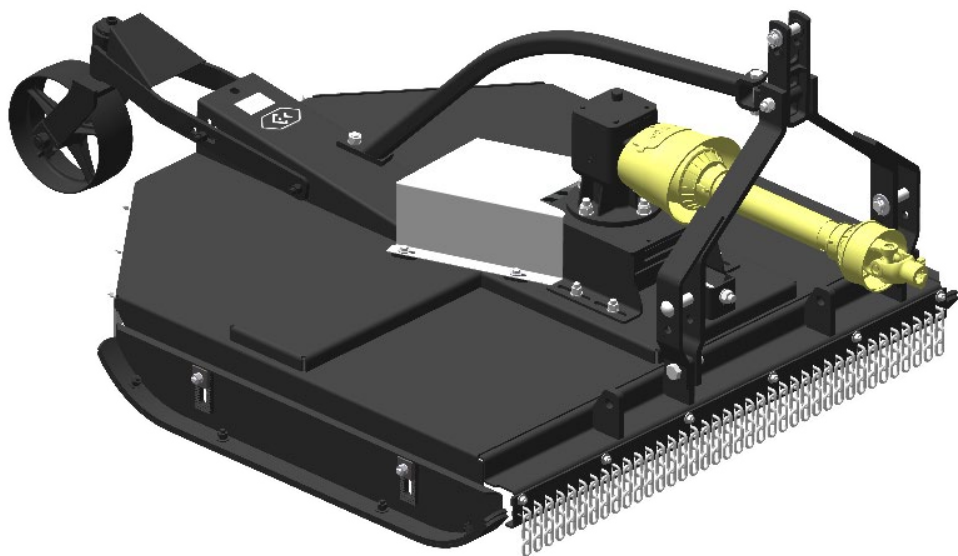


Instruction Manual



RP/RPU 1300/1500/1700

Central and Lateral Mounted Rotary Cutter

 **BALDAN**

■ Presentation

We appreciate your preference and congratulate you for the excellent choice you have just made, by purchasing a product manufactured with **BALDAN IMPLEMENTOS AGRÍCOLAS S/A** technology.

This manual provides guidance on the necessary processes, from purchase to operating, use, safety and maintenance procedures.

BALDAN guarantees that it has delivered this implement to the distributor in complete and perfect condition.

The distributor is responsible for its care and conservation for the time it remains in its possession, as well as its assembly, readjustment, lubrication and general inspection.

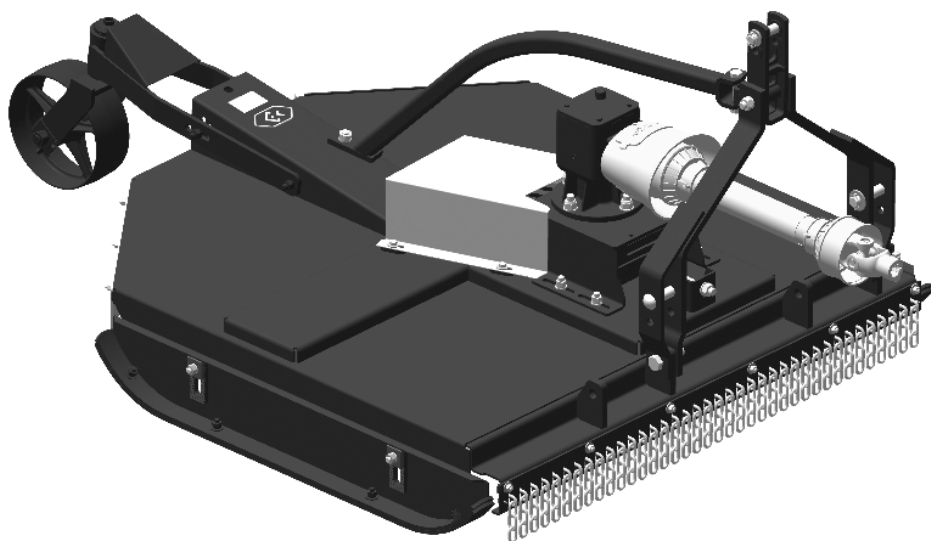
During the technical delivery, the distributor must advise the user customer on maintenance, safety, their obligations in case of technical assistance, strict compliance with the warranty period and reading the instruction manual.

Any request for technical assistance under warranty must be made with the distributor where the product was purchased.

We reiterate the need for careful reading of the warranty certificate and compliance with all elements of this manual, as this will increase the shelf-life of your implement.



Instruction Manual



RP / RPU 1300/1500/1700

Central and Lateral Mounted Rotary Cutter

BALDAN IMPLEMENTOS AGRÍCOLAS S/A.
CNPJ: 52.311.347/0009-06
Insc. Est.: 441.016.953.110



Scan the QR Code on the
identification plate of your
device and access this
Instruction Manual Online

 **BALDAN**

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▪ **Baldan Warranty**

BALDAN IMPLEMENTOS AGRÍCOLAS S/A guarantees the normal operation of the implement to the dealer for a period of 6 (six) months from the date of delivery on the resale invoice to the first end consumer.

During this period, **BALDAN** undertakes to remedy defects in materials and/or workmanship of its responsibility, being labor, freight and other expenses the dealer's responsibilities.

During the warranty period, the request and replacement of any defective parts must be made to the regional dealer, who will send the defective part for analysis at **BALDAN**.

When such procedure is not possible and the reseller has exhausted its resolution capacity, it will request support from **BALDAN's** Technical Assistance, through a specific form distributed to resellers.

After analyzing the replaced items by **BALDAN's** Technical Assistance, and concluding that it is not a warranty, then the costs related to the replacement will be the responsibility of the dealer;

as well as expenses for material, travel including accommodation and meals, accessories, used lubricant and other expenses arising from the call for Technical Assistance, and the company **BALDAN** is authorized to make the respective billing on behalf of the reseller.

Any repair made to the product that is within the warranty period by the dealer, will only be authorized by **BALDAN** upon prior presentation of a quote describing parts and labor to be performed.

This term excludes the product that undergoes repairs or modifications by officials who do not belong to the **BALDAN** dealer network, as well as the application of non-genuine parts or components to the user's product.

This guarantee will become null when it is determined that the defect or damage is resulting from improper product use, failure to follow instructions or the inexperience of the operator.

It is agreed that this warranty does not cover tires, deposits of polyethylene, cardans, hydraulic components, etc., which are equipment guaranteed by their manufacturers.

Manufacturing and or material defects, object of this warranty term, will not constitute, under any circumstances, reason for purchase and sale contract termination, or compensation of any nature.

Baldan reserves the right to change and/or improve the technical characteristics of its products, without prior notice, and without obligation to do so with previously manufactured products.

▪ General Information

• To owner

BALDAN IMPLEMENTOS AGRÍCOLAS S/A, is not responsible for any damage caused by accident from use, transport or in improper or incorrect storage of your implement, whether by negligence and / or inexperience of anyone.

Only people who have full knowledge of the tractor and the implement must make the transport and the operation thereof

BALDAN is not responsible for any damage caused in unpredictable situations or others to implement's normal use.

Improper handling of this equipment can result in serious or fatal accidents. Before putting the equipment into operation, carefully read the instructions contained in this manual. Make sure that the person responsible for the operation is instructed in the correct and safe handling. Also make sure the operator has read and understood the product instruction manual.

ATTENTION

NR-31 - SAFETY AND HEALTH AT WORK IN AGRICULTURE, LIVESTOCK FORESTRY, LOGGING AND AQUACULTURE.

This Regulatory Standard is to establish the principles to be observed in the organization and in the workplace, consistent with planning and development of agricultural, livestock, forestry, logging and aquaculture activities with safety and health, environment of Work.

MR. OWNER OR EQUIPMENT OPERATOR.

Read and follow carefully the provisions of NR-31.

More information, visit the website and read in full the NR-31.
<http://portal.mte.gov.br/legislacao/normas-regulamentadoras-1.htm>

▪ Safety Standards

- To the operator



THIS SYMBOL INDICATES AN IMPORTANT SAFETY WARNING. IN THIS MANUAL, WHENEVER YOU FIND IT, CAREFULLY READ THE FOLLOWING MESSAGE AND BE AWARE OF THE POSSIBILITY OF PERSONAL INJURY.



ATTENTION



Read the instruction manual carefully for recommended safety practices.



ATTENTION



Only start operating the tractor when you are properly accommodated and with the seat belt fastened.



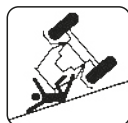
ATTENTION



Do not transport people on the tractor or inside or on the equipment.



ATTENTION



There is a risk of serious injury from tipping over when working on slopes. Do not use excessive speed.



ATTENTION



Do not work with the tractor if the front is without enough ballast for the rear equipment. If there is a tendency to lift, add weights or weights to the front or front wheels.



ATTENTION



Before doing any maintenance on your equipment, make sure it is properly stopped. Avoid getting run over.

▪ Safety Standards

ATTENTION

FOLLOW ALL RECOMMENDATIONS, WARNINGS AND SAFE PRACTICES RECOMMENDED IN THIS MANUAL, UNDERSTAND THE IMPORTANCE OF YOUR SAFETY. ACCIDENTS CAN LEAD TO DISABILITY OR EVEN DEATH. REMEMBER, ACCIDENTS CAN BE AVOIDED!

ATTENTION



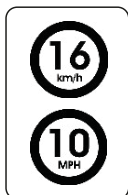
Before starting work on or transporting the RP/RPU, check it for people or obstructions.

ATTENTION



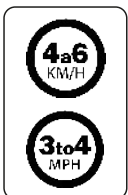
Always keep the access and work places clean of residues such as oil or grease, as they can cause accidents.

ATTENTION



When transporting the RP/RPU, do not exceed a speed of 16 km/h or 10 MPH, avoiding the risk of damage and accidents.

ATTENTION



When working with the RP/RPU, do not exceed a speed of 4 to 6 Km/h or 3 to 4 MPH, avoiding the risk of damage and accidents.

ATTENTION



Do not make adjustments with the RP/RPU in operation. When doing any work on the RP/RPU, turn off the tractor first. Use proper tools.

ATTENTION

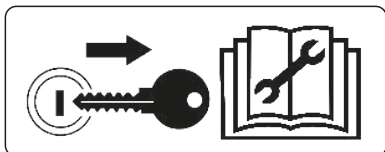


Improperly disposing of waste affects the environment and ecology, as it will be polluting rivers, canals

or the soil.

Find out about the correct way to recycle or dispose of waste.

PROTECT THE ENVIRONMENT!

▪ Safety Standards**! ATTENTION**

Remove the ignition key before performing any maintenance on the RP/RPU.

- Protect yourself from possible injury or death caused by an unforeseen departure of the RP/RPU.
- If the RP/RPU is not properly engaged, do not start the tractor.

! ATTENTION

There are risks of injury or death to the mower operator and bystanders during operations for the following reasons:

- Body contact with rotating knives.
- Wrapping the body in transmission shafts and rotary shafts.

! ATTENTION

To prevent serious injury or death, when the cutter is in operation and the knives are rotating, proceed as follows:

- Stop and turn off the equipment if people are less than 50 meters away.



- Do not put hands or feet under the chassis. Contact with knives can cause serious injury or death.



- Never allow people on or under the cutter, especially children.

! ATTENTION

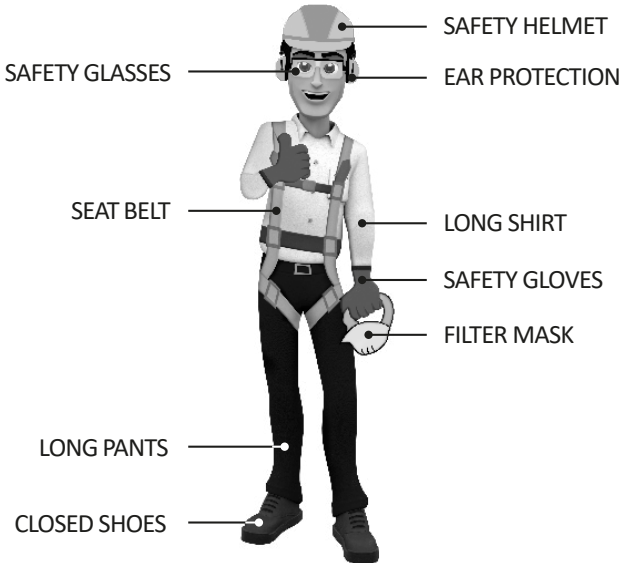
The cutters can drop fragments or throw objects at high speeds which can cause serious injury or death to those nearby.

▪ Safety regulations

• PPE equipment

! ATTENTION | DO NOT WORK WITH RP/RPU WITHOUT FIRST PUTTING ON THE EPIS (SAFETY EQUIPMENT). IGNORING THIS WARNING COULD CAUSE DAMAGE TO YOUR HEALTH, SERIOUS ACCIDENTS OR DEATH.

When carrying out certain procedures with **RP/RPU**, wear the following PPE (Safety Equipment):























! IMPORTANT

Safety practices must be carried out at all stages of working with the RP/RPU, thus avoiding accidents such as the impact of objects, falls, noises, cuts and ergonomics, i.e. the person responsible for operating the RP/RPU is subject to internal and external damage to their body.

NOTE | All PPE (safety equipment) must have a certificate of authenticity.



▪ Warnings

-  When operating with the RP/RPU, do not allow people to stand too close or on top of it.
-  When carrying out any maintenance service, use the PPE equipment.
-  Do not make adjustments with the RP/RPU in operation.
-  Do not travel on highways, especially at night. Use warning signs throughout the route.
-  If there is a need to travel with the RP/RPU on the highways, consult the transit agencies beforehand.
-  Do not wear clothes that are too loose, as they may become entangled in the RP/RPU.
-  When starting the tractor engine, be properly seated in the operator's seat and aware of complete knowledge of the correct and safe handling of both the tractor and the RP/RPU. Always place the gearshift lever in the neutral position, disconnect the control gear from the power take-off and place the hydraulic controls in the neutral position.
-  Do not start the tractor engine indoors, without adequate ventilation, as the exhaust gases are harmful to health.
-  When maneuvering the tractor to RP/RPU hitch, make sure you have the necessary space and that no one is too close, always maneuver at idle speed and be prepared to brake in an emergency.
-  When working on sloping terrain, proceed with care always trying to maintain the necessary stability. In case of an imbalance beginning, reduce the acceleration, turn the wheels to the side of the terrain slope and never raise the RP/RPU.
-  Always drive the tractor at speeds compatible with safety, especially when working on rough terrain or on slopes, keep the tractor in gear at all times.
-  When driving the tractor on roads, keep the brake pedals interlocked and use safety signs.
-  Do not allow the RP/RPU to be used by people who have not been trained, that is, who do not know how to operate it correctly.
-  Do not transport or work with the RP/RPU near obstacles, rivers or streams.
-  Only operate the RP/RPU if all protections are installed and correctly.
-  Do not, under any circumstances, remove the protective components of the RP/RPU.
-  Do not operate the tractor with a light front. If the front tends to lift, add more weight to the front or front wheels.
-  When leaving the tractor, place the gearshift lever in neutral position and apply the parking brake. Never leave the RP/RPU hitched to the tractor in the raised position of the hydraulic system.
-  The transport of people on self-propelled machines and implements is prohibited.
-  Alterations to the original RP/RPU characteristics are not authorized as they may alter safety, function and affect service life.

▪ Warnings

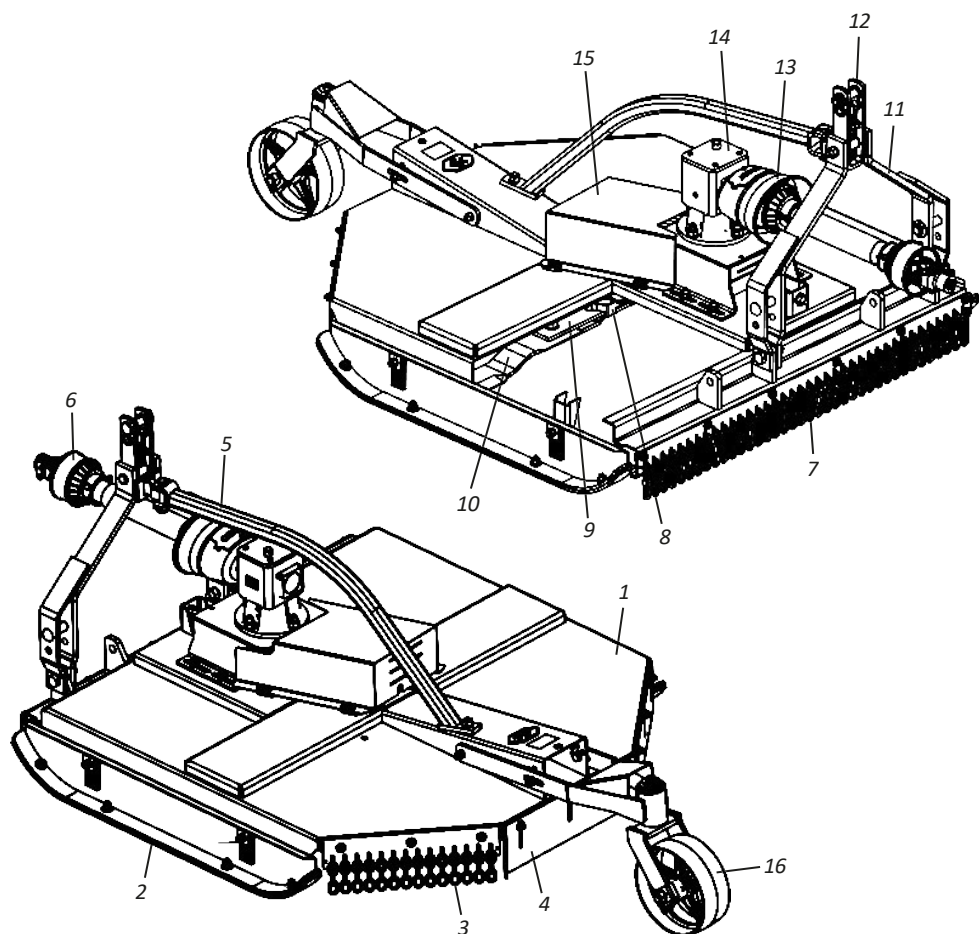
- ⚠ Carefully read all safety information contained in this manual and on the RP/RPU.
- ⚠ All inspections must be done with the RP/RPU stopped and turned off, using secure means of access.
- ⚠ Access, maintenance and especially inspection in risk areas of the RP/RPU must only be done by a trained or qualified worker, observing all safety guidelines.
- ⚠ Periodically check all components of the RP/RPU before using it.
- ⚠ Depending on the equipment used and the working conditions in the field or in maintenance areas, precautions are necessary. Baldan has no direct control over precautions, therefore it is the owner's responsibility to put in place safety procedures while working with the RP/RPU.
- ⚠ Any and all maintenance on the RP/RPU must be done with the same shutdown and with the tractor turned off.
- ⚠ Operate the RP/RPU from the driver's seat only. Do not release controls until movements are complete.
- ⚠ Do not leave the seat before locking the controls to prevent any movement.
- ⚠ Regularly check for the presence of safety pins and screws. Do not substitute with other objects such as nails, wires, etc.
- ⚠ The maintenance of the RP/RPU must only be done by specialized people. Before starting maintenance, disconnect all drive systems from the RP/RPU.
- ⚠ The warranty is immediately void when the RP/RPU assembly, adjustment, operation and maintenance instructions are not observed.
- ⚠ Unqualified persons and children are prohibited from operating the RP/RPU.
- ⚠ Alcoholic beverages or some medications can cause loss of reflexes and alter the operator's physical condition. Therefore, never operate this RP/RPU under the use of these substances.
- ⚠ Read or explain all the procedures in this manual to the user who cannot read.

If in doubt, contact the After Sales.
Telephone: 0800-152577 / E-mail: posvenda@baldan.com.br

▪ Components

• RP - Central and Lateral Mounted Rotary Cutter

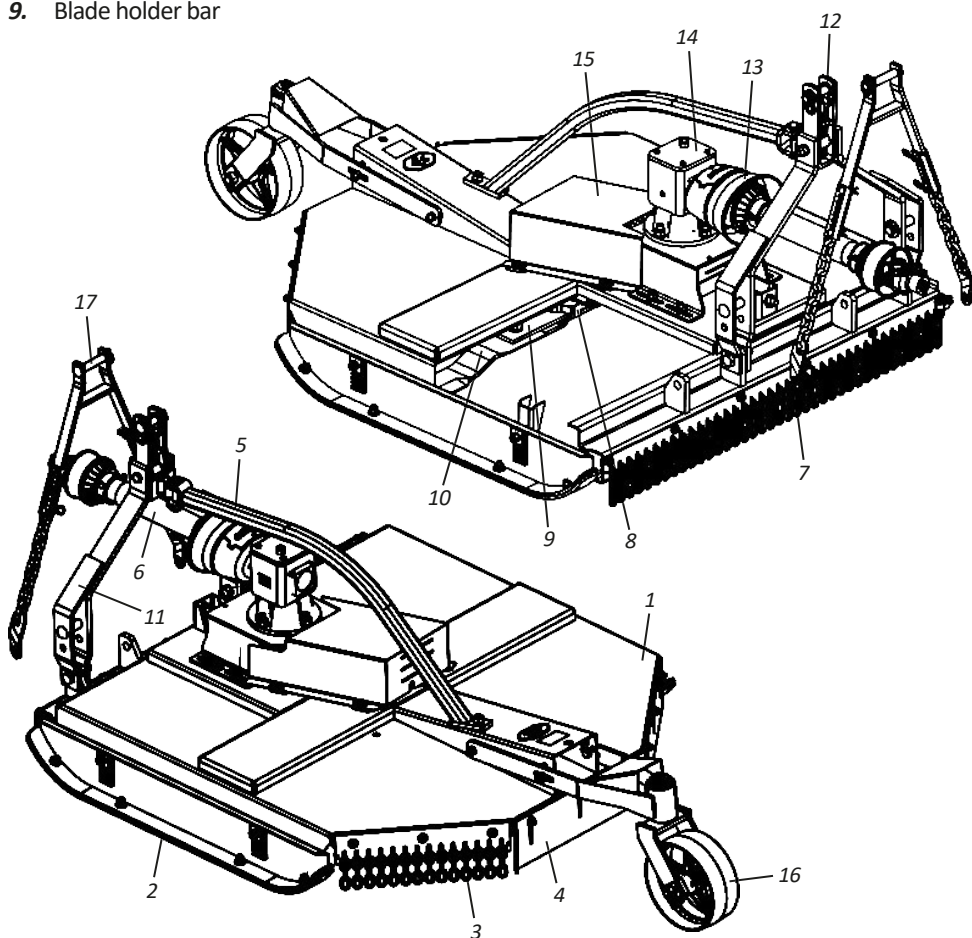
- | | |
|----------------------------|------------------------|
| 1. Blade protection box | 9. Blade holder bar |
| 2. Cutting regulation shoe | 10. Blades |
| 3. Rear guard with chains | 11. Coupling head |
| 4. Rear guard | 12. Hook Shackle |
| 5. Head bracing | 13. Guard assembly |
| 6. Cardan | 14. Multiplier gearbox |
| 7. Full stand with chains | 15. Protection plate |
| 8. Blade fixing bearing | 16. Depth wheel |



■ Components

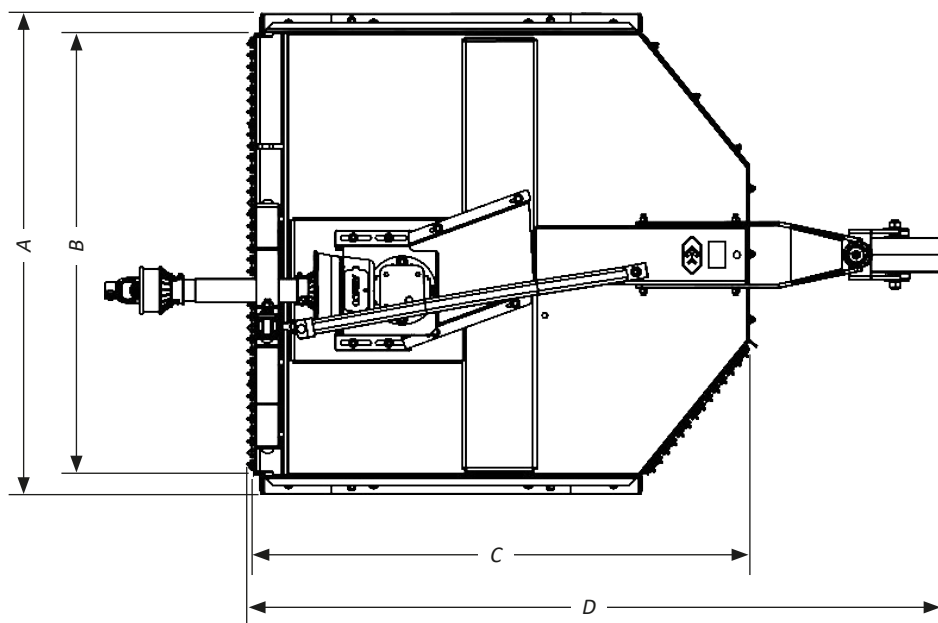
• RPU - Urban Central and Lateral Mounted Rotary Cutter

- | | |
|----------------------------|------------------------------|
| 1. Blade protection box | 10. Blades |
| 2. Cutting regulation shoe | 11. Coupling head |
| 3. Rear guard with chains | 12. Hook Shackle |
| 4. Rear guard | 13. Guard assembly |
| 5. Head bracing | 14. Multiplier gearbox |
| 6. Cardan | 15. Protection plate |
| 7. Full stand with chains | 16. Depth wheel |
| 8. Blade fixing bearing | 17. Height-limiting coupling |
| 9. Blade holder bar | |

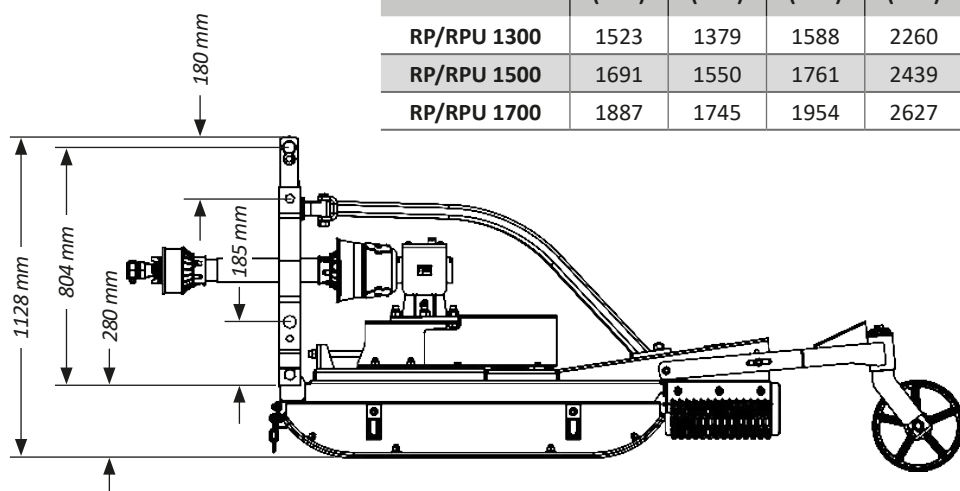


▪ Dimensions

• RP/RPU



Model	A (mm)	B (mm)	C (mm)	D (mm)
RP/RPU 1300	1523	1379	1588	2260
RP/RPU 1500	1691	1550	1761	2439
RP/RPU 1700	1887	1745	1954	2627



▪ Specifications

• RP/RPU - Central and Lateral Mounted Rotary Cutter/Urban

Model	Nr of Blades	Cutting Width (mm)	Cutting Height (mm)	Length of Cardan (mm)	RPM at PTO	RPM of Blades	Approx. Weight (Kg)	Tractor Power (HP)
RP/RPU 1300	2	1300	40-140	500	540	940	448	61
RP/RPU 1500	2	1500	40-140	500	540	940	479	73
RP/RPU 1700	2	1700	40-140	500	540	940	522	73

*Baldan reserves the right to change and/or improve the technical characteristics of its products, without prior notice, and without obligation to do so with previously manufactured products.
Technical specifications are approximate and reported under normal working conditions.*

INTENDED USE OF RP/RPU

- **RP/RPU** was developed for the most diverse types of mowing in the most varied types of vegetation.
- The **RP/RPU** must be driven and activated only by a duly instructed operator.

NOT ALLOWED USE OF RP/RPU

- To avoid damage, serious accident or death, **DO NOT** carry people on any part of the **RP/RPU**.
- It is **NOT** allowed to use the **RP/RPU** to attach, tow or push other implements or accessories.
- The **RP/RPU** must **NOT** be used by an inexperienced operator who does not know all the techniques of driving, command and operation.

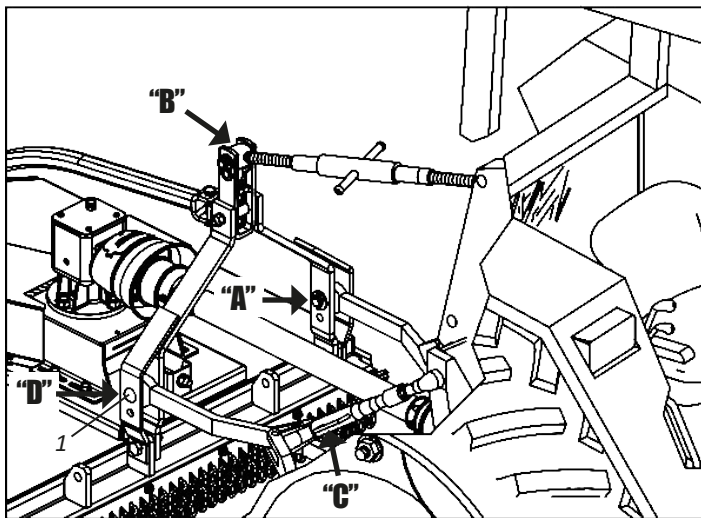
▪ Hitch

• Tractor Hitch - RP

Before engaging the **RP** in the tractor, check if the tractor has weight or ballast sets in the front or rear wheels to avoid lifting the tractor. Rear wheels will give greater stability and soil traction to the tractor.

To couple **RP**, proceed as follows:

- 01** - Slowly approach the tractor to the **RP** in reverse, paying attention when to use the brakes.
- 02** - Next, use the hydraulic position control lever as you approach the **RP**, leaving the lower left arm at the level of the mower hook.
- 03** - Engage the lower left arm of the tractor through the engaging pin (1) on the “**A**” bracket of the **RP**.
- 04** - Engage the 3rd point of the tractor in bracket “**B**” of the **RP**.
- 05** - Then, using the adjusting lever “**C**”, engage the lower right arm of the tractor in the “**D**” bracket of the **RP**.



ATTENTION

When lifting the tractor hydraulics, check the hydraulic height limit so that the tractor does not touch the top of the blade box. Hydraulic lift varies according to the tractor model.



OBSERVATION

When hitching **RP** up, look for a safe place and easy access, always use low gear with low acceleration.

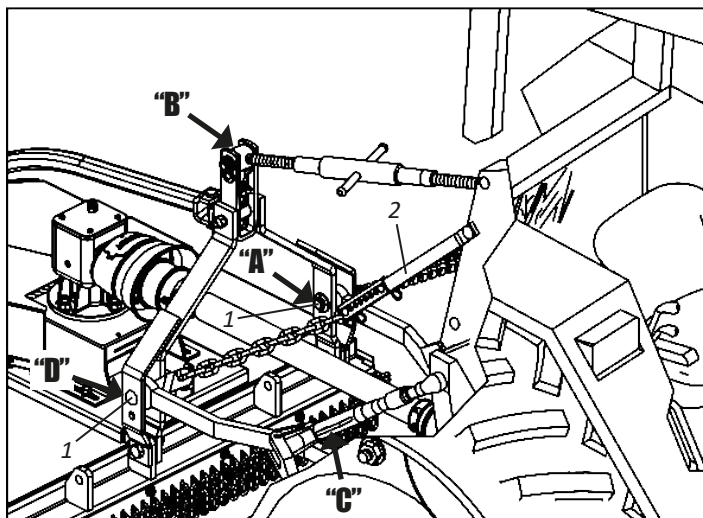
▪ Hitch

• Tractor Hitch - RPU

Before engaging the **RPU** in the tractor, check if the tractor has weight or ballast sets in the front or rear wheels to avoid lifting the tractor. Rear wheels will give greater stability and soil traction to the tractor.

To couple **RPU**, proceed as follows:

- 01** - Aproxime-se lentamente o trator a **RPU** em marcha-a-ré, ficando atento a aplicação dos freios.
- 02** - Em seguida, utilize a alavanca do controle de posição do hidráulico ao se aproximar da **RPU**, deixando o braço inferior esquerdo no nível do engate da roçadeira.
- 03** - Engage the lower left arm of the tractor together with the limiter clutch plate (2) securing with the pin (1) on the "A" bracket of the **RPU**.
- 04** - Engage the 3rd point of the tractor in the "B" support of the **RPU**.
- 05** - Then, using the adjusting lever "C", engage the lower right arm of the tractor together with the limiting coupling plate (2) by fastening with the pin (1) on the "D" side of the **RPU**.



ATTENTION

When lifting the tractor hydraulics, check the hydraulic height limit so that the tractor does not touch the top of the blade box. Hydraulic lift varies according to the tractor model.

OBSERVATION

When hitching RPU up, look for a safe place and easy access, always use low gear with low acceleration.

▪ Hitch

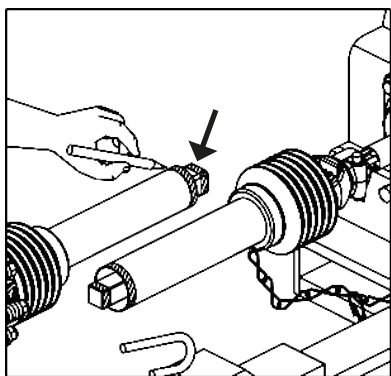
• Cardan length adjustment - Part I

Before engaging the cardan, check the length of the tractor with respect to the tractor model that will pull the rotary cutter.

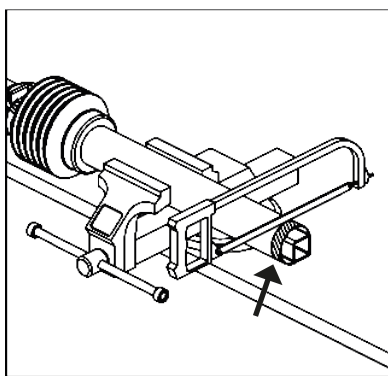
❗ IMPORTANT

Before cutting the cardan, check the adjustment of the tractor's drawbar, which can increase or decrease its compliance, avoiding the cardan cut.

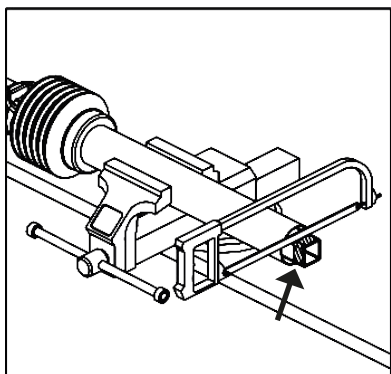
To perform the cardan cut, proceed as follows:



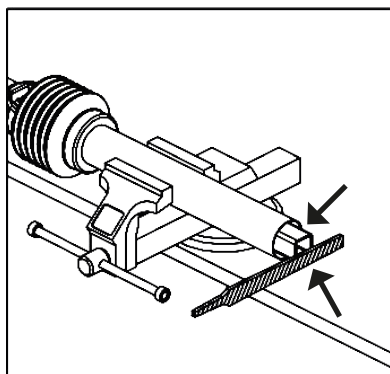
Secure the shaft halves from the shaft close to each other in the working position and mark the part to be cut.



Shorten the inner and outer guards of the cardan proportionally.



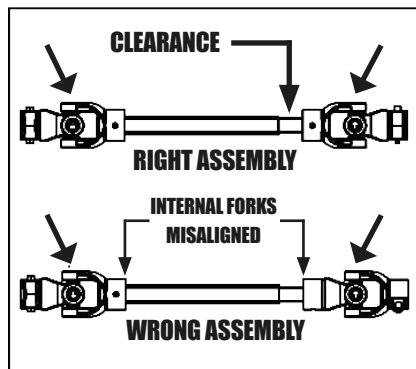
Cut the inner bars of the cardan in the same length as the protective tubes.



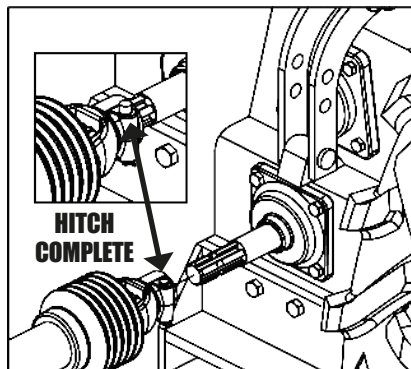
Remove all burrs and edges. Clean and grease the cardan sliding bars.

▪ Hitch

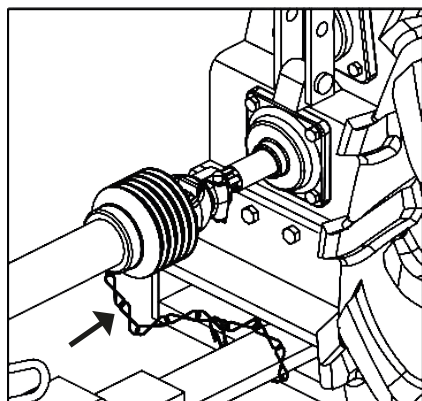
• Cardan length adjustment - Part II



When assembling, observe that the internal and external terminals are always in the same plane, aligned. Also check the clearance on the telescopic axle, which should be of 5 to 7 cm.



Attach the flange to the TDP axle of the tractor observing that the engagement will only be completed when the lock (1) jumps out.



Do not connect the cardan chains while they are stretched. Keep a gap in the installation and consider angular movements.

! IMPORTANT

Every time you change the tractor, check the cardan shaft length again.

🔍 OBSERVATION

Check the cardan joint angle on page 25 and other recommendations for using it.

! ATTENTION

Incorrect mounting of the cardan causes excessive vibration, which is harmful to the transmission.

When engaging the cardan in the TDP, the tractor must be switched off with the parking brake applied.

▪ Adjustments

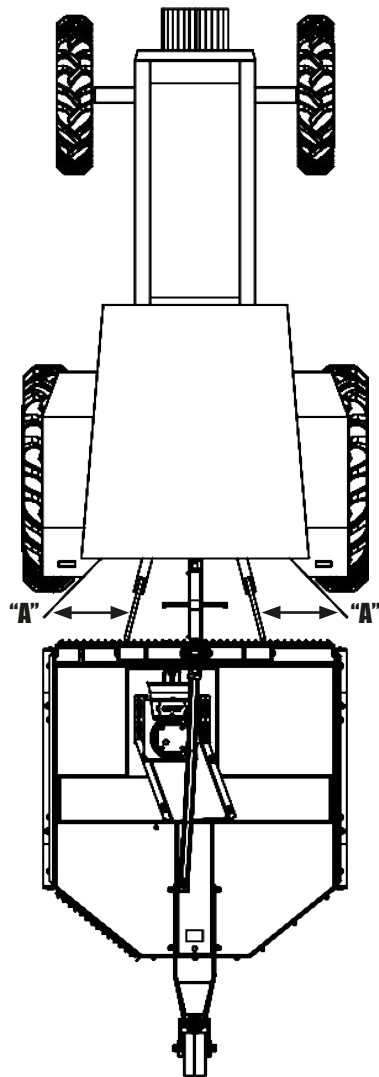
• Centralization

To center the **RP/RPU** relative to the longitudinal axis of the tractor, proceed as follows:

01 - Align the top link of the RP/RPU with the 3rd point of the tractor.

02 - Then lift the **RP/RPU** completely.

03 - Next, check that the distances "**A**" of the lower hydraulic arms are equal to the tractor tires. The lower arms should be level with each other.



ATTENTION

Never adjust the tractor's lower hydraulic arms with the RP/RPU down.

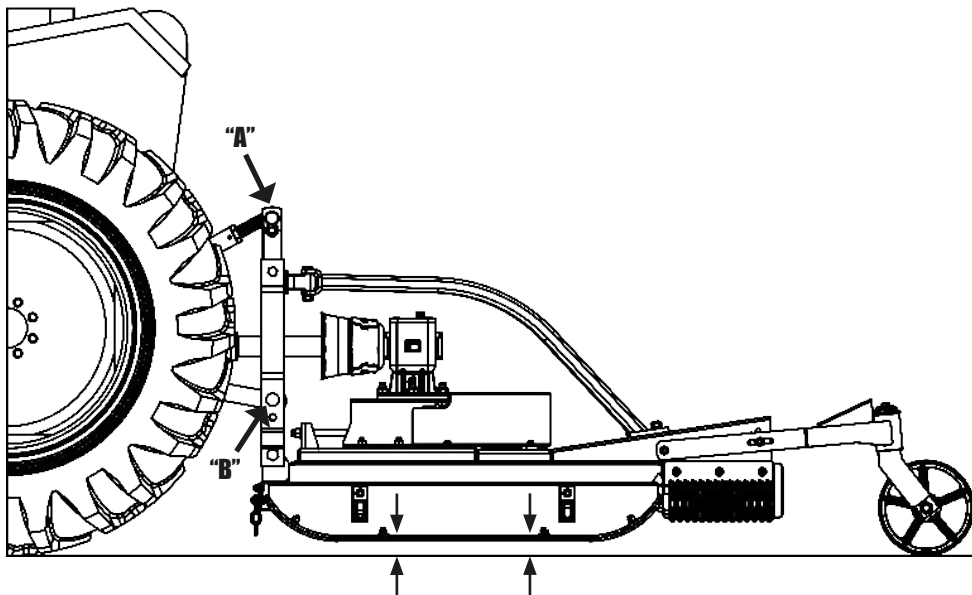
▪ Adjustments

• Leveling

To level **RP/RPU** in relation to the longitudinal axis of the tractor, proceed as follows:

01 - First, the tractor must be in a flat location.

02 - Then, through the upper arm **"A"** and lower right **"B"**, which have adjustments, level the **RP/RPU**.



ATTENTION

Check the clearance on the cardan, which should be of 5 to 7 cm. If there is no gap, adjust the length of the gimbal as instructed on pages 19 and 20.

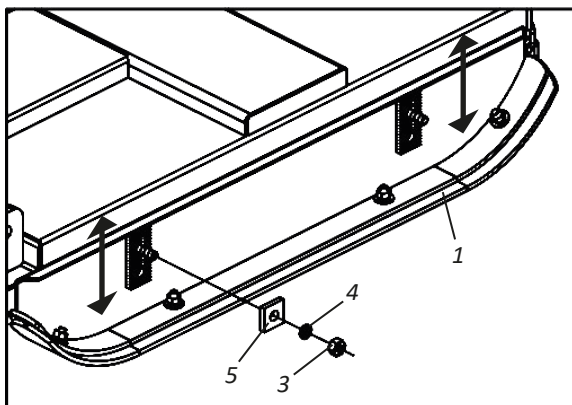
▪ Adjustments

• Cutting height adjustment

The cutting height of the **RP/RPU** is regulated by the side shoes (1) and the rear wheel (2). To adjust the cutting height, proceed as follows:

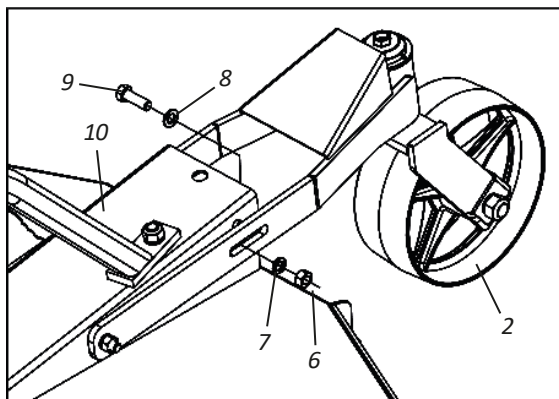
SIDE SHOES

- 01** - Loosen the nuts (3), pressure washers (4), and grooved plates (5).
- 02** - Then adjust the side shoes (1) by positioning them at the desired height.
- 03** - Then, retighten the grooved plates (5) through the pressure washers (4) and nuts (3).



REAR WHEEL

- 04** - After regulating the side shoes (1), loosen the nuts (6), pressure washers (7), flat washer (8), and remove screws (9).
- 05** - Then adjust the rear wheel (2) by positioning it at the desired height through the bracket bore hole (10).
- 06** - Finish by replacing screws (9), flat washers (8), pressure washers (7), and nuts (6), retightening them.



⚠ ATTENTION

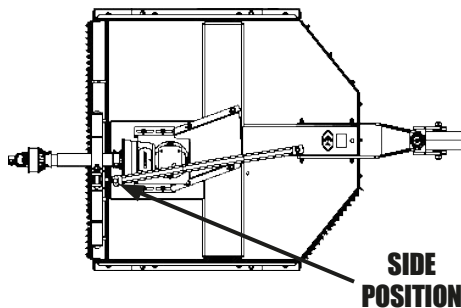
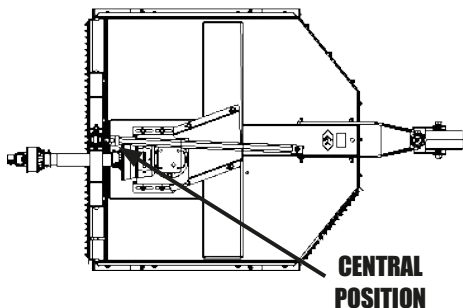
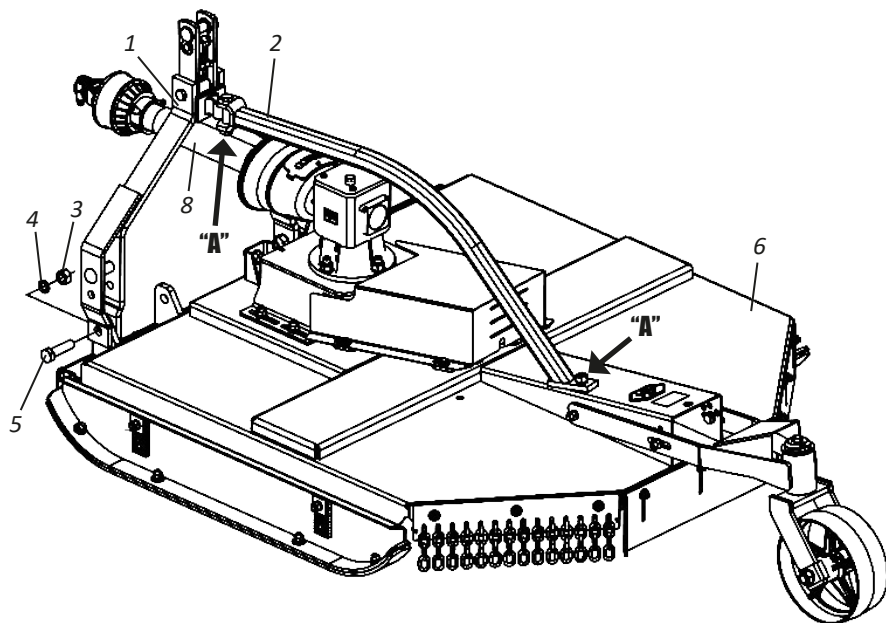
We recommend a cutting height of at least 50 mm above the ground.

▪ Adjustments

• Working position

The **RP/RPU** can work in a central and lateral position in relation to the tractor. To change the position of the header (1), proceed as follows:

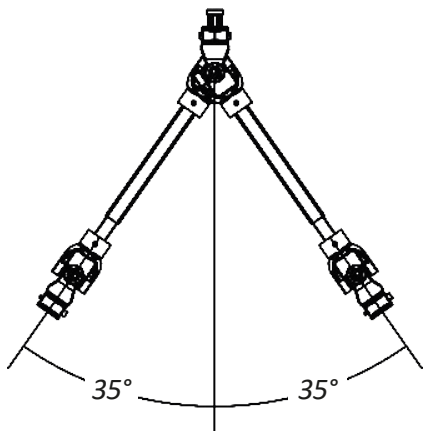
- 01** - Loosen the nuts "A" that fix the header support (2), there is no need to remove them.
- 02** - Then, remove the nuts (3), pressure washers (4), screws (5) and move the header (1) to the other support of the knife protection box (6).
- 03** - Then, replace the screws (5), pressure washers (4) and nuts (3) securing the header (1).
- 04** - Finally, retighten nuts "A" that secure the header support (2).



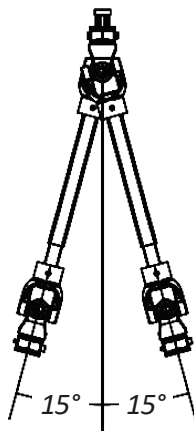
▀ Operations

• Cardan recommendations

The cardan is limited in its maximum angle of articulation. This angle, with a running cardan, can reach a maximum of 35° for a short period of time. In continuous work, it should not exceed 15° .



IN A SHORT PERIOD OF TIME



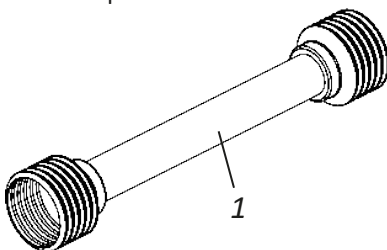
IN CONTINUOUS WORK



ATTENTION

Never engage the TDP when the joint is at an angle greater than 15° . When maneuvering with TDP off, never exceed 35° of pivot angle, this may occur in transport paths or maneuvers in warehouses with the coupled cardan.

Safety protection (1) is a fundamentally important component for the user's personal safety and for the cardan shaft's lifespan.



IMPORTANT

Do not work with the RP/RPU if the cardan is not protected (1). Ignoring this warning may cause cardan damages or severe accidents.

▪ Operations

• Recommendations for operation

- 01** - Before starting work, thorough review the **RP/RPU**. The oil level of the multiplier must be filled, and nuts and screws must be retightened. Also check the locking of pins and cotters.
- 02** - The ideal work rotation is **540 rpm for TDP**. Check the corresponding rotation on the motor, in the tractor manual. This rotation on the traction motor changes from tractor to tractor.
- 03** - For best performance, we recommend cutting height at least **50 mm** above ground.
- 04** - To ensure a good work result, the site that will be cleared must be free of stones and stumps.
- 05** - First, put the blades in operation and then start cutting the vegetation.
- 06** - Do not connect TDP with blades caught in dirt mounds, sticks or stumps, objects can be projected and cause serious injury.
- 07** - During work, maintain a constant motor rotation, avoiding the tractor's average speed variation to avoid inefficiency or product distribution failures.
- 08** - To engage or uncouple the cardan, the TDP must be switched off.
- 09** - During work do not vary the speed of the tractor, this causes inefficient cutting.
- 10** - Keep the average speed and keep it in the middle of the work. Recommended average speed is **4 to 6 km/h**.
- 11** - In excessively corrugated soils, adjusting the cutting height should prevent the blades from excessively touching the ground.
- 12** - The lower arms of the tractor must be adjusted with the **RP/RPU** fully erected. In high density vegetation, we recommend the use of reduced gear, maintaining the rotation in the **TDP at constant 540 rpm**.
- 13** - When transporting or performing maintenance/inspection, keep the power outlet off.
- 14** - Stop and turn the equipment off if there are people within **50 meters**.

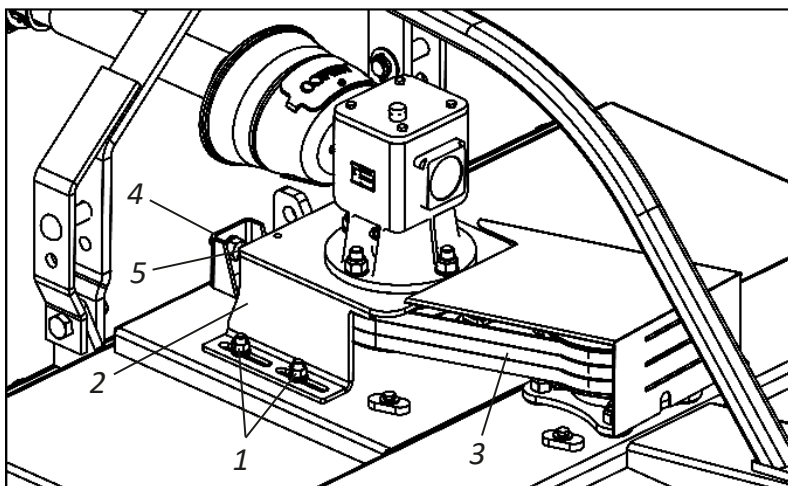
In case of doubts, never operate or handle RP/RPU, refer to Post-Sales.
Telephone: 0800-152577 / E-mail: posvenda@baldan.com.br

▪ Maintenance

• Belt tension

The **RP/RPU** have belts that should be checked daily for their tension. To adjust belt tension, proceed as follows:

- 01** - Loosen the nuts (1) by unlocking the bracket (2).
- 02** - Then tighten the belt tension (3) tightening the nut (4) of the tensioner (5).
- 03** - Then retighten the nuts (1) by locking the bracket (2).



! ATTENTION

Check the belt tension in the first hours of work, then perform a daily check.

If the belts wear out, replace them immediately.

Do not run **RP/RPU** with loose chains.

The chain clearance should be of ± 1 cm in its center.

! IMPORTANT

Before adjusting the tensioning of the belts, make sure that the tractor is switched off, if it is not, switch it off and remove the ignition key.

🔍 OBSERVATION

Adjusting the tension of the belts must be done to avoid excessive slippage during work.

If a large volume of vegetation is encountered or if there is excessive cutting resistance, decrease the working speed or try to cut on a narrower range.

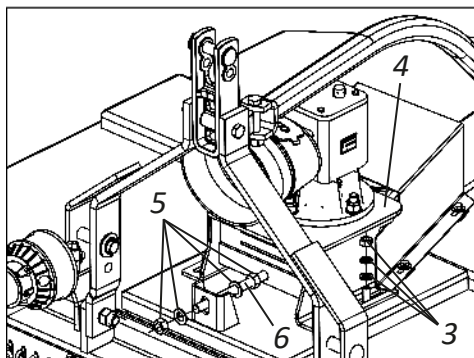
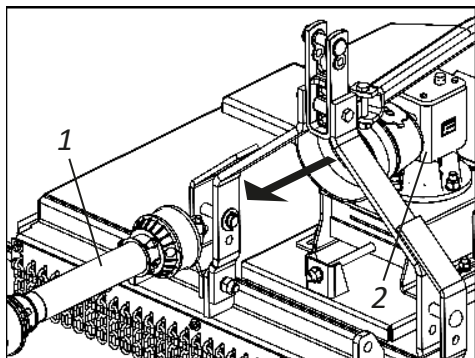
■ Maintenance

• Pulley nut adjustment

Between 50 and 70 hours of use of the **RP/RPU**, the pulley nut must be tightened. To do this, proceed as follows:

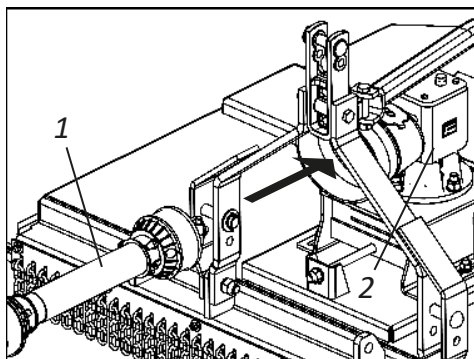
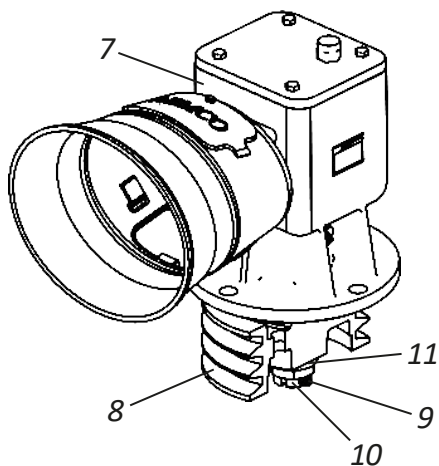
01 - Disengage the cardan (1) from the gearbox (2).

02 - Then, loosen washers and nuts (3) from the support (4) and the nut and locknut (5) together with the tensioner (6).



03 - Then, remove the gearbox (7) together with the pulley (8). Then, remove the cotter pin (9), loosen the castle nut (10) and washer (11), lock the pulley (8) and retighten the washer (11) and castle nut (10) as necessary and secure the cotter pin (9).

04 - Then reassemble all the components and finish fitting the cardan (1) in the multiplier gearbox (2).



ATTENTION

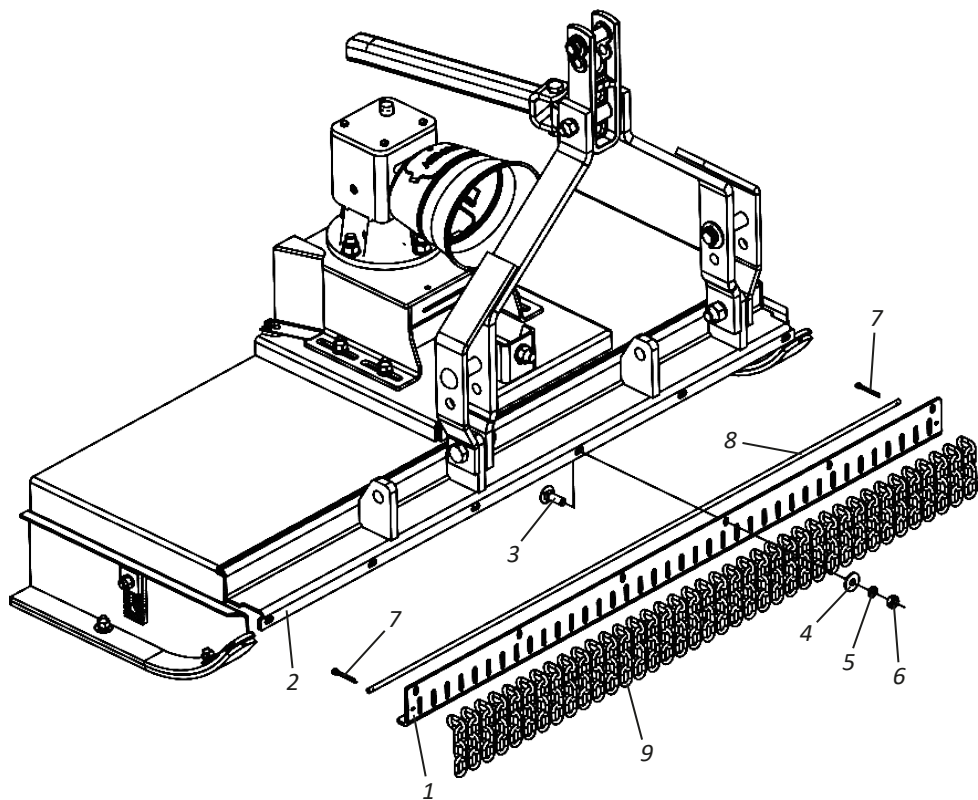
Check the pulley setting when changing the belt set.

▪ Maintenance

• Front guard

The **RP/RPU** have front protection. Periodically check its condition and, if necessary, replace it. To do this, proceed as follows:

- 01** - Release the support with chains (1) from the knife protection box (2) using screws (3), flat washers (4), pressure washers (5) and nuts (6).
- 02** - Then, release the cotter pins (7) and remove the chain fixing rod (8).
- 03** - Then, replace any chains (9) that are damaged.
- 04** - Finish by reassembling all front protection items in the knife protection box (2).



ATTENTION

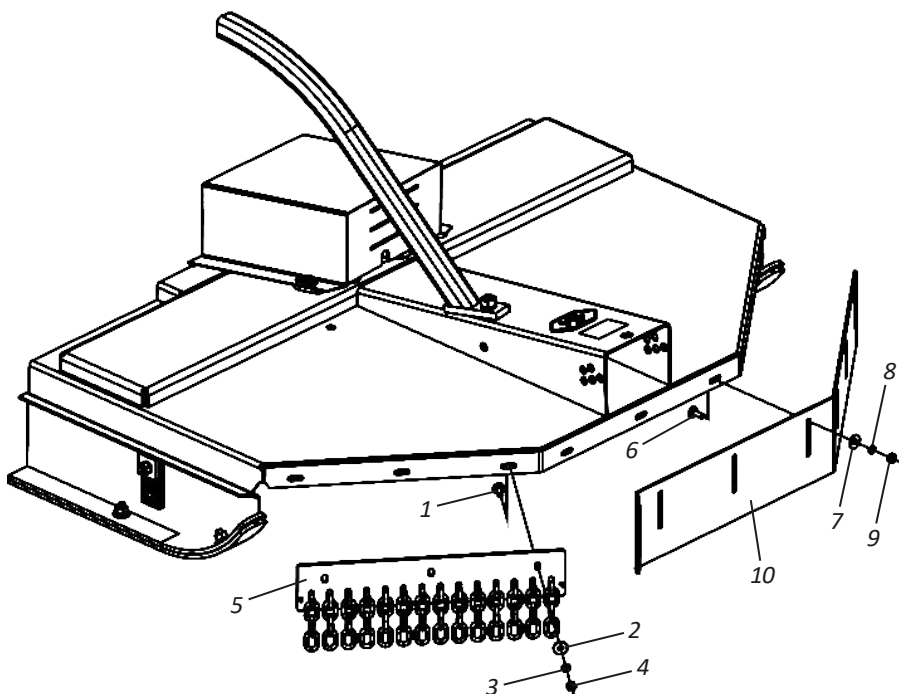
Do not operate the **RP/RPU** without the front guards. Ignoring these warnings may cause severe accidents or death.

▪ Maintenance

• Rear guard

The **RP/RPU** have rear protections that can be made up of chains and plate or completely made of chains (optional). Periodically check their condition and, if necessary, replace them. To do this, proceed as follows:

- 01** - Loosen the screws (1), flat washers (2), pressure washers (3), nuts (4) and replace the rear guard with chains (5).
- 02** - Then, engage the rocker arms fixing bracket (5), securing them through screws (1), plain washers (2), pressure washers (3), and nuts (4).
- 03** - Next, loosen the screws (6), plain washer (7), pressure washers (8), nuts (9) and replace the plate (10).
- 04** - Then, secure the plate (10) through screws (6), plain washers (7), pressure washers (8), and nuts (9).



⚠ ATTENTION | Do not operate the RP/RPU without the rear guards. Ignoring these warnings may cause severe accidents or death.

▪ Maintenance

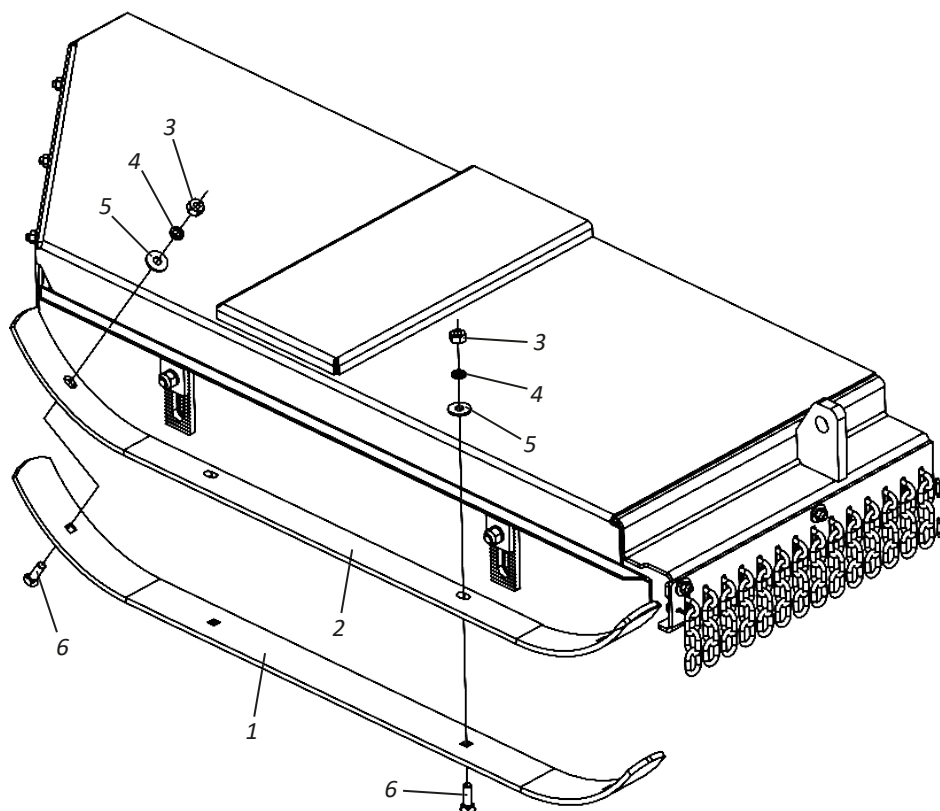
• Replacement of side shoe guide plates

Check periodically for wear on the guide plates (1) of the side shoes (2) of the **RP/RPU**, and replace them if necessary. To adjust the guide plates (1), proceed as follows:

01 - Loosen the nuts (3), lock washers (4), flat washers (5) and screws (6).

02 - Then replace the guide plates (1).

03 - Then, secure them with the screws (6), flat washers (5), spring washers (4) and nuts (3).



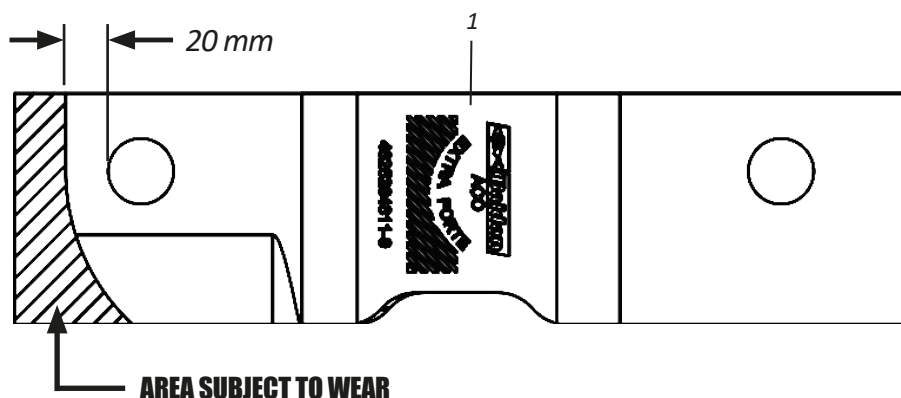
ATTENTION

If there is wear on the screws, washers and nuts, have them replaced. Ignoring this warning could result in serious accidents.

▪ Maintenance

• Blade wear

The **RP/RPU** blades are reversible. Before starting work, carry out a complete inspection of the brush cutter, especially the blades, so that wear does not affect the hole, which should have a 20mm wall. If wear affects the hole or the wall becomes too thin, we recommend changing the blade immediately as it will not have the necessary security, creating a risk of accidents.



ATTENTION

Keep away from the rotating elements especially of the knives until the movement of the knives is interrupted.

In the breaking of the knives, arrange the exchange immediately. Ignoring these warnings could result in serious injury or death.

IMPORTANT

Always keep blades sharp to increase performance and require less tractor effort.

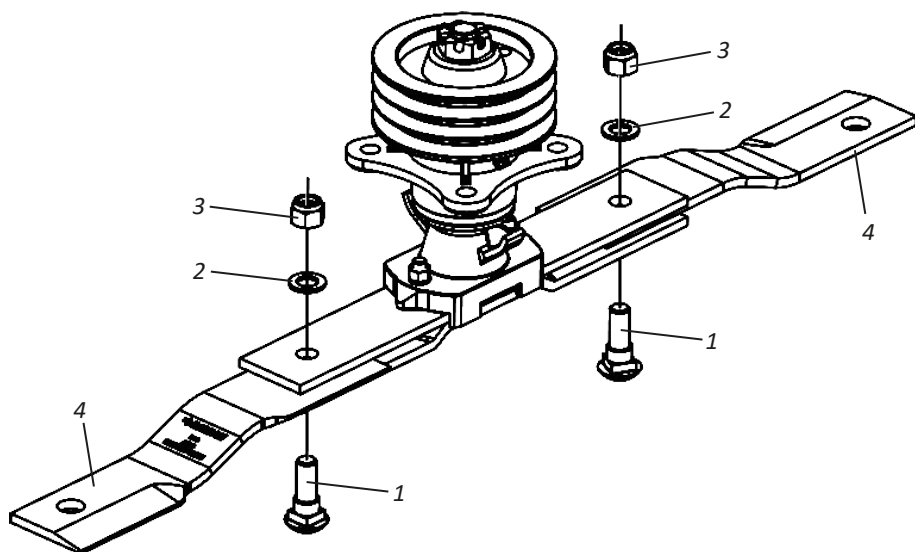
In the event of any loss or breakage of any of the rotating elements, they must be replaced immediately to avoid vibrations and consequently damage to the cutter and work failure.

▪ Maintenance

• Blade replacement - Part I

Before each use of the **RP/RPU**, inspect the blades for proper operation and proper installation. Have the blades replaced if they are broken, bent, over-worn, or otherwise damaged. In addition, replace the blades when you notice imperfections in the cut. To replace the blades, proceed as follows:

- 01** - Loosen the screws (1), pressure washers (2), and nuts (3).
- 02** - Then replace the blades (4).
- 03** - Then, secure them again with screws (1), pressure washers (2), and nuts (3).



⚠ ATTENTION

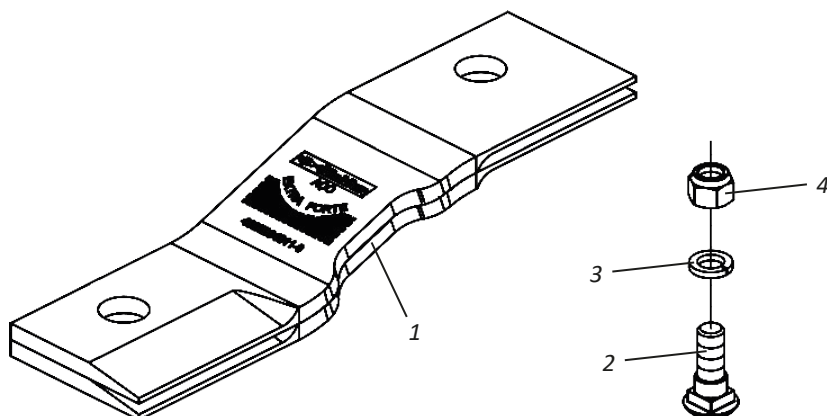
When changing blades, always change torque avoiding RP/RPU damage because of unbalance. Always use original Baldan blades.

⚠ IMPORTANT

Periodically check the condition and tightness of the blades' set screws and nuts. Ignoring this warning may cause severe accidents or death.

■ Maintenance

• Blade replacement - Part II



OBSERVATION When replacing blades (1), replace screws (2), pressure washers (3), and nuts (4).

ATTENTION When replacing the blades (1), note that they are supplied in pairs, which must be retained until they are mounted to the RP/RPU cube. Unbalanced blades can cause excessive vibration and damage bearings, retainers and the transmission case. The weight variation between these blades (1) is within the tolerance limit.

▪ Maintenance

The **RP/RPU** was developed to provide you with maximum performance under terrain conditions. Experience has shown that periodic maintenance of certain parts of the **RP/RPU** is the best way to help you avoid problems, so we suggest checking them.



ATTENTION

Check nuts and bolts, retighten them if necessary. The maintenance of general retighten of the equipment must be performed every 8 hours of work

• Lubrication

Lubrication is indispensable for a good performance and greater durability of **RP/RPU** moving parts, contributing to the maintenance cost savings.

Before starting the operation, carefully lubricate all grease cups, always observing the lubrication intervals in the following pages. Make sure of the lubricant quality regarding its efficiency and purity, avoiding products contaminated by water, dust and other agents.

• Table of greases and equivalents

Manufacturer	Types of grease recommended
Petrobrás	Lubrax GMA-2
Atlantic	Litholine MP 2
Ipiranga	Ipiflex 2
Castrol	LM 2
Mobil	Grease MP
Texaco	Marfak 2
Shell	Alvania EP 2
Esso	Multi H
Bardahl	Maxlub APG-2EP
Valvoline	Palladium MP-2
Petronas	Tutela Jota MP 2 EP
	Tutela Alfa 2K
	Tutela KP 2K

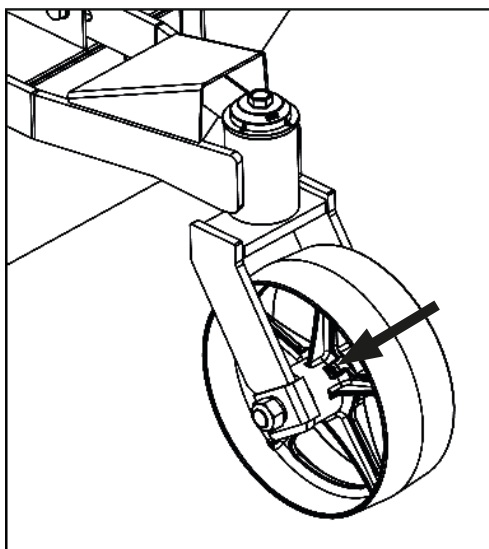


ATTENTION

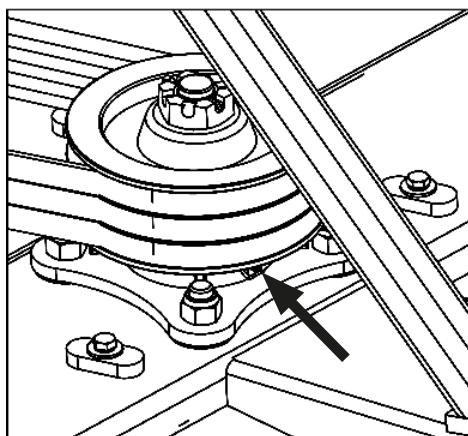
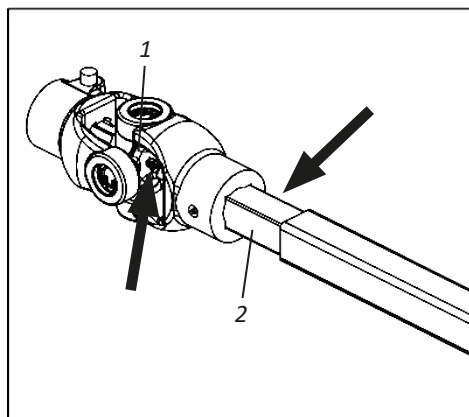
If there are equivalent manufacturers and/or brands that are not listed in the table, consult the manufacturer's technical manual.

▪ Maintenance

- Lubrication every 8 hours of work



Lubricate the crossbars (1) with grease at 8-hour intervals. The telescopic axle (2) must be lubricated weekly.



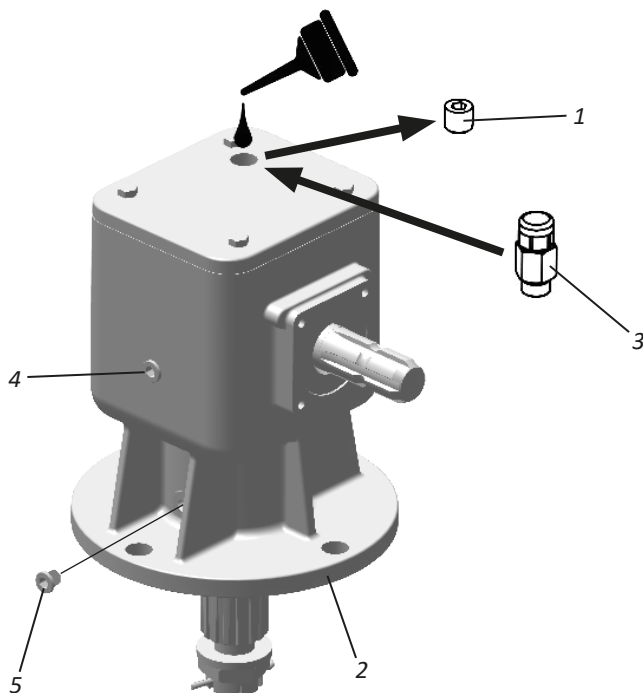
ATTENTION

When lubricating RP/RPU, do not exceed the amount of new grease. Put an enough amount.

▪ Maintenance

• Oil change - Gearbox (Comer)

On the **RP/RPU** equipped with a multiplier box (Comer), before putting the brush cutter into operation, remove the plug (1) from the multiplier box (2) and replace the breather (3). Periodically check the oil level in the gearbox (2) using the level indicator screw (4) and top up whenever necessary.



ATTENTION

The first oil change after 50 hours of work and the next changes every 500 hours or 1 year, whichever comes first.

Use 1.40 liters.

Use only the specified oil: SAE 90EP.



IMPORTANT

To drain all the oil from the gearbox (2), remove the drain (5).



OBSERVATION

When using a specific brand of oil, avoid topping up the oil level with another brand and specification.

■ Maintenance

• Storage

Before storing the **RP/RPU**, remove the cardan and store it in a covered, dry place. Check all transmission components, if necessary, replace any worn or damaged parts. **Always demand Baldan original parts.**

• Post storage

Before returning work with the **RP/RPU**, lubricate all components and check the oil level.

• Operational Maintenance

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
No cutting.	Blades worn or broken.	Replace blades (pairs only) as instructed on pages 35 and 36.
	TDP rotation is incorrect.	Correct rotation 540 Rpm.
	Excessive speed.	Reduce work speed.
	Blades do not spin when TDP is running.	Check the drive shaft connection.
	Multiplier box is not working properly.	Repair the multiplier box.
	Direction of rotation of the blades.	Make sure the correct side of the cut of the blades and the direction of rotation of the multiplier box.
Irregular cut.	Blades worn or broken.	Replace blades (pairs only) as instructed on pages 35 and 36.
	Excessive speed.	Reduce work speed.
	Excessive cutting height.	Lower cutting height.
	Vegetation of great density and of excessive height.	Use reduced speed.
	Leveling the cutter is not correct.	Correct adjustment of the trimmer according to instructions on page 24.

▪ **Maintenance**

• **Operational Maintenance**

PROBLEMS	PROBABLE CAUSES	SOLUTIONS
Cutter is Noisy.	Loose components.	Check all the screws and tighten.
	Low oil of the multiplier box.	Check oil level as instructed on page 39.
Vibration.	Broken blades.	Replace blades (pairs only) as instructed on pages 35 and 36.
	Incorrect cardan length.	Check the length of the cardan.
	Cardan shaft crosshead assembly.	Check the correct mounting of the cardan brackets.
Tip and blades wear too fast.	Blades are touching the ground.	Adjust and operate it at a height that will eliminate contact with the ground.
	The cutter is not operating at the correct TDP speed.	Keep the correct speed of the TDP.

▪ Maintenance

• Cares

- 01** - Before each work, check the condition of all pins, screws, multiplier box and blades. Where necessary, retighten or replace them.
- 02** - At every 8 hours of work, retighten screws and nuts.
- 03** - The displacement speed should be carefully controlled according to the land's conditions.
- 04** - **RP/RPU**s are used in various applications, requiring knowledge and attention when handling them.
- 05** - Only local conditions can determine the best method of operation of **RP/RPU**.
- 06** - When assembling or disassembling any part of **RP/RPU**, employ proper methods and tools.
- 07** - Observe the lubrication intervals carefully in the various lubrication points of **RP/RPU**.
- 08** - Always check if the parts presents wear and tear, specially the blades. If there is a need for replacement, **always demand Baldan original parts**.



Proper and periodical maintenance are necessary to guarantee a long useful life of **RP/RPU**.

▪ **Maintenance**

• **General cleaning**

- 01** - When storing **RP/RPU**, perform a general cleaning and thoroughly wash only with water. Make sure the paint has not worn out, if this has happened, give it a general coat, apply the protective oil and fully lubricate the **RP/RPU**.
- 02** - Completely lubricate the rotary cutter. Check all moving parts of **RP/RPU**, if they present wears or gaps, make the required adjustment or replace the parts, leaving the machine ready for the next work.
- 03** - When the **RP/RPU** is not in use, clean any residues after use as grass, dirt, crop residues, etc.
- 04** - Spray the entire **RP/RPU** with preservation oil, never use burned oil.
- 05** - Replace all adhesives, especially those about warnings, that are damaged or missing. Make everyone aware of the importance and risks of accidents when instructions are not followed.
- 06** - Clean the cardan every 15 days or sooner if necessary.
- 07** - Remove the protective caps, separate “male” from “female” threads, wash and remove crusts, dry and lubricate the sliding parts with grease and reassemble.
- 08** - After all maintenance precautions, store your **RP/RPU** in a plain surface, covered and dried location, away from animals and children.
- 09** - We recommend washing the **RP/RPU** with water only in the beginning of works.



ATTENTION

Do not use chemical products to wash **RP/RPU**, it may damage its painting.

• **Rotary cutter conservation - Part I**

To extend the service life and appearance of **RP/RPU**, follow the instructions below:

- 01** - Wash and clean all **RP/RPU** components during and at the end of the work season.
- 02** - Use neutral products to clean the **RP/RPU**, following the safety and handling guidelines provided by the manufacturer.
- 03** - Always carry out maintenance during the periods indicated in this manual.

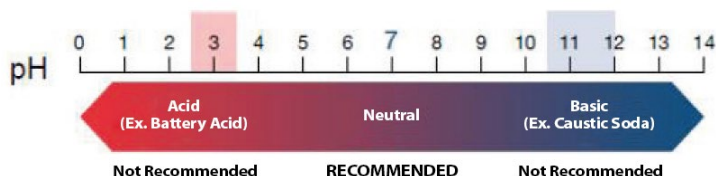
• **Rotary cutter conservation - Part II**

The practices and precautions below if adopted by the owner or operator make the difference for the conservation of **RP/RPU**.

- 01** - Be careful when performing high-pressure washing.

■ Maintenance

- 02 - Use only NEUTRAL detergent and water (pH equal to 7);
- 03 - Apply the product, following the manufacturer's instructions strictly, on the wet surface and in the correct sequence, respecting the time of application and washing;
- 04 - Stains and dirt not removed with the products should be removed with the aid of a sponge.
- 05 - Rinse the machine with clean water to remove any chemical residues.
- 06 - Do not use:
 - Detergents with a basic active ingredient (pH less than 7) can damage/stain the paint on the harrow.
 - Detergents with acid active ingredient (pH less than 7), act as stripper/remover of zinc coating (the protection of parts against oxidation).



- 07 - Allow the machine to dry in the shade so that it does not accumulate water in its components. Very fast drying can cause stains on your paint.
- 08 - After drying, lubricate all chains and greases according to the recommendations in the operator's manual.
- 09 - Spray all the machine, especially the zinc parts, with protective oil, following the manufacturer's application guidelines. The protective also prevents dirt from adhering to the machine, facilitating subsequent washings.
- 10 - Observe curing time (absorption) and application intervals as recommended by the manufacturer.

⚠ ATTENTION | Do not use any other type of oil to protect the rotary cutter (used hydraulic oil, "burnt" oil, diesel oil, castor oil, kerosene, etc.).

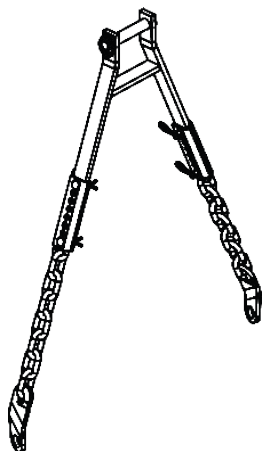
! IMPORTANT | We recommend the following protective oils:
 Bardahl: Agro protective 200 or 300
 ITWChemical: Zoxol DW - Series 4000

🔍 OBSERVATION | Ignoring the conservation measures mentioned above may result in the loss of warranty for painted or zinc-coated components which may exhibit oxidation (rust).

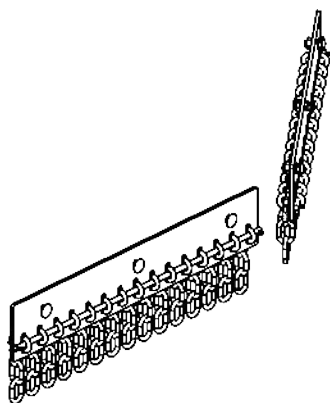
▪ Optional

• Optional accessories

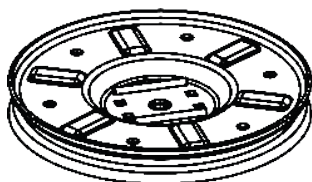
The **RP/RPU** brush cutters have options that can be purchased according to the work needs.



**HEIGHT LIMITER
(MODEL RP)**



**REAR GUARDS WITH CHAINS
(MODEL RP/RPU)**



**ROTATING TRAY
(MODEL RP/RPU)**

■ Identification

• Identification plate

To consult the parts catalogue or request Baldan technical assistance, always identify the model (1), serial number (2) and manufacture date (3), which can be found on the **RP/RPU** identification plate (4).



ATTENTION

The drawings in this Instruction Manual are merely illustrative.

CONTACT

In case of doubts, never operate or handle your equipment without contacting Post-Sales.

Telephone: 0800-152577

Email: posvenda@baldan.com.br

PUBLICATIONS

Código: 60550201596 | CPT: RP05024C



▪ Identification

• Product Identification

Make the correct identification of the data below, to always have information about the life of your equipment.

Owner: _____

Resale: _____

Farm: _____

City: _____

State: _____

Certificate No. of warranty: _____

Implement: _____

Serial No.: _____

Purchase date: _____

Invoice: _____

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slight shadow on the right side, suggesting it's resting on a surface. There is no handwriting or other markings on the paper.

■ Notes

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

BALDAN IMPLEMENTOS AGRÍCOLAS S/A ensures the dealer normal performance of the implement for a period of six (6) months as of the delivery date on the retail invoice to the first final consumer. During this period, **BALDAN** undertakes to repair defects in material and/or of manufacture of its liability, including labor, freight and other expenses of the dealer's liability.

In the warranty period, request and replacement of eventual defective parts shall be made to the dealer of the area, who will submit the faulty piece for **BALDAN** analysis. When this procedure is not possible and the resolving capacity of the dealer is exhausted, the dealer will request the support of **BALDAN Technical Assistance** through a specific form distributed to dealers. After analyzing the replaced items by Baldan Technical Assistance, and concluding that it is not a warranty, then the dealer will be responsible for the costs related to the replacement; as well as material expenses, travel including accommodation and meals, accessories, lubricant used and other expenses arising from the call out to Technical Assistance, and Baldan company is authorized to carry the respective invoice in the name of the resale. Any repair carried in the product within the dealer warranty deadline will only be authorized by **BALDAN** upon previous budget presentation describing parts and work to be performed.

The product is excluded from this term if it is repaired or modified by representatives not belonging to the **BALDAN** dealer network, as well as the application of non-genuine parts or components to the user's product. This warranty is void where it is found that the defect or damage is caused by improper use of the product, failure to follow instructions or inexperience of the operator.

It is agreed that this warranty does not cover tires, polyethylene tanks, cardan, hydraulic components, etc., which are equipment guaranteed by their manufacturers. Manufacturing and/or material defects, object of this warranty term, will not constitute, under any circumstances, grounds for termination of a purchase agreement, or for indemnification of any nature.

BALDAN reserves the right to change and/or perfect the technical characteristics of its products, without previous notice, and without obligation to proceed in the same way with the products previously manufactured.

▪ Inspection and Delivery Certificate

SERVICE BEFORE DELIVERY: This implement was carefully prepared by the sales organization, inspected in all its parts according to the manufacturer's prescriptions.

DELIVERY SERVICE: The user has been informed of the current warranty terms and instructed on the use and maintenance precautions.

I confirm that I was informed about the terms of existing warranty and instructed on the use and proper maintenance of the implement.

Implement: _____ Serial number: _____

Date: _____ Invoice no.: _____

Resale: _____

Phone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Phone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Date of Sale: _____

Signature / Stamp of Resale _____

1st counterpart - Owner

▪ Inspection and Delivery Certificate

SERVICE BEFORE DELIVERY: This implement was carefully prepared by the sales organization, inspected in all its parts according to the manufacturer's prescriptions.

DELIVERY SERVICE: The user has been informed of the current warranty terms and instructed on the use and maintenance precautions.

I confirm that I was informed about the terms of existing warranty and instructed on the use and proper maintenance of the implement.

Implement: _____ Serial number: _____

Date: _____ Invoice no.: _____

Resale: _____

Phone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Phone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Date of Sale: _____

Signature / Stamp of Resale _____

2nd counterpart - Dealer

▪ Inspection and Delivery Certificate

SERVICE BEFORE DELIVERY: This implement was carefully prepared by the sales organization, inspected in all its parts according to the manufacturer's prescriptions.

DELIVERY SERVICE: The user has been informed of the current warranty terms and instructed on the use and maintenance precautions.

I confirm that I was informed about the terms of existing warranty and instructed on the use and proper maintenance of the implement.

Implement: _____ Serial number: _____

Date: _____ Invoice no.: _____

Resale: _____

Phone: _____ CEP: _____

City: _____ State: _____

Owner: _____

Phone: _____

Address: _____ Number: _____

City: _____ State: _____

E-mail: _____

Date of Sale: _____

Signature / Stamp of Resale _____

3rd counterpart - Manufacturer (Please send completed within 15 days)

1.74.05.0059-5

AC MATÃO
ECT/DR/SP

RESPONSE CARD

NOT REQUIRED SEAL

SEAL WILL BE PAID BY:



BALDAN IMPLEMENTOS AGRÍCOLAS S/A.

Av. Baldan, 1500 | Nova Matão | CEP: 15993-900 | Matão-SP | Brasil

Phone: (16) 3221-6500 | Fax: (16) 3382-6500

www.baldan.com.br | email: sac@baldan.com.br

Export: Phone: +55 (16) 3221-6500 | Fax: +55 (16) 3382-4212 | 3382-2480

email: export@baldan.com.br



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