

# SWISSMEX®

## MANUAL DE OPERADOR

COSECHADORA DE FORRAJE  
COBRA RF 152 CHOPPER



MODELO

**633200**

## **1-SAFETY**

**Developed regarding human safety and the safety instructions must be followed throughout the bench life of the product from the period of its design up to the final storage.**

### **1-1 Safety Instructions**

Before you use or operate the tractor/forage harvester, each time make sure that it fits the below-mentioned regulations:

- Precautions against accidents.
- Operating safety (Operating Regulations)
- Driving on public roads (Road Traffic Law)

It is necessary to follow the basic precautionary instructions below for your and for others' safety. .

- The machine should be coupled to a tractor with proper size and power; no other engine should be mounted. The coupling of the machine should be carried out according to the instructions available in this user's manual.
- Don't go near the machine with loose-fitting clothes that can be caught in the moving parts of the machine.
- Anyone who would operate or prepare the forage harvester should be trained properly about the task.
- Make sure you are visible enough before operating the machine and starting to work. Clear the work area of objects that may be thrown by the harvesting system.
- Rotating parts of this machine have been designed and tested for tough conditions. Nevertheless, their capacity of resistance can be affected in case of contact with hard objects (stones, metallic objects, etc.), and they may leap up with excessive speed. Be careful in order not to experience such obstacles.
- A machine designed to work with a power of 540 rpm should never be run with 1000 rpm.
- Check the tractor's condition (braking system, wheel, tire inflation) and the proper connection of the machine.
- Check whether the warning lamps (headlamps, reflectors, beacon lamp) operate properly before driving on public roads.
- The machine should never be used for human and object transportation.
- Do not try to get on the tractor when operating.
- Avoid being in the rotation area of the tractor.
- Be careful while coupling and/or dismounting. Stop the engine before starting or stopping the transmission.
- Check whether all safety equipments and crankcases are available and in good condition.
- Adjust the moving speed always according to traffic rules! Avoid sudden changes in speed and direction while driving up or down slopes or driving reverse.
- Always make all necessary repairs, replacements and adjustments before the machine is operated.
- Stop the engine and the transmission and pull the parking brake before making any repairs.

- Check the whole machine, specifically the running of the nuts, periodically.
- Before operating the machine after any repair or maintenance, make sure that no tool or object is left on the machine.
- A first aid kit should be available in the tractor cabin. Follow local regulations considering other safety equipments.
- Do not modify the machine without written approval of the manufacturer.
- Check whether the hydraulic pipes, running of the nuts and hydraulic coupling is in good condition. Oil may leap up with great pressure from a pierced pipe and cause serious injury. In case of such accidents see a doctor urgently.

## **2-DEFINITION**

**The forage harvester is designed to be coupled to a 3-rear part and can only be pulled by a tractor. Its function is to pour the grass (grass, rye-grass, trefoil, lucerne) directly from the chute to strimmer trailer which is connected to the machine.**

**Any operation carried out regardless of the definition above will be in the user's responsibility.**

The manufacturer will not be responsible in cases listed below:

- Not operating in accordance with the definition given above.
- Modifying the machine without written approval of the manufacturer.
- Not following the instructions about maintenance and repair.

### 3-1 Technical Data

	<b>RF 152</b>
<b>Weight</b>	<b>645 kg</b>
<b>Power take-off</b>	<b>540 rpm</b>
<b>Expected power Ch/din</b>	<b>50 ch/Din</b>
<b>Blade number</b>	<b>24</b>
<b>Carrying width</b>	<b>1,8 m</b>
<b>Cutting width</b>	<b>1,5 m</b>
<b>Tires</b>	<b>500X12 6PR</b>

Dedicated to research and development FIMAKS has the right to change and modify the machines drying grass without any prior notification and does not have the obligation to replace the previously sold machine with the modified one.

### 4-COUPLING TO THE TRACTOR

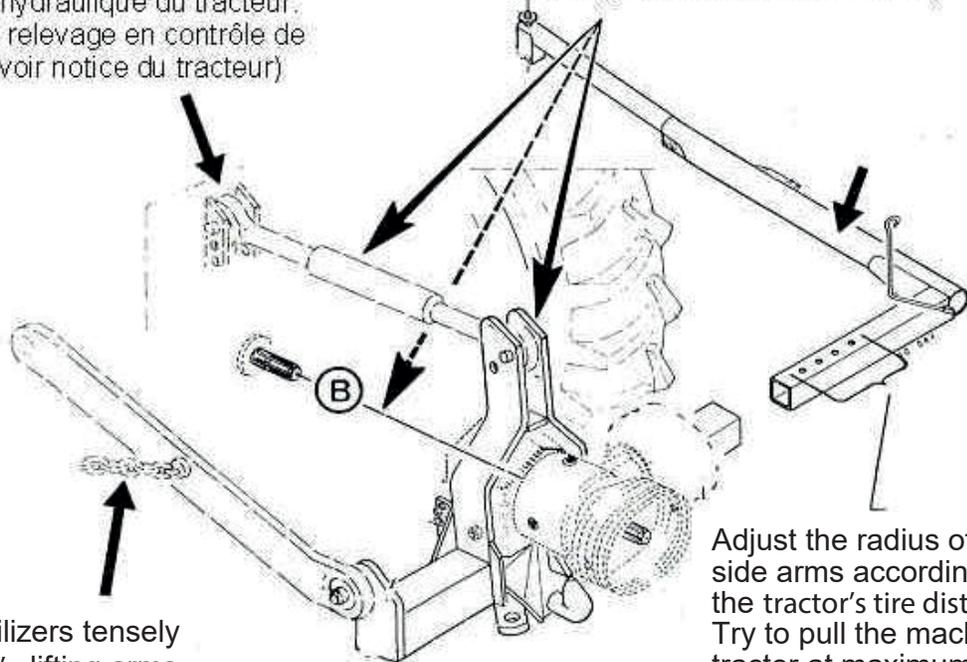
Do not apply force over the hydraulic lifting system of the tractor.



Ne pas utiliser le contrôle d'effort sur le relevage hydraulique du tracteur. Utiliser le relevage en contrôle de position (voir notice du tracteur)

Adjust the length of the third point with the side arm parallel to the ground. .  
Then mount transmission B.(For mounting transmission see section 6)

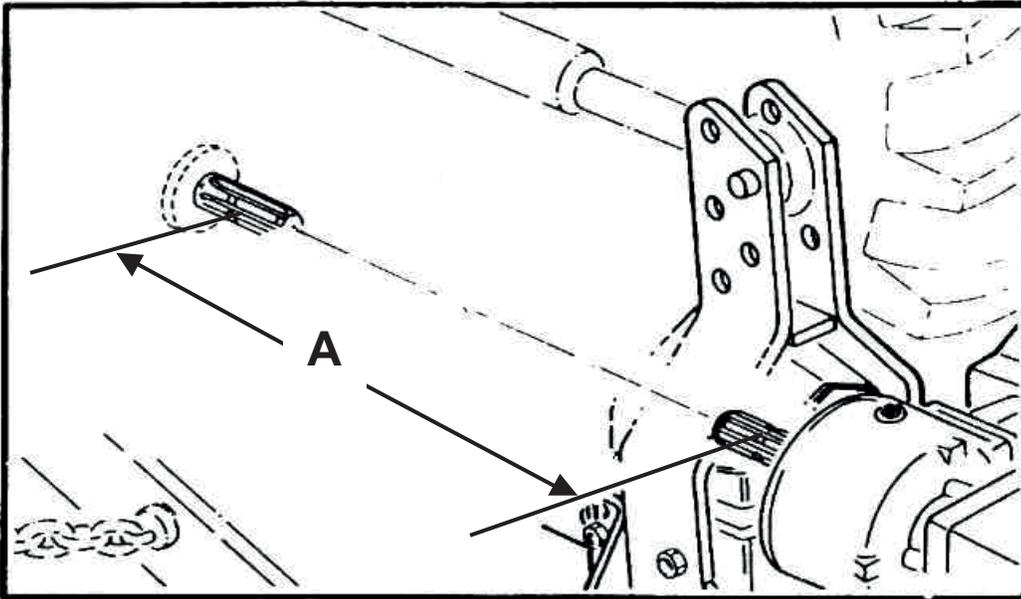
Régler la longueur du troisième point de façon à ce que le bras latéral soit parallèle au sol.  
Monter ensuite la transmission B (voir montage de la transmission ch 6)



Adjust the stabilizers tensely over the tractor's lifting arms.

Adjust the radius of the side arms according to the tractor's tire distance .  
Try to pull the machine to tractor at maximum level to make it easy to fill String trimmer trailer and to reduce the driving power.

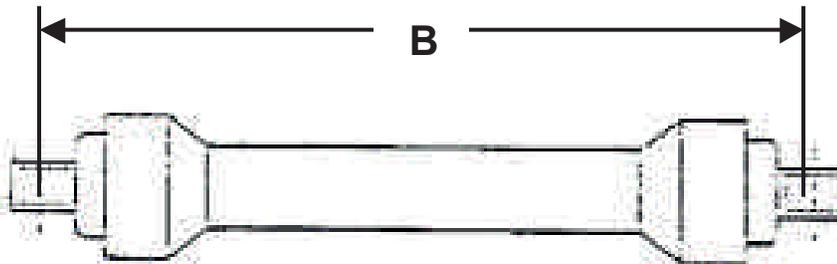
## **5-ADJUSTING TRANSMISSION (B)**



**Perform the instructions below in direct order:**

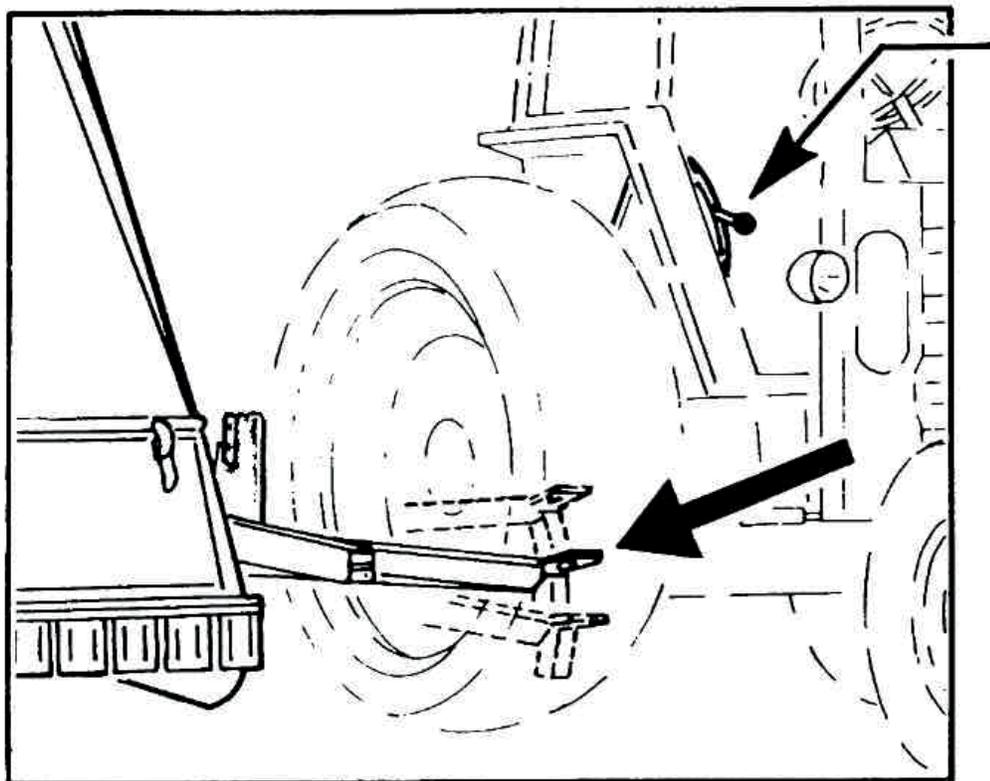
- 1) Adjust the length of the third point as described in section 4.
- 2) Align the double overhead camshaft vis-à-vis (A), the case input shaft has to be parallel with the tractor's operating shaft.  
This corresponds to the shortest position of the transmission.
- 3) Measure the A distance between the 2 safety locks of the overhead shafts.
- 4) Then test the transmission (B) in completely turned off position and always between 2 safety locks of camshafts.

### **5-1) B Should not be higher than A**

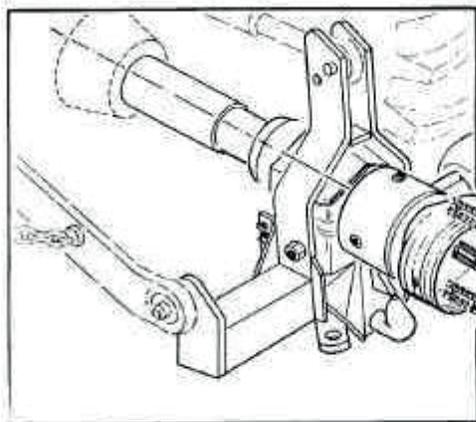


- 5) In case the transmission needs to be shortened, the cut off parts of the male and female pipes and casings have to be in equal length. Place the free wheel on the case side.
- 6) Make sure the telescopic transmission tubes do not touch the holder at the declining and rising position of the lifting operation.

## 6-ADJUSTING THE CUTTING HEIGHT



T To adjust the cutting height use the lifting position adjusting lever.



### Caution!!

Lifting movement should not pass the 15 cm position from upwards and the straight position of primary transmission from downwards.

+ 15 cm

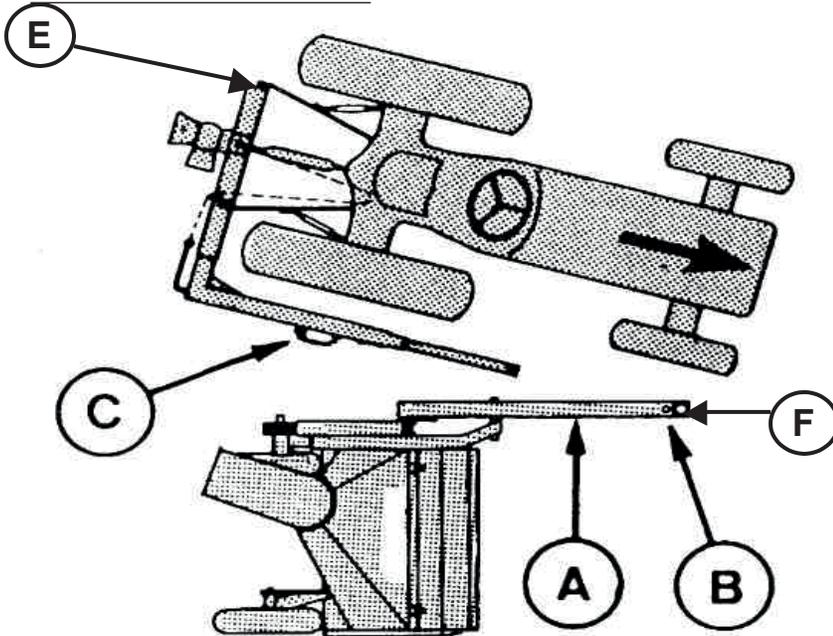
- 15 cm

## **7- ADJUSTING THE SECONDARY TRANSMISSION**

Having set the height of the automatic coupling arm, adjust the length of the secondary transmission by applying the same procedure in section 5.

## **8 – TRACTOR / MACHINE COUPLING**

### **8-1 RUNNING POSITION**



- 1) Move the tractor forward with the lifting part upside down by wearing the connection arm to the bottom of the case that is inside the female part of the cone-shaped machine until the hooked nail is fixed. (A and B)
- 2) Lift the lifting part slightly and continue lifting until the clamp is locked (C).
- 3) Mount the secondary transmission in between the case and the machine.



**Caution: do not exceed the below mentioned loading limits of transport and drawing:**

**PTR: 8 Tones maximum**

**Maximum loading on the hook: 2 Tones maximum**

### **8-2 TRANSPORT POSITION**

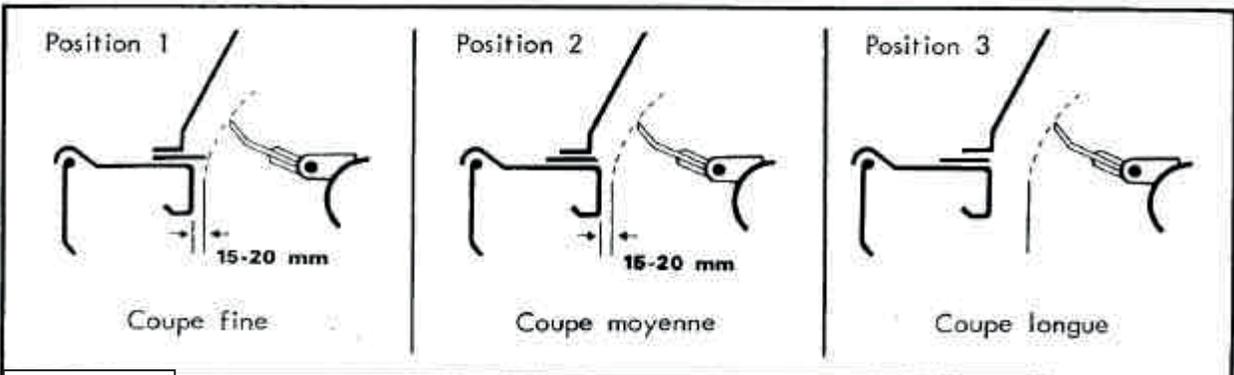
To carry loads on road, wear the (F) end of the arm to the hooked connection nail (E) that is on the right side of the connection.

## 9-ADJUSTING THE CUTTING LENGTH

To get the desired cutting length place the pin on one of the sector holes.



The figure on the left demonstrates how to adjust the opposite blade in order to adjust the cutting length as showed in the diagram below (figure 1). To get the opposite blades closer loosen the bolts. Try to get the opposite blade closer at an equal level throughout the whole length.

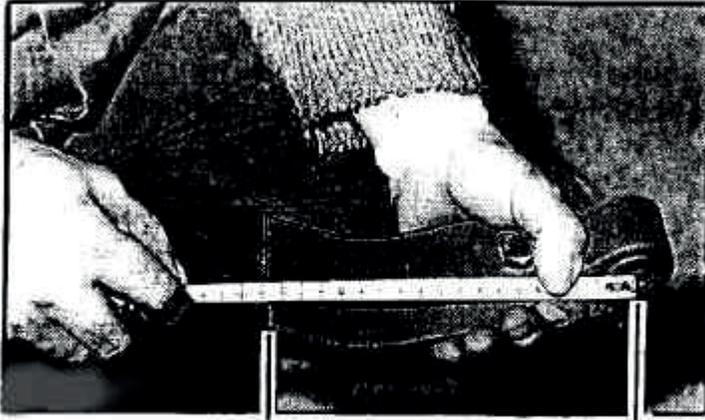


**Figure 1**

Position 1  
15-20 mm  
Thin cut

Position 2  
15-20 mm  
Medium cut

Position 3  
Long cut



Şekil 2



Check the level of corrosion on spoon-shaped blades. The worn-out spoon-shaped blades reduce the blower effect.

Lacking spoon-shaped blades causes vibration.

New size: 172 mm

Minimum size: 160 mm

See figure 2

## **10 – ADJUSTING THE GROOVE AND CONTROLLING THE DEFLECTOR**



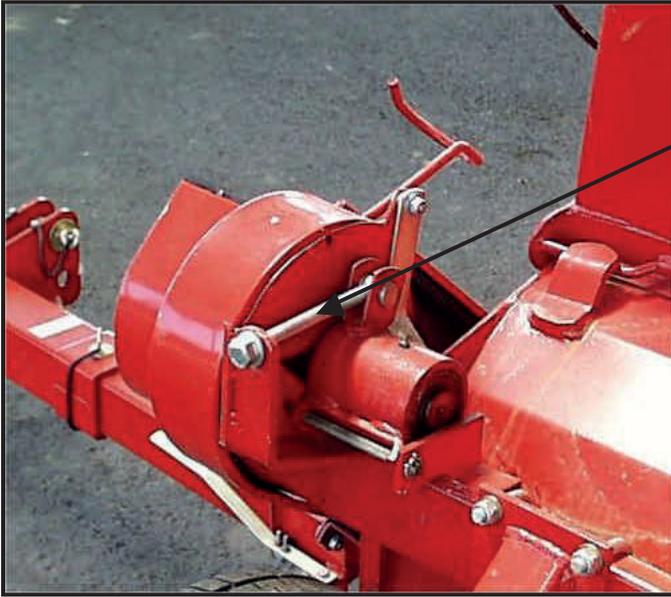
Connect the 2 push pull plug to the distributor. .

The steering of the chute is made with a double effect hydraulic controller.

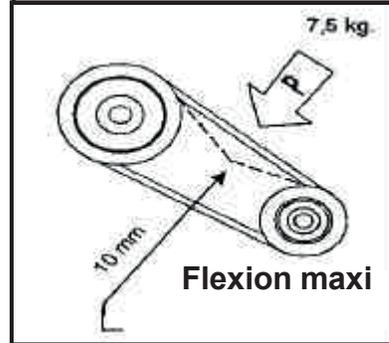


Adjust with a teleflexible projected fixing. During storage place the controller into the projected bearing.

## 11-BELT TENSION



The trapezoidal belts should be stretched regularly and be kept clean. The 4 belts should be replaced at the same time. Adjust the tension with the outer adjustment apparatus mentioned above.

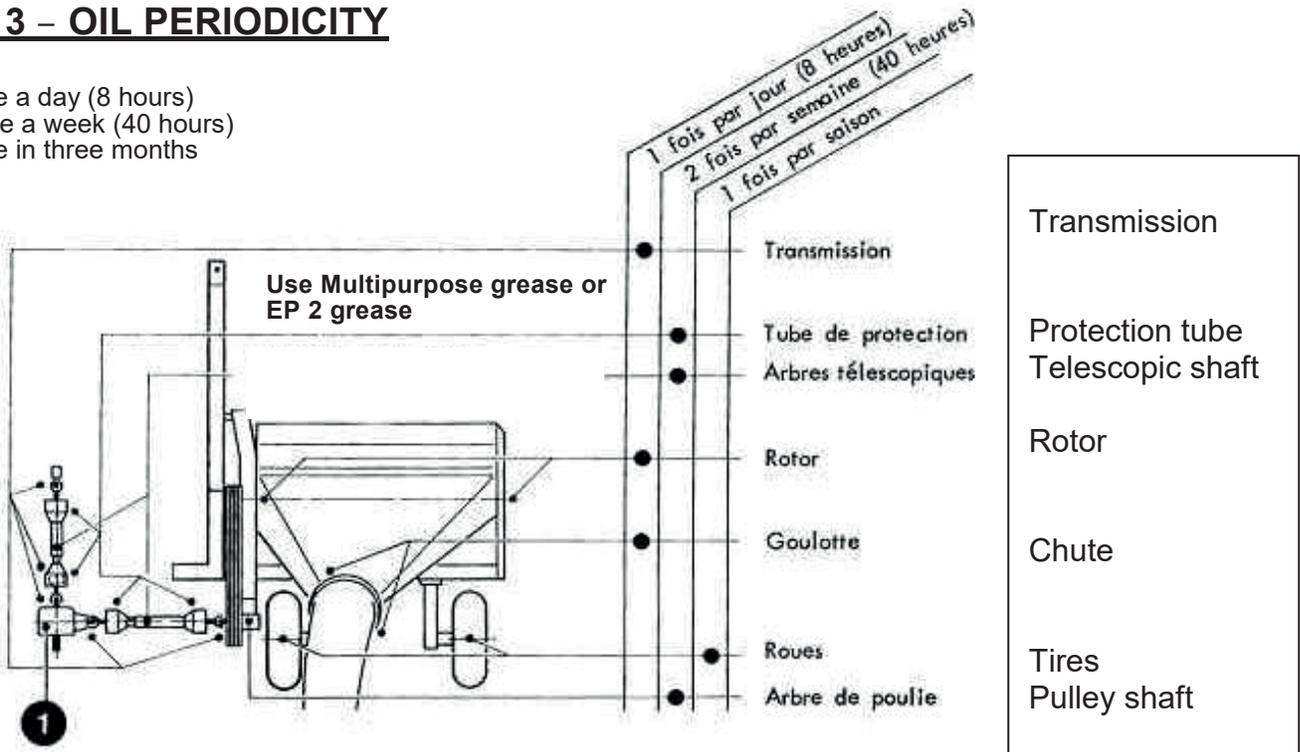


## 12- TIRE PRESSURE

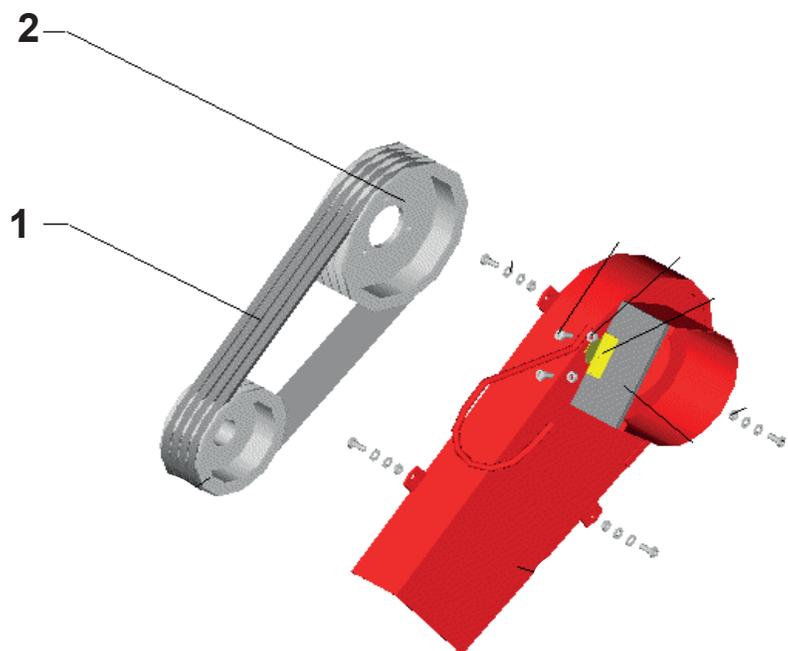
Maximum pressure: 2 bars

## 13 – OIL PERIODICITY

Once a day (8 hours)  
 Twice a week (40 hours)  
 Once in three months

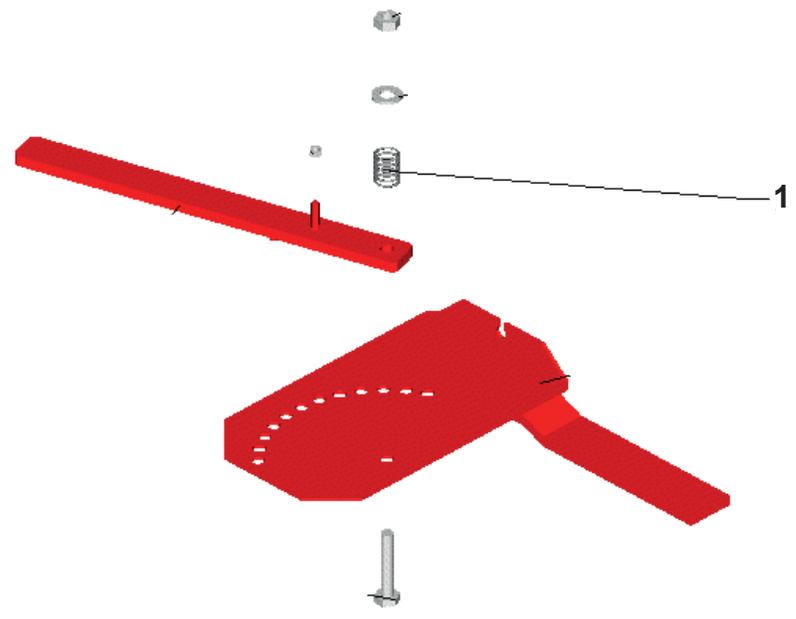


**For case 1 use SAE 80 W 90 oil; check oil level from the indicator on the case.**



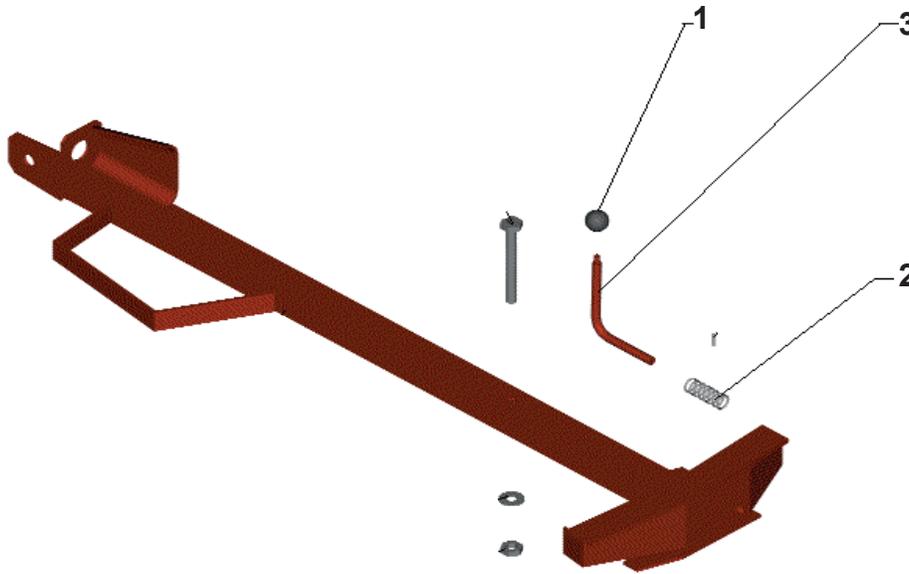
**B** Piezas de uso medio, disponibles a discreción.

No.	Código	Descripción	Piezas por equipo	Piezas por empaque
1	R4025623010	BANDA	4	1
2	R4051633003	POLEA	1	1



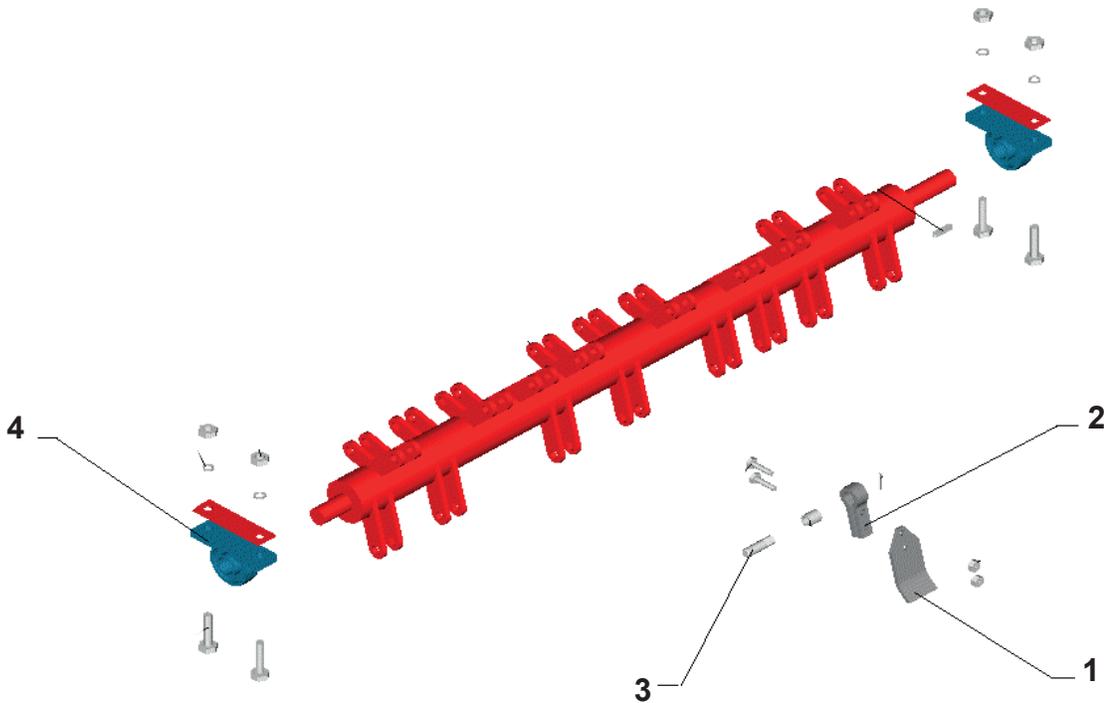
**B** Piezas de uso medio, disponibles a discreción.

No.	Código	Descripción	Piezas por equipo	Piezas por empaque
1	R4025623005	RESORTE	1	1



**B** Piezas de uso medio, disponibles a discreción.

No.	Código	Descripción	Piezas por equipo	Piezas por empaque
1	R4025623047	BALÍN	1	1
2	R4025623045	RESORTE	2	1
3	R4025623046	BRAZO	1	1



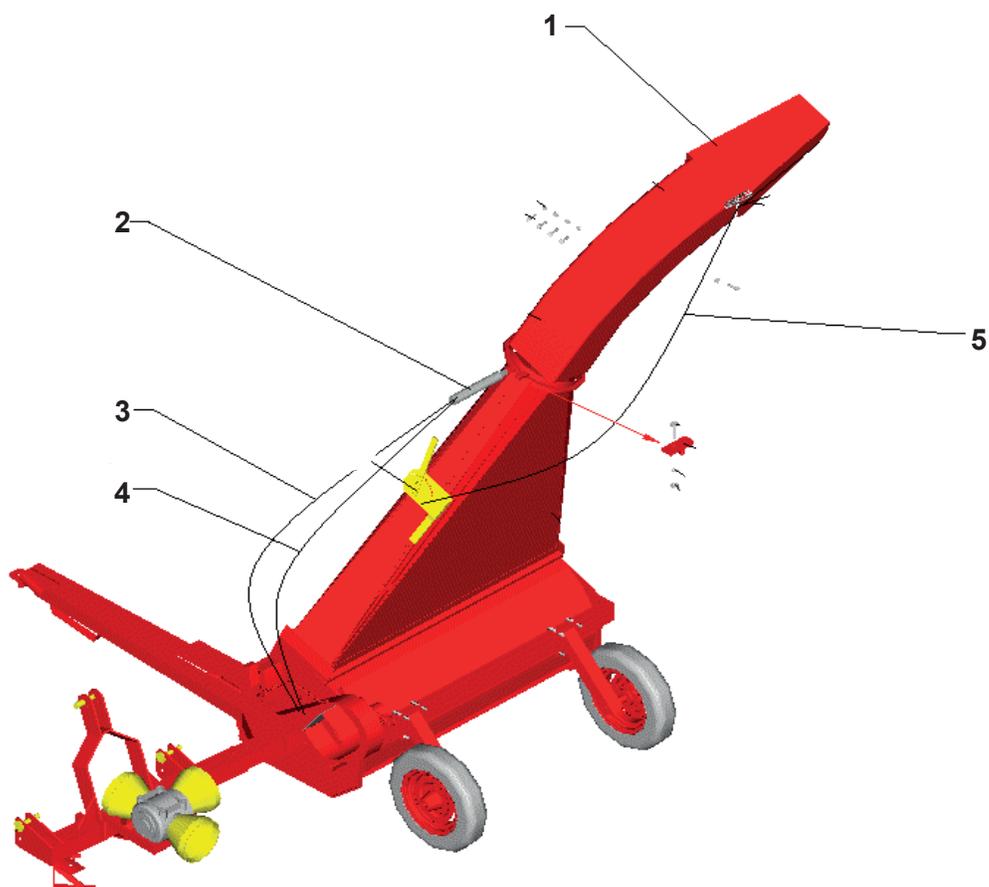
**A**

Piezas de desgaste y consumibles siempre disponibles.

No.	Código	Descripción	Piezas por equipo	Piezas por empaque
1	R4025623002	NAVAJA	24	1

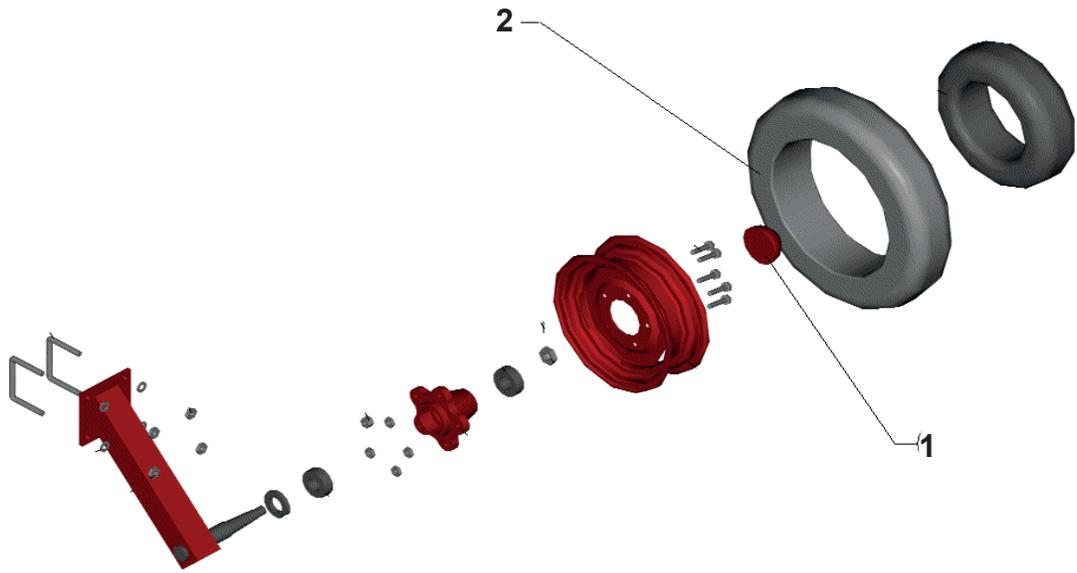
**B** Piezas de uso medio, disponibles a discreción.

No.	Código	Descripción	Piezas por equipo	Piezas por empaque
2	R4025623003	PORTA CUCHILLA	24	1
3	R4025623004	PERNO	24	1
4	R4025623119	BALERO	2	1



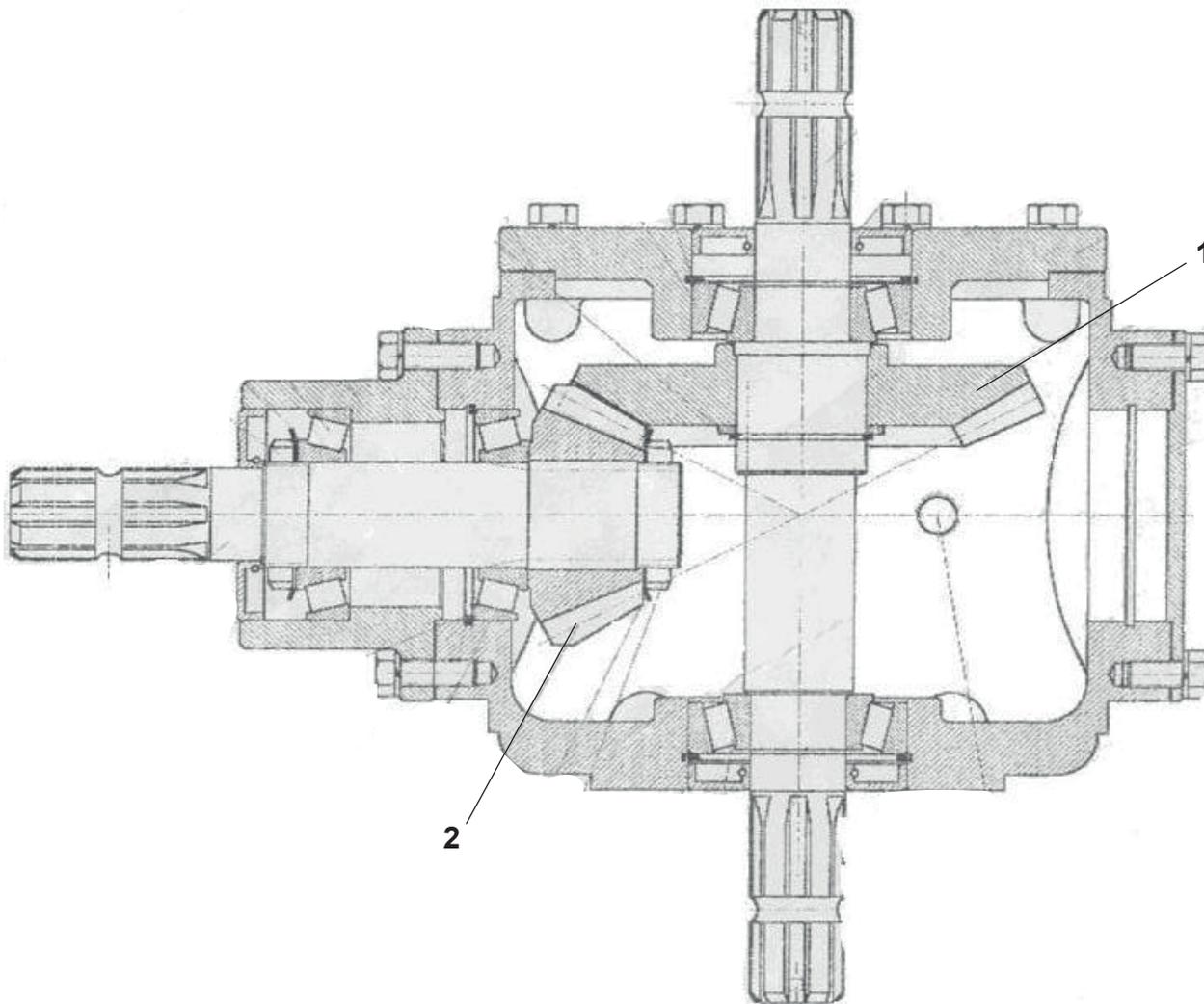
**B** Piezas de uso medio, disponibles a discreción.

No.	Código	Descripción	Piezas por equipo	Piezas por empaque
1	R4025623044	CINTA	1	1
2	R4025623013	PISTÓN	1	1
3	R4025623012	MANGUERA	1	1
4	R4025623011	MANGUERA	1	1
5	R4025623006	CABLE	1	1



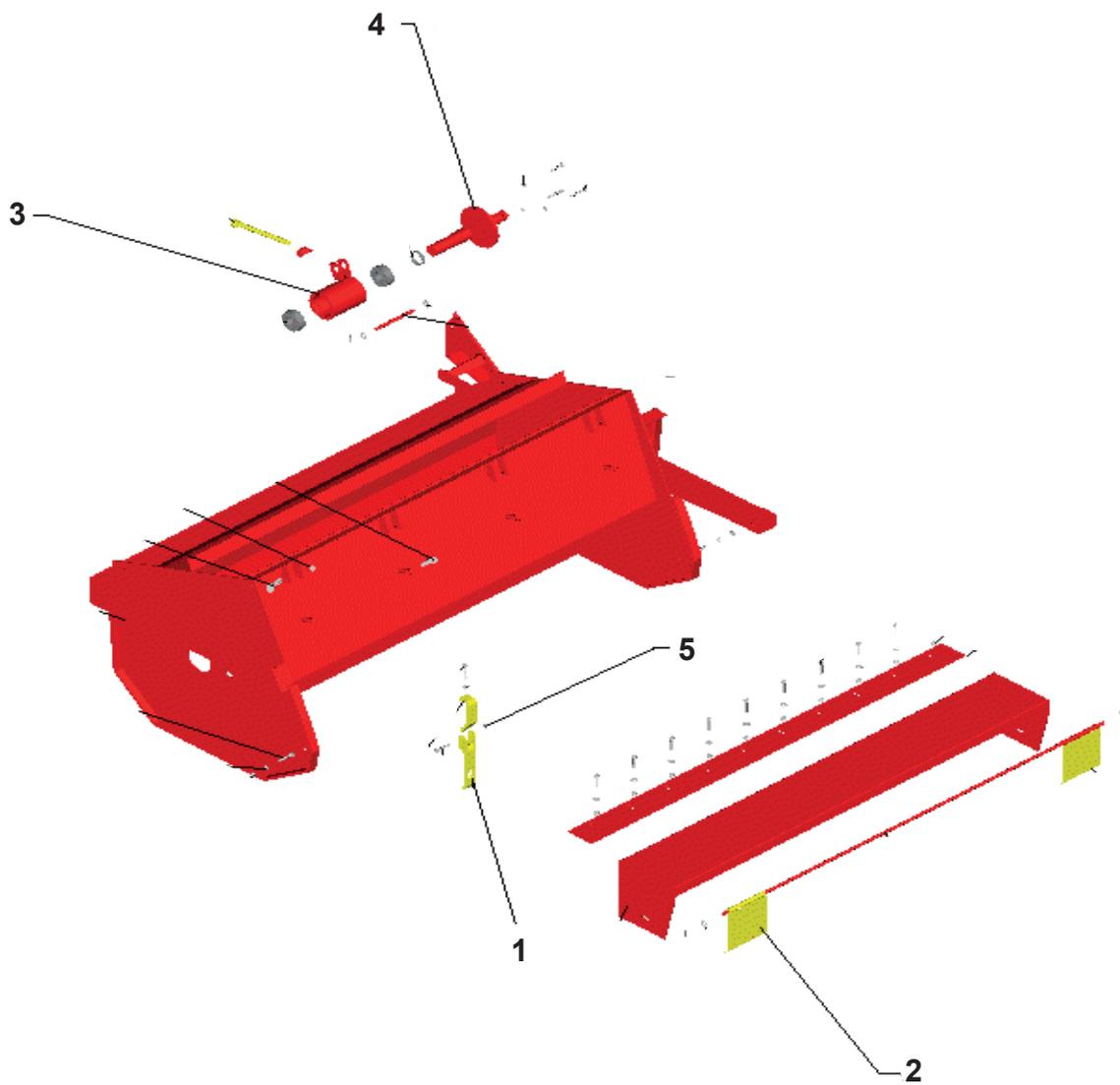
**B** Piezas de uso medio, disponibles a discreción.

No.	Código	Descripción	Piezas por equipo	Piezas por empaque
1	R4025623050	PROTECCIÓN	2	1
2	R4025623009	NEUMÁTICO	2	1



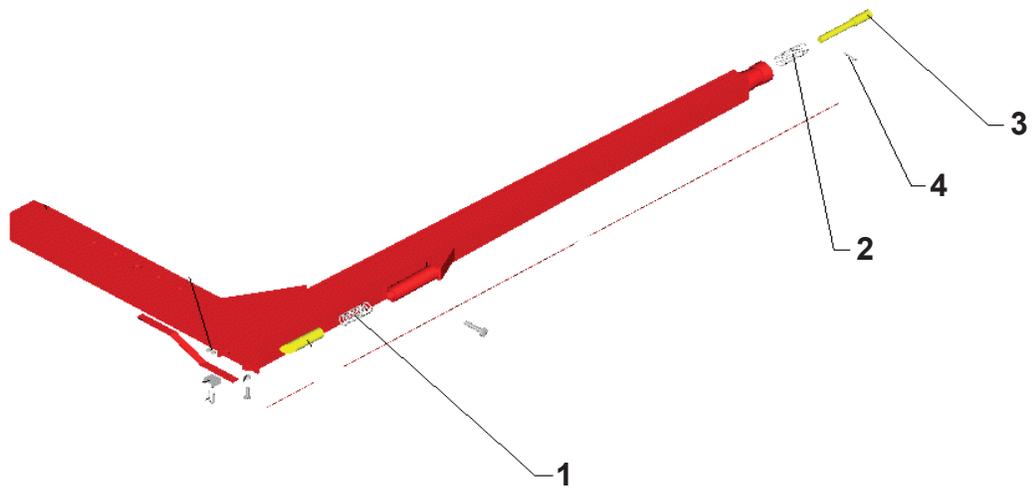
**B** Piezas de uso medio, disponibles a discreción.

No.	Código	Descripción	Piezas por equipo	Piezas por empaque
1	R4025623054	ENGRANE	1	1
2	R4025623055	ENGRANE	1	1



**B** Piezas de uso medio, disponibles a discreción.

No.	Código	Descripción	Piezas por equipo	Piezas por empaque
1	R4025623001	PLACA	4	1
2	R4025623053	PROTECCIÓN	1	1
3	R4025623051	POLEA	1	1
4	R4025623052	BARRA	1	1
5	R4025623057	TUERCA	4	1



**B** Piezas de uso medio, disponibles a discreción.

No.	Código	Descripción	Piezas por equipo	Piezas por empaque
1	R4025623043	BASE	1	1
2	R4025623084	RESORTE	1	1
3	R4025623048	PERNO	1	1
4	R4025623056	PERNO	1	1

## SWISSMEX®

Para hacer válida su garantía deberá apegarse a la Póliza de Garantía descrita a continuación:

La garantía será concedida por SWISSMEX RAPID SA DE CV, gratuitamente, cuando las piezas y los componentes presenten defectos de fabricación o de montaje y después de análisis conclusivo en planta (Lagos de Moreno, Jalisco). La garantía consiste en la sustitución de piezas dañadas por nuevas, o cambio del equipo dañado por uno nuevo, una vez que se haya verificado y evaluado el tipo de daño en el equipo, no incluye mano de obra o transporte.

La garantía de su equipo puede ser PREMIUM, MEDIUM o BASIC, dependiendo de la categoría de su equipo, en la portada de su manual viene descrito de que categoría es, también puede consultarlo en la página web y en los catálogos de producto.

### PLAZO DE LA GARANTÍA

Línea Premium = 12 meses

Línea Medium = 6 meses

Línea Basic = 3 meses

La garantía no procede cuando:

- Causas no atribuibles a defectos de fabricación o vicios de material.
- Mal uso del equipo o distinto del establecido en las normas y recomendaciones del manual de usuario y/o para lo que fue diseñado.
- Daños ocasionados por desastres naturales (terremotos, inundaciones, incendios, tormentas eléctricas).
- Cuando el producto haya recibido golpes accidentales o intencionales o haya sido expuesto a elementos nocivos como agua, ácidos, fuego, intemperie o cualquier otro similar.
- Por daños sufridos durante el transporte, la mercancía viaja bajo riesgo del cliente.
- Si se ha eliminado o borrado el número de serie.
- Si usa refacciones NO originales Swissmex o del fabricante en el caso de los productos comercializados.
- Mantenimiento incorrecto y/o personal no apto, realizado por personas no autorizadas por Swissmex.
- Si sufrió modificaciones o alteraciones en el diseño original del producto.
- Por abuso, negligencia, accidente o por utilizar un tractor de potencia diferente a la indicada en la ficha técnica.
- Llenado incompleto de la garantía.

Swissmex no se hace responsable por accidentes, incidencias fatales ocasionadas por el equipo o robo.

La garantía no cubre:

- Consumibles y piezas de desgaste natural.
- Partes eléctricas.
- Refacciones en general.
- Los gastos de envíos, traslados o servicio de entrega y empaque.

Las garantías deberán ser tramitadas por el cliente que vendió el implemento o el usuario final a través del correo: [info@swissmex.com.mx](mailto:info@swissmex.com.mx)

En los productos importados y comercializados por Swissmex Rapid SA DE CV el plazo de garantía será el establecido por el fabricante del equipo. Revise en su manual que plazo equivale a su equipo.

### OBLIGATORIO LLENAR POR EL CLIENTE AL MOMENTO DE LA VENTA

- Nombre cliente/usuario: \_\_\_\_\_
- Modelo: \_\_\_\_\_
- N° de serie: \_\_\_\_\_
- Fecha de adquisición del equipo: \_\_\_\_\_
- Lugar donde lo adquirió: \_\_\_\_\_

Firma y sello del  
Cliente

SI EL CLIENTE NO LLENA ESTA INFORMACIÓN EL IMPLEMENTO NO TIENE GARANTÍA.



Contáctanos:

[www.swissmex.com](http://www.swissmex.com)

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