prepare for Emergencies

- ▲ Be prepared if a fire starts.
- ▲ Keep a first aid kit and fire extinguisher handy.
- ▲ Keep emergency numbers for doctor, ambulance, hospital and fire department near phone.



## Wear Protective Equipment

- ▲ Wear protective clothing and equipment appropriate for the job. Avoid loose fitting clothing.
- ▲ Prolonged exposure to loud noise can cause hearing impairment or hearing loss. Wear suitable hearing protection such as earmuffs or earplugs.
- ▲ Operating equipment safely requires the full attention of the operator. Avoid wearing radio headphones while operating machinery.



## Avoid High Pressure Fluids Hazard

- ▲ Escaping fluid under pressure can penetrate the skin causing serious injury.
- ▲ Avoid the hazard by relieving pressure before disconnecting hydraulic lines or performing work on the system.
- ▲ Make sure all hydraulic fluid connections are tight and all hydraulic hoses and lines are in good condition before applying pressure to the system.
- ▲ Use a piece of paper or cardboard, NOT BODY PARTS, to check for suspected leaks.
- ▲ Wear protective gloves and safety glasses or goggles when working with hydraulic systems.
- ▲ If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be treated within a few hours or gangrene may result.



## Keep Riders Off Machinery

- ▲ Riders obstruct the operator's view, they could be struck by foreign objects or thrown from the machine.
- ▲ Never allow children to operate equipment.



## Tire Safety

- ▲ Tire changing can be dangerous and should be performed by trained personnel using the correct tools and equipment.
- ▲ When inflating tires, use a clip-on chuck and extension hose long enough to allow you to stand to one side and NOT in front of or over the tire assembly. Use a safety cage if available.
- ▲ When removing and installing wheels, use wheel handling equipment adequate for the weight involved.



## Handle Chemicals Properly

- ▲ Protective clothing should be worn.
- ▲ Handle all chemicals with care.
- ▲ Follow instructions on container label.
- ▲ Agricultural chemicals can be dangerous. Improper use can seriously injure persons, animals, plants, soil, and property.
- ▲ Inhaling smoke from any type of chemical fire is a serious health hazard.
- ▲ Store or dispose of unused chemicals as specified by the chemical manufacturer.



# 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 utilisation 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.

The purpose of this manual is to assist you in operating and maintaining your Compact Disc Harrow. It furnishes information and instructions that will help you achieve years of dependable performance.

BDH Series Compact Disc Harrows will achieve excellent results if they are set up and operated correctly. It is important to note that a little time setting the machine up initially will greatly increase performance and efficiency.

The tandem Disc Harrow may be used for either primary or secondary cultivations, for example straw incorporation or use following the plough. A back roller (Optional) used in conjunction with the Disc Harrow will firm the surface, retain moisture and provide ideal conditions for subsequent passes.

All references in this manual to the Right-Hand and Left-Hand sides of the Disc Harrow are determined by facing in the direction, the implement will travel when moving forward.

The illustrations and data used in this manual were current at the time of printing. However, due to possible inline production changes, your machine may vary slightly in detail. We reserve the right to redesign and change the machines as may be necessary without notification.

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

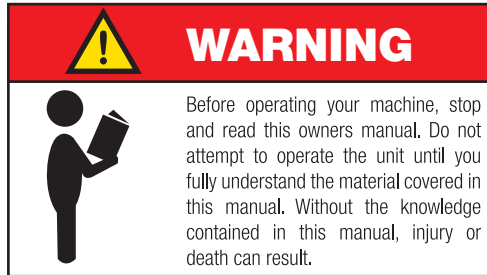
We hope to serve you for a long time...



## 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

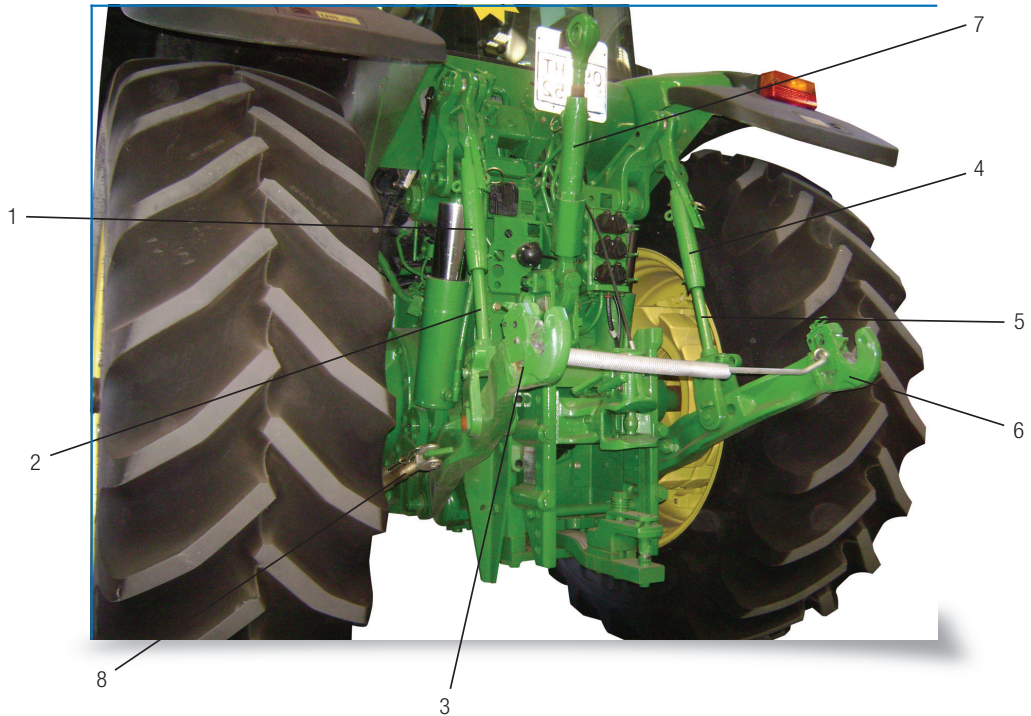


## 2.1. RULES TO BE OBSERVED

1. Before moving, while attaching the plough to tractor please be sure that it is fixed and while detaching the plough be sure there is no connection left between the leveler and the tractor.
2. Before beginning to drive the tractor, check surroundings area (CHILDREN)!
3. Never stay or allow anyone to stay within the operating area.
4. Never stay in the turning and slew area of the implement!
5. The hydraulic pipes are under pressure!
6. When connecting hydraulic sockets, the pipes must be connected as directed.
7. Always release hydraulic pressure from both tractor and plough before attaching and detaching the plough
8. When connecting hydraulic pipes to the tractor ensure that incorrect connection is avoided. If the connections are reversed, the opposite function is carried out (e.g. raising/lowering) and there is a risk of accidents.
9. Regularly check the hydraulic pipes and replace the damaged or aged ones with the pipes comply with the technical specifications as described by ALPLER.
10. Do not operate the equipment with hydraulic oil leaking. Oil is flammable and their presence could present a hazard. Do not check for leaks with your naked hand! Hydraulic oil escaping at high pressures can penetrate the skin and cause injury. When injured see a doctor immediately. To check for a hose leak, SHUT the tractor ENGINE OFF and remove all hydraulic pressure. Wear oil impenetrable gloves and use a cardboard to check for evidence of oil leaks.
11. When working on tires make sure that the implement has been placed on the ground safely and that is secured by chocks against unintentional rolling.
12. After each use, check all bolts and nuts if they need tightening, also for the missing ones, replace them with the original ones.
13. Sitting or standing on the implement during operation or during transport is not permissible.
14. Operator competence. The operator must be well acquainted with the
15. different functions of the plough and be knowledgeable of how to operate it with safety
16. Ensure that the plough is locked with the correct locking pins onto the three-point linkage on the tractor.
17. Secure the lower link stabilizers on the tractor when the plough is transported on the road.
18. The brake pedals on the tractor must be locked together when driving on the road.
19. All hydraulic connections between tractor and plough must be made in accordance with the instructions given.
20. Always lift the plough prior to the turn-over action.
21. Make sure the lever for the turn-over action is in neutral prior to starting the tractor.
22. Never park the tractor with the plough in an uplifted position.
23. Always use the support leg when parking the plough.
24. Never attempt to clean or adjust the plough during operation.
25. Never touch the gas valve on the accumulator.
26. Adapt the ploughing speed to suit the ground conditions. DRIVE CAREFULLY. Maximum transport speed 25 km/h.

# 3. ADJUSTING AND OPERATING

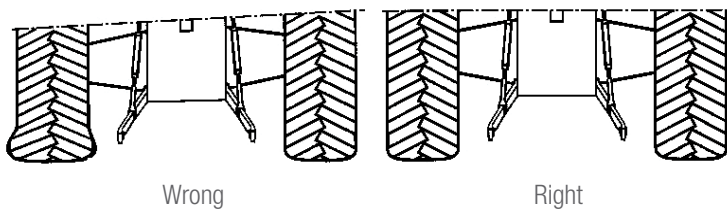
## 3.1. PREPARATION OF THE TRACTOR



- |   |   |
|---|---|
| 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    |

### 3.1.1. TIRE PRESSURES

Both tyre life and optimum traction are achieved by using the correct tyre pressure. Over-inflation will increase wheel slip. Make sure that both rear tyres are inflated to the same pressure.





# 3. ADJUSTING AND OPERATING

## 3.1.2. FRONT BALLAST WEIGHTS

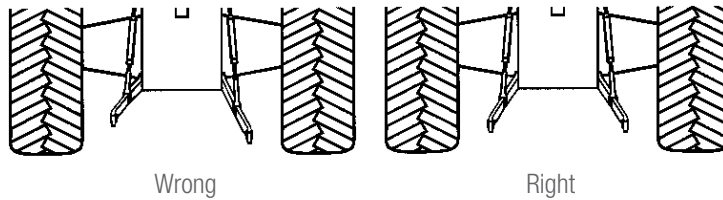
The front of the tractor should be fitted with balance weights as required to maintain optimal traction and directional stability.

## 3.1.3. LIGHTS

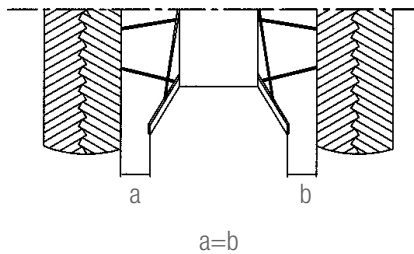
The tractor should be equipped with proper working lights when ploughing in the dark.

## 3.1.4. LIFT RODS

Adjust lift rods to equal length (See manufacturer's instructions)



Adjust lift rods to equal distance from the tractor tyres and the distance between the rods should be appropriate for the plough connection pins.



## 3.2. TRANSPORT POSITION

1. The hydraulic system of the tractor is set to position control. Before connect the hydraulic couplings to the tractor, turn off tractor engine, relieve hydraulic pressure and check them for cleanness or damages. When connecting the hydraulic pipes to the tractor ensure that incorrect connection is avoided. If the connections are reversed, the opposite function is carried out.
2. The Disc Harrow is positioned to a suitable place so that the tractor approaches easily.
3. The tractor is driven back and approached to the Disk Harrow averagely.

# 3. ADJUSTING AND OPERATING

4. The hitch handles are lifted so to meet the lower linkage points on the disk harrow and the tractor is stopped. Firstly the lower linkage of the tractor should be attached to the disk harrow and secured by the pin (Figure 2). Then pin the middle of the tractor to the upper link of the disc harrow by extending and shortening the middle arm (Figure 1).

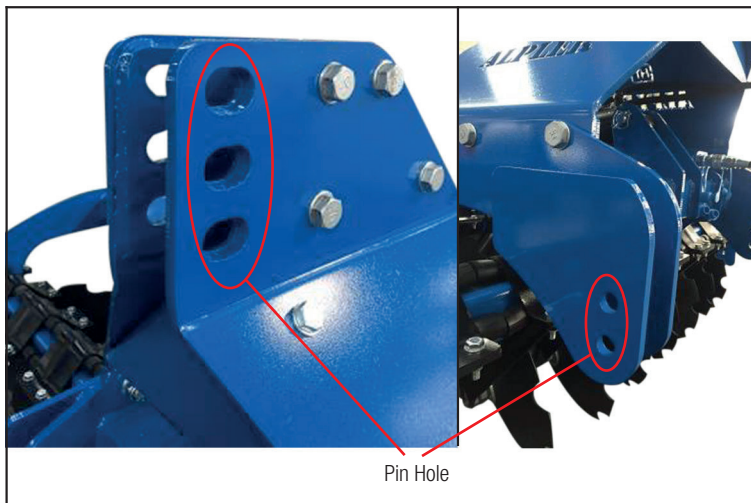


Figure 1  
Height 3-Position Upper Arm

Figure 2  
Height 2-Position Lower Arm

5. The disk harrow has two hydraulic hoses that are connected to the tractor. Those hydraulic hoses are attached to the holding sheet underneath the heat group to protect the hydraulic jacks from dust (Figure 4). One of which acts to raise the roller and the other to lower the roller. For the transport position, connect the hydraulic pipes of the equipment to the tractor hydraulic connection sockets (Figure 3).

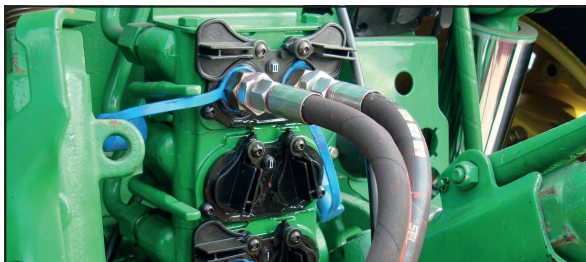


Figure 3  
Tractor – Disc harrow Hydraulic Connection



Figure 4  
Hydraulic Hoses Holding Sheet

# 3. ADJUSTING AND OPERATING

6. Finally, It is advised to rise the back roller of the disc harrow to maximum height position to that will helps to move the center of gravity closer to the tractor for safer transportation (Figure 5 and 6).

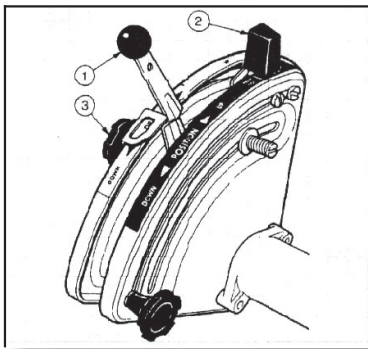


Figure 5



Figure 6



## NOTE !

Do not move the tractor before raising the disc harrow from the ground to the safe distance (Figure 7).

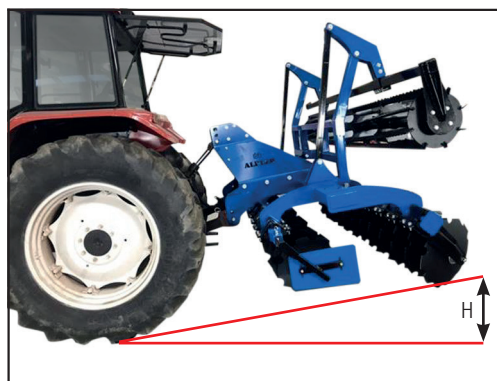


Figure 7  
Safe Height From The Ground

# 3. ADJUSTING AND OPERATING

## 3.3. WORKING POSITION



Figure 8  
Disc Adjustment Bolts



Figure 9  
Roller Dismantling Bolt



Figure 10  
Ideal Working Position Parallelism

1. The distance between the disc is adjusted 25 cm from factory settings. The disc distance is adjusted by raising the disc harrow from ground. By losing the clamp bolts, distance between the discs are easily adjusted (Figure 8).
2. Back roller is an optional part on the disc harrow an easily mount/dismount from the harrow by the roller dismantling bolts (Figure 9).

3. Adjust the Left/Right lower link height adjustment mechanism on the tractor so that both are same height from the ground so that disc harrow will be parallel to the ground (Right/Left). The paralelism of the Back/Front adjustment is done by the top link of the tractor.

4. The working depth of the first body is adjusted from the tractor hydraulic (See in Figure 5 and 6). To assure the constant working depth for the first body, use either the automatic hydraulic fixer that is standard for most of the tractor models or the secure pin on the tractor control adjustment arm for lower linkage of the tractor.



### IMPORTANT

- Damage to the harrow can occur if it is not lifted out of the ground before making sharp turns.
- Raise unit out of the ground to make sharp turns. When making sharp turns, make sure the tractor tires do not make contact with the Disc Harrow hitch.
- Do not disc in reverse (traveling backwards). The Disc Harrow is designed to work soil while traveling forward only. Damage to the harrow may occur.
- Do not back Disc Harrow into corners and tight places with disc gangs down. Instead, lift unit up and back unit into the corner or tight area. Lower disc to the ground and then proceed forward.

# 4. MAINTENANCE

- The parts on your Disc Harrow have been specially designed and should only be replaced with genuine ALPLER parts. Do not alter the harrow in a way which will adversely affects its performance.
- Proper servicing and adjustment is the key to the long life of any implement. With careful inspection and routine maintenance, you can avoid costly down time and repair.
- Check all bolts after using the unit for several hours to be sure they are tight.
- Replace any worn, damaged or illegible safety labels by obtaining new labels from your ALPLER Dealer.
- On a new disc harrow tighten all bolts and nuts after 5 hours operation and again after 15 hours. This also applies to parts that have been moved or replaced. After the initial 15 hours of operation, once a week check is sufficient.
- Check disc blades for damage, damaged discs may lead to damage of failure of other component.
- Check hydraulic connections for leaks. Leaking hydraulic may allow the machine to lower in work or road transport.
- Please take a look at Lubricate Points page for the points need to be greased. Before applying grease please make sure no foreign material is allowed to get into lubrication or bearings. Clean the Grease fittings with a cloth before introduce the lubricant and if they are not in satisfactory condition, replace them with new ones.
- Each 24 hours of operation, lubricate the greasable bearings with standard Agricultural grease. While applying grease, ensure vent hole is open to prevent the incoming Grease from pressurizing the bearing housing. Apply grease until grease shows out of the vent hole, and please check that the vent hole is closed after greasing.
- The disc blades should be replaced as soon as they are presenting low output, which is noticed by decrease of its diameter. Inspect all movable parts and if any is spoiled, replace it with new parts available at your ALPLER dealer.

# 5. WARRANTY



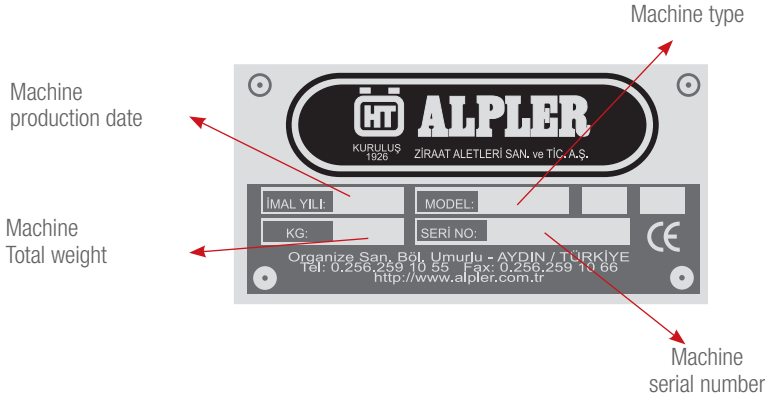
ALPLER warrants to the original purchaser that this product will be free from defects in material and workmanship beginning on the date of purchase by the end user according to the following schedule when used as intended and under normal service and conditions for personal use.

**Overall Unit:** Two years Parts and Labor

**Hydraulic Cylinder:** Two years Parts and Labor.

**Hoses and Seals:** Considered wear items.

**Disc Blades:** Considered wear items.



This Warranty is limited to the replacement of any defective part by ALPLER and the installation by the dealer of any such replacement part, and does not cover common wear items. ALPLER reserves the right to inspect any equipment or parts which are claimed to have been defective in material or workmanship.

This Warranty does not apply to any part or product which in ALPLER's judgment shall have been misused or damaged by accident or lack of normal maintenance or care, or which has been repaired or altered in a way which adversely affects its performance or reliability, or which has been used for a purpose for which the product is not designed. Misuse also specifically includes failure to properly maintain oil levels, grease points, and driveline shafts.

Claims under this Warranty should be made to the dealer which originally sold the product and all warranty adjustments must be made through an authorized ALPLER dealer. ALPLER reserves the right to make changes in materials or design of the product at any time without notice.

This Warranty shall not be interpreted to render ALPLER liable for damages of any kind, direct, consequential, or contingent to property. Furthermore, ALPLER shall not be liable for damages resulting from any cause beyond its reasonable control. This Warranty does not extend to loss of crops, any expense or loss for labor, supplies, rental machinery or for any other reason.

No other warranty of any kind whatsoever, express or implied, is made with respect to this sale; and all implied warranties of merchantability and fitness for a particular purpose which exceed the obligations set forth in this written warranty are hereby disclaimed and excluded from this sale. This Warranty is not valid unless registered with ALPLER within 30 days from the date of purchase by the end user.

# 5. WARRANTY

## WARRANTY CERTIFICATE

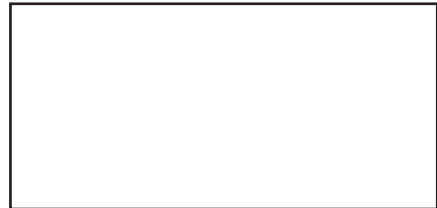
Warranted by ALPLER for a period of two years

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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