

FBR Plus

**OPERATOR'S MANUAL - PARTS BOOK** 

# SICKLE BAR MOWER



Cod. G19503020 2013-01

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#### TO THE DEALER:

Assembly and proper installation of this product is the responsibility of the MASCHIO GASPARDO dealer. Read manual instruction and safety rules. Make sure all items on the Dealer's Pre-Delivery Check List in the Operator's Manual are completed before releasing equipment to the owner.

The dealer must complete the Warranty Registration, located on the MASCHIO GASPARDO website. **Warranty claims will be denied if the Warranty Registration has not been completed.** 

#### TO THE OWNER:

Read this manual before operating your frontier equipment. The information presented will prepare you to do a better and a safer job. Keep this manual handy for ready reference. Require all operators to read this manual carefully and become acquainted with all the adjustment and operating procedures before attempting to operate. Replacement manuals can be obtained from your selling dealer.

The equipment you have purchased has been carefully enginereed and manufactured to provide dependable and satisfactory use. Like all mechanical products, it will require cleaning and upkeep. Lubricate the unit as specified. Observe all safety information in this manual and safety decals on the equipment.

For service, your authorized MASCHIO GASPARDO dealer has trained mechanics, genuine MASCHIO GASPARDO service parts, and the necessary tools and equipment to handle all your needs.

Use only genuine MASCHIO GASPARDO service parts. Substitute parts will void the warranty and may not meet standards required for safe and satisfactory operation. Record the model number and serial number of your equipment in the spaces provided:

Model:	Date of Purchase
Serial Number: (see Safety Decal section for local	ation)

Provide this information to your dealer to obtain correct repair parts.

Throghout this manual, the term **IMPORTANT** is used to indicate that failure to observe can cause damage to equipment. The terms **CAUTION**, **WARNING** and **DANGER** are used in conjunction with the Safety-Alert Symbol, (a triangle with an esclamation mark), to indicate the degree of hazard for items of personal safety.





Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



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.



**CAUTION** Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.

### **IMPORTANT**

Indicates that a failure to observe can cause damage to equipment.

NOTE Indicates helpful information.

#### DESCRIPTION

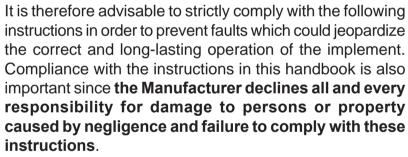
# Description of the sickle bar mower

This agricultural implement can only operate by means of a cardan shaft applied to the pto of an agricultural tractor equipped with lift and universal three-point hitch. Since it is movable, the mowing machine can be easily mounted on tractors with different gauges or on tracked vehicles (Fig. 1). The two-motion tooth-blade system used in mowing machines, makes possible a scissors cut which leads to a higt speed operation on a any crop. The original tooth-blade motion guarantees a sharp and clean cut on any type of grass, be it damp or flattened. It is thanks to the total absence of soil which this mowing system does not raise, sharp because the stems are not frayed. The sickle bar may also be used with the cutting arm tilted for working on canals, ditches and embankments (Fig. 2 and 3).



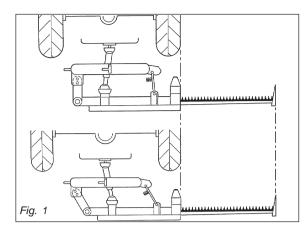
#### **ATTENTION**

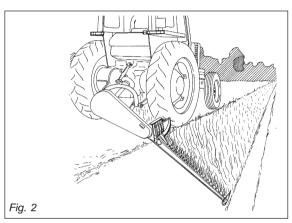
The sickle bar is suitable only for the uses indicated. Any other use different from that described in these instructions could cause damage to the machine and represent a serious hazard for the user.

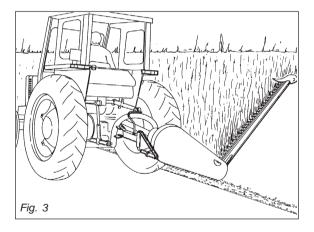


The Manufacturer shall, however, remain at the customers' disposal for immediate and thorough assistance together with anything else that may be required in order to ensure the correct operation and maximum efficiency of the implement.

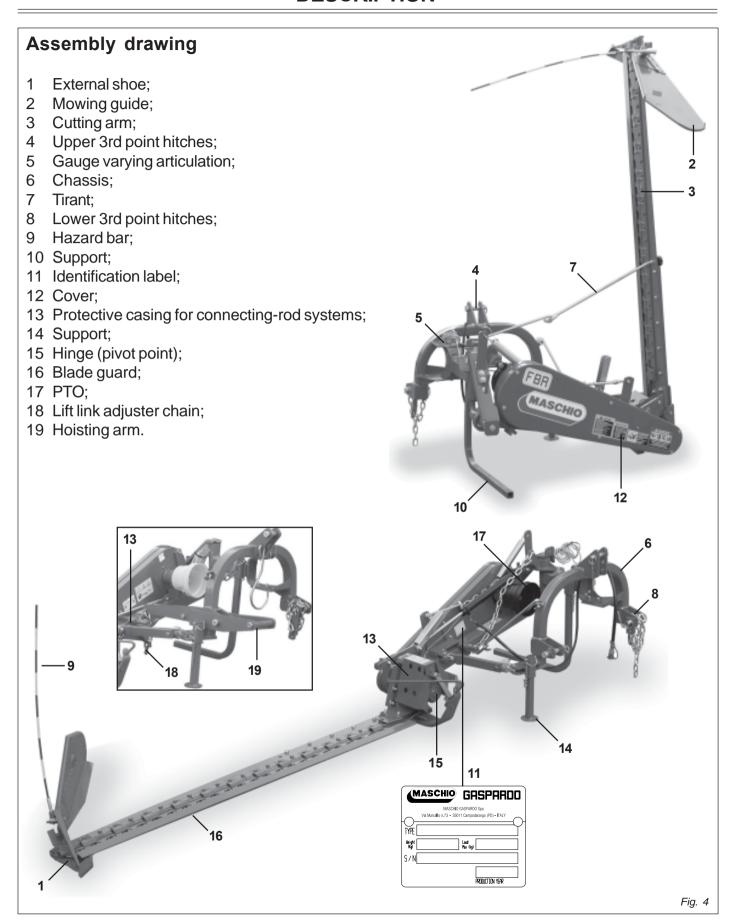
The Manufacturer reserves the right to make any modifications and improvements to the implement as may be considered opportune, without being obliged to immediately inform the user.



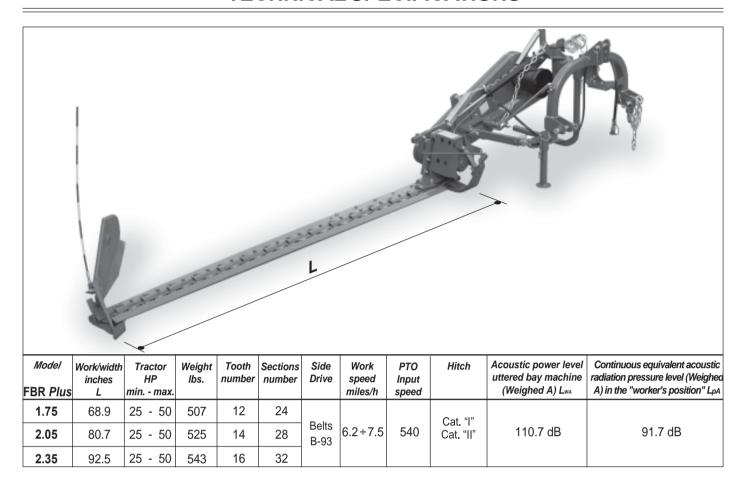




# **DESCRIPTION**



#### TECHNICAL SPECIFICATIONS



# Handling

During handling operations, use suitable personal protection devices:

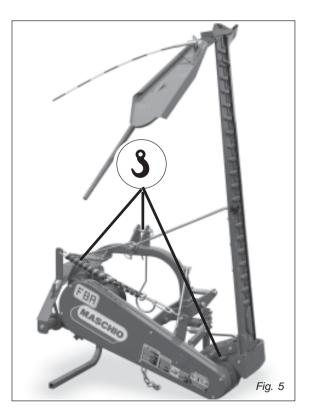


If the machine is handled, it must be lifted by hooking (Fig. 5) onto the appropriate holes with a suitable winch or crane of sufficient capacity. Because of the danger involved, this operation should be carried out by trained and responsible personnel. The mass of the machine is on the identification label (11, Fig. 4).

Stretch the rope to keep the machine level.

The lifting points can be detected by finding the symbol (8 page 9).

During handling operations make sure the implement has the required safety devices and guards.



#### **SAFETY LABLES**

## Safety-alert lables

Read and recognize safety information.

Be alert to the potential for personal injury when you see this safety-alert lables.



On your machine safety labels, the words DANGER, WARNING, and CAUTION are used with a safety symbols. DANGER identifies the most serious hazards. In this manual, the word CAUTION and this symbol call attention to safety messages.

# Identification machine

Identification label

### Machine safety labels

#### 1) CAUTION: AVOID INJURY

- Read Operator's Manual
- Ballast power unit per operator's manual
- Know location and function of controls
- Keep all shields in place
- Stay clear of power driven parts
- Never carry riders
- Keep people and pets a safe distance away from machine

#### BEFORE DISMOUNTING OR SERVICING

- Shut off engine and remove key
- Lock brake for park
- Lower or block up machine

#### 2) CAUTION

- 1 Keep all shields in place.
- 2 Disengage and shut off all engine and/or motor power before servicing or unclogging machine.
- 3 Keep hands, feet and clothing away from power-driven parts.

#### 3) DANGER: CRUSHING AND PINCH POINTS

MOVING MACHINERY PARTS CAN:

1° PINCH OR CRUSH OR FALL

2° WHICH MAY CAUSE INJURY OR DEATH.

#### 4) DANGER

Entanglement in rotating driveline can cause serious injury or death.

Keep all shields in place.

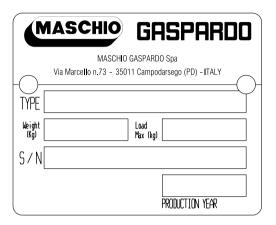
Avoid contact with rotating parts.

#### 5) DANGER: KEEP AWAY - SHARP BLADES

- Do not put hands or feet near the cutterbar. Blade contact can result in serious injury.
- Stay away until all motion has stopped and the mower is securely blocked up.
- Keep fingers clear of cutterbar when folding cutterbar for transport.

#### 6) CAUTION

Operate only with 540 rpm PTO.



# MACHINE SAFETY LABELS AND POSITION



# **CAUTION**

- COID INJURY
  EAD OPERATOR'S MANUAL
  allast power unit per operator's manual
  now location and function of controls
  eep all shields in place
  tay clear of power driven parts
  ever carry riders
  eep people and pets a safe distance
  way from machine

# BEFORE DISMOUNTING OR SERVICING • Shut off engine and remove key • Lock brake for park • Lower or block up machine



# **CAUTION**

- 1. Keep all shields in place.
- 2. Disengage and shut off all engine and/or motor power before servicing or unclogging machine.
- 3. Keep hands, feet and clothing away from power-driven parts.









**(5** 



**DANGER** 

**(6)** 



Operate only with 540 rpm PTÓ

**(7**)





**(8**)



9





0000

- 8) Coupling point for lifting.
- Greasing point.



#### PREPARING THE TRACTOR

# Preparing the tractor



CAUTION: Avoid injury. Proper ballastings is required for safe operation of your sickle bar mower

#### IMPORTANT: Refer to the tractor operator manual for proper ballasting information and tire inflation

- A 540 rpm PTO
- Refer to the tractor operator manual for correct ballasting and tire pressure, depending on installed equipment.

# Parking instruction

- Stop vehicle on a lever surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

# Stay clear of rotating drivelines

Entanglement in rotating driveline can cause serious injury or death:

- Wear close fitting clothing.
- STOP the engine and be sure PTO driveline is stopped before getting near it.

# Installing sickle bar on tactor

The sickle bar can be hitched to I, II or quick coupler category tractor equipped with a universal three-point coupling.



#### **DANGER**

Application of any implement to a tractor is a very dangerous operation and must only be carried out with the utmost care in compliance with the instructions.

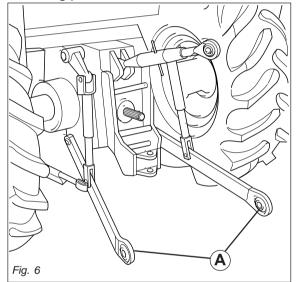
The correct tractor/sickle bar position is established by setting the implement at such a distance from the tractor that the universal coupling remains 2-4 inches from its maximum closing position. Now proceed in the following way:

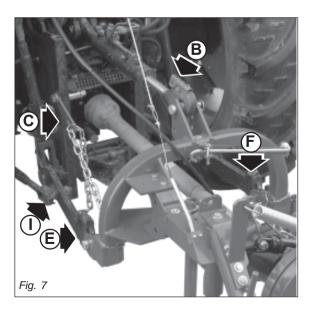
1. Back tractor into position and align draft links (A, Fig. 6) with draft link brackets on sickle bar.



#### **CAUTION:** Before you work around hitch:

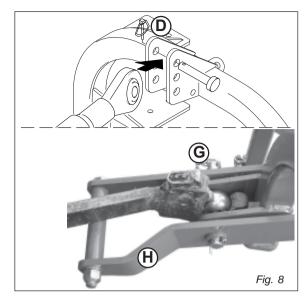
- STOP engine.
- LOCK park brake.
- FIRMLY block mower on horizontal surface.
- 2. Connect the upper third-point and correctly regulate by means of the adjuster (B, Fig. 7). Place plate (C, Fig. 7) at the left side of the hight integral with the same pin. Lock in place with the snap-in split pins (D, Fig. 8).





#### **INSTALLING**

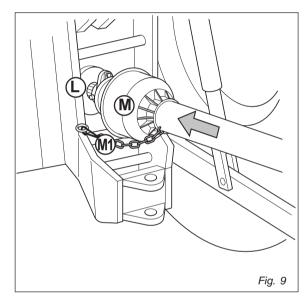
- 3. Hook the oscillating arms of the tractor to pins (E and F, Fig. 7). The hoisting arm (H, Fig. 8) must be fixed underneath the tractor arm. Lock in place with the snap-in split pins (G Fig. 8)
- 4. Lock the lift links using the relative chains (I, Fig. 7) and couplings parallel to the tractor. This operation must be carried out to prevent the machine from moving in a horizzontal direction.



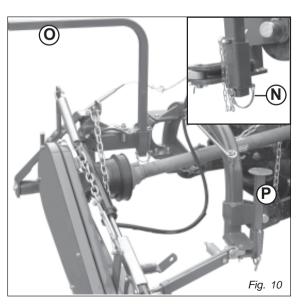
5. Install PTO shaft to tractor (Fig. 9).

#### IMPORTANT: Sickle bar mower MUST BE level front to rear.

Make sure PTO shaft is locked on the tractor PTO prior to engagement (L). Check that the guard (M) is free to turn and fix it with the relative latch (M1).



- 6. Remove the guard over the cutters (16, Fig. 4) and remove the tirant (7, Fig.4).
- 7. Lift-up sickle bar.
- 8. Remove spring locking pin (N, Fig. 10) from parking stand.
- 9. Remove support (O and P, Fig. 10) and remount them, upside-down in their seat .
- 10. Fasten with spring locking pin (N, Fig. 10).



# PTO shaft adaptation

The PTO shaft, supplied with the machine, is of standard length. Therefore it might be necessary to adapt the PTO shaft. In that case, before doing anything, consult the Manufacturer for the eventual adaptation.

# A

#### **CAUTION**

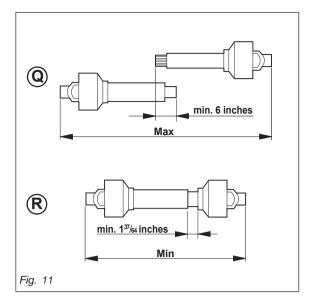
- When the PTO shaft is fully extended, the two tubes must overlap by at least 6 inches (Q Fig. 11). When fully inserted, the minimum play must be 1<sup>37</sup>/<sub>64</sub> inches (R Fig.11).
- If the implement is used on another tractor, always check the above and that the guards copletely cover the rotating parts of the PTO shaft.

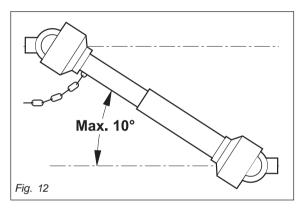


#### **ATTENTION**

Comply with the manufacturer's instructions when transporting the mowing machine.

- The equipment installed can only be controlled by means of the PTO shaft complete with the necessary overload safety (i.e. clutch) devices and guards fastened with the appropriate chain.
- Only the PTO shaft supplied by the Manufacturer must be used.
- The engine must not be running when installing and removing the PTO shaft.
- Care must be taken regarding the safety and correct assembly of the PTO shaft.
- Use the chain provided to stop the PTO shaft from rotating.
- Always check carefully that the PTO shaft guard is always in position, both during transportation and operation.
- Frequently and set intervals check the PTO shaft guard, it must always be in excellent condition.
- Before engaging the PTO, check that the set rpm corresponds to that indicated by the sticker on the equipment.
- Before inserting the PTO, make sure that there are no people or animals nearby and that the rpm selected corresponds to that permitted. Never exceed the maximum admissible speed.
- Watch out for the rotating universal joint.
- Do not insert the PTO with the engine off or synchronized with the wheels.
- Always disconnect the PTO when the cardan shaft is at too wide an angle (never more than 10°, Fig. 12) and when it is not being used.
- Only clean and grease the PTO shaft when the power take-off is disconnected, the engine is off, the hand brake pulled and the key removed.
- When not in use, place the PTO shaft on the support provided for it.
- After having dismantled the PTO, place the protective cover on the PTO shaft (S, Fig. 13).







# Stability of sickle bar mower and tractor during transport

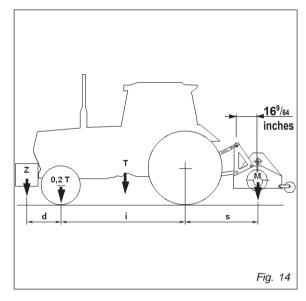
When a sickle bar is coupled to a tractor, so becoming an integral part of it for the purposes of road travel, the stability of the sickle bar-tractor complex may change and cause driving or operating difficulties (rearing up or side-slipping of the tractor). The condition of equilibrium can be restored by placing a sufficient number of ballasts on the front of the tractor so that the weights on the two tractor axles are distributed sufficiently evenly. To work in safety the instructions given in the highway code should be followed; these prescribe that at least 20% of the weight of the tractor alone should be borne by the front axle and that the weight on the arms of the hoist should not be more than 30% of the weight of the tractor itself. These factors are summarized in the following formulas:

# $Z > \underline{(M \times s)-(0.2 \times T \times i)}$ (d+i)

The amount of ballast that should be applied according to the formula is the minimum required for circulation on the road. If for reasons of tractor performance or to improve the set-up of the sickle bar during operation it is thought necessary to raise these values, please refer to the registration document of the tractor to check its limits. When the formula for calculating the ballast gives a negative result it will not be necessary

to add any weight. In any case, as long as the limits of the tractor are respected, a suitable quantity of weights may be applied in order to ensure greater stability during travel. The symbols have the following meanings:

М	Kg	Mass weighing on arms off hoist with full load (Technical data table)	
Т	Kg	Mass of tractor	
Z	Kg	Total mass of ballast	
i	m	Tractor wheelbase, that is, the horizontal distance between the tractor axles	
d	m	Horizontal distance between the centre of gravity of the ballast and the front axle of the tractor	
s	m	Horizontal distance between the centre of gravity of the operating machine and the back axle of the tractor	



(please see Fig. 14 for reference):

# **INSTALLING**

# Parking instructions

- Stop vehicle on a level surface, not on a slope.
- Disengage PTO.
- Engage the park brake.
- STOP the engine.
- Remove the key.
- Before you leave the operator's seat, wait for engine and all moving parts to STOP.

# Stay clear of rotating drivelines

Entanglement in rotating driveline can cause serious injury or death:

- Wear close fitting clothing.
- STOP the engine and be sure PTO driveline is stopped before getting near it.



# Removing sickle bar mower

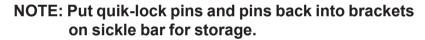
The sickle bar must be set-up on flat and compact ground, supported by the relative supports (A and B, Fig. 15).

- 1. Raise sickle bar.
- 2. Put parking stand (A and B, Fig. 15) in the DOWN position: install spring locking pin in order to secure parking stand (C, Fig. 15).
- 3. Lower sickle bar to the ground.



#### **CAUTION:** Before you work around hitch:

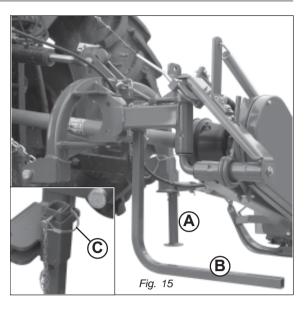
- STOP engine.
- LOCK park brake.
- FIRMLY block mower on horizontal surface.
- 4. Unhook the PTO schaft (, Fig. 16) from the tractor and put in on the special hook.
- 5. Remove quik-lock pin (D, Fig. 17) and pin (E, Fig. 17) from center link (F, Fig. 17).

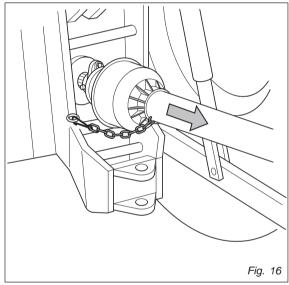


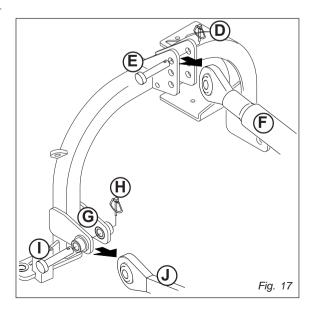
6. Remove draft links (J, Fig. 17) from draft link brackets (G, Fig. 17) by removing quiklock pins (H, Fig. 17) and pins (I, Fig. 17).

NOTE: Put quik-lock pins and pins back into brackets on sickle bar for storage.

7. Drive tractor forward slowly.







#### **OPERATING**

# Operate safetly

Carefully read all the instructions before using the machine; if in doubt, contact the technicians of the Manufacturer's dealer. The manufacturer declines all responsibility for the non-observance of the safety and accident prevention regulations described below.

#### General norms

- 1) Pay close attention to the danger signs in this manual and on the sickle bar.
- 2) The labels with the instructions attached to the machine give abbreviated advice for avoiding accidents.
- 3) Carefully observe, with the help of the instructions, the safety and accident prevention regulations.
- 4) Avoid touching moving parts in any way whatsoever.
- 5) Any work on and adjustment to the machine must always be done with the engine switched off and the tractor blocked.
- 6) People or animals must not, under any circumstances, be transported on the equipment.
- 7) It is strictly prohibited to drive the tractor, or allow it to be driven or with the equipment attached by persons not in possession of a driver's license, an expert or in poor conditions of health.
- 8) Before starting the tractor and the equipment, check that all safety devices for transport and use are in perfect working order.
- 9) Before starting up the equipment, check the area surrounding the machine to ensure that there are no people, especially children or pets, nearby, and ensure that you have excellent visibility.
- 10) Use suitable clothing. Avoid loose clothing or garments with parts that could in any way get caught in the rotating or moving parts of the machine.
- 11) Before starting work, familiarize yourself with the control devices and their functions.
- 12) Only start working with the equipment if all the protective devices are in perfect condition, installed and in the safe position.
- 13) It is absolutely prohibited to stand within the machine's radius of action where there are moving parts.
- 14) It is absolutely forbidden to use the equipment without the guards.
- 15) Before leaving the tractor, lower the implement coupled to the lift unit, stop the engine, engage the hand brake, remove the ignition key from the control panel, cover the cutters and outer skid with the relative guards. Raise the mowing bar (transport protection) according with the instructions given in this handbook.
- 16) The driver's seat must never be left when the tractor engine is running.
- 17) Before operating the mowing machine, check that the support struts (A and B, Fig. 15 page 15) have been removed from underneath the implement. Make sure that the sickle bar has been correctly mounted and adjusted. Check that the machine is in perfect order and that all components subject to wear and deterioration are efficient.
- 18) Before releasing the equipment from the third point attachment, put the hoist command lever into the locked position and lower the support feet.
- 19) Only operate during daylight or with proper artificial light.
- 20) All operations must be carried out by expert personnel, equipped with protective gloves, in a clean and dust-free environment.
- 21) Do not climb onto the machine while it is running, even if it is stationary.
- 22) Before approaching the mowing bar, disengage the pto, switch off the tractor, engage the parking brake and check that the cutters are at a complete standstill.
- 23) The coupled implement may only be controlled through the PTO shaft complete with the necessary safety devices for overloads and with the guards fixed with the relative latch.
- 24) During maintenance and work operations, make sure that no other person goes near the tractor and the implement and accidentally works the controls with the risk of causing injury to persons and damage to property.
- 25) As a precaution, always set adeguate supports under the implement during assembly, servicing, cleaning or assembly work with the mowing bar raised.

#### **OPERATING**

- 26) DO NOT wear radio or music headphones while operating the machine. Safe operation requires your full attention.
- 27) DO NOT operate the tractor and sickle bar when you are tired or ill.

#### **Tractor hitch**

- 1) Hook the equipment to a suitable, sufficiently-powered tractor by means of the appropriate device (lifter), in conformity with applicable standards.
- 2) The class of the equipment attachment pins must be the same as that of the lifter attachment.
- 3) Take care when working within the range of the lifting arms as this is a very dangerous area.
- 4) Be very careful when hooking and unhooking the equipment.



- 5) It is absolutely forbidden to stand between the tractor and linkage for acting the lifting controls from the outside (Fig. 18).
- 6) It is absolutely forbidden to stand in the space between the tractor and the equipment (Fig. 18) with the engine running.
- 7) The attaching of additional equipment onto the tractor brings about a different distribution of weight on the axles.
  - Check the compatibility of the tractor performance with the weight that the mower transfers onto the three-point linkage. If in doubt consult the tractor Manufacturer.
- 8) Comply with the maximum admissible weight for the axle, the total mobile weight, transport regulations and the highway code.



- Wear close fitting clothing and safely equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.



#### Stay clear of rotating drivelines

Entanglement in rotating driveline can cause serious injury or death:

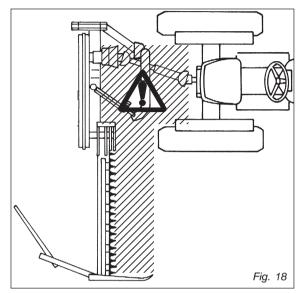
- Wear close fitting clothing
- Stop the engine and be sure PTO shaft is stopped before getting near it.





**CAUTION:** Before you work around hitch:

- STOP engine.
- · LOCK park brake.
- FIRMLY block mower on horizontal surface.

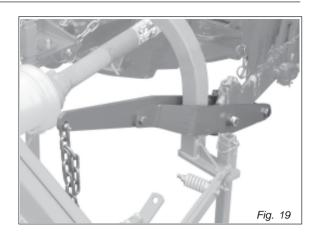


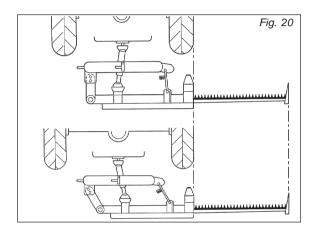
## **Use of MECHANICAL lifting system** (Fig. 19)

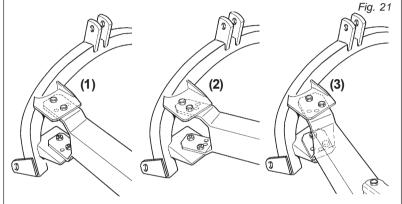
### Adapting the sickle bar mower

To ensure optium use, the sickle bar must completely project from the tractor (Fig. 20); three situations are shown in the Figure 21:

- 1) hitching to a tractor normally used for mowing jobs;
- 2) hitching to a large tractor;
- 3) hitching to a small tractor or to certain types of tracked vehicle.



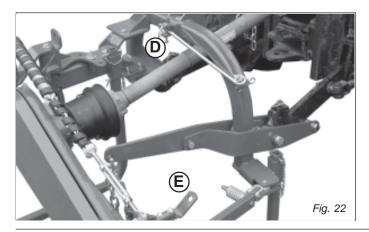


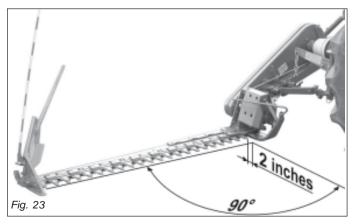


# **Adjustment**

Before starting a mowing session, adjust the machine so that the best working setup is obtained. Correct machine setup guarantees excellent mowing, allows for the best machine-tractor performance and remarkably reduces wear of the cutting blades.

- Remove safety hook (D, Fig. 22), required only for transportation, and fit it back in the slot positioned above the chassis.
- Fit the sickle bar by adjusting the tractor tie-rods so that, when the sickle bar attachment is fitted to the three points on the tractor, the external tip of the cutting arm is approximately 2 inches. foward with respect to the arm base (Fig. 23).



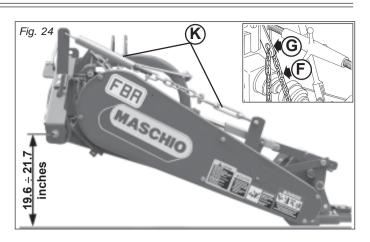


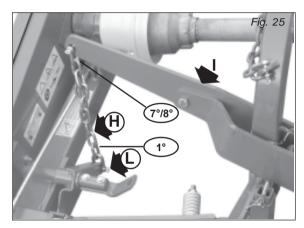
- Connect one end of the chain (F, Fig. 24) to the mower using the supplied pin and the other end to a stationary point on the tractor. Adjust the height of the mower to the ground (19.6 to 21.7 inches, Fig. 24) by moving the rings of the chain (F, Fig. 24) in the hole on the plate (G, Fig. 24). When the lifter is lowered, this precaution will constantly hold the mower at the same height from ground level.
- Act on the tie rod-spring (K, Fig. 24) to bring the internal skid close to the ground (without discharging the weight on the ground), lightening the load of the machine on the cutter bar.
- Adjusting the hoisting chain (H, Fig. 25) so that during mowing the hoisting arm (I, Fig. 25) is free to move up and down; in this way, the cutting arm can follow any unevenness of the ground.
   So that the mower will work well, we advise you to fix the chain (H Fig. 25) to the lifting arm (I Fig. 25) at the level of the 7th or 8th link of the chain.
- Adjust the heigt of the cutting arm from the ground with chain (J, Fig. 26). Lower the mower; when the external tip of the arm touches the ground, the inner shoe must remain approximately 10 cm. above ground level (Fig. 26). Adjust by moving the chain links.
  - So that the mower will work well, we advise you to fix the chain (J, Fig. 25-26) to the equalizer (L, Fig. 25-26), leaving the last links of the chain free.
- Adjust inclination of the cutting arm teeth using tie rod (M, Fig. 27).

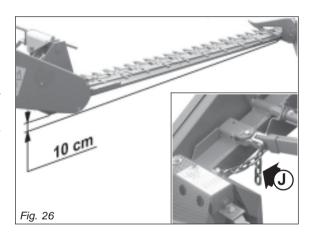
For low, moist and thick fodder, tilt the teeth downwards by shortening the tie rod (M, Fig. 27).

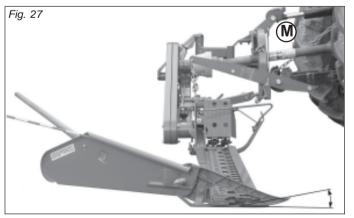
For ground with rocks and stones tilt the teeth upwards by lengthening the tie rod (M, Fig. 27).

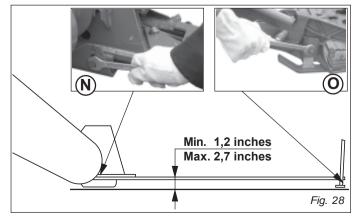
 Adjust the cutting height (Fig. 28) by moving the mowing bar on the holes of the inner mowing bar support (N), and, turning the nut of the outer mowing bar support (M), bring it level with the ground.





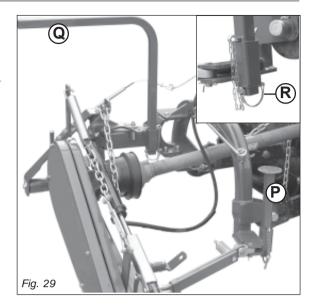






## **Mowing**

 Remove the supports (P and Q, Fig. 29) and remount them, upside-down in their seat. Install spring locking pin in order to secure parking stand (R).



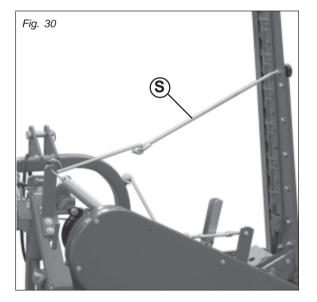
- Remove tie rod (S, Fig. 30) from the cutting arm.
- Remove safety hook (D, Fig. 22), required only for transportation, and fit it back in the slot positioned above the chassis.
- The sickle bar is fitted with a safety device for protection against obstacles. If this device is tripped by impact with an obstacle, stop the tractor without raising the cutting arm. Check that the cardan shaft has not become seperated, if so, reassemble it. Position the safety tie rod parallel to the ground, and reverse the tractor until the safety tie rod hooks up again. If the tie rod releases easly, adjust spring (T, Fig. 31) using nut (U, Fig. 31) which should be tightened half turn at a time.

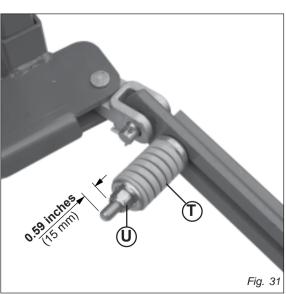


A spring compression other than that indicated in Figure 31 (0.59 inches) can make the safety device ineffective.

For successful mowing and to avoid jamming, we advise you to:

- Set and maintain the power take-off at a constant rate of 540 rpm to ensure correct blade frequency; maintain an engine speed of 1800÷2000 rpm.
- compatibly with the soil conditions and the type of grass, maintain a steady work speed: no slower than 5 mph to favor the discharging of the mown grass and no faster than 6.2 mph to avoid breaking or damaging the machine's structure.
- if the grass is tangled or flattened, keep the cutting bar grazing the ground.







If the blades becomes jammed, it is advisable to operate carefully wearing suitable personal protection. All the maintenance, adjustments and work preparation operations, must be carried out with the tractor strictly switched off and properly stationary, with the ignition key turned off and the sickle bar on the ground.

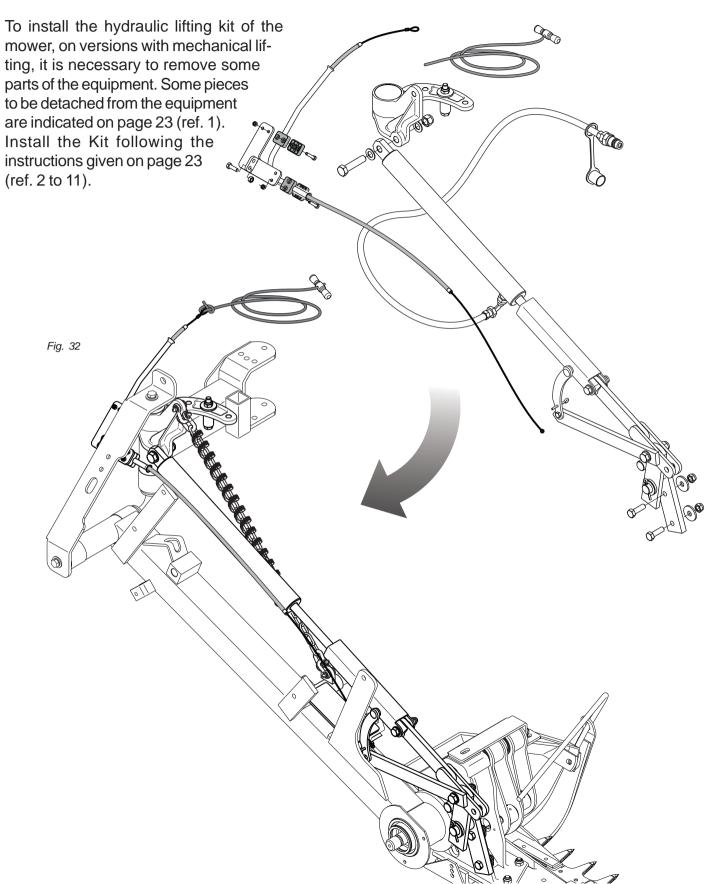


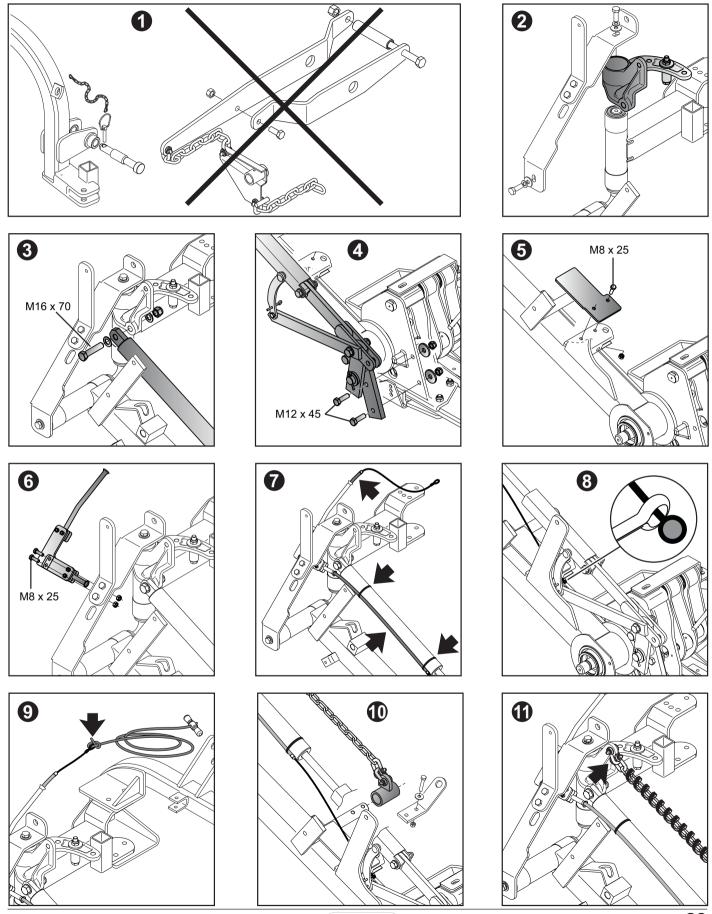
- Always raise the implement in order to reverse or change direction.
- The cutting arm should not be raised abruptly in order to avoid damaging the cutting blades.
- Power take-off must not exceed 540 r.p.m.
- Never run the engine at maximum power while mowing.
- In order to prevent breakages or damage, the speed of the tractor must never exceed 6.2 mph when the implement is working.



The mowing machine has sharp cutting blades. Always make sure that there are no persons, domestic animals, electrical cables, pipes and so forth, within the field of action of the implement.

# Use of HYDRAULIC lifting system (Fig. 32)

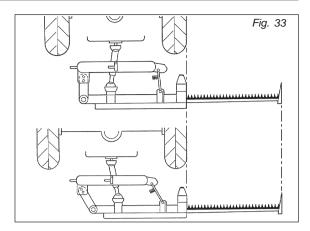


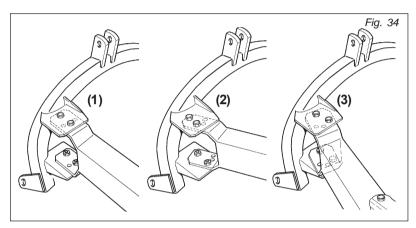


## Adapting the sickle bar mower

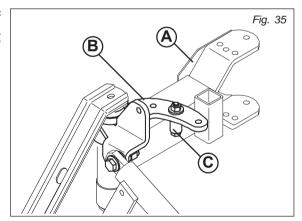
To ensure optium use, the sickle bar must completely project from the tractor (Fig. 33); three situations are shown in the Figure 34:

- 1) hitching to a tractor normally used for mowing jobs;
- 2) hitching to a large tractor;
- 3) hitching to a small tractor or to certain types of tracked vehicle.

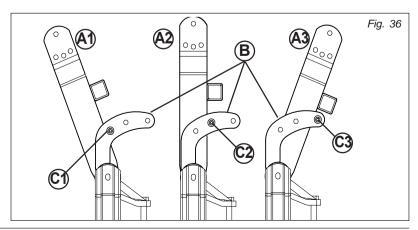


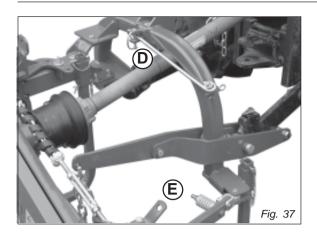


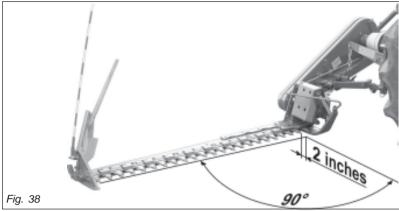
When the frame joint is moved (A, Fig. 35), the position of the stop bushing (C, Fig. 35) of the cylinder linkage must consequently be changed, according to the cases shown in figures 35 and 36.



Connections between frame joint and stop bushing for the movement of the mowing bar.







# **Adjustment**

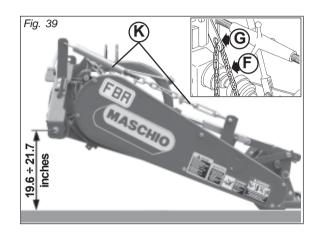
Before starting a mowing session, adjust the machine so that the best working setup is obtained. Correct machine setup guarantees excellent mowing, allows for the best machine-tractor performance and remarkably reduces wear of the cutting blades.

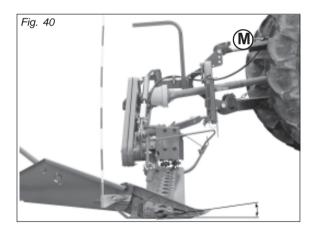
- Remove safety hook (D, Fig. 37), required only for transportation, and fit it back in the slot positioned above the chassis.
- Fit the sickle bar by adjusting the tractor tie-rods so that, when the sickle bar attachment is fitted to the three points on the tractor, the external tip of the cutting arm is approximately 2 inches. foward with respect to the arm base (Fig. 38).
- Connect one end of the chain (F, Fig. 39) to the mower using the supplied pin and the other end to a stationary point on the tractor. Adjust the height of the mower to the ground (19.6 to 21.7 inches, Fig. 39) by moving the rings of the chain (F, Fig. 39) in the hole on the plate (G, Fig. 39). When the lifter is lowered, this precaution will constantly hold the mower at the same height from ground level.
- Act on the tie rod-spring (K, Fig. 39) to bring the internal skid close to the ground (without discharging the weight on the ground), lightening the load of the machine on the cutter bar.
- Adjust inclination of the cutting arm teeth using tie rod (M, Fig. 40).

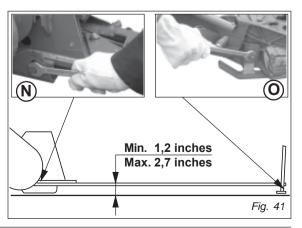
for low, moist and thick fodder, tilt the teeth downwards by shortening the tie rod (M, Fig. 40).

for ground with rocks and stones tilt the teeth upwards by lengthening the tie rod (M, Fig. 40).

 Adjust the cutting height (Fig. 41) by moving the mowing bar on the holes of the inner mowing bar support (N), and, turning the nut of the outer mowing bar support (O), bring it level with the ground.



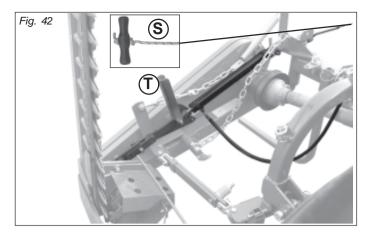




# Using the lifting device

Once you have positioned the equipment, prepare it for mowing:

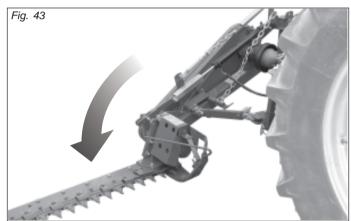
- release the blade tie rod;
- remove the support prop;
- remove the blade protection.



#### Operation of lifting device

Put the rope (S, Fig. 42) for releasing the bracket (T, Fig. 42) inside the tractor cabin.

Climb into the tractor and operate the hydraulic distributor to lower the blade (Fig. 43) into the mowing position.

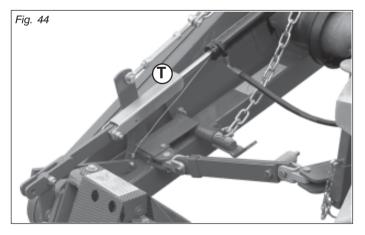


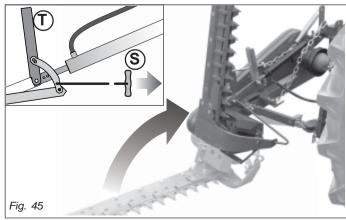


CAUTION: While working regularly check that the bracket (T) is still resting along the cylinder rod (Fig. 44).

Raising of the cutter bar for road transport

- Fit the guards over the cutters and outer skid (C Fig. 60.
- From the tractor, pull the rope (S, Fig. 45) to disable the bracket (T, Fig. 45) and operate the hydraulic distributor to fully raise the cutter bar.
- Sicure it with the hooking tie rod.

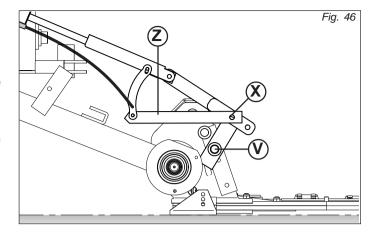




# Mowing on flat ground (or ground with small depressions)

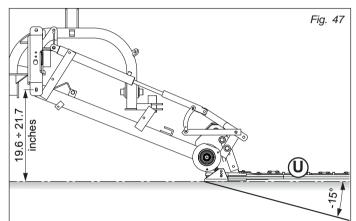
For mowing operations on level ground, couple the lever mechanisms (V and Z, Fig. 46) in position (X, Fig. 46).

Lastly insert the lifting device as described in the previous paragraph.

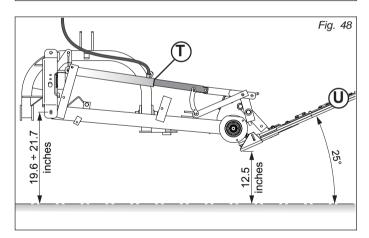


With the rapid lifting device engaged, the bar (U, Fig. 47) has a negative inclination of -15° with respect to the horizontal plane during mowing, and a positive inclination that varies according to the lie of the land.

This system has been devised for mowing quickly and safely on flat ground or ground with small depressions.

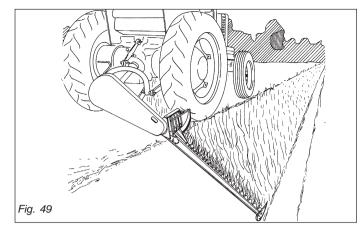


The operation of the lifting device up to the stop of the bracket on the cylinder (T, Fig. 48) allows the equipment to be raised by approx. 12.5 inches from the ground and, at the same time, an inclination of the blade (U, Fig. 48) of + 25°, so that the end of field maneuvers can be carried out.



# Mowing on slopes

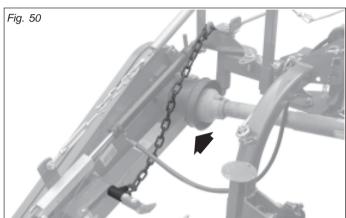
Figure 49 show type of mowing on sloping ground (banks, canals, etc.).





CAUTION: For mowing on surfaces that are not parallel to the tractor plane, we recommend removing the moving guide from the outer mowing bar support.

To mount pulling of Figure 50 in order to improve the excursion and use of the sickle bar.



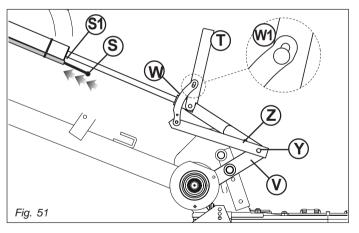
Only for mowing on sloping ground, it is necessary to prepare the machine according to the instructions given below:

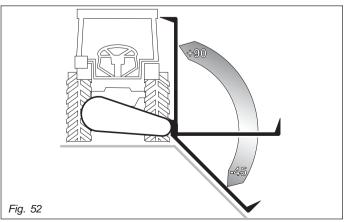
- 1) Move the lever mechanisms (V and Z, Fig. 51) to position (Y).
- 2) Lift the bracket (T) as shown in Figure 51, and lock it with the rod (W) in the lower position of the slot (ref. W1, Fig. 51).
- To avoid unpleasant problems during movement of the cutter bar, detach the steel cable (S) from the rod (W) and retrieve it up to position (S1).

In this way the bar can be adjusted with the hydraulic cylinder to mow at different angles: from -45° to +90° with respect to the horizontal plane formed by the tractor (Fig. 52).

#### **IMPORTANT:**

The sickle bar can operates in each position between -45° to +90°.

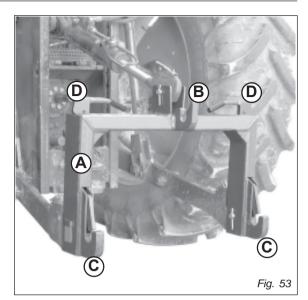




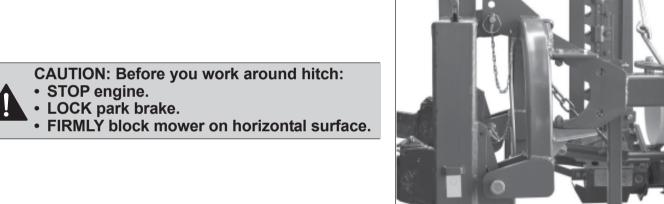
# **Quick Coupler**

# The Quick Coupler must be used only with hydraulic lifting system.

- 1) Install hitch Quick Coupler (A, Fig. 53) on the tractor (see tractor operator manual).
- 2) Parking the sickle bar on a flat and compact ground supported by the relative supports. Then slowly move the tractor back until the Quick Coupler (A) is in range with the point hitches (B and C, Fig. 53).
- 3) Raise the Quick Coupler (A, Fig. 53) and make sure that sickle bar hitch is in the right position (E, Fig. 54).

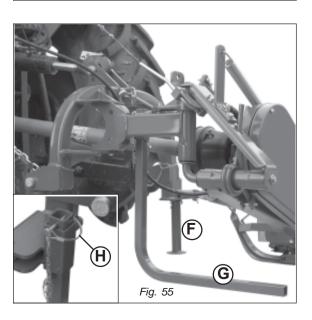


(E)



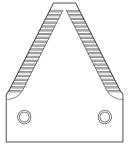
# Removing sickle bar mower with Quick Coupler

- 1. Raise sickle bar.
- 2. Put parking stand (F and G, Fig. 55) in the DOWN position: install spring locking pin in order to secure parking stand (H, Fig. 55).
- 3. Lower sickle bar to the ground.
- 4. Raise the two Quick Coupler levers (D, Fig. 53) to unloch sickle bar.
- 5. Lower Quick Coupler till further free the sickle bar.



# How to choose between sickle bars

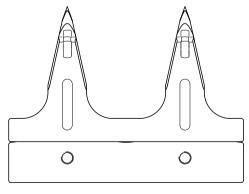
TYPE OF THE GROUND		TYPE OF THE FORAGE			
		Dry and lignificated (gramineae)	Humid, packed and low (cat coat)	Humid and packed (Lucerne-Clover)	Big and high (forage of the sorghum, corn)
Level	Normal	DSE - SD/SN	DSE - SD	DSE - SN	DSE - SN
Le	Stny field	DSE - SD/SN	DSE - SD	DSE - SN	DSE - SN
≣	Normal	DSE - SD/SN	DSE - SD	DSE - SN	DSE - SN
_	Stny field	DSE - SD/SN	DSE - SD	DSE - SN	DSE - SN
Mountain	Normal	DSE - SD/SN	DSE - SD	DSE - SN	DSE - SN
Mor	Stny field	DSE - SD/SN	DSE - SD	DSE - SN	DSE - SN



Normal Section (SN)



Self sharping double section (SD)



Replaceable Tooth (DSE)

#### SERVICE MACHINE SAFETLY

#### Practice safe maintenance

- Understand service procedure before doing work. Keep area clean and dry. To avoid ...
- Never lubricate, service, or adjust machine while it is moving. Keep safety devices in place and in working condition. Keep hardware tight.
- To prevent from getting caught, keep hands, feet, clothing, jewelry, and long hair away from any moving parts.
- Before servicing machine, lower it to the ground. Disengage all power and stop the vehicle engine. Lock vehicle park brake and remove the key.
- Securely support any machine elements that must be raised for maintenance.
- Keep all parts in good condition and properly installed. Fix damage immediately. Replace worn or broken parts. Remove any buildup of grease, oil, or debris.
- Unauthorized modifications to the machine may impair its function and safety.

# Wear appropriate clothing

- Wear close fitting clothing and safety equipment appropriate for the job.
- Loud noise can cause impairment or loss of hearing, wear a suitable protective device such as earplugs.
- Do not wear radio or music headphones while servicing the machine. Safe servicing requires your full attention.



### Stay clear of rotating PTO shaft

Entanglement in rotating driveline can cause serious injury or death:

Stop the engine and be sure PTO shaft is stopped before getting near it.



#### **Maintenance**

Various servicing operations are listed in the following paragraphs. Lower running costs and longer machine life depend on constant and methodical compliance with these operations.

During work and maintenance operations, use suitable personal protective gear:



#### **CAUTION**

- The given frequencies are indicative and refer to normal conditions of use. They may therefore
  be subject to variations in relation to the type of service, a more or less dusty environment,
  seasonal factors, etc.
- In the case of heavy-duty conditions, the maintenance operations should obviously be more frequent.
- Before injecting grease into the lubricators, the greasing points must be thoroughly cleaned to prevent mud, dust or foreign bodies from mixing with the lubricant, thus reducing lubricating effect.



#### **ATTENTION**

It is absolutely essential to disengage the tractor pto, lower the mowing machine, switch off the tractor, ensure that this is at a complete standstill and remove the key before servicing, adjusting the implement for work. All assembly operations must be carried out on a work bench.

- Always keep oils and greases well away from children's reach.
- Always thoroughly read the warnings and precautions indicated on the containers.
- Avoid contact with the skin.
- Always thoroughly and fully wash after use.
- The utilized oils should be treated in compliance with the current laws in force.



#### SERVICE MACHINE SAFETLY

- Do not proceed with maintenance and cleaning if the power take-off has not been disconnected first, the engine power off, the hand brake pulled and the tractor blocked with a wooden block or stone of the right size under the wheels.
- Periodically check that the bolts and nuts are tight, and if necessary tighten them again. For this it would be advisable to use a torque wrench, respecting the values of 52 Nm for M10 bolts, resistance class 8.8, and 143 Nm for M14 bolts resistance class 8.8 (Table 1: **Bolts tightening torques**).
- During assembling, maintenance, cleaning, fitting, etc., with the mowing machine raised, place adequate supports under the equipment as a precaution.
- The spare parts must correspond to the manufacturer's specifications. **Use only original spares**.

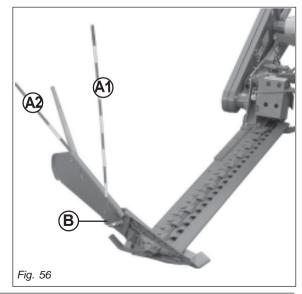
# Bolts tightening torques - settings given in Nm (lb-ft)

(Table 1)

Fine pitch screws (metric)	CLASS			
	6.6	8.8	10.9	12.9
M8 x 1	15 (11)	26 (19)	36 (26.5)	44 (32.5)
M10 x 1.25	30 (22)	52 (38)	74 (54)	88 (65)
M12 x 1.25	51 (37.5)	91 (67)	127 (94)	153 (113)
M14 x 1.5	81 (60)	143 (105)	201 (148)	241 (178)
M16 x 1.5	120 (88)	214 (158)	301 (222)	361 (266)
M18 x 1.5	173 (127)	308 (227)	433 (319)	520 (384)
M20 x 1.5	242 (178)	431 (318)	606 (447)	727 (536)
M22 x 1.5	321 (237)	571 (421)	803 (592)	964 (711)
M24 x 2	411 (303)	731 (539)	1028 (758)	1234 (910)
M27 x 2	601 (443)	1070 (790)	1504 (1110)	1806 (1333)
M30 x 2	832 (614)	1480 (1090)	2081 (1535)	2498 (1843)

#### Hazard bar

The hazard bar has been included with the equipment of the machine for safety reasons, to indicate the space occupied by the mower at work. For working, position the hazard bar in position (A1, Fig. 56) and lock it in place with the screw (B). For transport put it in position (A2).



#### Lubrification

WARNING: • Firmly block sickle bar on horizontal surface.



- Always keep oils and greases well away from children's reach.
- Always thoroughly read the warnings and precautions indicated on the containers. Avoid contact with the skin.
- · Always thoroughly and fully wash after use. The utilized oils should be treated in compliance with the current anti-pollution laws.

#### Routine maintenance

• During the first working hours, check that the screws are tight (Fig. 70).

#### **Every 8 work hours**

- Grease points (A, B and C, Fig. 57).
- Grease the cardan shaft and its telescoping parts.
- Adjust belt tension periodically by adjusting nut (A, Fig. 58). Check tension via the viewing panel on the belt guard. Belt slack must not exceed 1 inch. It is essential to close the inspection hatch with the relative lid after the belts have been examined.

#### **Every 50 work hours**

 Check the tightness of the connecting rod bolts regularly (Fig. 59).

#### Periodically (6 months)

• Grease point (A, B and C, Fig. 57).

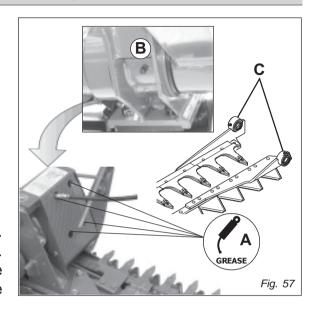
#### After each mowing

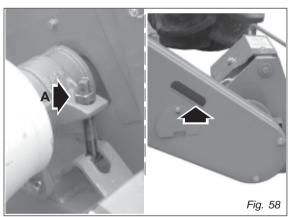
 Clean and oil the mowing bar blades according to the instructions in the chapter entitled: "Cleaning

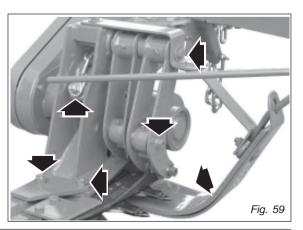
and oiling the cutters".

#### Lubricants

- It is advisable to use SAE 85W/140 OIL or equivalent for the reduction unit (or gear box) and side transmission.
- It is advisable to use GR MU EP 2 GREASE or equivalent for all greasing points.





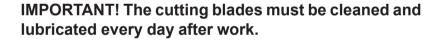


# Cleaning and oiling the sickle bar

#### **DANGER**

Cleaning and oiling are very dangerous operations. Always comply with the following instructions:

- Lift the implement by means of the lift links in a flat place where it cannot slip;
- Operate the mowing bar, checking that there are no persons or animals in the vicinity;
- Brake the tractor and make sure it is unable to move:
- Wash the sickle bar with a jet of pressurized water, standing at least one and a half meters away from the implement;
- Switch off the tractor, remove the starter key and disengage the pto;
- Check the condition of the cutters;
- When the mowing bar is dry, lubricate the cutting blades with very viscous oil;
- Operate the sickle bar for a few seconds, checking that there are no persons or animals in the vicinity;
- Switch off the tractor, remove the starter key and disengage the pto;
- Fit the guards over the cutters and outer skid (C, Fig. 60)

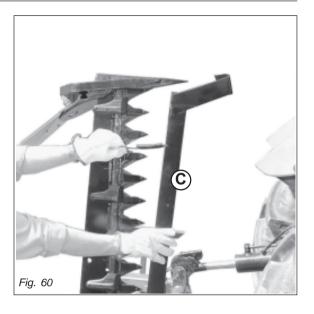


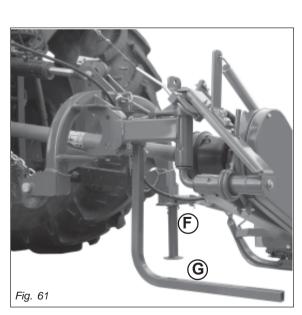
# Storage

It is advisable to proceed in the following way at the end of the season or if the machine is to remain inactive for a long period of time:

- Treat the implement in compliance with the instructions given in the chapter entitled: "Cleaning and oiling the cutters".
- Carefully check for any damaged or worn parts and replace these as necessary.
- Fully torque all screws and bolts.
- Apply a little lubricant to the unpainted parts.
- Protect the entire implement with a cover.
- Lastly, store the implement in a dry place where it cannot be tampered with by unauthorized persons; the mowing machine must be set-up on flat and compact ground, supported by the relative supports (F and G, Fig. 61).

Careful compliance with these instructions will be all to the advantage of the user who will be sure to use an implement in perfect conditions when work begins again.





# Checking the clearance tolerance



#### **ATTENTION**

It is absolutely essential to disengage the tractor pto, lower the mowing machine, switch off the tractor, ensure that this is at a complete standstill and remove the key before servicing, adjusting the implement for work. All assembly operations must be carried out on a work bench.

Before activating the mower, one must periodically check that the blade holder rod (D, Fig. 62) and the upper blade guides (E) are coupled properly.

After many hours of work, wear of the blade guide material may be seen, and this will cause an increase in the coupling tolerance with the tooth blade.

An excessive coupling tolerance between the parts results in material entering between the same, causing likely breakage of the cutting blades or parts of them, also compromising the quality of the cut.

In contrast, a reduced coupling tolerance generates a strong sliding friction of the blade with consequent breakage of the blade holder rod, the blade head or other elements of the hinge (connecting-rod assembly).



The check must be carried out on all blade guides (Fig. 64) using a ~0.04 inches (1 mm) thick shim plate, supplied.

\*\*Always use personal protective equipment.\*\*

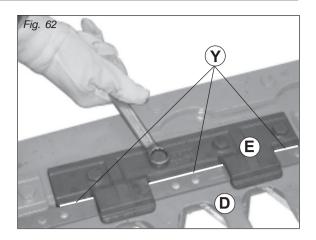
The tolerance allowed for optimal coupling is determined by the insertion of a single plate (Z1, Fig. 65).

If a plate does not fit between the teeth blade and the blade guide one must add a shim (Fig. 62-63);

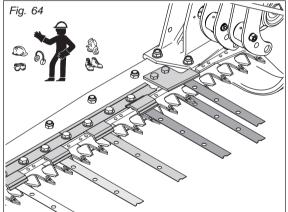
If instead two coupled plates can be inserted (Z2, Fig. 65) one must remove a shim to restore the optimal coupling tolerance conditions.

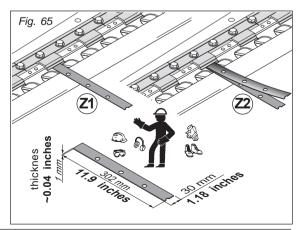
#### CAUTION

When fitting the blade guide it is important to leave a coupling tolerance of about ~0.04 inches (1 mm) with the sections holder rod (Y, Fig. 62).







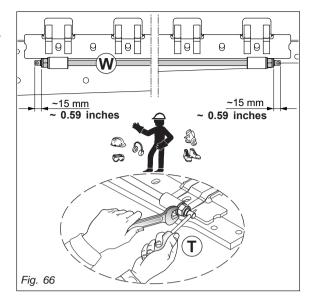


#### **SERVICE**

Only with some models, before disassembling the blade guides (E, Fig. 62), one must previously remove the finger blade tie rod (W) in Figure 66. Use a punch to facilitate the operation (T, Fig. 66).

Subsequently, only after having made sure that the blade guides have been blocked, one must tighten the finger blade again via the nuts, located at both ends, keeping to the 0.59 inches (15 mm) shown in Figure 66. Use a punch to facilitate the operation (T, Fig. 66)

This measurement allows to maintain the cutting bar in traction, without bending it downwards.





IMPORTANT: When replacing the teeth or the tooth-holding bar, carry out the check described above. When required, put back the shims to avoid striping or damage.

# Extra maintenance



# **ATTENTION**

It is absolutely essential to disengage the tractor pto, lower the mowing machine, switch off the tractor, ensure that this is at a complete standstill and remove the key before servicing, adjusting the implement for work. All assembly operations must be carried out on a work bench.

<u>During all maintenance operations on moving parts, it is important to grease all the points indicated in Figure 57 before starting the machine.</u>

# Replacing the cutting blades



# **ATTENTION**

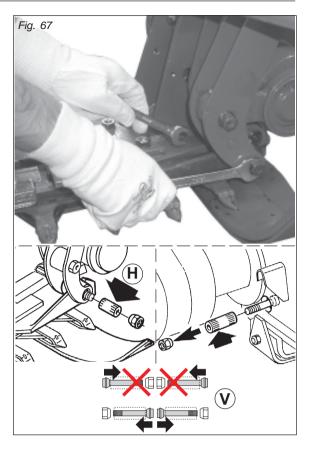
The expansion pins must be reassembled as shown in Figure 67 (V), by tightening the screw and the conical nut with a torque not exceeding 30 Nm. Every time the expansion pins are disassembled and reassembled, one must grease the blade head concerned (C, Fig. 57).

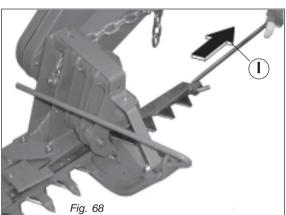
# Replacement of section-holding bar (L, fig. 69)

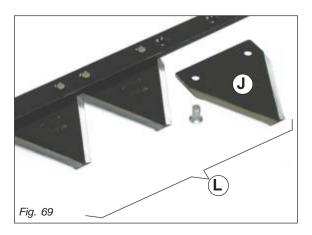
- With the implement resting on the ground, open the mowing bar.
- Remove the expansion pin (H, Fig. 67) and pull out the section-holding bar (Fig. 68) with the hooking tie rod (I, Fig. 68).
- Insert the new section-holding bar and lock it in place with the expansion pin. Lubricate the cutters with very viscous oil during the assembly phase.

# Replacement of sections (J, fig. 69)

- With the implement resting on the ground, open the mowing bar.
- Remove the expansion pin (H, Fig. 67) and slide out the section-holding bar (Fig. 68).
- Remove the damaged section using a pin punch (7, Fig. 4 on page 6).
- Rivet a new section with the rivets provided (J, Fig. 69).
- Insert the section-holding bar and lock it in place with the expansion pin.









# **ATTENTION**

It is absolutely essential to disengage the tractor pto, lower the mowing machine, switch off the tractor, ensure that this is at a complete standstill and remove the key before servicing, adjusting the implement for work. All assembly operations must be carried out on a work bench.

# Replacement of bar holding removable tooth

- With the implement resting on the ground, raise the mowing bar and secure it with the hooking tie rod.
- Unscrew all the tooth fastening screws (Fig. 70).
- Remove all the teeth (Fig. 71).
- Remove the expansion pin and slide out the bar.
- Insert the new tooth-holding bar and lock it in place with the expansion pin.
- Reposition the teeth by fixing them with new screws and washers.

# Replacement of removable tooth

- With the implement resting on the ground, raise the mowing bar and secure it with the hooking tie rod.
- Unscrew the screws of the tooth to be replaced (Fig. 70).
- Pull out the tooth (Fig. 71) and replace it with a new one, blocking it with new screws and washers. For this it would be advisable to use a torque wrench, respecting the values of 30 Nm.

# Replacement of belts

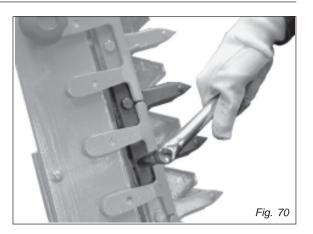
- Unscrew the screws (O, Fig. 72) and remove the protective casing.
- Loosen the belt tensioner completely (P, Fig. 72).
- Replace the worn belts with new ones.
- Put these at the optimum tension using the belt tensioner. Belt play should not exceed 1 inch.
- Put the protective casing back in position and fix it in place with the screws (O, Fig. 72).

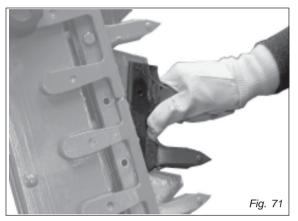
# Replacement of pulleys

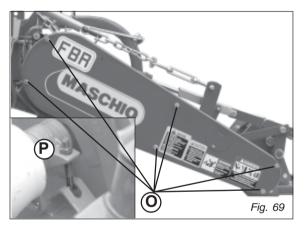
Notes for replacement of pulleys, if necessary.

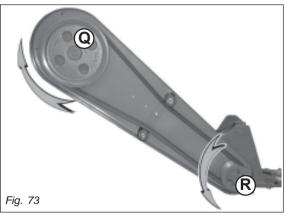
- Unscrew the screws (O, Fig. 72) and remove the protective casing.
- Loosen the belt tensioner completely (P, Fig. 72).
- · Remove the belts.

To replace the driving pulley (Q, Fig. 73), turn it clockwise; viceversa, turn the driven pulley (R, Fig. 73) counterclockwise.



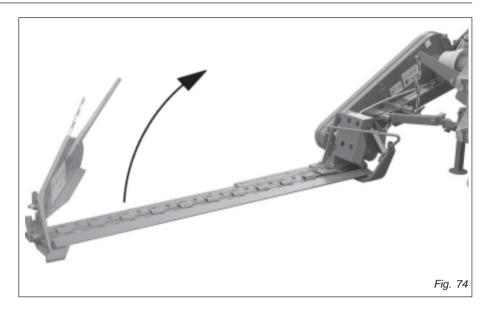






# TRANSPORT ON THE ROAD

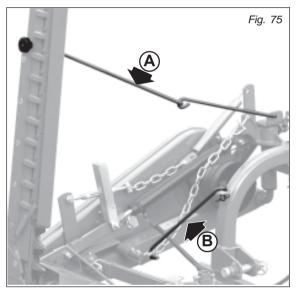
# Transport on road

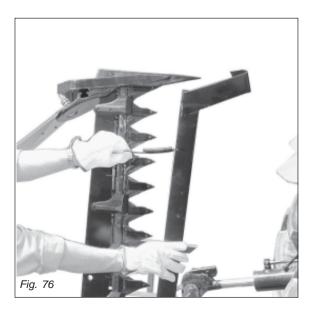


For transport, adjust and fix the chains of the side lifting arms of the tractor; lift the mowing bar (Fig. 74); secure it with the hooking tie rod (A, Fig. 75); slide in the safety hook (B, Fig. 75); cover the cutting blades and the outer mowing bar support with the guards provided (Fig. 76); lift the implement; put the hydraulic lifting command lever in the locked position.

# **Transport on Road**

- When driving on public roads, be sure to follow the highway code of the country involved.
- Any transport accessories must be provided with suitable signs and guards.
- It is very important to remember that road holding capacity as well as direction and braking capacity can be influenced, sometimes con-siderably, by equipment being either carried or towed.
- When negotiating curves, be aware of the variation in centrifugal force exerted in a position other than that of the center of gravity, with and without the equipment in tow. Also pay greater attention on sloping roads or ground.
- For displacements beyond the work area, the equipment must be placed in the transportation position.
- When the dimensions of carried or partially-carried equipment conceal the tractor's signalling and lighting devices, these must also be installed on the equipment itself, in conformity with regulations of the highway code of the country involved. When in operation make sure that the lighting system is in perfect working order.





# **DEMOLITION AND DISPOSAL**

# **Demolition and disposal**

This operation is to be carried out by the customer.

Before demolishing the machine, you are advised to carefully check its physical condition and ascertain whether there are any parts of the structure that may be susceptible to structural collapse or breakage during demolition.

The customer should operate in compliance with the environment protection laws in force in his/her country.



### **CAUTION**

The machine demolition operations should be carried out by skilled personnel only, equipped with suitable protective clothing (safety footwear and gloves) and auxiliary tools and equipment. All the disassembly operations for demolition should be carried out with the machine stopped and detached from the tractor.

Before demolishing the machine, you are advised to render harmless all the parts that may be a source of danger and therefore:

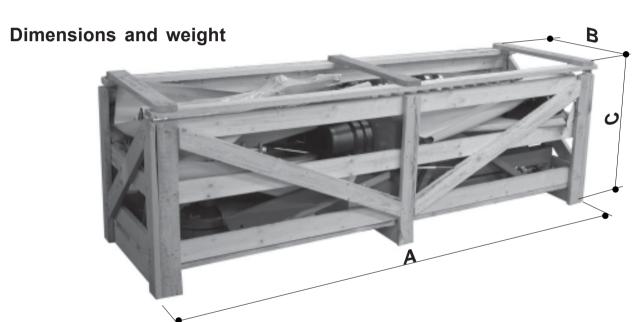
- · scrap the structure using specialized firms,
- remove any electrical apparatus according to the laws in force,
- collect oils and greases separately, to be disposed of through specialized firms, in accordance with the regulations of the country in which the machine was used.

When the machine is demolished the identification label must be destroyed together with this manual.

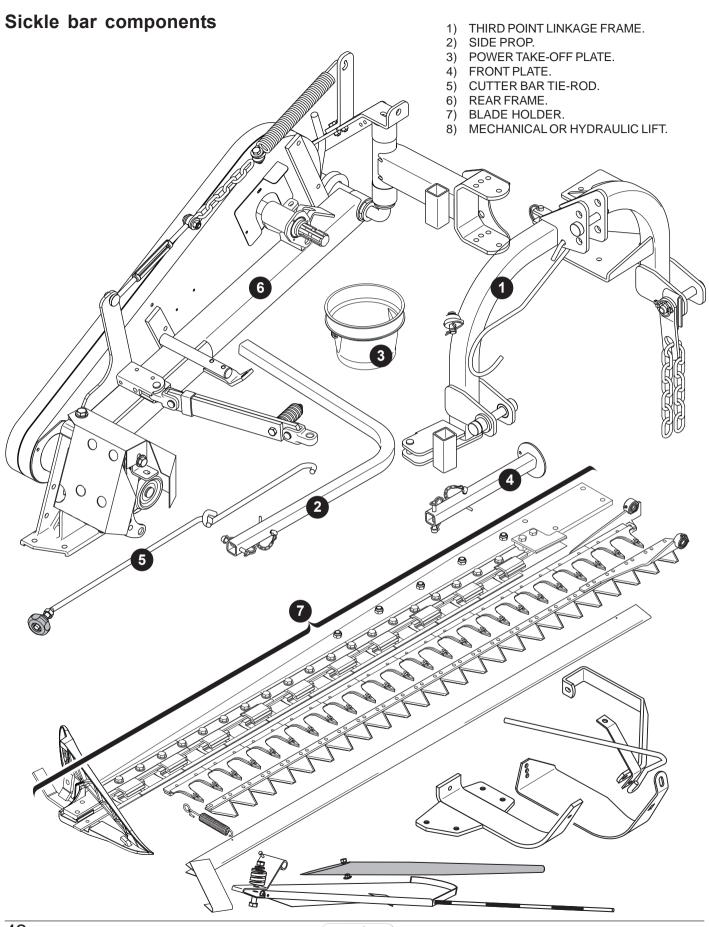
# **Foreword**

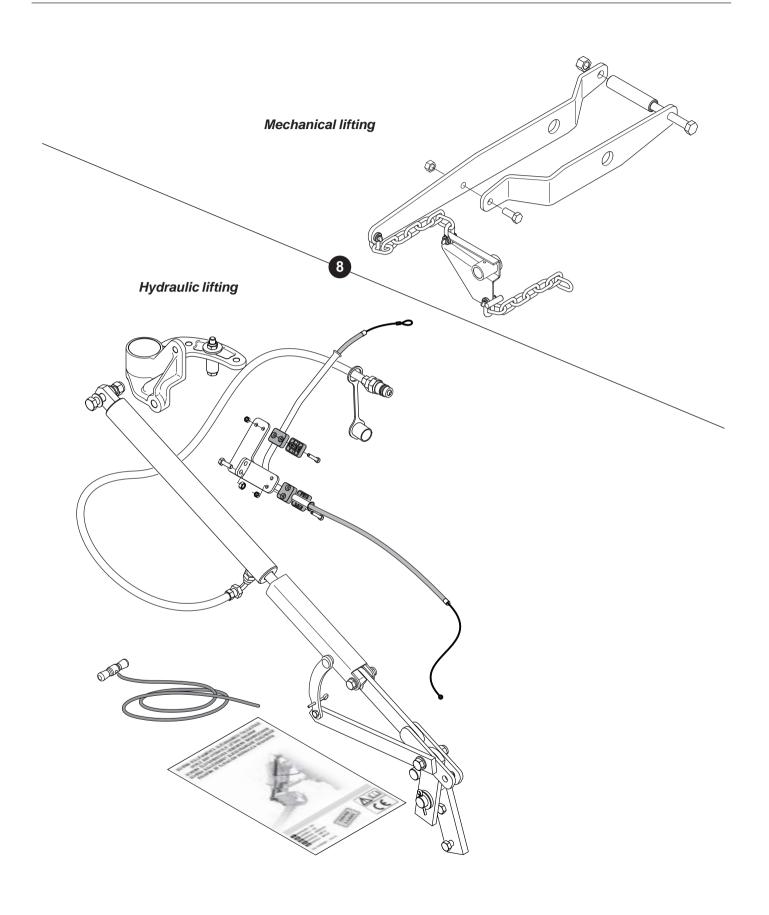
This chapter describes the phases involved in assembling a crated mower. When handling and assembling the unit, and subsequently during use and maintenance, always use suitable personal protection devices (A): always wear suitable clothing and the indicated protections. See the operating manual supplied with the unit for indication of the symbols used in this manual. When handling the unit, lift it by hooking up the special attachments and using a suitable hoist or crane rated for the weight of the unit. This operation is quite dangerous and must only be performed by prepared, responsible personnel. The machine weight is indicated on the ID label. The hook-up points are identified by the "hook" symbol (B). When moving the unit, make certain that all protections and safety devices are in place.

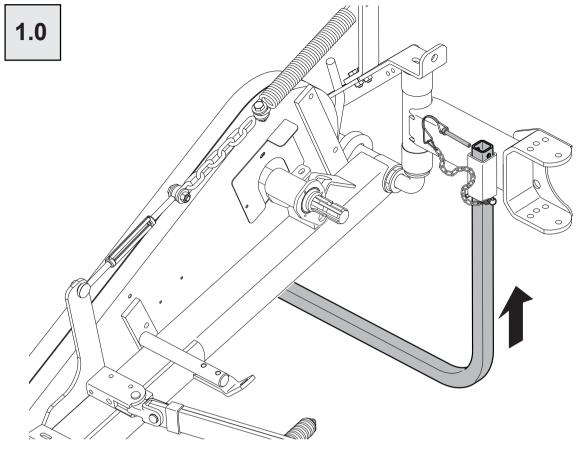


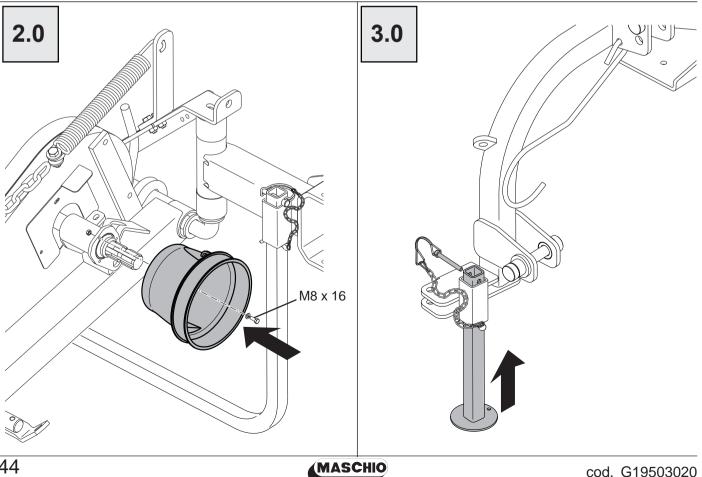


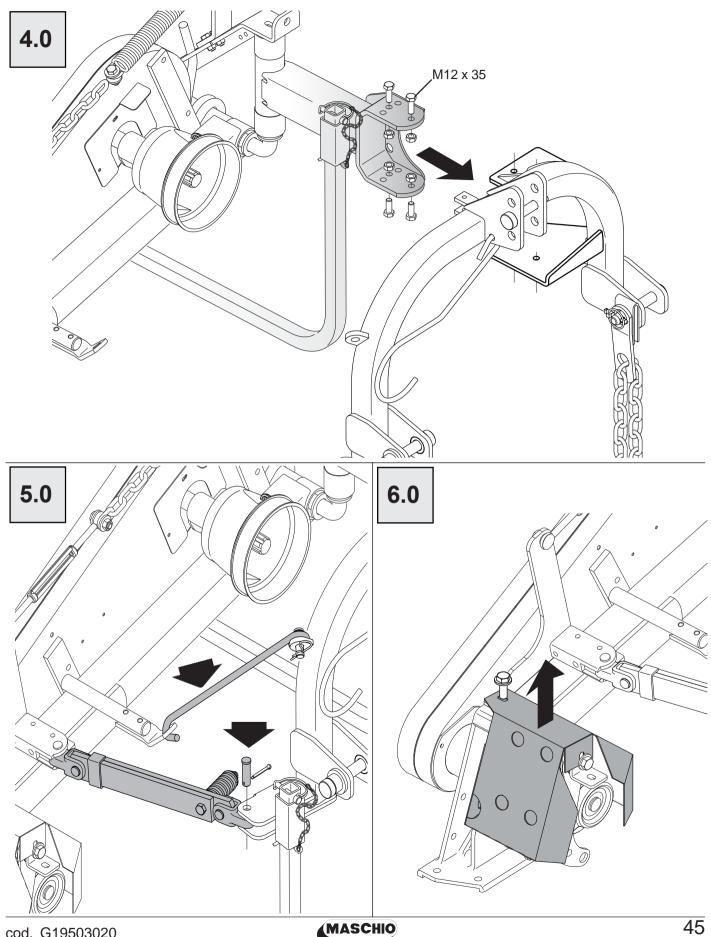
TYPE	A (cm - <i>inch</i> )	B (cm - <i>inch</i> )	C (cm - <i>inch</i> )	(kg - <i>lb</i> )
FBR <i>Plus</i> 175 (X2)	234 - 92	70 - 27.5	74 - 29	520 - <i>114</i> 5
FBR <i>Plus</i> 205 (X2)	234 - 92	70 <i>- 27.5</i>	74 - 29	560 - 1235
FBR <i>Plus</i> 235 (X2)	275 - 108	73 - 28.7	72,5 - 28.5	600 - <i>1320</i>
FBR <i>Plus</i> 175 (X5)	234 - 92	140 - <i>55</i>	100 - 39	1200 <i>- 2640</i>
FBR <i>Plus</i> 205 (X5)	234 - 92	140 - <i>55</i>	100 - 39	1300 <i>- 2860</i>
FBR <i>Plus</i> 235 (X5)	234 - 92	140 - <i>55</i>	100 - 39	1400 - <i>3085</i>

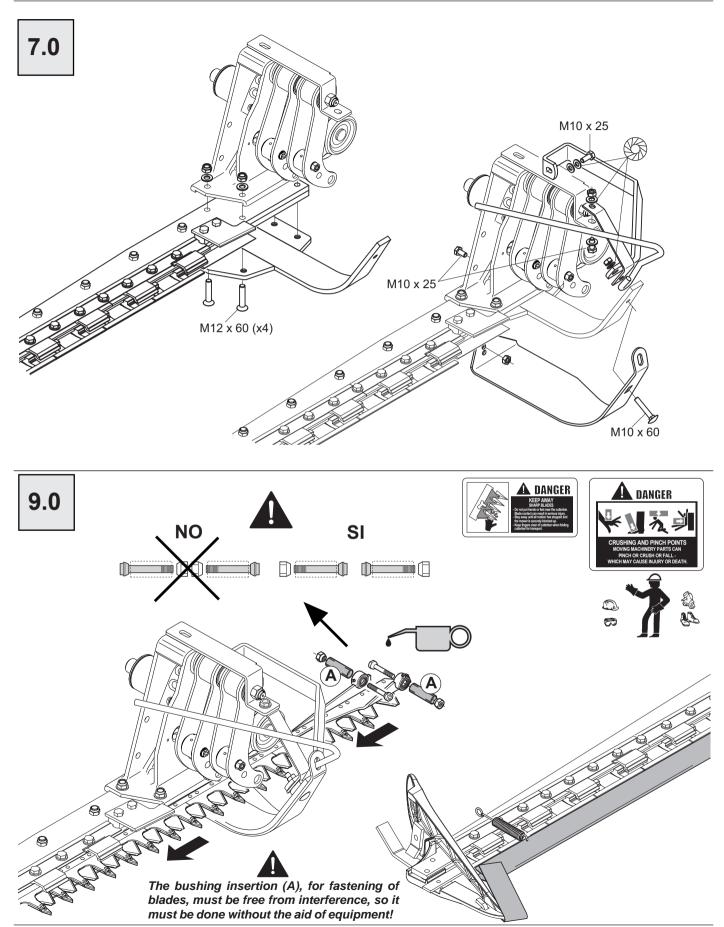


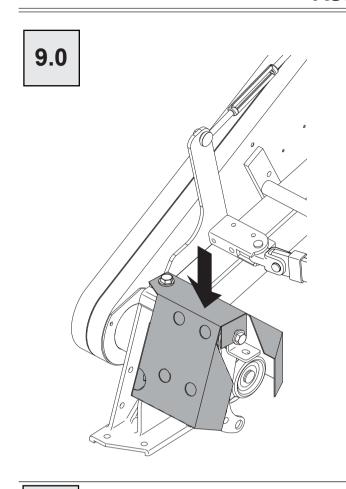


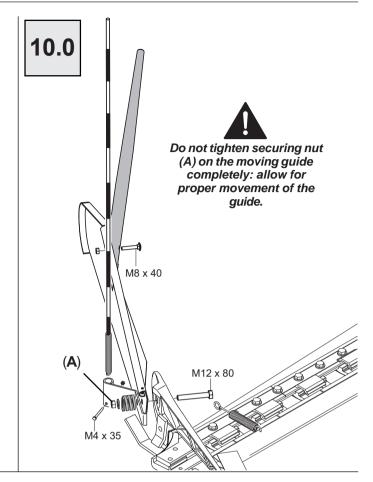


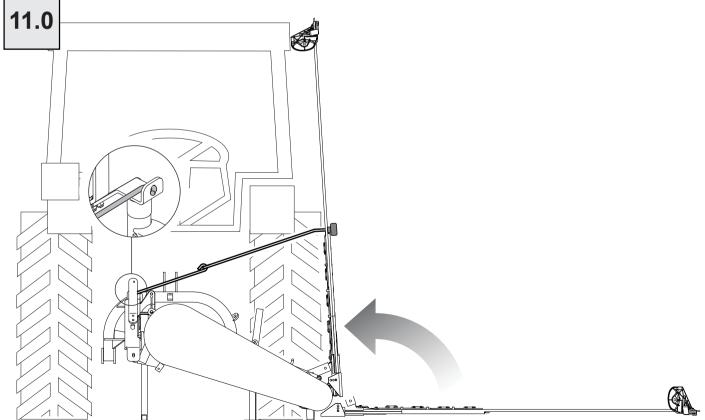


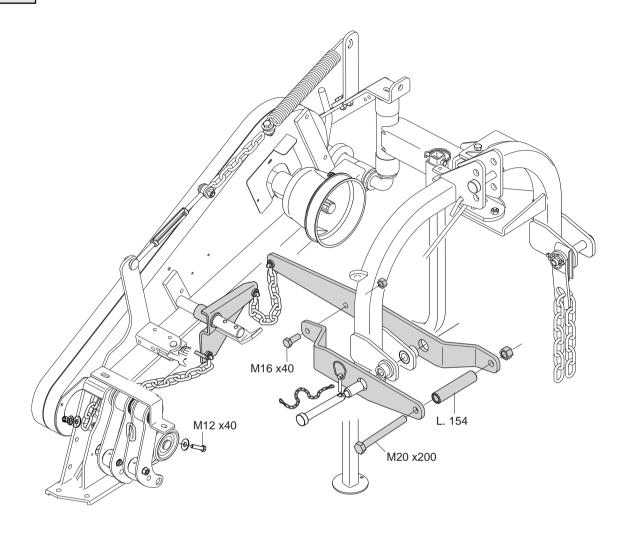












# Spare parts

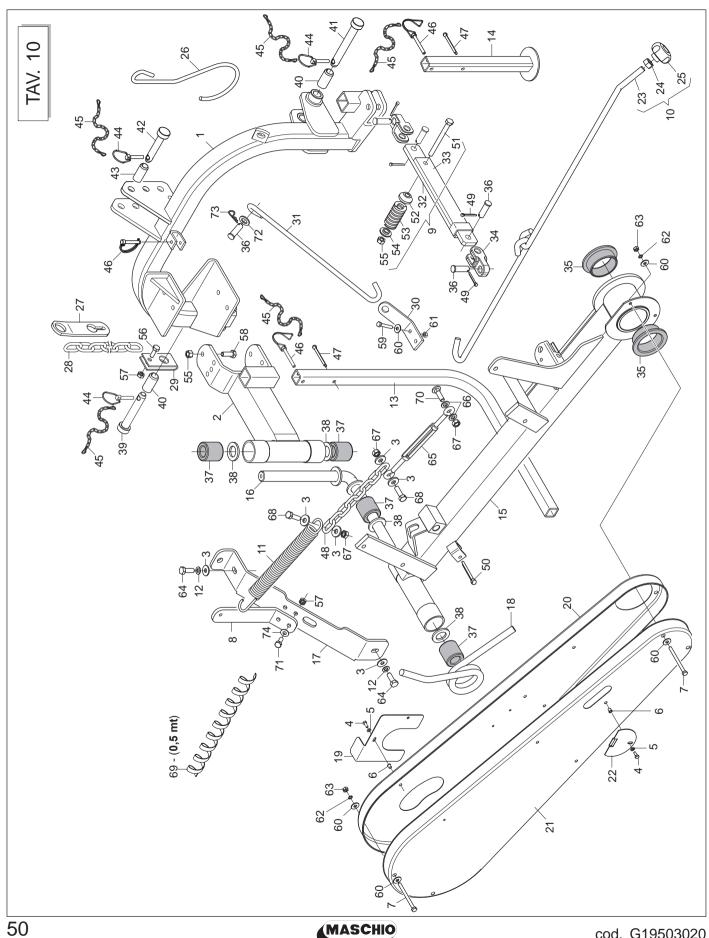
Orders must be transmitted through our area dealers and should always include the following indications:

- Type, model and serial number of the machine. These data are punched on the data plate with which every implement is equipped.
- Code number of the required spare part. This will be found in the spare parts catalogue.
- Description of the part and required quantity.
- Means of dispatch. If this item is not indicated, the Manufacturer, while dedicating particular care to
  this service, shall not be held responsible for delays in delivery caused by cases of force majeure.
  Transport expenses shall always be at the consignee's charge. The goods travel at the purchaser's
  risk and peril even when sold ex destination.

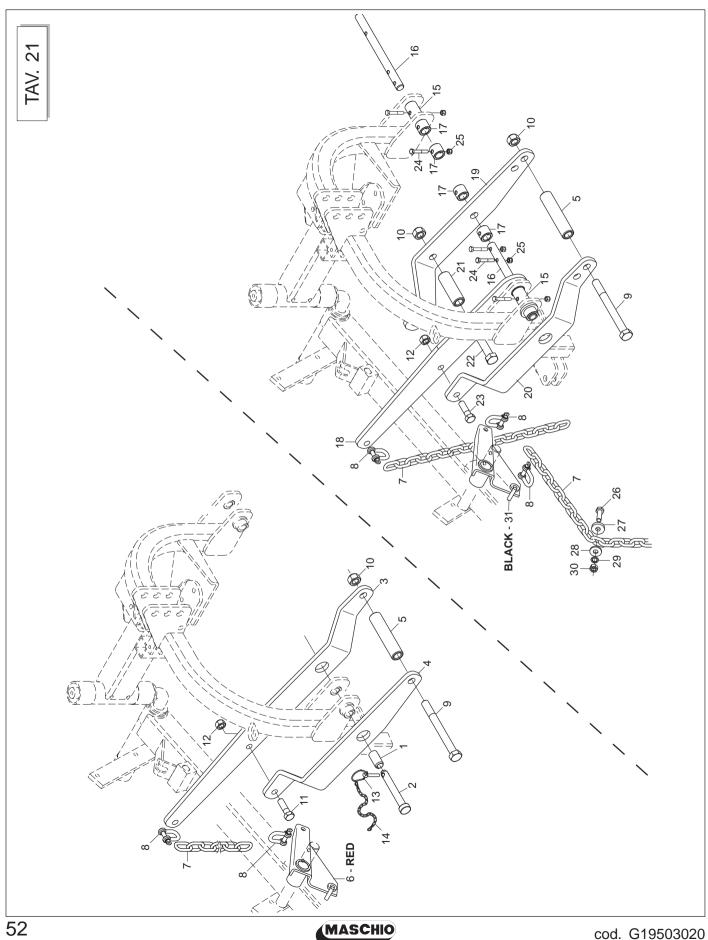
**NOTE**: The terms Right or Left indicated in the descriptions refer to the implement when viewed from the rear side.

# Table index

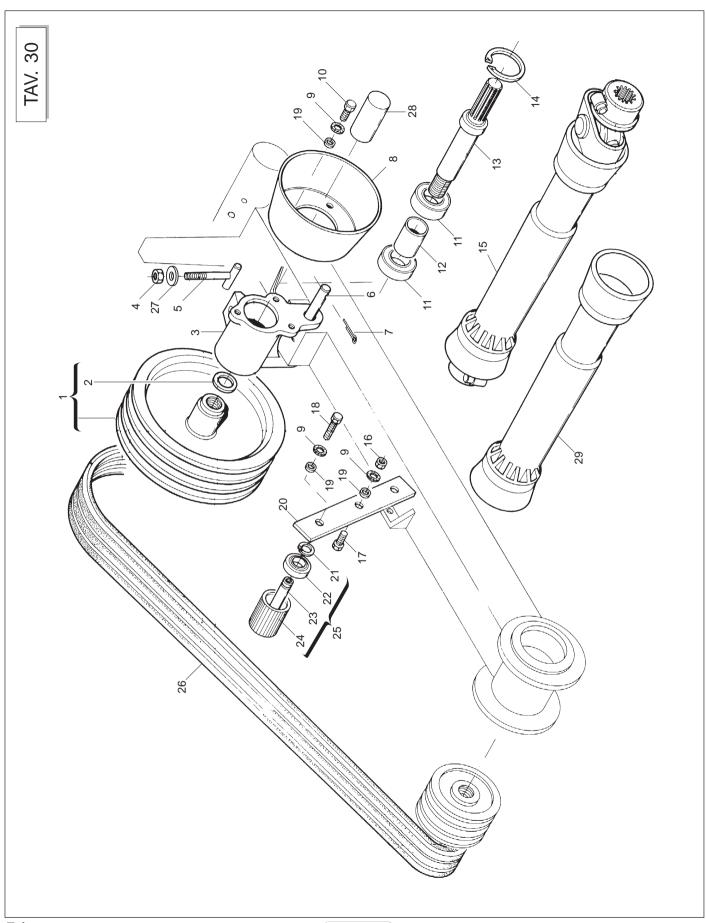
Frame	Tav. 10 pag. 50
Mechanical lifting system	Tav. 21 pag. 52
Transmission	Tav. 30 pag. 54
Hinge	Tav. 41 pag. 56
Cutting blade (tooth riveted)	Tav. 52 pag. 58
Cutting blade(removable tooth)	Tav. 62 pag. 60
Hydraulic lifting system	Tav. 71 pag. 62



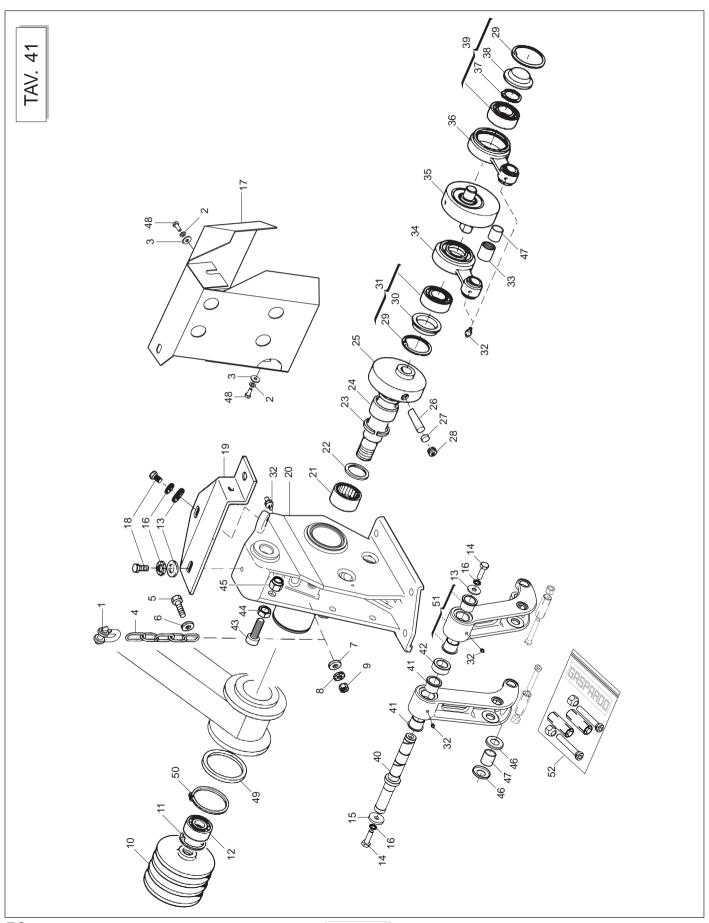
	_				
SOS.	Cod.	Description	Pos.	Cod.	Description
_	G12217592	ASS.3RD POINT FRAME '09	38	G20970067	WASHER 54X5X32
7	G12217821	JOINT FBR	39	F20100047	BOLT D22 L108 C43 ZN
8	G20970035	WASHER 32X4X13	40	G21010042	BUSHING 12. POINT
4	F01020403	BOLT M6X1X16 U5739 8.8 ZN	41	F20100115	GASPARDO PIN 22X144 ZN
2	F01410037	PLANE WASHER D.6	42	F20100035	BOLT D19 L86 C43 ZN
9	F02250680	THREADED INSERT M6X13 ZN	43	G12217660	THIRD POINT BUSH
7	F01020092	BOLT 8 X110 5737 8.G GALVANIZ.	44	F02200507	SNAP PIN D9 B/83 ZN
8	G12219140	SPRING LINK PLATE	45	G13812311	CHAIN WITH SPRING CATCH
6	G12218170	TRIP TIE-ROD	46	F02200562	SNAP PIN D.8X 70 ZN
10	G12219200	TIE CUTTING BAR FBR PLUS09	47	F02200272	SPLIT PIN 10 X60 1336 GALVAN.
11	G16214150	ROW-MARKER SPRING ZN	48	G12219180	CHAIN D.8 L.255 ZN
12	F01430071	WASHER D12 DIN 6798 D.INT.ZN	49	F02200195	SPLIT PIN 4 X30 U1336 ZN
13	G12217810	PROP TUBE	20	F02200260	SPLIT PIN 8 X60 1336 ZN
4	G12217650	FRONT PROP	51	F01020176	BOLT M12X1,75X130 5737 8.8 ZN
15	G12217801	ASS.HINGE HOLDER ARM '09	52	G21120301	CONE DISCONNECT FB940
16	G21030010	ARMARTICULATION	53	F02400013	GAS SPRING 38X75 SPEC.
17	G12218190	JUNCTION ELEMENT FBR PLUS	54	G22310047	REAR ARM BUSHING DP
18	G21120319	HINGE ARM SPRING FB940	22	F01230058	NUT M12X1,25 D982 8 ZN
19	G12236471	PDP GUARD	26	F01020476	X 30 5739
20	G21120215	INNERPROTECTION CASE FB/S	22	F01220033	NUT M10X 1,5 D980 8 ZN
21	G12236420	OUTERPROTECTION CASE FB/S	28	F01020512	BOLT M12X1,75X35 5739 8.8 ZN
22	G21120217	WINDOW COVER CONTR. FB/S	29	F01020072	BOLT M8X1,25X50 U5737 8.8 ZN
23	G12219160	BLADE TENSIONER ASSEMBLY	09	G20970140	WASHER 20X2X8,5
24	F01200306	NUT M14X2	61	F01230034	SELF LOCK.NUT M8X1,25 D982 8ZN
25	F06220023	4-LOBE HANDWHEEL M14	62	F01430059	WASHER M8 8,4X15X0,8 U8842J ZN
26	F20120400	SHAFT HOOK SUPPORT	63	F01200244	NUT M8 X1,25 U5588 6.8 ZN
27	G21030007	TRACTOR COUPLING PLATE	64	F01020510	BOLT M 12X30
28	G21030035	CHAIN L.900	65	F02250708	TIE-ROD 2-EYES M12 GALVANIZED
29	G21030034	FRAME COUPLING	99	F01410076	WASHER D12 U6592 ZN
30	G21120308	SAFETY HOOK COUPLING FB	29	F01220048	NUT M12X1,75 D980 8 ZN
31	G12217440	FRAME LINK HOOK ZN	89	F01020152	BOLT M12X1,75X40 U5737 8.8 ZN
32	G12218160	SLIDING ROD	69	F05150484	SPIRAL GUARD D.27-32
33	G12217761	SNAP TIE ROD GUIDE	20	F01060120	BOLT M12X1,75X40 U5732 8,8 ZN
34	G12217950	FORK FOR TRIP TIE-ROD	7.1	F01020479	BOLT M10X1,5X35 U5739 8.8 ZN
35	G66248064	HINGE ARM BUSHING FB.	72	F01410100	WASHER M16 17X30X3 U6592 ZN
36	F20100504	U BOLT PIN D.16X45	73	F02200363	SPRING SPLIT PIN 3X 62 ZN
37	G21030027	RUBBER BLOCKS	74	F01420060	WASHER 10,5X30



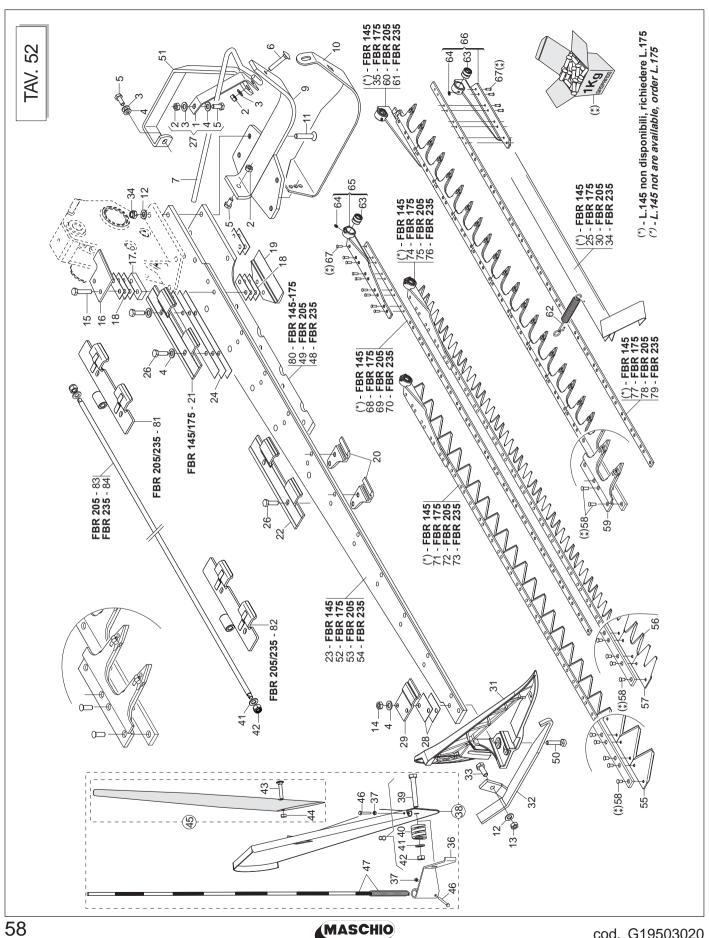
TAV. 21	
Description	
Cod	
Pos	
MECHANICAL LIFTING SYSTEM Cod.   Description	BUSHING 12. POINT GASPARDO PIN 22X144 ZN LONG ARM SHORTARM SHORTARM ASHA SIDE CHAIN L.600 CLEVIS-36-GALVANISED-ART. BOLT M20X200 U5737 8.8 ZN NUT M20X 2.5 D980 8 ZN BOLT M16X240 U5739 8.8 ZN NUT M16X 2 D980 8 ZN BOLT M16X240 U5739 8.8 ZN NUT M16X 2 D980 8 ZN SNAP PIN D9 B/83 ZN CHAIN WITH SPRING CATCH CENTRAL BUSHING PIN 1-2 CENTRAL BUSHING PIN 1-2 CENTRAL ARM ARM-INNER SHORTARM BUSHING 2 1,1 X33,7 X104 BOLT M16X2X55 U5737 10.9 ZN BOLT M12X550 U5737 8.8 ZN SELF LOCK.NUT M8X1,25 D982 8ZN BOLT M12X45 WASHER 35X8X13 WASHER 32X4X13 WASHER 2X4X13 WASHER 2X4X13 WASHER BUZDIN 6798 D.INT.ZN NUT M12X1,75 U5588 6.8 ZN LIFTER ROCKER
WECHANICAL Cod.	G21010042 F20100115 G12217600 G12217610 G12217620 G21120006 G21120007 F02250667 F01020323 F01020323 F01020323 F01020323 G12219280 G12219280 G12219280 G12219320 G12219330 G1221930 G12219330 G12219330 G12219330 G12219330 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219 G12219
Pos.	- 2 E 4 G 0 L 8 0 L C C C C C C C C C C C C C C C C C C



	TRANSMISSION	NOIS			TAV. 30	30
Pos.	Cod.	Description	Pos.	Cod.	Description	
_	G21120117	3 GROOVE DRIVING PULLEY				
7	G20970129	WASHER 48X3X30-5				
က	G21030015	PTO SUPPORT				
4	F01200306	NUT M14X2				
2	G21120318	BELT REGISTER ASSY. FB940				
9	G21120013	INTERM. TRANSM. SUPP. PIN				
7	F02200227	SPLIT PIN 5 X30 1336 GALVAN.				
∞	F05150403	POWER TAKE-OFF PROTECTION HOUS				
6	F01430059	WASHER D8 DIN 6798 D.INT.ZN				
10	F01020432	BOLT M 8X16				
7	F04010174	BEARING 6206 2RS				
12	G21030020	SPACER				
13	G21120152	POWER TAKE-OFF FB				
14	F02050392	SEEGER RING E. 62X 2 U7437 C70				
15	F08011931	UNIVERSALJOINT B3 1200 AM				
16	F01200244	NUT M8				
17	F01060043	BOLT 8 X35 5732 4.6 GALVANIZED				
18	F01020440	BOLT M8 X25 5739 8.8 ZN				
19	G20970140	WASHER 20X2X8,5				
20	G21120226	BELT TIGHTENER ROLLERS SUPPORT				
21	F02050056	SEEGER RING E. 17X 1 U7435 C70				
22	F04010161	BEARING 6203				
23	G21120119	3 GROOVE P.TIGHTEN. PIN				
24	G66248107	BELT TIGHTENER L.70 FB				
25	G21120121	TIGHTENER ROLLER 3G. CP				
26	F06010240	BELT- B 93				
27	F01410088	WAS.M14 15X 28X2,5 U6592 ZB				
28	G19002131	POWER TAKE-OFF PROTECTION HOUS				
29	F08011933	SAFETY GUARD AM				



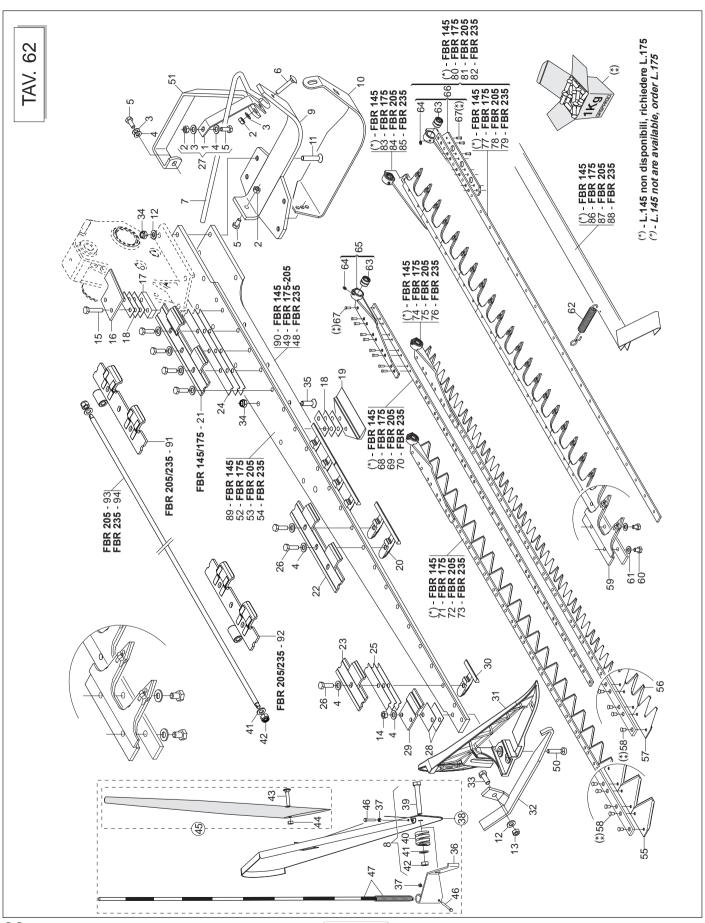
FOZZ50667         CLEVIS. 386-GALVANISED-ART.         36         C2120028           FOZZ50667         CLEVIS. 386-GALVANISED-ART.         39         G21120024           FO1430036         FLAT WASHER D6 DIN 6738 D.INT.GALV.         40         G21120024           G21120007         ARASHER D6 DIN 6738 D.INT.GALV.         40         G21120224           G20370007         ARASHER 35X8X13         44         F0120225           G20370035         WASHER 32X4X13         44         F0120022           G20370037         WASHER 32X4X13         44         F0120022           F01200293         WASHER DINT.ZN         46         G2037063           F01200293         NUT MIZX1,7x U5588 8 ZN         47         G2112013           F02102071         WASHER ING DE BE 6 6206 Z         49         F0120032           F01420089         BCLT MIXX1,7x U5588 8 ZN         45         F0120032           F01420080         WASHER ING DE BE 6 6206 Z         49         F0120032           F01420060         WASHER IN U5530         BCT 10010 NG 780 Z         50         F02120070           G17228600         WASHER IN US DHK 5025         F0401038         BCALVANIZED         50         F02120070           G1722860         HINGE         F0401038         BC	Pos	HINGE	Description	Pos	Cod	Description	
POLIZOROR         WASHER BORNATION OF ARRAMSHER GON THROUGH         C21120154           F01420036         MASHER BORN MASHER GON THROUGH         30         G21120154           F01420036         FLAT WASHER GON THROUGH         40         G21120254           F01120007         ARM SIDE CHAIM L. 600         41         G21120252           G20970035         WASHER SXXX13         44         F0120025           F01200293         WASHER DYLD IN TRANKING         45         F0120026           G20970035         WASHER DYLD IN FORD LLEY         47         G2112013           F01200293         MASHER DYLD IN FORD LLEY         47         G2112013           F01200293         SEEGER RING E. 62X 2 U7437 C70         48         F01020403           F01420069         SEEGER RING E. 62X 2 U7437 C70         48         F01020403           F01420069         SEEGER RING E. 62X 2 U7437 C70         48         F01020403           F01420069         WASHER II X. 33 X. 5         F0102047         F0102047           G1223649         WASHER II X. 33 X. 5         G2112016         G2112016           G12120224         BOLT MIOLE-ROS SYSTEM GUARD         52         G2112016           G1212024         BOLT MIOLE-ROS SYSTEM GUARD         52         G2112016	,	E02260667	Fav Georgians	000	C24120020	OIL IG NOITCEAN	
FOLT-2005	- 0	F02230867	WASHED DE DIN 6708 D INT GALV	0 0	G21120028	KIT, EXT CONN ROD BEARING FB	
621120007         ARM SIDE CHAIN L 600         41         G21120265           F01020528         BOLT MIZX1,75X40 U5739 10 9ZN         42         G21120225           G20970007         WASHER 33X8X13         44         F01202034           F01430071         WASHER 32X4X13         45         F01202066           F01200233         WASHER 32X4X13         46         G20970619           F01200233         WASHER 02LDN 6738 D.INTZN         46         G20970619           G21120118         SAGOOVE DRIVEN PULLEY         47         G21120137           F02005032         SEEGER RING E. 62X 2 U7437 C70         48         F01202063           F04120060         WASHER 10,5X30         50         F02050642           F01020473         WASHER 11 X 35 X 5         F0120070           F0120470         WASHER 11 X 35 X 5         F0120070           F0120470         WASHER D10 DIN 6738 D.INTZN         52         G21120170           F0120473         CONNECTING EXDS SYSTEM GUARD         52         G21120170           F0120470         WASHER D10 DIN 6738 D.INTZN         8         G21120170           F01020473         GNONECTING DHK 8025         F0401040         SHOLLDER RING WR 45         F0401040           F04010409         SHOLLDER RING EW 5	1 K	F01420036	FLAT WASHER 6-6X 18X2 6593 ZN	40	G21120224	HINGE BLADE SHAFT - ASSY.	
F01020528         BOLT M1ZX1,75X40 U5739 10.9ZN         42         G21120225           G209700077         WASHER 35X8X13         44         F01040162           G20970035         WASHER 32X4X13         44         F01040162           G2012011         WASHER R3ZX4X15         45         F01202066           F01200293         NUT M1ZX1,75 U5588 6.8 ZN         46         G20970619           G21120118         "AGROOVE DRIVEN PULLEY         47         G2112013           F0401017         BEARING DS DOES B16 6206 Z         49         G20970023           F0401017         BEARING DS DOES B16 6206 Z         49         G20970023           F01020479         BOLT M10X1,5X35 U5739 8.2 N         51         G21120173           F01020479         BOLT M10X1,5X35 U5739 8.2 N         52         G2112016           F01020479         BOLT M10X1,5X35 U5739 8.2 N         51         G2112016           F01020479         WASHER D1 DIN 679B DINTZN         51         G2112016           F01020472         BOLT M0X25 5739 8.G GALVANIZED         G2112016         G2112016           F01020473         BADE SHAFT SUPPORT FB/S         G2112016         G2112016           F04010363         BEARING DH 605X58X4         F0401040         SHOULDER RING WF         F0401040 <td>4</td> <td>G21120007</td> <td>ARM SIDE CHAIN L.600</td> <td>41</td> <td>G21120067</td> <td>BRONZE BUSHING</td> <td></td>	4	G21120007	ARM SIDE CHAIN L.600	41	G21120067	BRONZE BUSHING	
G20970007         WASHER 35X8X13         43         F0104016Z           G20970035         WASHER 73X4X13         44         F01200324           F012002293         WASHER D12 DIN 6738 D.INT.ZN         46         F01200324           F012002393         NUT M1XX1, 75 L6588 6.8 ZN         47         G2101037           F021200139         3-GROOVE DRIVEN PULLEY         47         G21120137           F021200139         SEGER RING E. 62X 2 U7437 C70         48         F01020403           F04100171         BEARING D30 D62 B16 6206 Z         50         F02050642           F041020479         WASHER 10,5X30         52         G21120163           F0142000         WASHER 110,0X1,5X35 x 5         52         G21120166           F01430023         WASHER D10 DIN 6738 D.INT.ZN         52         G21120166           F01430023         WASHER D10 DIN 6738 D.INT.ZN         52         G21120166           F01430023         BLART SUPPORT FB/S         G21120166         G21120166           G212236500         HINGE         F0401040         SPALING RING WA 45         F04100131           F040100363         BEARING DHK 5025         F04100131         F0401040         SPACER FB           G21120122         PIN GRASE RING WE 45         F0410014	2	F01020528	BOLT M12X1,75X40 U5739 10.9ZN	42	G21120225	BLADES SPACER FB/S	
G20970035         WASHER 3ZX4X13         4         F01200324           F01430071         WASHER D12 DIN 6798 D.INTZN         46         F01200266           F0120013         NUT MIZX1,75 U5NS 68 2XA         45         F01220266           G21120113         3-GEOVOE PRIVED PULLEY         47         G21020173           F02050322         SEEGER RING E. 62X 2 U7437 C70         49         G20970023           F04010171         BEARING D30 D62 B16 6206 Z         49         G20970023           F04010171         BEARING D30 D62 B16 6206 Z         49         G20970023           F0401040         WASHER 11 X33 X5 S         51         G21120156           F01120442         MASHER 11 X33 X5 S         51         G21120156           F01236490         CONNECTING-ROD SYSTEM GUARD         52         G21120156           G12236490         CONNECTING-ROD SYSTEM GUARD         52         G21120156           G12236500         HINGE         F0401038         BEARING DHK 5025         62         G21120156           G12236500         HINGE         F0401048         SEALING RING BK 56025         62         62         62         62         62         62         62         62         62         62         62         62         62	9	G20970007	WASHER 35X8X13	43	F01040162	BOLT 14X30 5931 8.8	
F01430071         WASHER D12 DIN 6798 D.INT.ZN         45         F01220268           F01200283         NUT M12X1,75 U5588 6.8 ZN         46         C20970519           F01200283         NUT M12X1,75 U5588 6.8 ZN         47         C21201071           F02050392         SEEGER RING E. 62X 2 U7437 C70         48         F01020403           F0401071         BEARING D30 D62 B16 6206 Z         50         F02050403           F04120060         WASHER 10,5X30         52         G21120070           F04130023         WASHER 11,5X35 X         5         G21120070           F04130023         WASHER D10 DIN 6798 D.INT.ZN         52         G21120070           G12236490         CONNECTITIOS-ROD SYSTEM GUARD         52         G21120166           F041020472         BOLT MIX.S5 5739 8.G GALVANIZED         52         G21120166           G21120221         BLADE SHAFT SUPPORT FB/S         6         F0410406         S40LDER RING WR 45           F0410409         SHOULDER RING WR 45         F0410408         SHOULDER RING WR 45         F0410408         F0410408         F0410408           G21120123         HINGE SPINDLE FB/S         G2112012         F041061         F0401048         F0401048         F0401048         F0401048         F0401048         F0401048	7	G20970035	WASHER 32X4X13	44	F01200324	NUT M16X2 U5588 8.8 ZN	
F01200293         NUT M12X1,75 U558B 6.8 ZN         46         G20970519           G21120118         3-GROOVE DRIVEN PULLEY         47         G2112013           F0205032         SEGER RING E. 62X 2 U7437 C70         49         G20970023           F04010171         BEARING D30 D02 B16 6206 Z         50         F02050023           F0420060         WASHER N0.6X30         52         G21120073           F01420060         WASHER N1.05X30         52         G21120070           G18701440         WASHER D10 DIN 6739 B.B.ZN         51         G21120150           G18701440         WASHER D10 DIN 6739 B.IN.IZN         52         G21120150           G12236490         CONNECTING-ROD SYSTEM GUARD         52         G21120150           G12236500         HINGE         F040108         52         G21120150           G12236500         HINGE         F0401069         5ALING RING DHK 5025         F04010409         F0401069         5ALING RING WA 45         F04010409         F04010409         F0401069         F0401060         F0	00	F01430071	WASHER D12 DIN 6798 D.INT.ZN	45	F01220266	2 D980 8	
G21120118         3-GROOVE DRIVEN PULLEY         47         G21120137           F02060392         SEEGER RING E. 62X 2 U7437 C70         48         F01020403           F0420060         WASHER 10,5X30         49         F0102042           F04120060         WASHER 10,5X30         50         G203070023           F01430023         WASHER 11 X35 X 5         5         G21120156           F01430023         WASHER 11 X35 X 5         6         G21120156           F01430023         WASHER 11 X35 X 5         6         G21120156           F01430023         WASHER 11 X35 X 5         6         G21120156           F01430023         WASHER D10 DIN 6798 D.INT.ZN         6         G21120156           G12236490         CONNECTING-ROD SYSTEM GUARD         6         G21120156           F01400402         CONNECTING-ROD SYSTEM GUARD         6         G21120156           F04010409         SHOULDER RING WR 45         F04010409         SHOULDER RING WR 45         F04010409         F04010404         F04010404         F04010404         F04010404         F04010404	6	F01200293	NUT M12X1,75 U5588 6.8 ZN	46	G20970519	BOTTOMED WASHER 39X20-25X5X1	
F02050392         SEEGER RING E. 62X 2 U7437 C70         48         F01020403           F04010171         BEARING D30 D62 B16 6206 Z         49         G20970023           F0410171         BEARING D30 D62 B16 6206 Z         49         G20970023           F01220479         WASHER 10,5X30         50         F0205042           G18701140         WASHER 11 X35 X 5         51         G21120070           G12236490         CONNECTING-ROD SYSTEM GUARD         52         G21120156           F01020472         BOLT 10X25 5739 8.C GALVANIZED         52         G21120156           G12236500         HONECTING-ROD SYSTEM GUARD         F0         G21120156         F0           F04010363         BEARING DHK 5025         F0         F0         F0         F0           G12236500         HINGE         F0	10	G21120118	3-GROOVE DRIVEN PULLEY	47	G21120137	INTERNAL RING FB	
F04010171         BEARING D30 D62 B16 6206 Z         49         G20970023           F01420060         WASHER 10,5x30         50         F02050642           F01020479         BOLT M10X1,5x35 U5739 8.8 ZN         51         G21120070           G1870140         WASHER 10,5x30         52         G21120070           G12236490         CONNECTING-ROD SYSTEM GUARD         52         G21120156           F01020472         BOLT 10x25 5739 8.G GALVANIZED         6212022         BLADE SHAFT SUPPORT FB/S           G12236500         HINGE         F04010363         BEARING DHK 5025         F04010409         SHOULDER RING WR 45           F04010363         BEARING DHK 5025         F04100131         HINTERNAL IR. RING 45x50x35         G2112022           G12236500         HINGE         F0410018FB/S         G2112012         F04100131           HONG PIN FB         G2112012         F04100131         F04100131         F04100131           F02012012         PIN GRUB-SCREW FB         G2112012         F01100011         F04010362         F01100011           F01100011         GREASE RING E.72x2,5 U7437 C70         G66248111         D1X CONIC FINE FB         F04100011         F04010362         F04100011           F021120128         PIN HINGE CCENTRIC         G21120012         F040	7	F02050392	SEEGER RING E. 62X 2 U7437 C70	48	F01020403	BOLT M6X1X16 U5739 8.8 ZN	
F01420060         WASHER 10,5X30         50         F0260642           F01020479         BOLT M10X1,5X35 U5739 8.8 ZN         51         G21120070           G18701140         WASHER 11 X 35 X 5         52         G21120156           G18701140         WASHER D10 DIN 6798 D.INT.ZN         52         G21120156           G12236490         CONNECTING-ROD SYSTEM GUARD         52         G21120156           G12236500         HINGE         F0102047         BLADE SHAFT SUPPORT FB/S         52           G12236500         HINGE         F04010363         BEARING DHK 5025         F04010409         F04010409           F04010409         SHOULDER RING WR 45         F04010409         SHOULDER RING 45X50X35         5           G21120223         HINGE SPINDLE FB/S         G2112012         F04010409           G21120124         HINGE SPINDLE FB/S         G2112014         F04010409           G21120125         HINGE SPINDLE FB/S         G2112014         F04010409           G21120126         CONIC PIN FB         G21120147         F04010409           G66248111         DUSTCOVER HINGE FB         G21120145         F11.INT. CONN. ROD BEARING FB           F04010061         GREASE NIPPLE M6X1 7663-A ZN         F04010362         F11.INT. CONN. ROD BEARING FB	12	F04010171	B16	49	G20970023	WASHER 102X2X75-2	
F01020479         BOLT M10X1,5X35 U5739 8.8 ZN         51         G21120070           G18701140         WASHER 11 X 35 X 5         52         G21120156           F01430023         WASHER 11 X 35 X 5         52         G21120156           F01430023         WASHER D10 DIN 6798 D.INT.ZN         52         G21120156           F01020472         BOUT 10X25 5739 8.6 GALVANIZED         52         G2112015           G12236500         HINGE         FD400RT FB/S         52           F0401063         BEARING DHK 5025         FO4010409         SHOULDER RING WR 45           F04010409         SHOULDER RING WR 45         FO4100131         INTERNAL IR. RING 45X50X35           G2112012         HINGE SPINDLE FB/S         G21120136         PIN SPACERY FB           G21120136         PIN SPACERY FB         G21120136         PIN SPACERY FB           G21120136         PIN SPACERY FB         G21120136         PIN GRUB-SCREW FB           G21120136         PIN GRUB-SCREW FB         G21120136         PIN GRESAR NING EB         G2112013         F04010061         GEGER RING ECX22,5 U7437 C70         G6624811         DUSTCOVER HINGE FB         G2112014         F04010362         F04010362         F04010362         F04010362         F04010362         F04010362         F04010362         F04010362 <td>13</td> <td>F01420060</td> <td>WASHER 10,5X30</td> <td>20</td> <td>F02050642</td> <td>STOP RING 75 UNI 7435-75</td> <td></td>	13	F01420060	WASHER 10,5X30	20	F02050642	STOP RING 75 UNI 7435-75	
G18701140         WASHER 11 X 35 X 5         52         G21120156           F01430023         WASHER D10 DIN 6798 D.INT.ZN         52         G21120156           G12236490         CONNECTING-ROD SYSTEM GUARD         F01020472         BOLT 10X25 5739 8.G GALVANIZED         GG21120221         BLADE SHAFT SUPPORT FB/S         GG21120221         BLADE SHAFT SUPPORT FB/S         F04010363         BEARING DHK 5025         F04010363         BEARING DHK 5025         F04010409         F04010409         F04010408	4	F01020479	BOLT M10X1,5X35 U5739 8.8 ZN	21	G21120070	BLADE W/ BUSHINGS	
F01430023 G12236490 F01020472 G21120221 G12236500 F04010363 F03011069 F04100131 G21120126 G21120126 G21120126 G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21170020 G21170020	15	G18701140	WASHER 11 X 35 X 5	52	G21120156	KIT- BLADE FASTENING PIN FB	
G12236490 F01020472 G21120221 G12236500 F04010363 F03011069 F04100131 G21120126 G21120126 G21120126 G21120127 F02050403 G66248111 G21120128 G21120123 F04010362 G21170020 G21170020	16	F01430023	WASHER D10 DIN 6798 D.INT.ZN				
F01020472 G21120221 G12236500 F04010363 F04010409 F04010409 F04100131 G21120126 G21120126 G21120127 F02050403 G21120127 F02050403 G66248111 G21120128 G21120128 G21120128 G21120128 G21170020 G21170020	17	G12236490	CONNECTING-ROD SYSTEM GUARD				
G21120221 G12236500 F04010363 F04010409 F04100131 G21120126 G21120126 G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21170020 G21170020 G21170020	18	F01020472	BOLT 10X25 5739 8.G GALVANIZED				
G12236500 F04010363 F03011069 F04010409 F04100131 G21120126 G21120126 G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21170020 G21170020 G21170021	19	G21120221	BLADE SHAFT SUPPORT FB/S				
F04010363 F03011069 F04010409 F04100131 G21120223 G21120126 G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21170020 G21170021	20	G12236500	HINGE				
F03011069 F04010409 F04100131 G21120223 G21120126 G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21170020 G21170020	21	F04010363	BEARING DHK 5025				
F04010409 F04100131 G21120223 G21120126 G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21170020 G21170020	22	F03011069	SEALING RING DH 50X58X4				
F04100131 G21120223 G21120126 G21120136 G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21170020 G21170020 G21170021	23	F04010409	SHOULDER RING WR 45				
G21120223 G21120126 G21120136 G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21170020 G21170021	24	F04100131	INTERNAL IR. RING 45X50X35				
G21120126 G21120136 G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21120128 G21170020 G21170021	25	G21120223	HINGE SPINDLE FB/S				
G21120136 G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21170020 G21170021 F02050112	26	G21120126	CONIC PIN FB				
G21120127 F02050403 G66248111 G21120153 F01100011 F04010362 G21120128 G21170020 G21170021 F02050112	27	G21120136	PIN SPACER FB				
F02050403 G66248111 G21120153 F01100011 F04010362 G21120128 G21170020 G21170021 F02050112	28	G21120127	PIN GRUB-SCREW FB				
G66248111 G21120153 F01100011 F04010362 G21120128 G21170020 G21170021	29	F02050403	SEEGER RING E.72X2,5 U7437 C70				
G21120153 F01100011 F04010362 G21120128 G21170020 G21170021 F02050112	30	G66248111	DUSTCOVER HINGE FB				
F01100011 F04010362 G21120128 G21170020 G21170021 F02050112	31	G21120153	KIT- INT. CONN. ROD BEARING FB				
F04010362 G21120128 G21170020 G21170021 F02050112	32	F01100011	GREASE NIPPLE M6X1 7663-A ZN				
G21120128 G21170020 G21170021 F02050112	33	F04010362	BEARING DHK 2538				
G21170020 G21170021 F02050112	34	G21120128	PIN HINGE CONNECTING ROD FB				
G21170021 F02050112	35	G21170020	HINGE ECCENTRIC				
F02050112	36	G21170021	OUTER CONNECTING ROD				
	37	F02050112	SEEGER RING 30X 1,5 U7435 C70				



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# CUTTING BLADE (TOOTH RIVETED)

Pos.	Cod.	Description	Pos.	Cod.	Description
_	G21120321	INNER SLIDE SPACER FB940	43	F01060045	BOLT 8X40 5732 4.6 GALVANIZED
2	F01200270	NUT M10X 1,5 U5588 6.8 ZN	44	F01230034	SELF LOCK.NUT M8X1,25 D982 8ZN
က	F01430023	WASHER D10 DIN 6798 D.INT.ZN	45	G20800061	SWATHBOARD ROD ASSY.
4	F01410064	WASHER M10 10,5X20X2 U6592 ZN	46	F01020012	BOLT 4X40 5737 8.G GALVANIZ.
2	F01020472	BOLT 10X25 5739 8.G GALVANIZED	47	G13011660	INDICATIN BAR
9	F01060081	BOLT 10X60 5732 4.6- GALVANIZ	48	G13017610	BAR REINFORC.5HOLES FBR PLUS
_	G21120322	HINGE PROTECTION FB940	49	G13017600	BAR REINFORC.4HOLES FBR PLUS
∞	G21120133	SWATHBOARD BOLT ASSY. FB	20	F01030501	BOLT TSQST 10X45 8.8
<u></u>	G13013020	INTERNAL RUNNER 09	21	G13014250	GUARD ROD
10	G21120324	RUNNER WIDE INT. SLIDE FB940	25	G13012221	BAR MT. 1,75
7	F01030121	BOLT 12X60 5933 8.8 GALVANIZ.	53	G13012261	BAR MT. 2.05
12	F01430071	WASHER D12 DIN 6798 D.INT.ZN	54	G13012301	BAR MT. 2,35
13	F01200293	NUT M12X1,75 U5588 6.8 ZN	22	G21120243	CUT SECTION FB/S
14	F01220033	NUT M10X 1,5 D980 8 ZN	99	G13013550	LOWER DOUBLE POINT SECTION
15	F01020114	BOLT M10X 1,5X50 U5737 8.8 ZN	22	G13013540	UPPER DOUBLE POINT SECTION
16	G21120312	SUP.INTERNAL BLADE GUIDE	28	F02250519	1 KG RIVETS TSC 6X13,8 3012680
17	G21120231	SHIMS MM.10 FB/S	29	G13014240	RIVETED TOOTH EVO11
18	G21120044	SHIMS- LOWER INT. GUIDE	09	G13013871	COMPL. RIB. TOOTH BLADE FBR 2,05
19	G21120045	INTERNAL LOWER BLADE GUIDE	61	G13013881	COMPL.RIB.TOOTH BLADE FBR 2,35
20	G21120042	LOWER BLADE GUIDE	62	G65337002	TRACTION SPRING GUARD FS
21	G21120232	UPPER INTERNAL BLADE GUIDE	63	G21120048	BUSHING- BLADE HEAD 28X20X24
22	G21120041	UPPER INTERNAL BLADE GUIDE	64	F01100011	GREASE NIPPLE M6X1 7663-A ZN
23	G21120314	BAR MT. 1.45 FB940	65	G21120267	INTERNAL SECTION BLADEHEAD
24	G21120320	SHIMS- UPPER BLADE GUIDE	99	G21120259	EXT.COMPLETE TOOTH BLADEHEAD
25	G21120054	GUARD - PROTECTION MT.1-75	29	F02250520	1 KG RIVETS TSC 6X19,8 3012690
26	F01020480	BOLT M10X 1.5X35 U5739 8.8 BR	89	G21120246	ROD SECTIONS MT. 1.75 FB/S
27	G13013120	COMPLETE SPACER	69	G21120247	ROD SECTIONS MT. 2.05 FB/S
28	G21120040	SHIMS MM.1 UPPER EXT. GUIDE	20	G21120248	ROD SECTIONS MT. 2.35 FB/S
29	G21120039	UPPER OUT. BLADE GUIDE	71	G21120240	CUTTING BLADE MT.1-75 FB/S
30	G21120112	COMPL. PROTECTION MT.2-05	72	G21120241	COMPL.SECTION-HOLDING BAR 2,05
31	G19200903	OUTER BAR SUPPORT FBR	73	G21120242	COMPL.SECTION-HOLDING BAR 2,35
32	G21120038	EXT. RUNNER SLIDE	74	G13013620	DOUBLE-TIP SECTION BLADE 1.75
33	F01020512	BOLT M12X1,75X35 5739 8.8 ZN	12	G13013630	DOUBLE EDGED BLADE GUIDE SECT
34	G21120266		92	G13013640	DOUBLE POINT SEC.BLADE 2,35
35	G13013861	COMPL.RIB.TOOTH BLADE FBR 1,75	77	G21120251	BLADE ROD- MT. 1.75 FB/S
36	G13011650	INDICATION BAR SUPPORT	78	G21120252	BLADE ROD- MT. 2.05 FB/S
37	F01230016	NORM.SELF-LOCKING NUT 4 GALVAN	79	G21120253	BLADE ROD- MT. 2.35 FB/S
38	G21120134	SWATHBOARD - ASSY. FB	80	G13017620	2 HOLES BAR REINFORCEMENT
39	F01060105	BOLT 12X80 5732 4.6	81	G13018040	UPPER INNER BLADE GUIDE DN
40	G65338001	SPRING	82	G13018050	UPPER BLADE GUIDE DN
41	F01410076	6592 ZN	83	G13018060	TIE-ROD M12 L.1650 -25 -25
42	F01230059	NUT M12X1,75 D982 8 ZN	84	G13018070	TIE-ROD M12 L.1955 -25 -25



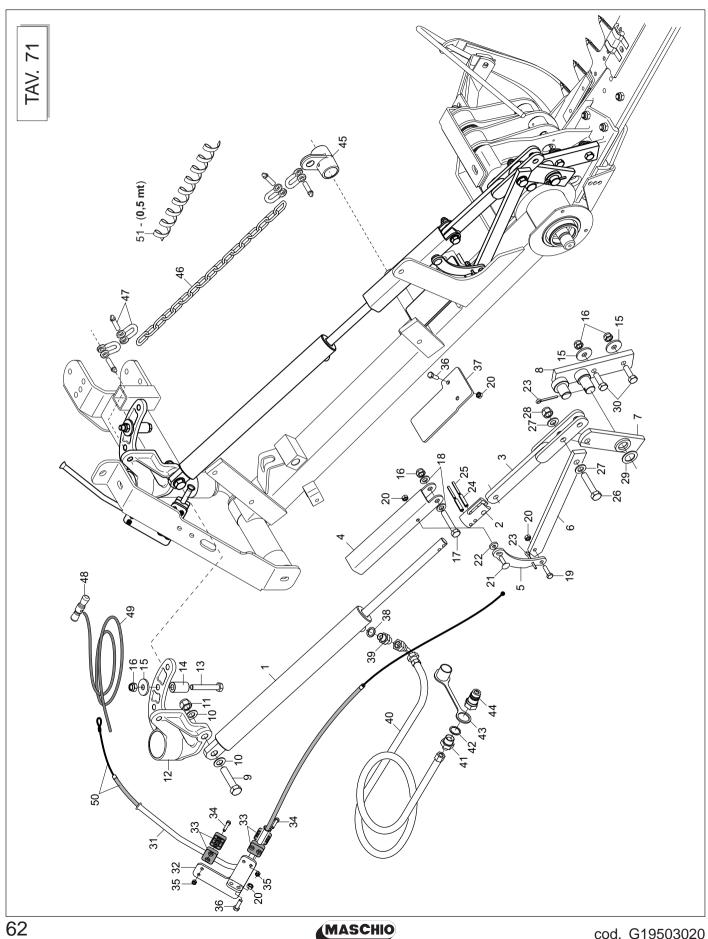
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# CUTTING BLADE (REMOVABLE TOOTH)

	CUTTING E	CUTTING BLADE (REMOVABLE TOOTH)			TAV. 62	
Pos.	Cod.	Description	Pos.	Cod.	Description	
_	G21120321	~	48	G13013080	BAR REINFORC. 5 FORI FBR PLUS	
2 0	F01200270	NUT M10X 1,5 U5588 6.8 ZN	40	G13013070	BAR REINFORC. 4 F.FBR PLUS DS	
ა 4	F01430023 F01410064	WASHER D10 DIN 6738 D.IN I.ZN WASHER M10 10.5X20X2 U6592 ZN	51	FU1030501 G13014250	BOLL I SUST 10745 8.8 GUARD ROD	
ۍ .	F01020472	BOLT 10X25 5739 8.G GALVANIZED	52	G13013420	REMOV. TOOTH-HOLDING BAR 1,75	
9	F01060081	BOLT 10X60 5732 4.6- GALVANIZ	53	G13013460	REMOV. TOOTH-HOLDING BAR 2,05	
	G21120322	HINGE PROTECTION FB940	54	G13013030	BAR MT. 2.35	
∞ c	G21120133 G12013020	SWATHBOARD BOLLI ASSY. FB	55	G21120243	CUI SECTION FB/S	
, t	G13013020 G21120324	INTERNAL KONNER 09 PLINNER WIDE INT. SLIDE FROZO	20	G13013550 G13013540	LOWER DOUBLE POINT SECTION	
= =	F01030121	NOMINE   WIDE   WILL SEIDE   19345   BOLT 12X60 5933 8.8 GALVANIZ.	28	F02250519	1 KG RIVETS TSC 6X13.8 3012680	
12	F01430071	WASHER D12 DIN 6798 D.INT.ZN	29	G13014220	REMOVABLE TOOTH EVO11	
13	F01200293	NUT M12X1,75 U5588 6.8 ZN	09	F01010222	BOLT 8X1X12 5740 10.9	
4	F01220033	NUT M10X 1,5 D980 8 ZN	61	F01460138	CONTACT ELAST. WASHER D8	
15	F01020114	BOLT M10X 1,5X50 U5737 8.8 ZN	62	G65337002	TRACTION SPRING GUARD FS	
9 7	G21120312 C12011600	SUP.IN I EKNAL BLADE GUIDE	63	G21120048	BUSHING- BLADE HEAD 28X20X24	
- α	G 13011600	INI. BLADE GOIDE SOFFONI	0 Q	FULL00011	GREAGE MITTER MON 1 7003-A ZIV	
0 0	G21120044	INTERNAL LOWER BLADE GLIDE	99	G13013130 G13013230	DEMONT TOOTH BLADEHEAD	
20	G13013151	LOWER DOUBLE BLADE GUIDE	67	F02250520	1 KG RIVETS TSC 6X19,8 3012690	
21	G19203311	UPPER BLADE INT. GUIDE REMOVAB	89	G21120246	ROD SECTIONS MT. 1.75 FB/S	
22	G19203301	UPPER BLADE GUIDE REMOVABLE TI	69	G21120247	ROD SECTIONS MT. 2.05 FB/S	
23	G13011501	EXT. UPPER BLADE TRACK	0/	G21120248	ROD SECTIONS MT. 2.35 FB/S	
24	G13011510	SHIM FOR UPPER BLADE GUIDE	71	G13013580	COMPL.SECTION-HOLDING BAR 1.75	
22	G13011520	EXTUPPER BLADE TRACK SPACER	72	G13013590	COMPL. SECTION ROD MT 2,05	
200	FU1020480	BOLI MIUA 1.3A33 U3/38 8.8 BR	2 7	G13013090 G13013670	SECTIONER ROD 2,33 FBR	
200	G21120040	SHIMS MM 1 LIPPER EXT GILIDE	7.5	G13013670	DOUBLE FOILT SEC. BLADE 1,73 DS	
29	G21120039	UPPER OUT. BLADE GUIDE	92	G13013110	SECTION OF STATE OF S	
30	G13013511	LOWER SINGLE BLADE GUIDE	77	G13013300	REMV. TOOTH-HOLDING BAR 1.75	
31	G19200903	OUTER BAR SUPPORT FBR	78	G13013310	REMV. TOOTH-HOLDING BAR 2.05	
32	G21120038	EXT. RUNNER SLIDE	19	G13013040	BLADE ROD-MT. 2,35	
33	F01020512	တ္တ က	80	G13013340	BLADE HEAD-TOOTH-HOLDING BAR 1	
34	F01220048	NOT M12X1,75 D980 8 ZN	,	G13013350	BLADEHEAD TOOTHED ROD ASS.2,05	
ი დ ი დ	G13011650	BOLI 12740 3833 6.8 GALVANIZ. INDICATION BAR SUPPORT	2 8	G13013030	DSS 4,53 FBR HOLDER ROD COMPINSM TOOTH BLADES ERR1 75	
37	F01230016	NORM.SELF-LOCKING NUT 4 GALVAN	8 8	G13013782	COMP.DISM.TOOTH BLADES FBR2.05	
38	G21120134	SWATHBOARD - ASSY. FB	82	G13013061	COMP.DISM.TOOTH BLADES FBR2,35	
39	F01060105	BOLT 12X80 5732 4.6	98	G21120054	GUARD - PROTECTION MT.1-75	
40	G65338001	SPRING	87	G21120112	COMPL. PROTECTION MT.2-05	
4 1	F01410076	WASHEK D12 U6592 ZN	χ χ	G21120266	COMPL. PROTECTION .MT.2-35 FB/	
7 4	F01230059	NOT M12X1,/5 D982 8 ZN	က င	G13013401	KEMOV. IOOTH-HOLDING BAR 1,45	
դ 4 Ն 4	F01230034	SELFLOCK NUT M8X1 25 D982 87N	0.00	G13018000	Z TOCES BAN NETINFONCEMENT	
45	G20800061	SWATHBOARD RODASSY.	92	G13018010	UPPER BLADE GUIDE DS	
46	F01020012	BOLT 4X40 5737 8.G GALVANIZ.	93	G13018030	TIE-ROD M12 L.1760 -25 -25	
47	G13011660	INDICATIN BAR	94	G13018020	TIE-ROD M12 L.2065 -25 -25	



Cod.         Description         Food           G441000         CYLINDER TUZOX40 - 380         38         FO1500012           G12216820         CYLINDER CODPLING         39         FO160012           G12217900         CYLINDER CODPLING         40         G2340617           G12219070         LIFTING BAR EDGE         41         F03150211           G12219070         LIFTING BAR EDGE         42         F0315021           G12219020         LIFTING PATE         44         F03150325           G12219020         LIFTING PATE         44         F03150325           G19204240         LIFTING PATE         44         F03150325           G1920420         LIFTING PULT MIGKZX70 US737 8.2X         44         F03150325           G1920420         LIFTING PULT MIGKZX70 US737 8.2X         44         F03150342           G1920420         LIFTING PULT MIXXI, 75X 0.0 US737 8.2X         48         F05150464           G1920420         CVLINDER COUPLING         49         F05150464           G1920420         SELF LOCKING NUT MIGKT, 5         48         F05150464           G1920420         SELF LOCKING NUT MIGKT, 5         48         F05150464           G10120044         BOLT MIXXI, 75X 0.0 US737 8.2X         5         F	-	HYDRAULI	SYSTEM	-		·	TAV. 71	
CYLINDER TU 20X40 - 380         38         FO1500012           G12218620         CYLINDER COUPLING         39         G16011689           G12218020         LIFTING BRAE EDGE         39         G16011689           G12219020         LIFTING RAR EDGE         41         F0315021           G12219020         LIFTING RAR EDGE         42         F0315021           G12219020         LIFTING ROD         42         F0315021           G12219020         LIFTING ROD         45         G21120007           G1220020         LIFTING ROD         45         G21120007           G1220020         LIFTING ROD         45         G21120007           G1220020         BOLT M16X2XO U5737 8.8 ZN         45         F05150410           G1220020         CYLINDER COUPLING         49         F05150410           G1220020         CYLINDER COUPLING         49         F05150410           G1220020         MASHER POLT M12X1,75X90 U5737 8.8 ZN         F01020014         F01120007           MASHER D12 U5692 ZN         F01020014         MASHER POLT M2X1,75X70 U5737 8.8 ZN         F01020014         F01120014           F01020014         BOLT M12X1,75X70 U5737 8.8 ZN         F01020014         F01020014         F01020014         F01020014	Pos.	Cod.	Description	Pos.	Cod.	Description		
G12216820         CYLINDER COUPLING         39         G16011690           G12217800         ICYLINDER COUNECTION         40         F0316317           G12219070         LIFTING REE DGE         42         F0316211           G12219080         LIFTING REE DGE         42         F0316021           G12219020         LIFTING ARTICULATION BAR         42         F0316021           G12219020         LIFTING ARTICULATION BAR         42         F0316022           G12219020         LIFTING GATTICULATION BAR         42         F0316022           G12219020         LIFTING FALTE         42         F0316022           G12219020         LIFTING FALTE         42         F0316022           G12204260         BOLT M16X2X70 U5737 8 ZN         42         F03160420           G19204260         BOLT M16X2X70 U5737 8 SZN         42         F03160420           G19204260         CYLINDER COUPLING         42         F03160420           G19204260         BOLT M12X1,75X90 U5737 8 SZN         51         F03160420           G19204260         BOLT M12X1,75X0 U5737 8 SZN         F0316042         F0316044           F01020044         BOLT M42X2X0 U5737 8 SZN         F0102042         F0316044           F01020104         PIN EL S X36 DRIN	_	G14911000	CYLINDER TU 20X40 -380	38	F01500012	WASHER 13 X19X1,5 - 1/4"		
G12217900         FORK LEVER CONNECTION         40         G23440517           G12219000         LIFTIME BARE BOGE         41         F0315021           G12219000         LIFTIMITER ROD         42         F0315032           G12219000         LIFTIMITER ROD         43         F05150325           G12219000         LIFTIMIC PATT         45         G18204250           G12219000         LIFTIMIC PATT         47         F03150935           G12219000         LIFTIMIC PATT         47         F03150935           G12219000         LIFTIMIC PATT         47         F03150935           G1220000         LIFTIMIC ROD         47         F02150900           G1220002         LIFTIMIC ROD         47         F0215090           G122002         LIFTIMIC ROD         47         F0216090           G122002         F017MIXZXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	7	G12216820	CYLINDER COUPLING	39	G16011690	UPRIGHT 1/4" NIPPLE WITH GRUB		
G122190070         LIFTING BAR EDGE         41         F03150211           G122190070         LIFTING BAR EDGE         42         F03150325           G12219008         LIFTING MITTICULATION BAR         43         F05150325           G12219008         LIFTING ROD         44         F03150325           G12219020         LIFTING PLATE         46         F03150325           G12219020         LIFTING PLATE         47         F02150667           G1020020         WASHER R29XX16,5         48         F0515014           G1920401         SELF LOCKING NUT MIEXT, 5X80 U573 R.8 ZN         48         F0515014           G19204026         BOLT MITXT, 73X80 U573 R.8 ZN         51         F0515044           G1920426         BOSHING G1,3X25X42         51         F0515044           G1820408         BOSHING G1,3X25X42         51         F0515044           G1820408         BOSHING G1,3X25X42         51         F0515044           G1020040         WASHER D12 U6592 ZN         F0120067         F0120047           MASHER D12 U6592 ZN         F0120047         F0210044         F0210044           F0120022         BULT M8X 1,25 D980 R ZN         F0210044         F0210044           F01200041         WASHER P2 1/4X82	က	G12217900	FORK LEVER CONNECTION	40	G23440517	PIPE 1/4R2 C-F 1/4 L2000 HL/ID		
G12219060         LIFTLIMMTER ROD         42         F03151237           G12219060         LIFTING RATICULATION BAR         43         F05150325           G1221902         LIFTING RATICULATION BAR         44         F03150325           G1221902         LIFTING PLATE         45         G19204205           G1221902         LIFTING PLATE         45         G19204205           F01020260         BOLT M16X2X70 U5737 8.3 ZN         48         F05150410           G20370111         WASHER P29.8X2X16.5         48         F05150410           G19204260         CYLINDER COUPLING         49         F05150410           F0122002         SELT COCKING NUT M16X1,55 80 2X         49         F05150440           F0122002         WASHER A0X4X13         8 ZN         F05150440           F0122002         NUT M2X1,25 D982 8 ZN         F0160041         F01740076         F01740076           F0122002         NUT M2X1,25 D982 8 ZN         F0160041         F01740076         F01740076         F01740076           F012200229         NUT M3X1,25 D982 2 N         F01760041         F0174 8 Z8 Z9 Z9 L0 GALVANIZED         F01760041         F01760041         F01760041         F01760041         F01760041         F01760041         F01760041         F01760041         F0176004	4	G12219070	LIFTING BAR EDGE	4	F03150211	NIPLE MM CIL-CIL 1/4-1/2 ZN		
G12219080         LIFTING ARTICULATION BAR         43         F05150325           G12219080         LIFTING ARTICULATION BAR         43         F05150325           G12219020         LIFTING ROD         46         G2120007           G12219020         LIFTING PLATE         46         G2120007           G20970111         WASHER 29,8X2X16,5         47         F0250667           F01230084         SELF LOCKING NUT M16X1,5         48         F05150114           G19204260         CYLINDER COUPLING         49         F05150141           F01230084         SELF LOCKING NUT M16X1,5         50         F05150041           G18204260         CYLINDER COUPLING         49         F05150041           F0122002         BOSHING 12,325242         50         F05150044           G20970085         WASHER D12 U6592 ZN         F01020445         F01020445           BOLT M12X1,75870 U5737 8.8 ZN         F01020445         BOLT M14X1,25 D980 8 ZN         F01020445         F01020445           F01020044         BOLT M2X2X70 U5737 8.8 ZN         F01020445         BOLT M14X1,10X         F01020445         F01020445           F012000207         BOLT M14X2X770 U5737 8.8 ZN         F0120070         WASHER 40X2X2         F0120070         WASHER 40X2X2         F0120070	2	G12219060	LIFT LIMITER ROD	42	F03151237	COPPER WASHER 21X27X1,5 1/2		
G19204240         LIFTING ROD         44         F03150935           G12219020         LIFTING PLATE         46         G21120007           G12219020         LIFTING PLATE         46         G21120007           G20907011         WASHER PS98XX16.5         47         F02260667           F01230084         SELF LOCKING NUT M16X1,5         48         F0515014           G19204260         CYLINDER COUPLING         49         F05150410           G19204260         CYLINDER COUPLING         49         F05150410           G1880215         BOCHINTAX1,75X80 U573 8.8 ZN         51         F05150484           G20970085         MASHER ROAMY         51         F05150484           G20970086         BOLT M12X1,75X70 U573 8.8 ZN         F0120022         F0120022           F01200041         BOLT M2X1,75X70 U573 8.8 ZN         F0120042         F0120042           F01200404         BOLT M3X30         F0120042         F0120042           F01200414         FNI EL. SX3 DIN H381 INOX         F0120041         F01200414           F01200141         FNI EL. SX3 DIN H381 INOX         F0120041         F01200414         F01200414           F01200150         BOLT M14X2X70 U5737 8.8 ZN         F0120041         F01200414         F01200414 <td< td=""><td>9</td><td>G12219080</td><td>LIFTING ARTICULATION BAR</td><td>43</td><td>F05150325</td><td>COVER CONNECT F 1/2 RED</td><td></td><td></td></td<>	9	G12219080	LIFTING ARTICULATION BAR	43	F05150325	COVER CONNECT F 1/2 RED		
G12219020         LIFTING PLATE         45         G19204250           F01020260         BOLT MIRKXZXV U6737 8.8 ZN         46         C21120007           G20970111         WASHER R2,8XZX16,5         49         F05150114           G20970121         WASHER R2,8XZX16,5         49         F05150114           G19204260         CYLINDER COUPLING         49         F05150410           F01020166         BOLT M12X1,75X80 U5737 8.8 ZN         50         F03100344           G18802150         BOSHING 12,3X25X42         50         F03100344           G18802150         BOSHING 12,3X25X42         50         F03100344           G1020164         BOLT M12X1,75X D982 RN         F012004         F012004           F01200245         BOLT M 8X30         F012002         F012004           F01200445         BOLT M 8X30         F012002         F012004           F01200245         BOLT M 8X30         F012002         F012004           F01200245         BOLT M 8X30         F012004         F012004           F01200247         WASHER 21X4X8-5         F02500229         F012004           F0120027         WASHER A0X2X6 U5737 8.8 ZN         F012004         F012004           F0120027         BOLT M14X1,5         G2097007	7	G19204240	LIFTING ROD	44	F03150935	QUICK CONNECT MALE CONE 1/2		
F01020260         BOLT M16X2X70 U5737 8.8 ZN         46         G21120007           G20970111         WASHER 29,8X2X16,5         47         F02260667           G19204260         CYLINDER COUPLING         48         F05150114           G19204260         CYLINDER COUPLING         49         F05150410           G19204260         CYLINDER COUPLING         49         F05150410           G18802150         BOLT M12X1,758X0 U5737 8.8 ZN         51         F05150484           G20970085         WASHER 40X4X13         F0123062         F0102014           F01020164         BOLT M12X1,75X70 U5737 8.8 ZN         F0120045         F0102044           BOLT M8X.125 D980 8.ZN         F0120045         F0120045         F0120044           F01200245         BOLT M8X.25 D980 8.ZN         F0120047         F0120044         F0120044           F01200240         WASHER 21X4X8-5         F0200229         F0120044         F01404076         F01404076           F01200240         WASHER 21X4X8-5         F0200229         F01404076         F01406041         F01406041         F0140606         F0140606         F0140606 <td><sub>∞</sub></td> <td>G12219020</td> <td>LIFTING PLATE</td> <td>45</td> <td>G19204250</td> <td>BUSHING- TIE ROD</td> <td></td> <td></td>	<sub>∞</sub>	G12219020	LIFTING PLATE	45	G19204250	BUSHING- TIE ROD		
G20970111         WASHER 29,8X2X16,5         47         F02250667           F01230084         SELF LOCKING NUT M16X1,5         48         F0515014           G19204260         CYLINDER COUPLING         49         F0515014           G1802150         BOZHING 12,3X25A42         50         F03100344           G20970085         WASHER 40X4X13         F01230058         F01702014         F01702014           F01230058         NUT M12X1,25 D982 8 ZN         F01702014         F01702014         F01702014           F0120020         BOLT M12X1,75X0 U5737 8 8 ZN         F01702014         F01702014         F01702014           F0120020         BOLT M 8X25 5732 4 6 GALVANIZED         G20970104         WASHER D12 U6892 ZN         F01702014           F0140008         WASHER 21X4X8-5         F0200229         SPLIT PIN 5X 45 U1336 ZN         F01702021           F02100141         PIN EL, SX 50 U6892 ZB         F0200229         SPLIT PIN 5X 45 U1336 ZN         F01700314           F01100081         WASHER 21X4X8-5         F0200370         WASHER 40X2X26         F01700314           F01200374         PIN EL, SX 50 U6892 ZB         F0170008         F017008           F01200070         WASHER 40X2X26         F0102014         F01702014           F0120014         F0102015 </td <td>တ</td> <td>F01020260</td> <td>BOLT M16X2X70 U5737 8.8 ZN</td> <td>46</td> <td>G21120007</td> <td>ARM SIDE CHAIN L.600</td> <td></td> <td></td>	တ	F01020260	BOLT M16X2X70 U5737 8.8 ZN	46	G21120007	ARM SIDE CHAIN L.600		
F01230084         SELF LOCKING NUT M16X1,5         48         F05150114           G19204260         CYLINDER COUPLING         49         F05150410           G1802150         BOCH M12X1,75X80 UB737 8.8 ZN         50         F05100344           G1802150         BOCH M12X1,75X80 UB737 8.8 ZN         51         F05150484           G20970085         WASHER QXXX13         50         F05150484           F01230026         NUT M12X1,75X70 UB737 8.8 ZN         F0102014         F0102045         BOLT M12X1,75X70 UB737 8.8 ZN           F0120022         NUT M2X1,75X70 UB532 ZN         F0102045         BOLT M8X30         F0102045         F0102045           F0120022         NUT M8X 1,25 D980 8 ZN         F0102042         F0102042         F0102042         F0102044           F0120023         SPLIT PIN SX 45 U1336 ZN         F0200041         PIN EL. SX 36 U187 S.8 ZN         F0200071         F0200071           F01200314         PIN EL. SX 36 U187 S.8 ZN         F01020207         F0114088         WAS.M14 15X 28X2,5 U6592 ZB         F01020207         F01140088         WAS.M14 15X 28X2,5 U6592 ZB         F0102014         F01140088         F011404088	10	G20970111	WASHER 29,8X2X16,5	47	F02250667	CLEVIS- 3/8- GALVANISED- ART.		
G19204260         CYLINDER COUPLING         49         F05150410           G18204260         CYLINDER COUPLING         49         F05150410           F01020166         BOLT M12X1,75X80 U5737 8.8 ZN         51         F05150484           G20970085         WASHER A0XX13         F0122002         F0122002           F01220164         BOLT M12X1,75X0 U5737 8.8 ZN         F0122012         F0122012           F01220022         NUT M8X1,25 D980 8 ZN         F01220022         F01220022           F01020045         BOLT M 8X30         F01220022         F012 8 ST           F01020020         NUT M8X 1,25 D980 8 ZN         F01220022         F012 8 ST           F01020021         BOLT M 8X30         F012 8 ST         F012 8 ST           F01020023         SPLIT PIN 6X 45 01336 ZN         F012 8 ST         F012 8 ST           F01100314         PIN EL. 8X36 DIN 1481 INOX         F012 8 DLT M12X1,75X45 U5737 8.8 ZN         F012 8 DLT M12X1,75X45 U5737 8.8 ZN           F01200075         BOLT M12X1,75X45 U5737 8.8 ZN         G20970070         GABLE PROTECTION           G12219050         CABLE PROTECTION         G12219050         CABLE PROTECTION           F0120040         BOLT M3X1,25X25 U5739 8.8 ZN         F01020440         BOLT M8X1,25X25 U5739 8.8 ZN	7	F01230084	SELF LOCKING NUT M16X1,5	48	F05150114	HANDLE		
F01020166         BOLT M12X1,75X80 U5737 8.8 ZN         50         F03100344           G18802150         BOSHING 12,3X25X42         51         F05150484           G20970085         WASHER 40X4X13         F01230058         NUT M12X1,25 D982 8 ZN           F0120046         BOLT M XX7,75X0 U5737 8.8 ZN         F01020144         F0120045         BOLT M XX3           F01020045         BOLT M 8X30         E0120022         NUT M8X 1,25 D980 8 ZN         F01020045         BOLT M XX8           F01020045         BOLT M 8X30         E01336 ZN         F01020045         F01020045         F01020045           F01020040         WASHER D12 U6592 ZN         F01020042         F01020042         F01336 ZN         F01020042         F01020042           F01000141         PIN EL. 8X 36 U6873 C70 BR         F0210014         F01 M 4X2X70 U6737 8.8 ZN         F01020042         F01040044         F01040044         F01040044         F0104044         F01020144         F0104044         F0104044         F0104044         F0104044         F0104044         F0104044         F0104044         F0104044         F0104044         F0104046         F0104044         F0104046         F0104046         F01040412         F0104041         F0104041         F0104041         F0104041         F0104041         F0104041         F0104041	12	G19204260	CYLINDER COUPLING	49	F05150410	PLASTIC ROPE D5		
G18802150         BOSHING 12,3X25X42         51         F05150484           G20970085         WASHER 40X4X13         F01230058         F01230058         NUT M12X1,25 D982 8 ZN           F01230058         NUT M12X1,75X70 U5737 8.8 ZN         F01200204         WASHER D12 U6592 ZN         F0120020           F0140076         WASHER D12 U6592 ZN         F0122002         F0122002         F0122002           F0120020         NUT M8X 1,25 D980 8 ZN         F012002         F0128 X25 5732 4.6 GALVANIZED         F020020           F0120020         NUT M8X 1,25 D980 8 ZN         F0120020         F0120020         F0120020           F02100141         PIN EL. 8X 36 U6873 C70 BR         F0210014         F01 M4X2X70 U5737 8.8 ZN         F0120020           F0120027         BOLT M14X2X70 U5737 8.8 ZN         F0120014         F01 M14X2X70 U5737 8.8 ZN         F0120014           F0123007         SELE LOCKING NUT M14X1,5         G2097007         GABLE PROTECTION SUPPORT         F01221905           F01221950         CABLE PROTECTION SUPPORT         F01221905         BOLT AKX1 52 S2X25 U5739 8.8 ZN           F01220041         NUT M6X1 D980 8 ZN         F01020440         BOLT M8X1,25X25 U5739 8.8 ZN	13	F01020166		20	F03100344	COVER C/W WIRE D.1,9>		
G20970085 F01230058 F01230058 F01410076 F01420022 F01020041 G20970104 F02200229 F02100314 F02100314 F02100314 F01220020 F01230072 G20970070 F012219120 G12219050 F01220011 F01220011	14	G18802150	BOSHING 12,3X25X42	21	F05150484	SPIRAL GUARD D.27-32		
F01230058 F01020164 F01410076 F01020445 F01220022 F01060041 G20970104 F02100314 F02100314 F02100314 F01220070 F01230072 G20970070 F01230072 G20970070 F01230072 G12219120 G12219050 F01220011 F01220011	15	G20970085	WASHER 40X4X13					
F01020164 F01410076 F01420022 F01020041 G20970104 F02200229 F02100141 F02100314 F02100314 F01220070 F01230072 G20970070 F01230072 G20970070 F012219120 G12219050 F0102011136 F01020440 G12219110	16	F01230058	NUT M12X1,25 D982 8 ZN					
F01410076 F01020445 F01020445 F01020022 F01060041 G20970104 F02200229 F02100314 F02100314 F011230072 G20970070 F012219120 G12219120 G12219050 F01020440 G1220011	17	F01020164	BOLT M12X1,75X70 U5737 8.8 ZN					
F0102045 F01220022 F01060041 G20970104 F02200229 F02100314 F0120207 F01410088 F01230072 G20970070 F01230072 G20970070 F012219120 G12219050 F03151136 F01020440 F01020440	18	F01410076	WASHER D12 U6592 ZN					
F01220022 F01060041 G20970104 F02200229 F02100314 F01020207 F01410088 F01230072 G20970070 F012219120 G12219120 G12219050 F01020154 G12219050 F01020111 F01020440	19	F01020445	BOLT M 8X30					
F01060041 G20970104 F02200229 F02100141 F02100314 F01020207 F01410088 F01230072 G20970070 F012319120 G12219050 F01220011 F01020440 G12219110	20	F01220022	NUT M8X 1,25 D980 8 ZN					
G20970104 F02200229 F02100141 F02100314 F01020207 F01410088 F01230072 G20970070 F01020154 G12219120 G12219050 F01020440 F01020440 G12219110	21	F01060041	BOLT 8 X25 5732 4.6 GALVANIZED					
F02200229 F02100141 F02100314 F01020207 F01410088 F01230072 G20970070 F01020154 G12219120 G12219050 F03151136 F03151136 F01020440 G12219110	22	G20970104	WASHER 21X4X8-5					
F02100141 F02100314 F01410088 F01430072 G20970070 F01020154 G12219120 G12219050 F03151136 F01040066 F01020440 G12219110	23	F02200229	SPLIT PIN 5X 45 U1336 ZN					
F02100314 F01020207 F01410088 F01230072 G20970070 F01020154 G12219120 G12219050 F03151136 F01040066 F01020410	24	F02100141	PIN EL. 8X 36 U6873 C70 BR					
F01020207 F01410088 F01230072 G20970070 F01020154 G12219050 G12219050 F03151136 F01040066 F01020410	25	F02100314	PIN EL.5 X36 DIN 1481 INOX					
F01410088 F01230072 G20970070 F01020154 G12219050 G12219050 F03151136 F01020440 G12219110	26	F01020207	BOLT M14X2X70 U5737 8.8 ZN					
F01230072 G20970070 F01020154 G12219120 G12219050 F03151136 F01040066 F01020440 G12219110	27	F01410088	WAS.M14 15X 28X2,5 U6592 ZB					
G20970070 F01020154 G12219050 G12219050 F03151136 F01040066 F01220011 F01220440 G12219110	28	F01230072	SELF LOCKING NUT M14X1,5					
F01020154 G12219120 G12219050 F03151136 F01040066 F01220011 F01020440 G12219110	29	G20970070	WASHER 40X2X26					
G12219120 G12219050 F03151136 F01040066 F01220011 F01020440 G12219110	30	F01020154	BOLT M12X1,75X45 U5737 8.8 ZN					
G12219050 F03151136 F01040066 F01220011 F01020440 G12219110	31	G12219120	CABLE PROTECTION					
F03151136 F01040066 F01220011 F01020440 G12219110	32	G12219050	CABLE PROTECTION SUPPORT					
F01040066 F01220011 F01020440 G12219110	33	F03151136	COLLAR A1-12 S					
F01220011 F01020440 G12219110	34	F01040066	BOLT 6 X35 5931 8.G GALVANIZ.					
F01020440 G12219110	35	F01220011	NUT M6X1 D980 8 ZN					
G12219110	36	F01020440	BOLT M8X1,25X25 U5739 8.8 ZN					
	37	G12219110	ASSY SLIDING PLATE ZN					

#### WARRANTY

MASCHIO GASPARDO warrants this product to be free from defect in material and workmanship. Except as otherwise set forth below, the duration of this Warranty shall be for TWELVE (12) MONTHS COMMENCING ON THE DATE OF DELIVERY OF THE PRODUCT TO THE ORIGINAL PURCHASER.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of MASCHIO GASPARDO, has been

subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not apply in the event that the product has been materially modified or repaired by someone other than MASCHIO GASPARDO, a MASCHIO GASPARDO authorized dealer or distributor, and/or a MASCHIO GASPARDO authorized service center. This Warranty does not cover normal wear or tear, or normal maintenance items. This Warranty also does not cover repairs made with parts other than those obtainable through MASCHIO GASPARDO.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

MASCHIO GASPARDO makes no warranty, express or implied, with respect to engines, batteries, tires or other parts or accessories not manufactured by FRONTIER. Warranties for these items, if any, are provided separately by their respective manufacturers.

MASCHIO GASPARDO' obligation under this Warranty is limited to, at MASCHIO GASPARDO' option, the repair or replacement, free of charge, of the

product if MASCHIO GASPARDO, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. The product must be returned to MASCHIO GASPARDO S.p.A. with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. MASCHIO GASPARDO shall complete such repair or replacement within a reasonable time after MASCHIO GASPARDO receives the product.

THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY. THE REMEDY OF REPAIR OR REPLACEMENT IS THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. MASCHIO GASPARDO MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MASCHIO GASPARDO SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

MASCHIO GASPARDO shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory. Without limiting the generality of the foregoing, MASCHIO GASPARDO specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply which may directly affect MASCHIO GASPARDO' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, serviceperson, salesperson, or employee of any company, including without limitation, MASCHIO GASPARDO, its authorized dealers, distributors, and service centers, is authorized to alter, modity, or enlarge this Warranty.

This Warranty is effective only if the warranty registration is returned within ten (10) days.

For warranty services contact your selling dealer.

# **WARRANTY**

#### WARRANTY FOR REPLACEMENT PARTS

MASCHIO GASPARDO warrants this product to be free from defect in material and workmanship for a period of ninety (90) days from the date of delivery of the product to the original purchaser.

Under no circumstances will this Warranty apply in the event that the product, in the good faith opinion of MASCHIO GASPARDO, has been subjected to improper operation, improper maintenance, misuse, or an accident. This Warranty does not cover normal wear or tear, or normal maintenance items.

This Warranty is extended solely to the original purchaser of the product. Should the original purchaser sell or otherwise transfer this product to a third party, this Warranty does not transfer to the third party purchaser in any way. There are no third party beneficiaries of this Warranty.

MASCHIO GASPARDO' obligation under this Warranty is limited to, at MASCHIO GASPARDO' option, the repair or replacement, free of charge, of the

product if MASCHIO GASPARDO, in its sole discretion, deems it to be defective or in noncompliance with this Warranty. The product must be returned to MASCHIO GASPARDO with proof of purchase within thirty (30) days after such defect or noncompliance is discovered or should have been discovered, routed through the dealer and distributor from whom the purchase was made, transportation charges prepaid. MASCHIO GASPARDO shall complete such repair or replacement within a reasonable time after MASCHIO GASPARDO receives the product. THERE ARE NO OTHER REMEDIES UNDER THIS WARRANTY THE REMEDY OF REPAIR OR REPLACEMENT IS

THE SOLE AND EXCLUSIVE REMEDY UNDER THIS WARRANTY.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. MASCHIO GASPARDO MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, AND MASCHIO GASPARDO SPECIFICALLY DISCLAIMS ANY IMPLIED WARRANTY OF MERCHANTABILITY AND/OR ANY IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE.

MASCHIO GASPARDO shall not be liable for any incidental or consequential losses, damages or expenses, arising directly or indirectly from the product, whether such claim is based upon breach of contract, breach of warranty, negligence, strict liability in tort or any other legal theory. Without limiting the generality of the foregoing, MASCHIO GASPARDO specifically disclaims any damages relating to (i) lost profits, business, revenues or goodwill; (ii) loss of crops; (iii) loss because of delay in harvesting; (iv) any expense or loss

incurred for labor, supplies, substitute machinery or rental; or (v) any other type of damage to property or economic loss.

This Warranty is subject to any existing conditions of supply which may directly affect MASCHIO GASPARDO' ability to obtain materials or manufacture replacement parts.

No agent, representative, dealer, distributor, service person, salesperson, or employee of any company, including without limitation, MASCHIO GASPARDO, its authorized dealers, distributors, and service centers, is authorized to alter, modify, or enlarge this Warranty.

For warranty services contact your selling dealer.

# **NOTES**



# **NOTES**


# ALWAYS USE ORIGINAL SPARE PARTS



**DEALER:** 



#### MASCHIO GASPARDO SpA Sede legale e stabilimento produttivo

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MASCHIO-GASPARDO INDIA
MASCHIO-GASPARDO KOREA