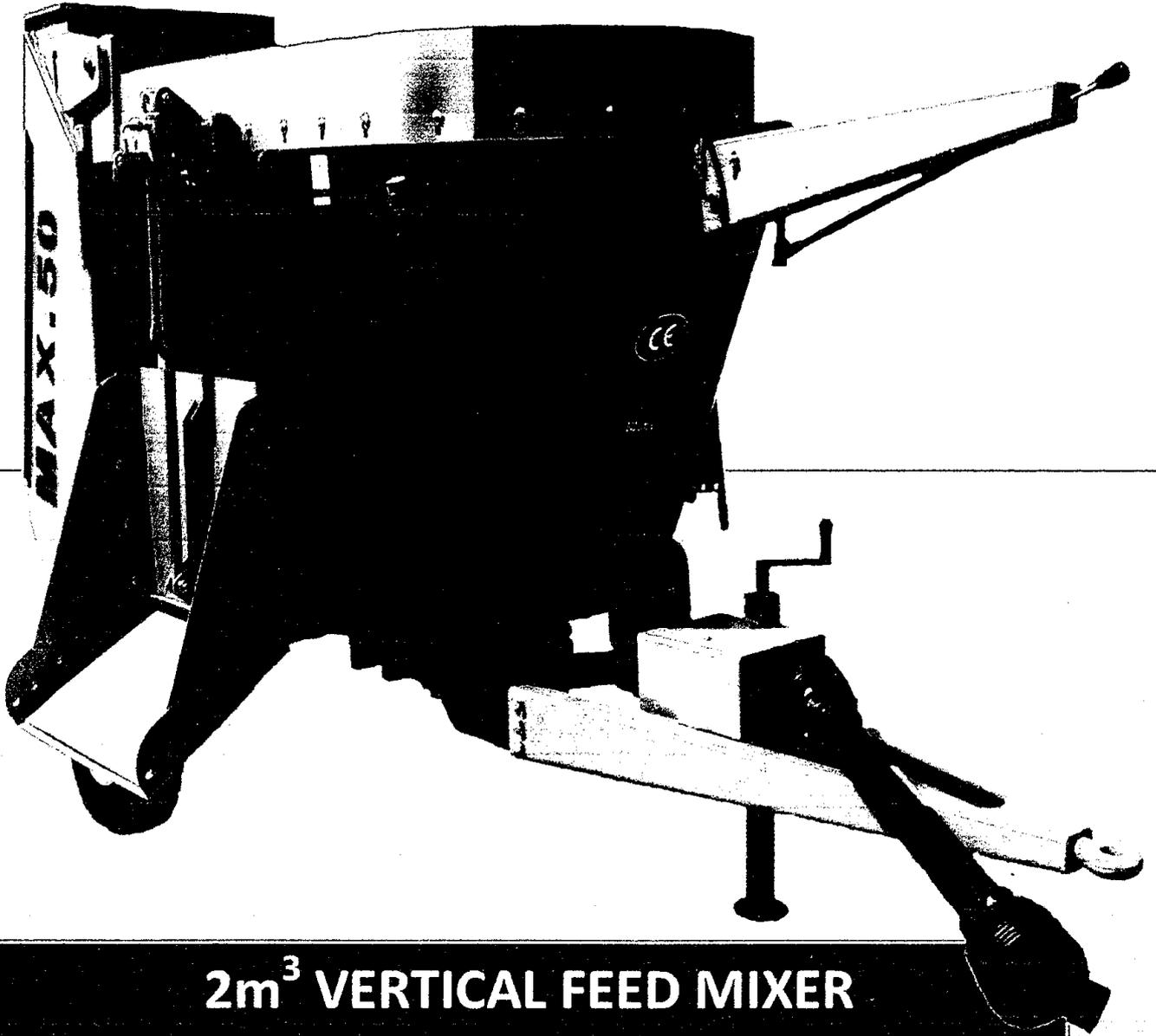


***TINAZ***  
TARIM ve SANAYİ MAKİNALARI TİC. ve SAN. A.Ş.

**DO NOT USE THE MACHINE BEFORE READING THE USER MANUAL**



**2m<sup>3</sup> VERTICAL FEED MIXER  
USER MANUAL**



## EC - CERTIFICATE OF CONFORMITY

### TINAZ TARIM ve SANAYİ MAKİNALARI Tic. ve San. A.Ş

Tınaz Tarım ve Sanayi Makinaları Tic. ve Sanayi AŞ  
Gümüşçeşme Mah. Kepsut Cad. No:338/A Altıeylül / BALIKESİR / TURKEY

Tel: +90 266 241 21 39

Fax: +90 266 249 58 68

E-mail: info@tinaztarim.com

### EC DECLARATION OF CONFORMITY

EC 2006-42 Makine Direktifi'ne göre

in accordance with The Machinery Directive, Directive EC 2006-42

**Manufacturer:** TINAZ TARIM ve SANAYİ MAKİNALARI TIC. VE SAN. A.Ş  
Gümüşçeşme Mah. Kepsut Cad. No:338/A Altıeylül/BALIKESİR/  
TURKEY

**Declaration:** We hereby declare under our own responsibility that the products listed below

**Product Code :** 2ÇDYK  
**Products Type :** Feed Mixer

**Directives:** 98/37 EC Makine Direktifi ve revizyonları  
Directives: The Machinery Directive, Directive 98/37/EC, and its amendments.

**Conformity Standards:** TS 10305

Balıkesir/TURKEY,  
Fedayi ÖZEY  
Production Manager

## TABLE OF CONTENTS

Declaration .....  
Foreword.....  
Technical  
Specifications.....

### Part 1

Major Components of the Machine.....  
1.1 Body  
1.2 Loader  
1.3 Door  
1.4 Drawbar  
1.5 Gear Box  
1.6 Mixing Auger  
1.7 Hydraulic Control

### Part 2

Safety and Precautions for Accidents .....  
2.1 Operating the Machine  
2.2 General Requirements  
2.3 Recommendations for the Operators

### Part 3

Setting up the Machine .....  
3.1 Check List  
3.2 Requirements for Setting-up  
3.3 Attaching to the Tractor

### Part 4

Settings.....  
4.1 Jack  
4.2 Mixing Auger

### Part 5

Maintenance and Selection of Consumables.....  
5.1 Components Requiring Maintenance  
5.2 General Maintenance  
5.3 Daily Maintenance  
5.4 Weekly Maintenance  
5.5 Monthly Maintenance  
5.6 Controls and Periodic Replacement Parts.....

## Declaration

Manufacturer:

**TINAZ TARIM VE SANAYİ MAKİNALARI TİCARET VE SANAYİ A.Ş.**

Eski Kepsut Yolu 4. km P.K. 245 10040 Balıkesir / TURKEY

Trade Registry No.: 6109

Industry Registry No.: 241

E-mail: [tinaztarim@tinaztarim.com](mailto:tinaztarim@tinaztarim.com) web: [www.tinaztarim.com](http://www.tinaztarim.com)

Tel: + 90 266 241 21 39/241 35 95 Fax: + 90 266 249 58 68

We hereby declare that we produced the below-mentioned product with serial number, type or model in accordance with the specified standards to meet the requirements of Directive 98/37 EC, "The Machinery Directive".

Information about the product: VERTICAL FEED MIXER 2 m<sup>3</sup>

TYPE / MODEL	<b>D-YEMIX 2 m<sup>3</sup></b>
Serial Number	.....
Year of Manufacture:	<b>201....</b>

The Directives Compliant with the Product Specifications:

- DIRECTIVE 98/37 EC "The Machinery Directive"

General Manager  
HÜSEYİN FİNİŞ

BALIKESİR/TURKEY

Dear Farmer,

Meeting your needs in the best way, being suitable for your system, and being easy to use is very important for the efficiency in machine selection.

Feed Mixing and Dispensing Trailer is manufactured according to high-standards entirely in Turkey. The provision of spare parts and replacement of the suitable equipment in line with your request is offered for your convenience.

The purpose of the machine is to prepare a homogeneous mixture of various feeds such as concentrated feed (pallet feed, powder feed), coarse feed (alfalfa, straw, vetch, silage, fodder beet, etc.), grains (barley, wheat, oat etc.) minerals and feeds in different categories without losing its nutritional value and quality. Therefore, saving in time is maximized as well as the workload of the operator is minimized.

When the machine is used properly:

- The prepared mixture allows the animals to eat the feed easily and digest it the best way.
- It increases the yield gained from the livestock to the maximum level.
- It provides 100% ration in the feed mixture.
- It reduces the labor costs and minimizes the physical effort spent.
- It prevents wasting the feed since it is equally dispensed.
- It provides savings in time and gas.
- The machine can be controlled easily by the tractor.
- It increases the milk yield ranging between 5% and 15% depending on the climate conditions.

## Technical Specifications of 2m<sup>3</sup> Vertical Feed Mixer

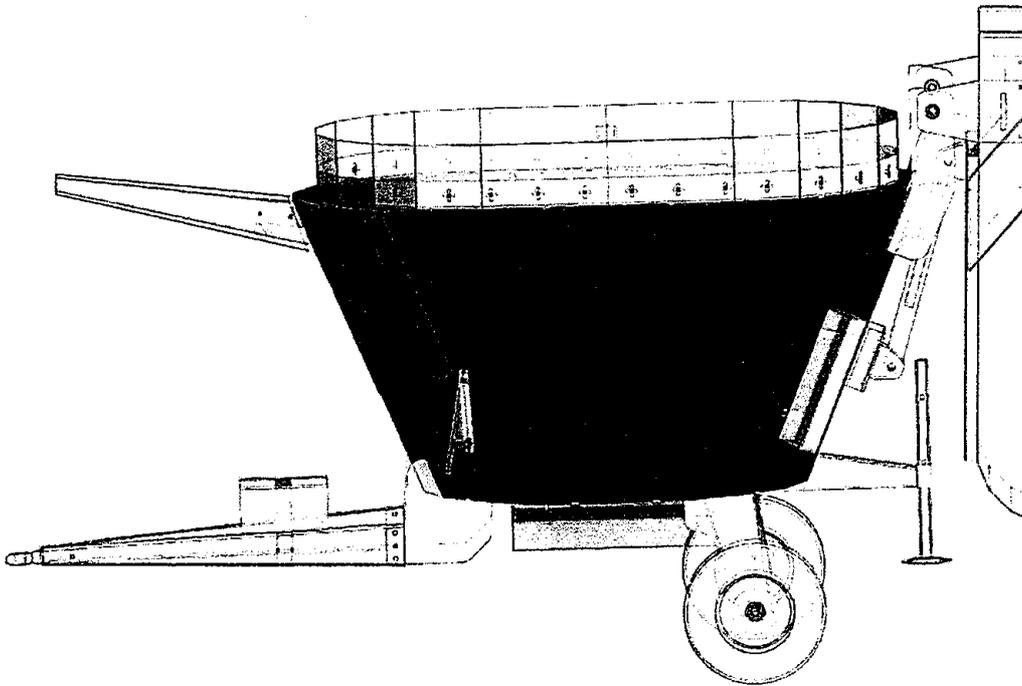
<b>TYPE/MODEL</b>	D-YEMIX 2 M3
<b>BRAND</b>	TINAZ
<b>Operation Capacity of the Machine</b>	10-15 / min.
<b>Total Length</b>	3000 mm
<b>Total Width</b>	2000 mm
<b>Total Height</b>	2000 mm
<b>Weight</b>	750 kg
<b>Loader Capacity</b>	50 kg
<b>Controller System</b>	Hydraulic
<b>Mixing Auger</b>	1 x Vertical Mixing Auger
<b>Mixing Capacity</b>	300 - 800 kg
<b>Number of Blades at Mixing Auger (Cutter)</b>	11 Pieces
<b>Number of Fixed Blades</b>	2 Pieces
<b>Hitch System</b>	Drawbar
<b>PTO Speed</b>	540 RPM
<b>Tractor Power</b>	30 HP
<b>Thickness of the Sheet at the Bottom</b>	10 mm
<b>Thickness of the Sheet at the Body</b>	4 mm

## PART 1

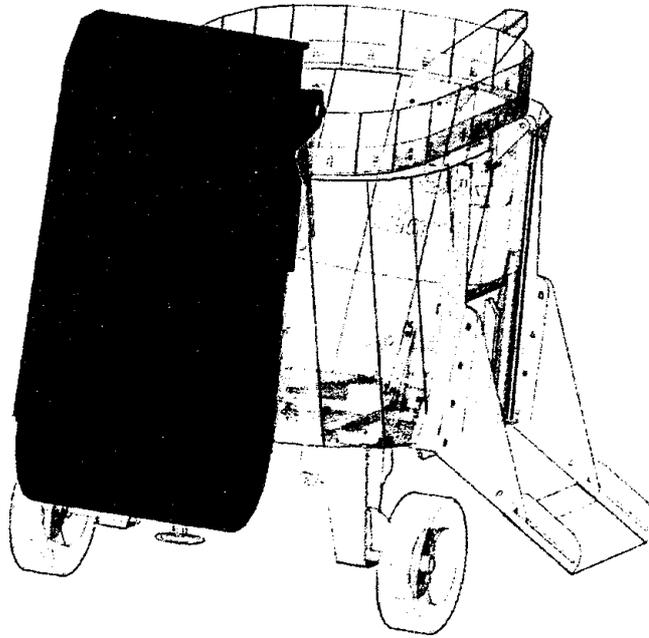
### MAJOR COMPONENTS OF THE MACHINE

---

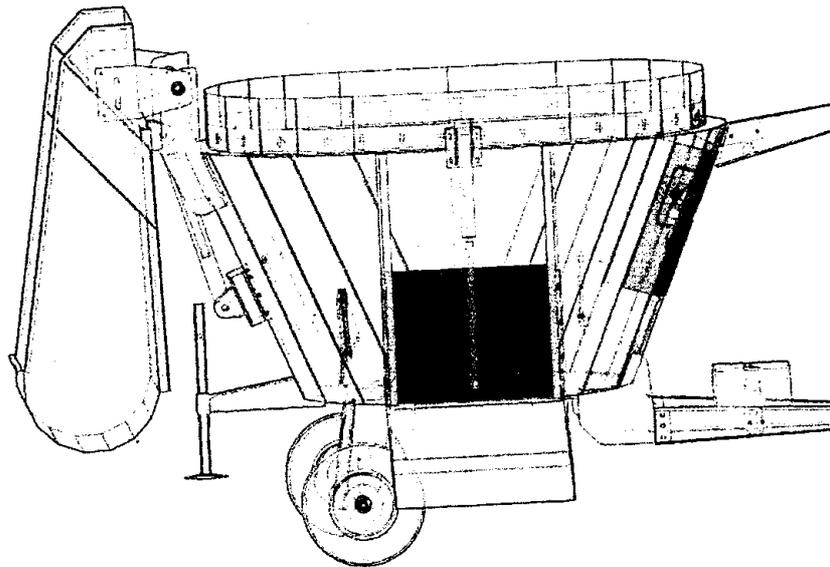
#### 1.1 BODY:



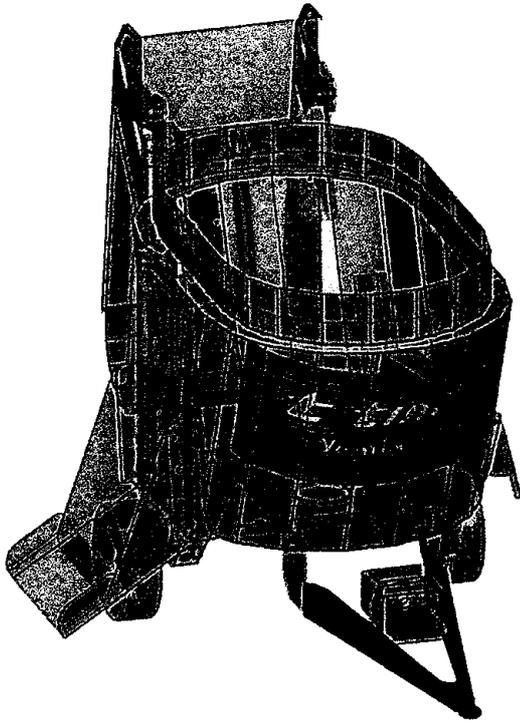
1.2 LOADER



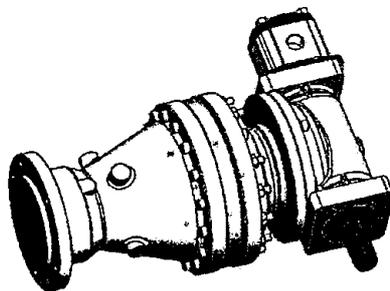
1.3 DOOR:



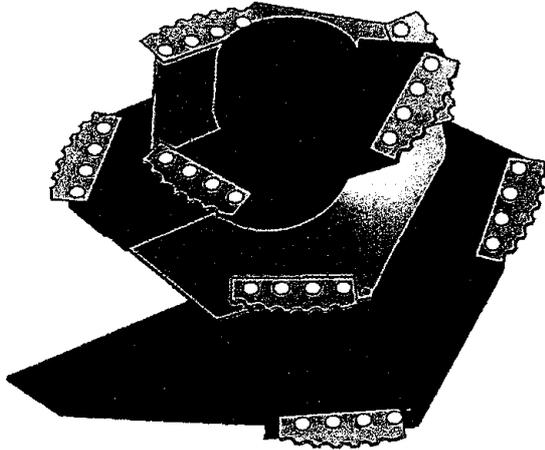
1.4 DRAWBAR:



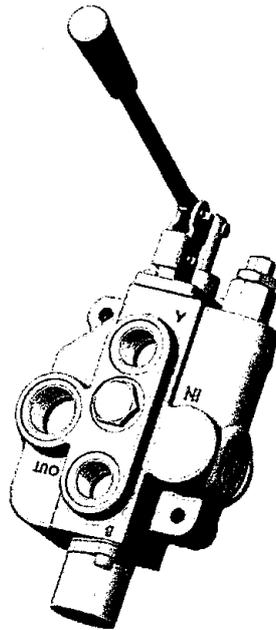
GEAR BOX:



1.6 MIXING AUGER



1.7 HYDRAULIC CONTROL



## PART 2

### SAFETY AND PRECAUTIONS FOR ACCIDENTS:

---

#### 2.1 OPERATING THE MACHINE:

- The machine must be operated by 1 (one) person.
- Observe the signals and warnings on the machine.
- Use the machine only to prepare and dispense animal feed.
- Protect the machine from excessive moisture and sunlight to ensure its longevity.
- The machine is not used for the transportation of load and human. It shall not be used except for the intended purpose.
- The hitching unit of the machine is not hoisted when the machine is loaded. The center of gravity of the machine is at the front part.
- If the weather conditions are unfavorable (snow, snowstorm, rain, storm, etc.), use the machine in an indoor area.
- Do not disassemble/assemble the parts of the machine, do not change the places of the parts.
- Do not leave the machine when it is operating. It must be stopped before leaving.
- Use a crane to load the machine. Fasten the machine with a wedge and rope during transportation.
- Do not remove the protective guards located at the edge of the conveyor belt
- The machine must be used on a flat area in the farm to be seen easily and operated in a safe manner.
- Keep fire away when the machine is running.

#### 2.2 GENERAL REQUIREMENTS

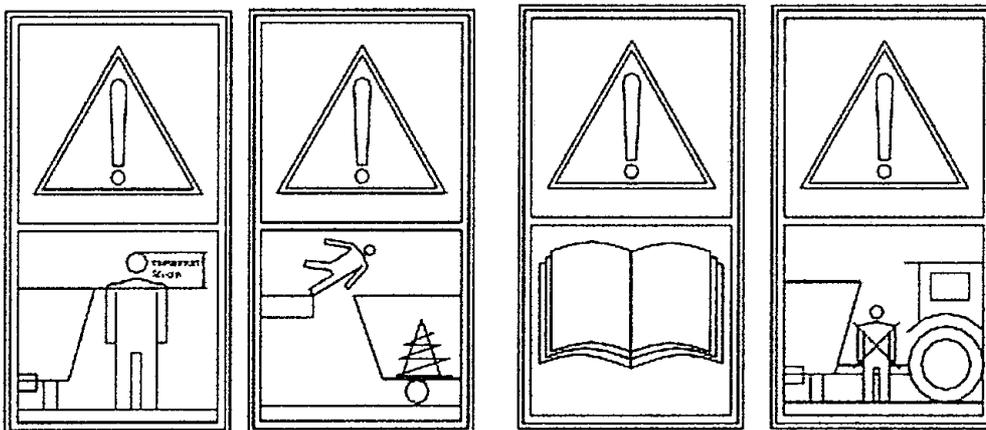
- The operator should clearly see the area of use.
- The power input connector is inserted and rotated in the counterclockwise direction.
- The hydraulic system operates at a maximum pressure of 180 bar.
- The animal lock systems must be kept locked while dispensing the prepared feed to the feeders.
- The machine must be detached from the tractor before intervening in the machine.

- Additional rearview mirrors must be installed on the tractor to be used with the machine.
- According to the regulations, the economic life of the machine is 10 years.
- Learn the functions of the controllers thoroughly.
- Do not load the machine from places such as silos or straw piles.
- Untrained and unauthorized 3rd persons are not allowed to operate and to carry out maintenance.
- Do not damage the warning signs on the protective panels and the machine, and do not remove them from their place.

### **2.3 RECOMMENDATIONS FOR THE OPERATOR:**

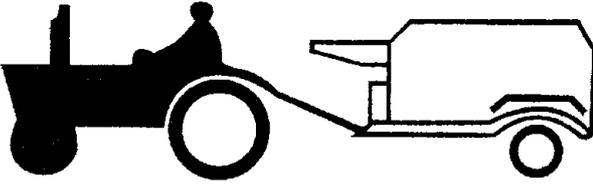
- Do not operate the machine without checking inside of the machine. The operator must check whether there is any living being on the site during the operation of the machine.
- Never move while the tractor is moving.
- Take health, safety, and environmental precautions when attaching/detaching the machine to/from the tractor.
- Any kind of intervention can be done after stopping the machine.
- Do not intervene on the moving parts and dangerous points while the machine is running. Keep away (at least 2 meters) from the machine when it is running.
- Systematic or friction lining shafts are used for cutting pins in our machines. Do not intervene the bolts on the machine, contact the authorized person when necessary.
- Keep away from the dispenser unit when the machine is running. Do not step on the machine except for the ladder.
- Do not stand between the tractor and the machine while it is operating.
- Place the wedges when you park. Do not intervene with the controls when it is parked. Let the machine stand on its own legs.
- Detach the machine from the tractor before servicing and making maintenance under the hoisted parts of the machine. Move the locking device to the active position.
- Load the machine by using flexible containers such as sack while the machine is running.
- Take all safety precautions thoroughly while loading feed materials.
- Do not wear loose clothes, necklaces, medallions, etc. while operating the machine. Make sure to use the personal protective equipment.

- When the machine is blocked, the shaft is detached from the trailer and it is rotated in the counter direction for one turn. Detach it also in case of changing blades etc.
- Do not enter into the mixer while the machine is attached to the tractor.
- Do not modify any part of the machine.
- Do not use non-original spare parts.
- Notify the authorized person before taking any action in case of any danger.
- Keep away from the mixing auger in the machine.
- Never work on the machine.
- Do not wash the machine while it is running.



1. Your body must not be more than 35 centimeters over the body (do not raise over your shoulder level).
2. Do not stay in the same level with the top of the wagon. (danger of falling into the wagon)
3. Read the operator's manual before using the machine.
4. Do not stand between the machine and the tractor while the machine is running.

WARNINGS AND SIGNS

	<p><b>HYDRAULIC SYSTEM</b> 0° C to +80° C between can work continuously. Working temperature +50° C to +60° C</p>
	 <p><b>46</b> HYDRAULIC SYSTEM OIL</p>
	 <p><b>CHECK OIL LEVEL</b></p>
	 <p><a href="http://www.tinaztarim.com">www.tinaztarim.com</a></p>

## PART 3

### SETTING UP THE MACHINE

---

#### 3.1 Check List

- Check the drawbar of the tractor by bringing it into the appropriate position before attaching the machine to the tractor.
- Check that all protections are in order and that the operator understands the descriptive signs.
- Check the protections and the security device on the cardiod joint whether it operates properly to prevent accidents. Replace it if there is any damage or cracks.
- Be sure to check the electrical installation before using the machine.
- The controller mechanisms must be checked before using the machine.

#### 3.2 Requirements for Setting-up

- Read entire operator's manual carefully before attaching the machine to the tractor.
- The trailer requires PTO power of 540 RPM.
- The protection on the articulated shaft must not be removed.
- You must operate your machine by using a grounded plug.
- You must stop the machine when you set up the machine.
- Make sure that the load distribution on the machine is proper.
- When attaching the machine to the tractor, use front weights to ensure the balance.

#### 3.3 Attaching to the Tractor

Check the length of the shaft by attaching the machine to the tractor after finishing the installation of the drawbar. Since the hitching lengths of various tractors differ from each other, the length of the slip profiles must be checked and cut if longer. when connecting the articulated shaft between the tractor and the machine in the horizontal position (when the machine is running) in which the shaft has the shortest length.

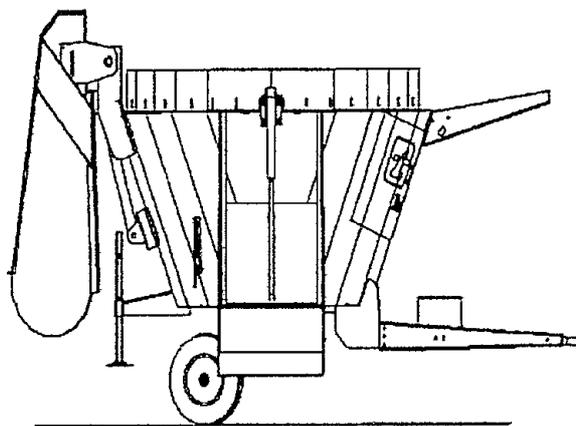
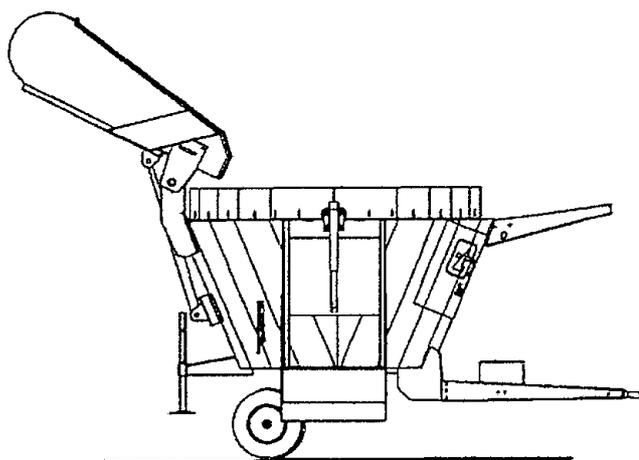
Final control must be made before finishing the attachment of the shaft and operating the machine. The machine should be operated for about 5 or 10 minutes without loading material after completing the final checks.

Once you realize that there is no problem, you can start operating the machine by filling the feed/feeds you give to your animals into the machine.

Loader, weighbridge, long or short conveyor connection can also be produced optionally to facilitate the use in line with our customers' demands. After preparing the feed in the feed mixer, the machine is brought to the dispensing location. First, the conveyor is adjusted via the controller and then the conveyor band is started. Then the door is opened and the process of dispensing feed to the animals is carried out with the same speed. After finishing dispensing, the PTO shaft is stopped.

Feed mixer must be operated by an experienced and trained person over the age of 18 who is on the driver's seat of the tractor. The operator must not operate the machine when he/she is sick, exhausted, etc.

Friction lining shafts are used in the machine.



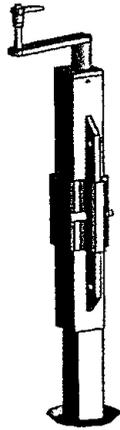
## PART 4

### SETTINGS

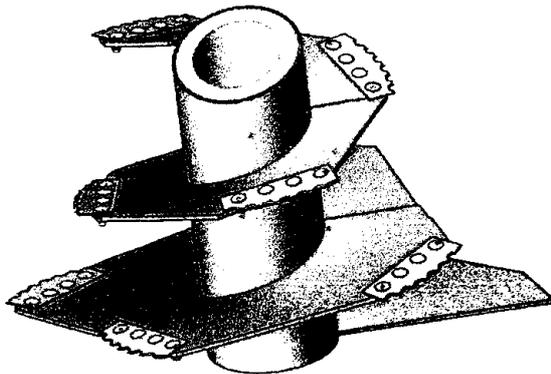
---

#### 4.1 JACK:

You can ensure contact to the ground by rotating the lever of the jack according to the ground



#### 4.2 MIXING AUGER



## PART 5

### MAINTENANCE AND SELECTION OF CONSUMABLES

---

Detach the cardan joint from the machine and park the machine on a flat surface before performing maintenance and repair.

Always wear the following personal protective equipment when performing maintenance and repair:

- Protective gloves *use guantes*
- Protective glasses *protector visual*
- Steel-toe boots *zapatos punta de acero*

#### 5.1 COMPONENTS REQUIRING MAINTENANCE

- Hydraulic Hoses *mangueras*
- Brake Systems *sistema freno*
- Tires *llantas*
- Connection pins and bolts *pinos y pernos*

#### 5.2 GENERAL MAINTENANCE:

- Lubricate the inner parts of the articulated heads in a thin layer
- Protect your machine from excessive moisture and the heat.
- Be careful against impacts from outside.

#### 5.3 DAILY MAINTENANCE:

- Check the bolts and nuts and fasten if necessary after the first 10 hours of use. ✓
- Check the hydraulic oil level. Fill in oil when necessary. ✓
- Check oil level of the gearbox. ✓
- Brake system ✓
- Lighting system ✓
- Tire pressures ✓
- Hydraulic hose and its connections ✓
- Check the connection pins and bolts, pump oil to the grease nipples. ✓
- The machine should be cleaned and parked in a suitable environment at the end of each run.

- If the hinged shafts are heated or release smoke during operation, it means that lubrication is inadequate. In this case, you must not use water for cooling. Let the machine cool down itself and then lubricate it after cooling.

#### 5.4 WEEKLY MAINTENANCE

- Lubricate the locking pins once (1) a week.

#### 5.5 MONTHLY MAINTENANCE

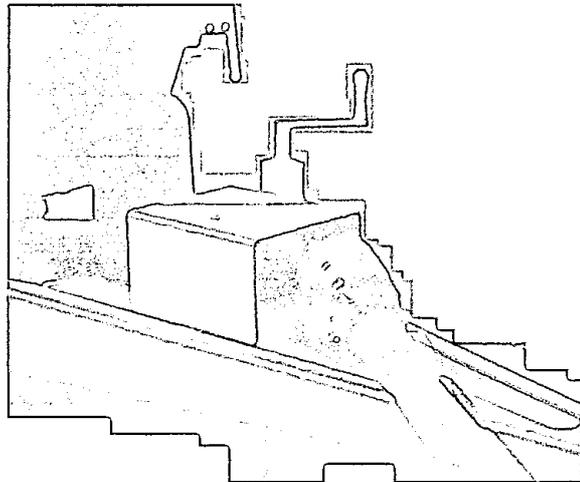
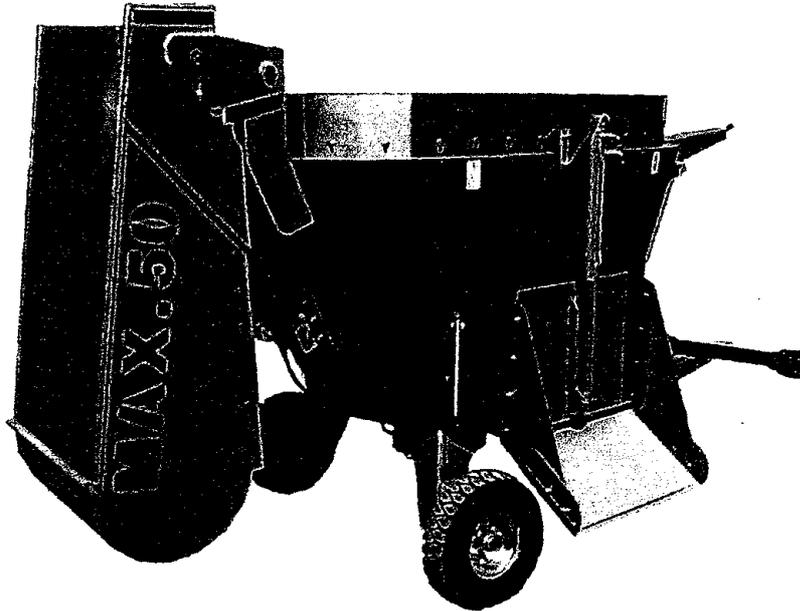
- Check the points indicated by the warning labels on the machine and lubricate them regularly.

#### 5.6 CONTROLS AND PERIODICAL REPLACEMENT PARTS

- Renew the oil in the gearbox and the hydraulic circuit, after the first 200 hours of operation and after every subsequent 800 hours of operation. *Cambio caja engranajes y hidráulico*
- Wash the filter cartridge in the hydraulic oil tank with diesel and then dry it with pressure air after the first 50 hours of operation. Repeat this procedure after every 400 hours of operation.
- Make sure that the bolts and nuts are tight and the blades in the mixing auger operate efficiently. Rotate the blades of the mixing auger when they get blunt. Thus, the sharp parts are used. The blades can be changed for three times.
- We recommend that you should replace the entire hydraulic hose after about 3 4-years of operation. *3 o 4 años cambio de mangueras*
- Changing the blades of the mixing auger : This process requires particular attention. This process is recommended to be carried out by 2 persons. One person must be inside, and the other person must be outside to give the blades and bolts required by the first person. You will need a clamp to hold the blade firmly and a suitable wrench to loose bolt while removing and replacing the blade.

LUBRICATION SCHEME

57- por 3



Every 25 hours of operation; *Engrase cada 25 H de operación*

- Grease each greasing nipple and the parts with a warning sign.
- Grease the rail line of the discharge door.

After every 100 hours of operation:

- Renew the oil in the gearbox *cambio aceite de caja de piones*
- The oil around the lubrication points must be cleaned after lubrication.