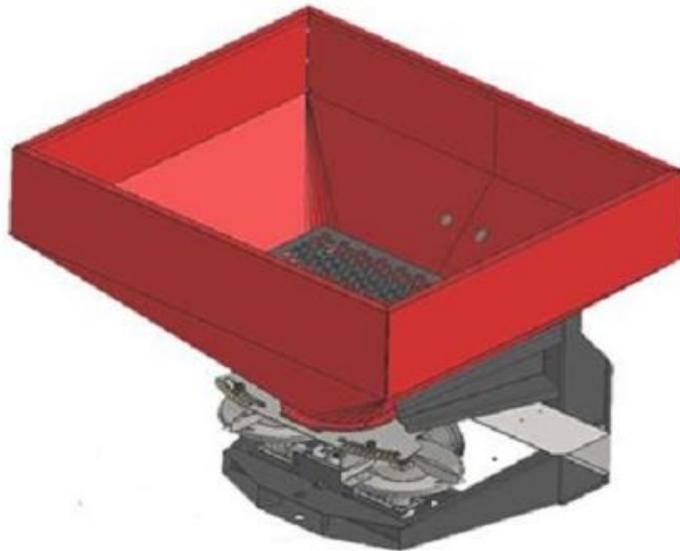




FERTILIZER SPREADER

RE-A / REX-A / RE-F / REF-X



OWNER'S MANUAL

Read the Operator's manual entirely before using the machine

EC declaration of conformity



The Company

headquartered in Via Laghi di Avigliana, 117 – Busca (CN) - ITALY

**DECLARES FULLY UNDER OWN RESPONSIBILITY THAT THE
PRODUCT:**

TIPE: **CENTRIFUGAL SPREADER - 2 DISCS**

MODEL: **RE-A / REX-A / RE-F / RE-F INOX**

SERIAL NUMBER

CONSTRUCTION YEAR:

conforms to the relevant basic safety and health requirements of:

EU Directive 2006/42/EC;

2014/30/EU (Electromagnetic Compatibility Directive - where applicable).

For the relevant implementation of the safety and health requirements mentioned in the EC directive, the following standards are taken into account:

UNI EN ISO 12100:2010

UNI EN ISO 4254-1:2015

UNI EN ISO 4254-8:2018

UNI EN ISO 13857:2020

UNI EN 13739-2:2011

ISO 11684:1995.

The technical file of the product is deposited at:

Via Laghi di Avigliana, 117 – 12022 Busca (CN).

Busca (CN), li _____

The Company Owner: _____

INDEX

1. INTRODUCTION	4
2. GENERAL INFORMATION	4
2.1. INFORMATION ABOUT OPERATOR'S MANUAL.....	4
2.2. SERIAL NUMBER TAG.....	4
2.3. DESCRIPTION OF THE MACHINE AND EXPECTED USE	5
2.4. PARTS IDENTIFICATION	8
2.5. ACCESSORIES	9
2.6. TECHNICAL DATA	11
2.7. NECESSARY TRACTOR'S SPECIFICATION	12
3. SAFETY INFORMATION	12
3.1. GENERAL RECOMMENDATIONS	12
3.2. MACHINE CONNECTION TO THE TRACTOR.....	14
3.3. MACHINE OPERATION.....	15
3.4. ROAD TRANSPORTATION.....	15
4. SAFETY SIGNS	16
5. CONNECTION TO THE TRACTOR	17
5.1. CHECK ON THE LIFTING CAPACITY OF THE TRACTOR.....	17
5.2. CONNECTION TO THE THREE-POINT HITCH.....	18
5.3. CONNECTION OF THE PTO SHAFT	19
5.4. HYDRAULIC CONNECTION	21
6. OPERATING	23
6.1. RECOMMENDATIONS FOR A CORRECT SPREADING.....	23
6.2. ADJUSTMENTS.....	23
6.2.1. SPREADING QUANTITY ADJUSTMENT	23
6.2.2. SPREADING WIDTH ADJUSTMENT.....	26
6.2.3. DISCS' VANES ADJUSTMENT.....	28
6.3. MACHINE USE	29
6.4. HOPPER LOADING.....	31
7. SPREADING ERRORS	33
7.1. OPERATING ERRORS.....	33
7.2. ERRORS DUE TO FERTILIZER.....	33
7.3. ERRORS DUE TO THE MACHINE.....	33
8. MAINTENANCE	33
8.1. ORDINARY MAINTENANCE	33
8.1.1. MAINTENANCE PLANNING	35
8.2. EXTRAORDINARY MAINTENANCE.....	35
8.2.1. DISCS' VANES REPLACEMENT	35
8.3. SPARE PARTS	36
9. STORAGE	37
10. WARRANTY	38
11. SPREADING CHART	39
12. MACHINE BREAKDOWN DRAWINGS	41

1. INTRODUCTION

We recommend that you carefully read this user and maintenance manual and follow the instructions it contains to ensure safe and efficient operation of the machine. This manual has been drawn up to provide the customer with all the information and safety rules on the machine, as well as the instructions for use and maintenance which make it possible to make the most of the machine's potential. The manual must always accompany the machine in order to be consulted to check the operating cycle. If you lose or ruin it, you will need to request a replacement copy. In case of difficulty in interpreting the texts or tables, or if the drawings / graphics are not sufficiently clear, please contact the machine manufacturer or dealer immediately for any clarifications. We are fully available for real collaboration in order to improve the understanding of the entire manual.

2. GENERAL INFORMATION

2.1. INFORMATION ABOUT OPERATOR'S MANUAL

This manual provides all the information for the use and maintenance of the machine. Proper operation and its duration will depend on good maintenance and attention in use.

Some illustrations in this manual show details or accessories that may be different from those of your machine, some components may have been removed to ensure the clarity of the illustrations.

In this manual, the "RIGHT SIDE" and "LEFT SIDE" of the machine are intended by looking at the machine in the direction of travel of the tractor with which the machine is combined.

Appropriate pictograms are applied on the machine which will be the operator's responsibility to maintain a perfect visual state and replace them when they are no longer legible.



The symbol on the left, combined with the words below

DANGER!

ATTENTION!

WARNING!

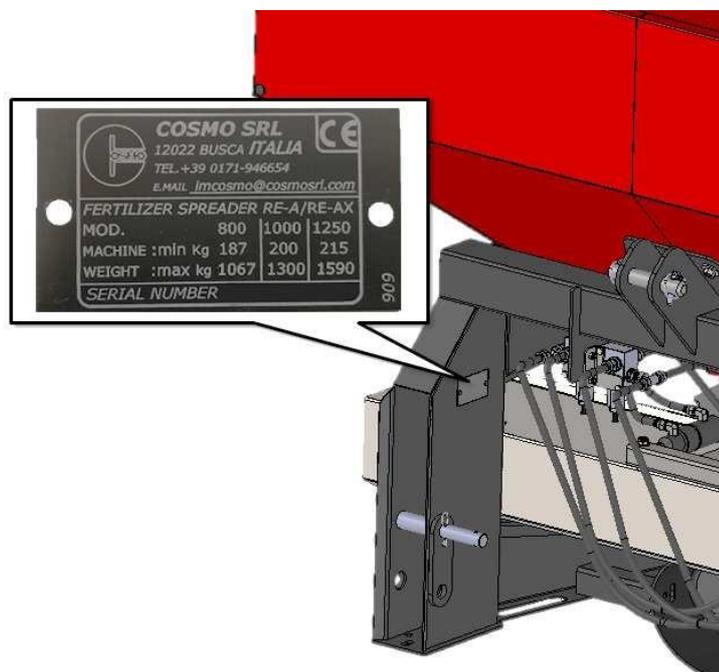
it is used in this manual to draw your attention to the safety and proper functioning of the machine. It is therefore necessary to observe all the rules reported.

2.2. SERIAL NUMBER TAG

An identification plate is attached to the frame of each machine, bearing the CE symbol together with the following information:

- manufacturer data,
- machine model,
- serial number,
- year of manufacture.

When requesting spare parts, it is always necessary to refer to the type of machine, the chassis number and the year of construction.



2.3. DESCRIPTION OF THE MACHINE AND EXPECTED USE

The RE-A centrifugal fertilizer spreader is an agricultural operating machine, designed and built to spread solid mineral fertilizers in the field in granular and powdery form. It is a mounted type, fixed to the tractor by means of a three-point attachment.

The machine is equipped with two stainless steel spreading discs, each equipped with three adjustable spreading vanes (Fig.1). The discs are operated by connecting the machine to the tractor PTO via a PTO shaft with a transmission speed of 540 min⁻¹. The rotation of the spreading discs and the relative blades allows the precise and uniform spreading, by centrifugal force, on the ground of the quantity of fertilizer

released on the discs by gravity, through two special discharge openings (Fig. 2) on the bottom of the conical feeding hopper .

An interchangeable stirrer (Fig. 2) is installed on the bottom of the hopper, the motion of which ensures a uniform flow of fertilizer and the crushing of any lumps.

The manual adjustment system (Fig. 3) of the width of the discharge openings allows you to set the dosage of the spreading quantities, based on the required working conditions. The adjustment of the two openings is independent and therefore allows you to adjust the exits to the same opening, to different openings or, alternatively, to close the right or left exit, to spread over half the width.

The opening and closing of the hopper feeding gates takes place by means of hydraulic control, through the actuation of two double-acting cylinders (Fig. 4). To limit the pressure inside the hydraulic circuit there are two relief valves calibrated at the factory (Fig. 5). The opening speed of the hydraulic cylinders is regulated through unidirectional flow control valves placed on the delivery pipes (Fig. 6).

The spread of the quantity of fertilizer depends on the position of the dosing vanes on the spreading discs, on the quality of the fertilizer and on the moisture content.

The machine is able to spread at different widths and with different types of fertilizer. The spreading diagram shown in this booklet allows the operator to adjust the desired spreading width and quantity.

Fig.1

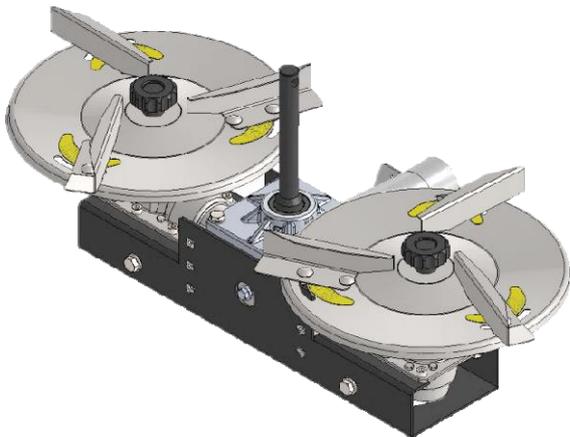


Fig.2

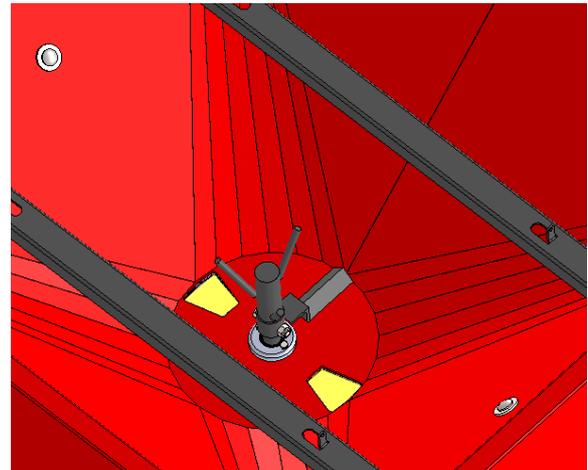


Fig.3

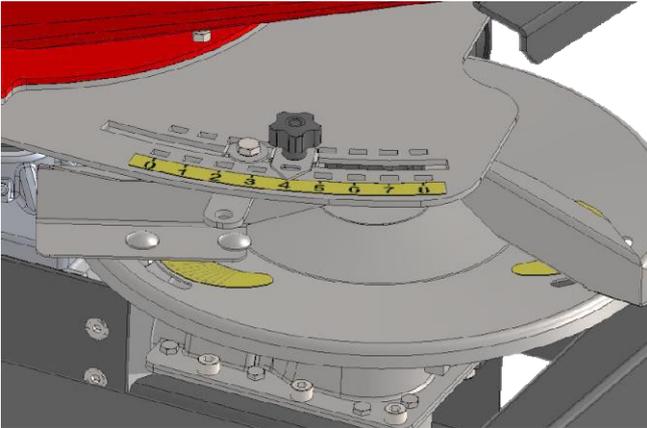


Fig.4

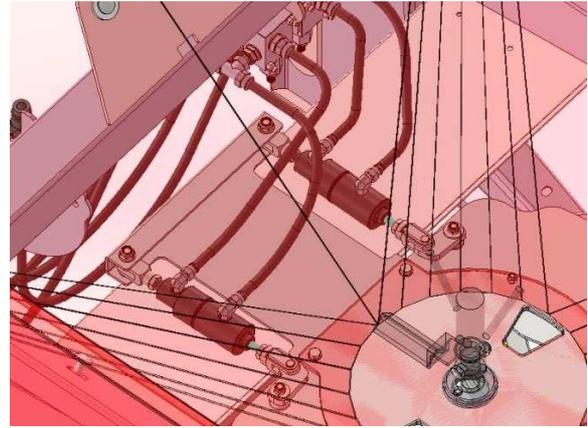


Fig.5

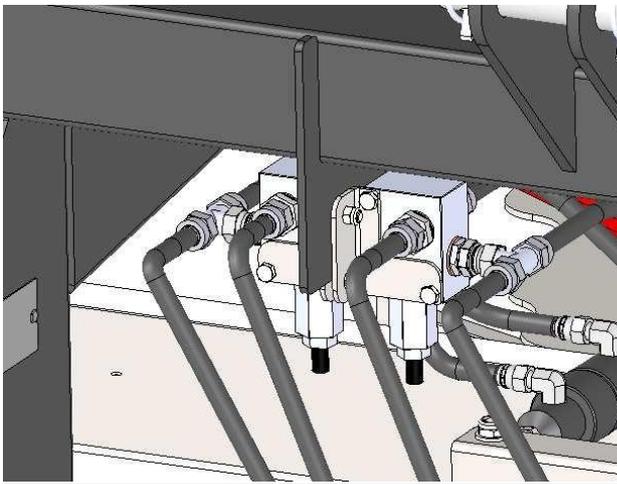
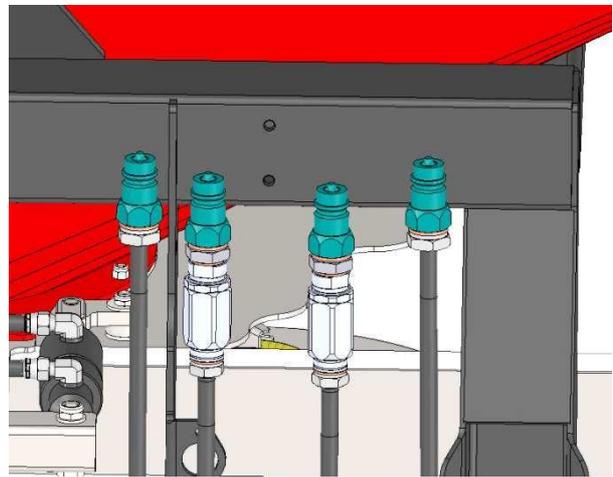


Fig.6



The machine model presented in this manual is designed and built exclusively to spread solid fertilizers in the field. The machine is not suitable for use in sectors other than agriculture. The machine is usually used during the day. If it is required for night use or in conditions of reduced visibility, the tractor's lighting system must be used.

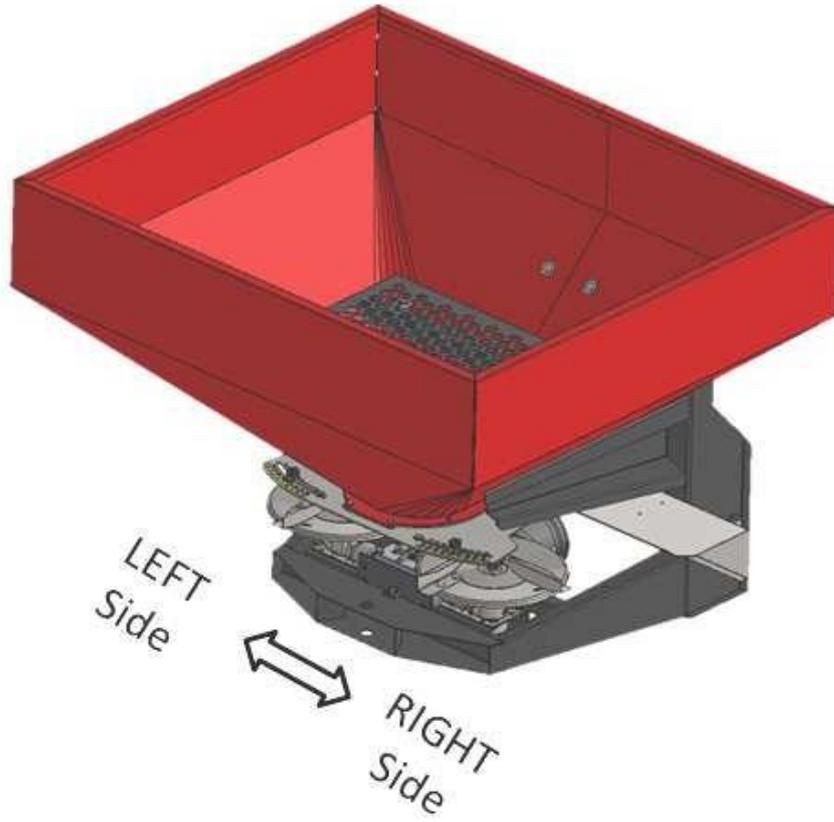
Any use other than that specified is considered improper, unauthorized and dangerous.

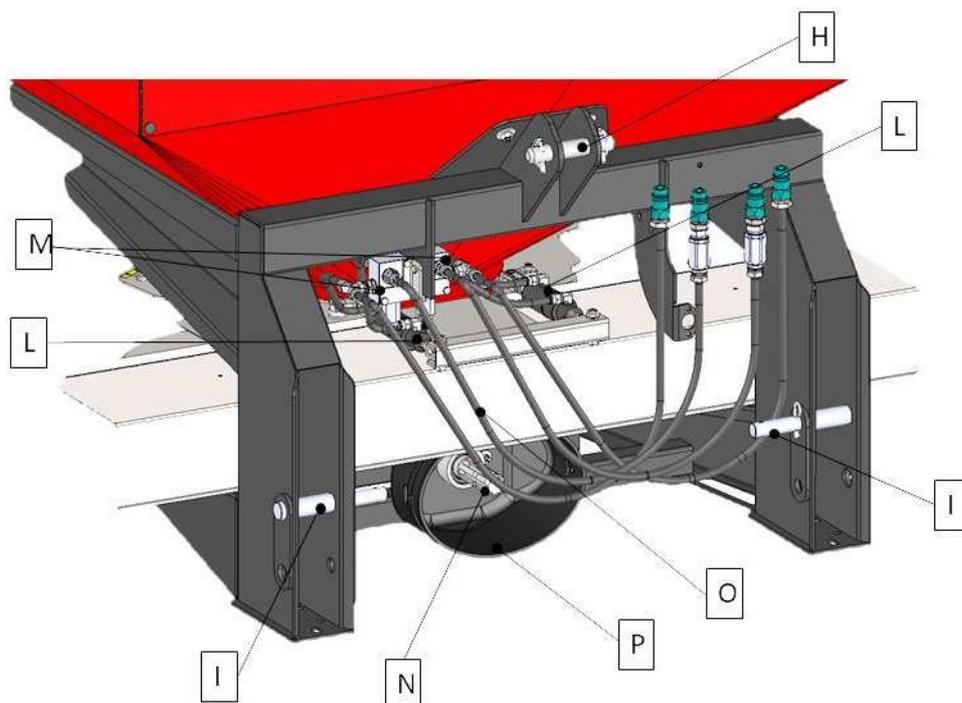
The Manufacturer declines all responsibility for any damage deriving from improper use of the machine.

The use of original spare parts and accessories is recommended. In addition to voiding the warranty, non-original parts could be dangerous reducing the life and performance of the machine.

Any arbitrary modification made to this machine relieves the Manufacturer of any liability for damages or injuries, even serious ones, which may result to operators, third parties and property.

2.4. PARTS IDENTIFICATION





A	Hopper	H	Upper linkage pin
B	Frame	I	Lower linkare pin
C	Protective grid	L	2-effects hydraulic cylinder
D	Rear shield	M	Max pressure valve
E	Pleate with dosing adjustment	N	Input shaft
F	Left disc	O	Hoses
G	Right disc	P	Pto shaft guard

2.5. ACCESSORIES

Upon request, the machine can be equipped with the following accessories:

- REAR SIGNALING LIGHTS KIT

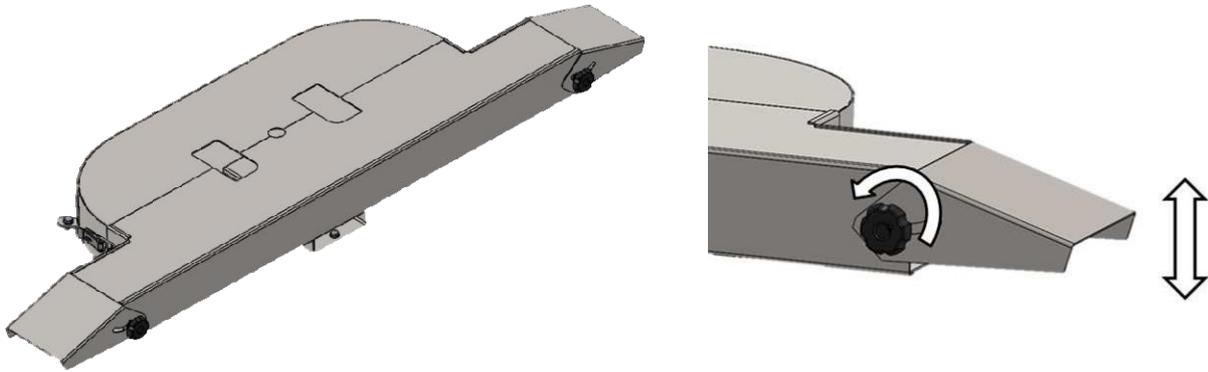
These are 2 position lights, directional arrows and braking signal - stop - to be applied to the rear of the machine frame by means of a bracket fixed with the bolts already present in the frame. The lights must be connected to the tractor's electrical system.

- HOPPER LIFT KIT (100/250 LITERS)

- DOUBLE SIDE CONVEYOR

To be used if fruit trees arranged along rows are to be fertilized.

To assemble the two parts that make up the conveyor, fix them to the frame using the accessories and bolts supplied with it. To adjust the pour width, adjust the mobile doors on the sides of the conveyor, as shown in the figure.



WARNING!

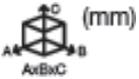
In the presence of the conveyor, make sure to adjust the spreading blades according to what is indicated in the Regulation of the blades section.



WARNING!

Any assembly or disassembly of machine accessories must be carried out with the machine on the ground (in stable conditions), the power take-off off, the tractor's engine off, parking brake applied, ignition key removed from panel.

2.6. TECHNICAL DATA

Mod.		RE-A 800	RE-A 1000	RE-A 1250
		REX-A 800	REX-A 1000	REX-A 1250
CAPACITY		880 / 1655 / 746	1080 / 2006 / 981	1260 / 2580 / 1088
WEIGHT		188 / 414	195 / 430	198 / 438
DIMENSIONS (without PTO shaft)		1500 X 1350 X 1050	1500 X 1350 X 1150	1500 X 1350 X 1300
SPREADING WIDTH		12-18 m / 40-60 ft		

Mod.		RE-F 600
		RE-F INOX 600
CAPACITY		750 / 1433 / 640
WEIGHT		188 / 414
DIMENSIONS (without PTO shaft)		1050 X 1350 X 1100
SPREADING WIDTH		12-18 m / 40-60 ft

2.7. NECESSARY TRACTOR'S SPECIFICATION

Model	RE-A 800 REX-A 800	RE-A 1000 REX-A 1000	RE-A 1250 REX-A 1250	RE-F 600 RE-F INOX 600
TRACTOR 	TRACTOR LINKAGE: CATEGORY 2 TRACTOR MIN. POWER: 20 CV/HP OPERATING PRESSURE: 20 bar MAX PRESSURE: 120 bar PUMP MIN. FLOW RATE: 5 l/min. 2-EFFECTS HYDR. SPREADING: 2 PTO RPM: 540 min ⁻¹			

SAFETY INFORMATION

**THE FOLLOWING SAFETY REQUIREMENTS SERVE TO SAFEGUARD YOUR SAFETY
IT IS THEREFORE NECESSARY TO READ THESE CAREFULLY, TO STORE AND TO APPLY THEM ALWAYS**

The warnings in this manual only concern permitted and reasonably foreseeable uses. The following indications must be carefully observed and must be integrated by the common sense and experience of those who work, indispensable measures for the prevention of accidents. The machine must be used by a single operator. Do not let the machine be used by minors (under 18 years of age). Any changes to the tool not previously authorized by the Manufacturer (in writing), exclude its liability. Check the correct operation of the machine before each use.

3.1. GENERAL RECOMMENDATIONS

- Read this manual carefully before starting, using, maintaining or carrying out any other work on the machine.
- In addition to the warnings contained in this manual, observe all general safety and accident prevention regulations.
- The manual must always be at hand so that it can be consulted to check the operating cycle and safety information. If it is lost or damaged, a replacement copy must be requested.



WARNING!

Any maintenance, adjustment and cleaning work must be carried out with the machine on the ground (in stable conditions), the tractor engine is off, the power take-off disengaged, the handbrake engaged, the ignition key off and removed from the ignition panel.

- Carefully read the safety decals applied on the machine and follow the instructions. In the event of deterioration or poor readability of the safety pictograms, clean or replace them by placing them in the exact position as described in paragraph 4.



WARNING! - ATTENTION!

During the period of use, maintenance, repair, handling or storage of the machine, the operator must wear safety shoes and safety gloves. If necessary, he must also bring ear defenders, dust mask and protective glasses.

- Keep the machine clean of foreign bodies (debris, tools, compounds), as they could damage operations or the operator. Generally the fertilizer is quite corrosive. For this reason, it is important that no fertilizer particles remain in the machine for a long period of time.
- Clean the hopper and the spreading parts after each use of the machine.



WARNING! DANGER!

It is forbidden to climb or be carried by the moving machine. Do not enter the hopper for any reason.

- If air or water under pressure is used during cleaning, it is necessary to wear safety goggles and masks, and keep people or animals away from the machine.
- Before connecting the machine to the tractor or other self-propelled vehicles, check that it is in good condition and that the brakes are working correctly, especially if working on sloping ground.
- Disconnect the machine from the tractor only on a compact and flat surface (with empty hopper), checking that the machine is stable.



WARNING!

In transport, storage and use operations, users must behave in accordance with the indications given in the safety decals and in particular with the content of the risk phrases and precautionary statements.

**THE MANUFACTURER IS NOT LIABLE FOR ANY DAMAGES CAUSED BY USE OF THE MACHINE
NOT FORESEEABLE OR IMPROPER**

**THE MANUFACTURER IS RELIEVED FROM ANY LIABILITY IN THE EVENT OF:
IMPROPER USE OF THE MACHINE, USE BY NON-TRAINED PERSONNEL, SERIOUS DEFECTS IN THE
FORESEEN MAINTENANCE, MODIFICATIONS OR UNAUTHORIZED INTERVENTIONS, USE OF NON-ORIGINAL
OR PARTS SPECIFIC TO THE MODEL, TOTAL OR PARTIAL NON-COMPLIANCE OF THE INSTRUCTIONS,
UNDERSTANDING, UNDERSTANDING, UNDERSTANDING, UNDERSTANDING WORK SCOPE,
EXCEPTIONAL EVENTS.**

3.2. MACHINE CONNECTION TO THE TRACTOR

- The three-point hitch of the tractor and the fertilizer spreader must coincide or be adapted.
- Make sure that the cardan shaft is properly engaged after each connection of the machine and that it does not release when lowering the machine to fill the hopper.



WARNING! DANGER!

**Check that the guards of the transmission
cardan shafts are intact and in good condition.**

- In the event of breakage or deterioration of the cardan shaft protections, immediately replace them.
- When the machine is not attached to the power unit, the cardan shaft must be placed on the appropriate support.
- The presence of the machine can influence the maneuverability of the tractor, especially during transport.



WARNING! DANGER!

**For no reason, do not stand between the tractor
and the fertilizer spreader with the engine
running and the power take-off engaged.**

3.3. MACHINE OPERATION

- Carry out a machine check before each start-up. Only start work if the machine is in perfect condition.
- Before using the machine, make sure that all the safety devices are correctly placed in their place and in good condition; if there are faults or damage to the protections, replace them immediately.



WARNING! DANGER!
While working, make sure that there are no people or animals within 50 meters. When working near roads or public places it is **ABSOLUTELY MANDATORY** to drive people away and double caution



WARNING!
Anyone who approaches the machine is in a danger zone and therefore becomes an "EXPOSED PERSON". The operator must prevent anyone from entering the danger zone and operate with the utmost caution. Should anyone approach, stop the tractor engine immediately.

- Before each use of the fertilizer spreader, always check the state of wear of the vanes of the spreading discs.
- Check that the fixing elements (screws and nuts) are present and well fixed.
- Always keep the machine in good operating condition and regularly carry out maintenance.

3.4. ROAD TRANSPORTATION



WARNING!
Strictly comply with the highway code in force in the country of use. During transfers on public roads it is mandatory to empty the hopper of its contents.

- Together with compliance with the rules, it should be remembered that, when traveling on public roads, particular attention must be paid, in addition to any special requirements noted in the vehicle registration document, to the choice of an appropriate transfer speed especially when the road is crowded, winding or sloping.

- In the event that the spreader hides the rear signal lights of the towing vehicle with its shape, it is necessary to apply a repetitive light bar and / or rear signal signs.
- When going out on the road after a job, attention must be paid to the cleaning of tires or working parts to avoid smearing the road surface with earth or other material.



WARNING!

During road traffic, the flashing yellow or orange light device mounted on the tractor must always remain in operation even during the day.



WARNING!

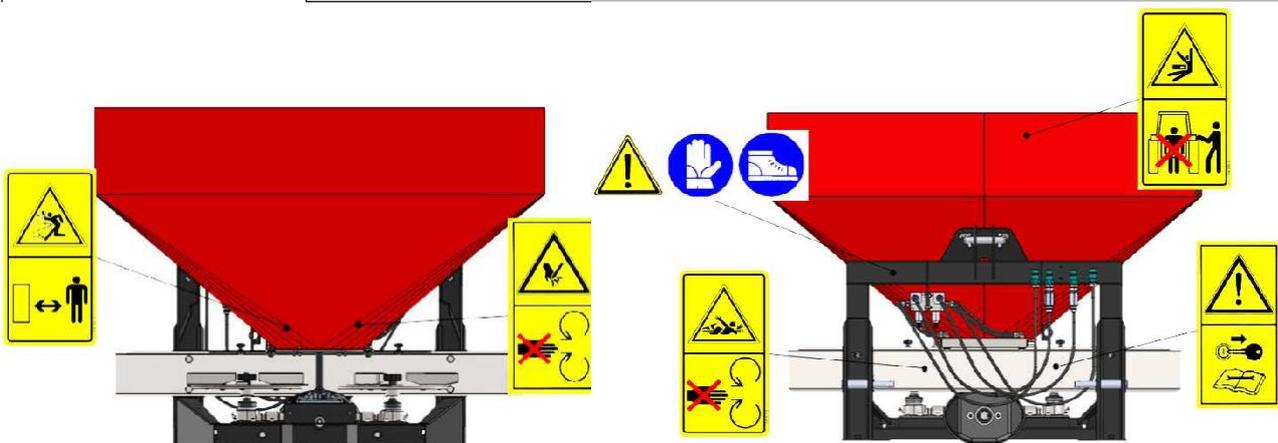
When transporting with the machine raised, always make sure that the control lever of the rear linkage is locked to prevent accidental lowering of the machine.

SAFETY SIGNS



WARNING!

Make sure the safety pictograms are legible. Clean them using a cloth, water and soap. Replace damaged labels in the exact location as described below.



The safety signs on the machine provide the most important indications: observing them helps your safety.

	<p>1. ATTENTION!</p> <p>Before carrying out any work on the machine, stop the tractor engine, remove the key from the dashboard, apply the parking brake and read the use and maintenance manual.</p>		<p>2. ATTENTION! DANGER of entanglement and dragging. Do not put your hands close to the moving transmission shaft.</p>
	<p>3. ATTENTION!</p> <p>Check the direction of rotation and the number of revolutions (540 rpm) of the tractor power take-off before inserting the cardan shaft.</p>		<p>4. ATTENTION! DANGER of crushing. Do not stand between operator and tractor when the tractor engine is running.</p>
	<p>5. ATTENTION! DANGER of possible throwing of material and / or objects, do not stop or approach the machine. Maintain a minimum safety distance of 50m from the machine.</p>		<p>6. ATTENTION! DANGER shearing. Do not bring the limbs near the spreading disc with the machine running.</p>
		<p>7. ATTENTION!</p> <p>Use the Personal Protective Equipment required.</p>	

CONNECTION TO THE TRACTOR

Before attaching the tool to the three-point hitch, position the safety device of the tractor so as to make it impossible to inadvertently and accidentally raise and lower the arms. The three-point hitch of the tractor and implement must coincide or be adapted.

There is a risk of injury due to crushing and cutting points near the tie rods of the rear linkage arms of the tractor.

Do not use the external control for lifting the tool. In the transport position, lock the lateral stop of the tie rods.

5.1. CHECK ON THE LIFTING CAPACITY OF THE TRACTOR



DANGER!

It is mandatory to check the lifting capacity and the stability of the tractor (before coupling with the machine) to avoid overturning and / or loss of grip of the wheels.

Before connecting the machine to the tractor, it is necessary to check the stability of the tractor machine system, in order to determine the ballast to be applied to the front of the tractor, to ensure adequate weight on the axles.

To ensure stability it is necessary to check the following relationships (for definitions see the following table):

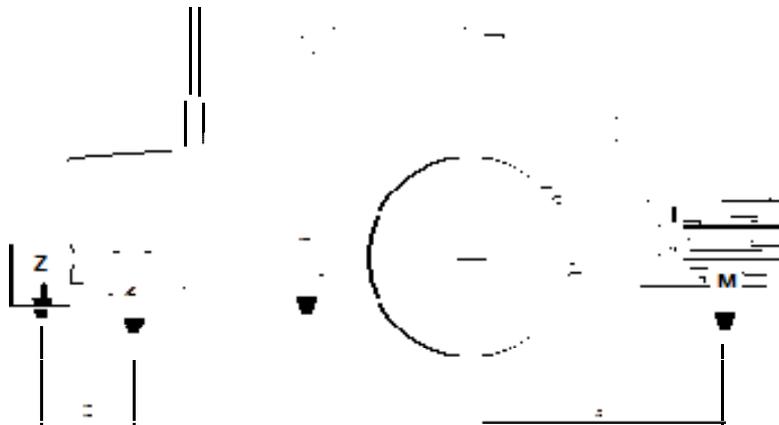
$$1) M \times s \leq 0.2 \times T \times i + Z \times (d+i)$$

$$2) M \leq 0.3T$$

Consequently, the minimum required ballast is:

$$Z \text{ min} = (M \times s - 0.2 \times T \times i) / (d+i)$$

To determine the appropriate ballast characteristics, refer to the tractor manual.



i = Tractor wheelbase (cm)

d = Distance between front axle and ballast mass center (cm)

T = Tractor weight + operator (75 kg)

Z = Ballast weight (kg)

M = Weight of the spreader + weight of the roller (if included) (kg)

s = Distance between rear axle and implement center of mass

5.2. CONNECTION TO THE THREE-POINT HITCH

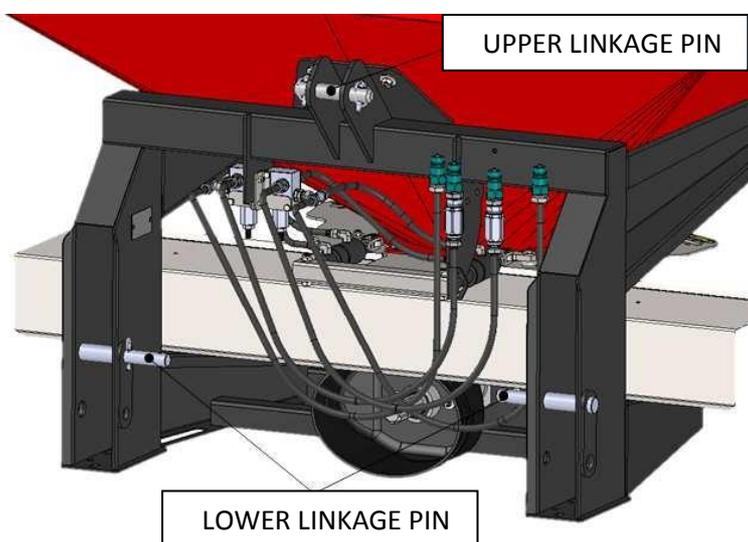


WARNING!

Every time you get off the tractor it is necessary to disengage the power take-off, stop the engine and apply the parking brake.

The safety signs applied to the machine provide a series of very important indications: observing them serves your safety. To connect the machine to the tractor operate as follows:

- Step back with the tractor until you reach the lower attachments of the fertilizer spreader.
- Anchor the lower attachments of the tractor to the pins of the machine and secure them with the safety pins.
- Once this operation has been carried out, connect the upper attachment of the machine to the third point of the tractor by inserting the appropriate pin and block the anti-unscrewing device of the third point;
- Lift the machine a few centimeters from the ground and using the lateral tie rods of the lifter bars and the two tensioners, block their lateral movement to prevent excessive oscillations during the processing phase. The machine must be positioned by lifting the lower attachments of the tractor so that the distance from the ground to the lower end of the spreading disc is approximately 85 cm. To obtain a regular spreading, it is important that the spreading disc is in a horizontal position with respect to the ground.
- After performing these operations, you can connect the PTO shaft of the power take-off to the splined shaft of the machine gearbox (covered by a protective guard) and following the power take-off of the tractor.



WARNING!

The cardan shaft must always be connected last to the power take-off of the tractor and disconnected first at the end of the processing.

5.3. CONNECTION OF THE PTO SHAFT

Before using the cardan shaft, read the use and maintenance manual attached to it.

If the cardan shaft supplied with the machine is not used, check that the machine and tractor boots overlap the protection of the cardan shaft at least of the quota provided for by current regulations (5 cm).

For correct and safe operation of the machine, use only PTO shafts with CE marking.



WARNING!

Use only cardan shafts with integral guards.

- Periodically grease the cardan shaft following the instructions provided by the cardan shaft manufacturer (see Use and Maintenance Manual of the cardan shaft).
- Respect the direction of assembly of the cardan shaft prescribed by the manufacturer and indicated on the external coating of the protection (tractor drawing on the outer tube of the shaft towards the power take-off of the tractor itself).
- Hook the anti-rotation chains and make sure that the anti-slip safety lock (button or ring) is correctly inserted and locked in its housing.



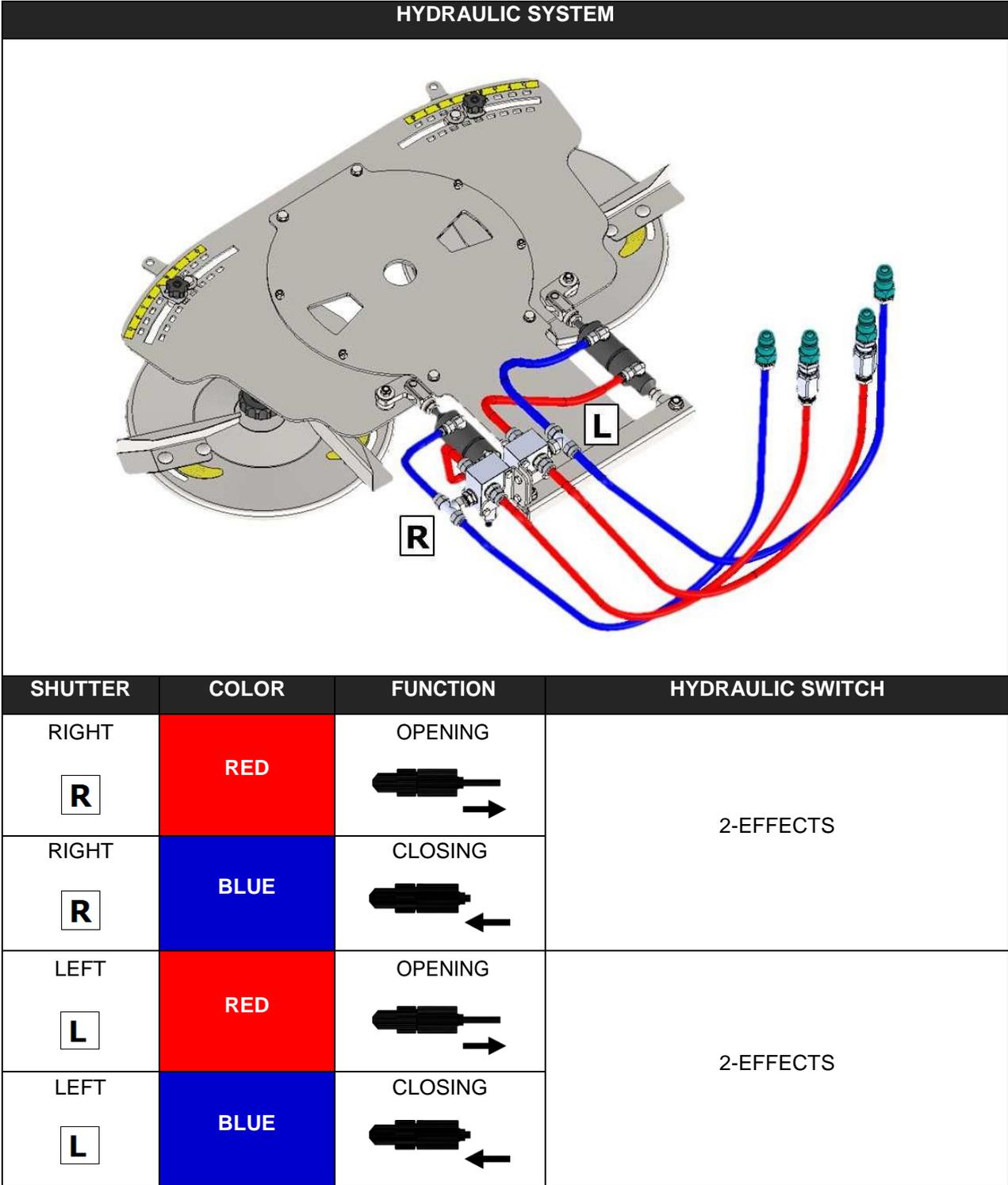
WARNING!

Check the direction of rotation and that the speed adjustment of the tractor's power take-off is at 540 rpm, as the machine is designed for this speed.

- The length of the cardan shaft must be adequate for the type of tractor that is used. When the cardan shaft is detached from the tractor's power take-off, it must ALWAYS be resting on the appropriate support

5.4. HYDRAULIC CONNECTION

The machine is equipped with two hydraulic cylinders that allow opening and closing of the right [R] and left [L] sluice gate. For their operation it is necessary to connect the hydraulic pipes (RED and BLUE) with quick coupling to the hydraulic deviators of the tractor following the relative function shown in the following diagram.





WARNING!

Danger of crushing, cutting, entrapment, dragging and impacts due to incorrect operation of the hydraulic system in case of errors in the connection of the hydraulic pipes.



WARNING!

When connecting and disconnecting the hydraulic lines, check that the hydraulic system of the tractor and the machine is depressurized.

To connect and disconnect the hydraulic pipes, proceed as follows:

- Place the machine on the ground.
- Relieve the pressure from the hydraulic system by moving the actuation lever of the tractor's hydraulic switch to the floating position (neutral position).
- Switch off the tractor engine.
- Apply the parking brake.
- Remove the ignition key.
- Insert / disconnect the hydraulic connectors into the sleeves until they are locked / unlocked sensitively.



WARNING!

Do not exceed the maximum allowable pressure for hydraulic oil of 120 bar.

OPERATING



WARNING!

Before use, check the transmission unit is adequately greased.



WARNING!

When using the machine, make sure that there are no people or animals within 50 meters. If someone approaches, stop work immediately and stop the tractor engine.

6.1. RECOMMENDATIONS FOR A CORRECT SPREADING

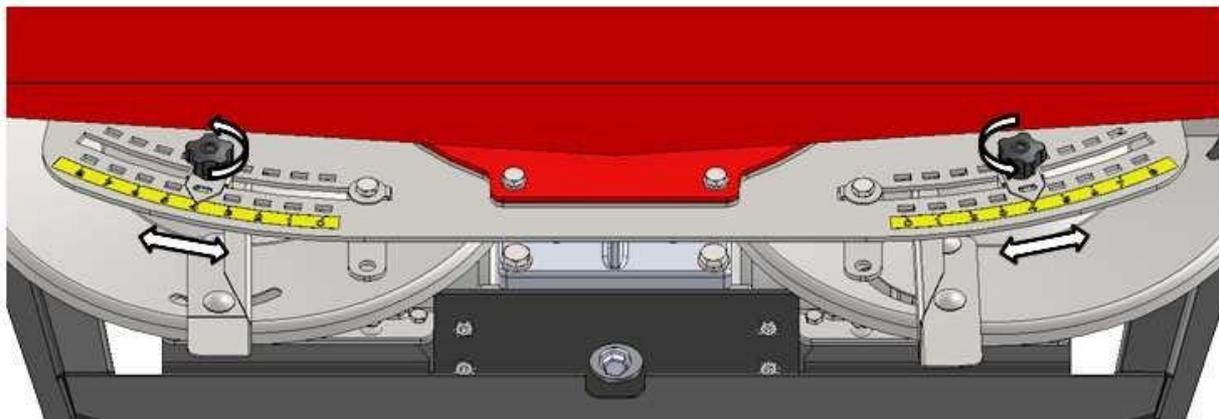
- Always use fertilizer in perfect condition: a wet fertilizer cannot be evenly and correctly spread.
- Avoid spreading the fertilizer during windy days, in order to improve the uniformity of the spreading.
- Do not connect the power take-off that operates the spreading disc when the tractor is raised; low revs until it idles and then gradually accelerates to a speed of 540 rpm.
- Open the fertilizer feed only when the desired speed is reached.

6.2. ADJUSTMENTS

6.2.1. SPREADING QUANTITY ADJUSTMENT

The setting of the spreading quantities takes place through the manual adjustment system located on the dosage adjustment plate.

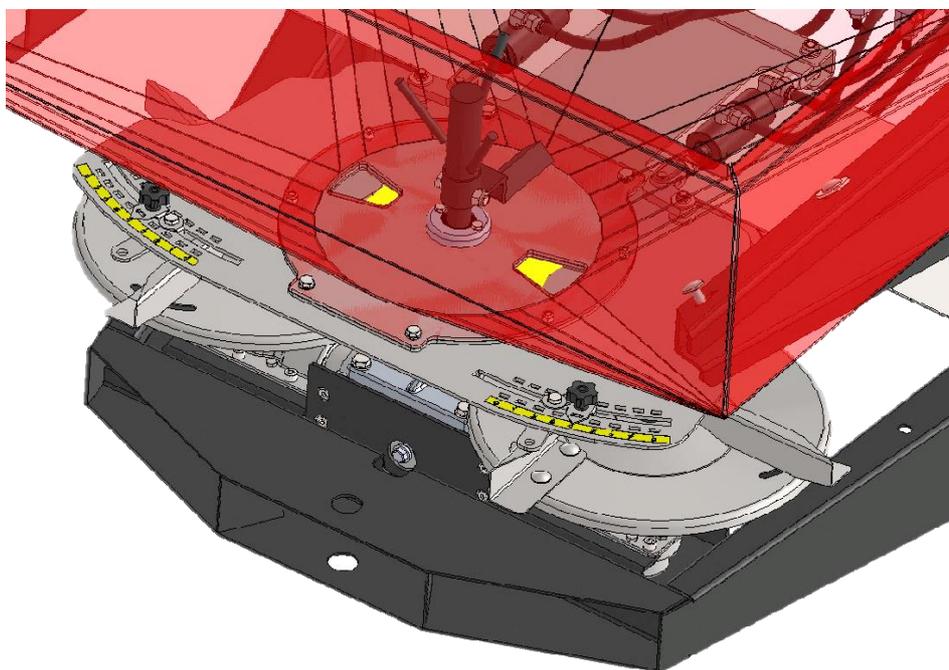
The system consists of two selectors (right and left) whose position can be varied along a graduated scale from 0 to 8.



Each position of the selectors (right and left) corresponds to a different width of the two openings of the hopper which feed the fertilizer on the corresponding disks (right and left) when the hydraulic cylinders are activated, and, consequently, a different quantity of fertilizer spread on the ground.

The "0" position of the selectors corresponds to a quantity of fertilizer spread equal to zero (closed position, suggested in transport conditions of the machine)

The quantity spread gradually increases by moving the selectors until reaching the maximum in position 8.





WARNING!

The regulation of the spreading quantity must be carried out only with the machine connected, the transmission off and the hopper openings closed.

The regulation of the spreading quantity in "normal" spreading conditions, ie with the spreading profile on the right side of the machine equal to that on the left side, takes place by positioning the right and left selectors in correspondence with the same value of the respective graduated scale, according to the indications described below:

1. identify the opening position of the hopper from the spreading table attached to this manual (see section Spreading table), on the basis of the following factors:
 - type of fertilizer to be spread;
 - working width [m];
 - working speed [km / h];
 - desired quantity of spreading [kg / ha];
2. make sure that the hydraulically controlled hopper openings are closed;
3. loosen the knob that locks the left selector on the plate, until it disengages from the locking seat;
4. identify the value for the selector position from the spreading table on the graduated scale;
5. slide the selector to the position previously identified on the graduated scale and engage it in the new locking seat;
6. tighten the knob;
7. repeat the procedure for the right selector.



WARNING!

The adjustment values shown in the spreading table are to be considered as guidelines only. For the same fertilizer, in fact, its particle size, its degree of humidity, the humidity of the air etc. they can change the flow characteristics and therefore make changes to the spreading quantities indicated in the table necessary.

We therefore recommend that you always check the spread rate before starting work.

If a fertilizer with characteristics other than those indicated in the spreading table is used, the adjustment of the spreading quantity must be reset based on the flow values experimentally detected by the operator for the type of fertilizer to be used.

§§§

The independent adjustment of the two feed openings of the hopper by means of the hydraulic cylinders allows the right or left exit to be closed, to spread over half the width in the event that spreading is required near borders, ditches and / or edges.

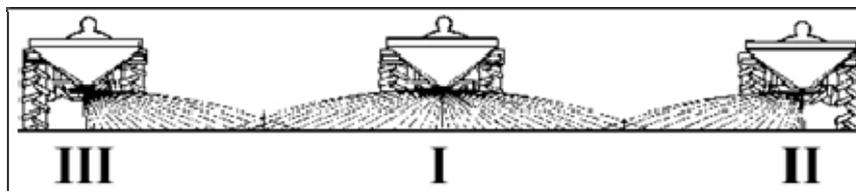


Figure I: spreading in "normal" conditions (spreading profile on the right side of the machine equal to that on the left side), obtained by simultaneously operating the two hydraulic distributors.

Figures II, III: spreading over half the width (spreading profile only on the right or left side of the machine), obtained by operating only one of the two hydraulic distributors.

6.2.2. SPREADING WIDTH ADJUSTMENT

The characteristics (shape and width) of the spreading profile of the machine depend on several variables:

- type of fertilizer, particle size and specific gravity;
- air humidity and moisture content of the fertilizer;
- quality of the fertilized soil;
- working speed and driving technique;
- PTO speed;
- angle of the fertilizer spreader with respect to the ground surface.

The machine is delivered adjusted to spread NPK 15-15-15 granular fertilizer to 18 m, with the spreading discs spreading blades configured according to the following table (see also Exploded tables and blades adjustment sections):

LEFT DISC			RIGHT DISC		
	VANE TYPE	POS.		VANE TYPE	POS.
A	Straight vane (cod. 601.040)	7	A	Straight vane (cod. 601.041)	7
B	Straight vane (cod. 601.040)	9	B	Straight vane (cod. 601.041)	9
C	Tilted vane (cod. 601.042)	7	C	Tilted vane (cod. 601.043)	7

The characteristics (shape and width) of the spreading profile of the machine depend on several variables:

- type of fertilizer, particle size and specific gravity;
- air humidity and moisture content of the fertilizer;
- quality of the fertilized soil;
- working speed and driving technique;
- PTO speed;
- angle of the fertilizer spreader with respect to the ground surface.

The machine is delivered adjusted to spread NPK 15-15-15 granular fertilizer to 18 m, with the spreading discs blades configured according to the following table (see also Exploded tables and blades adjustment sections):

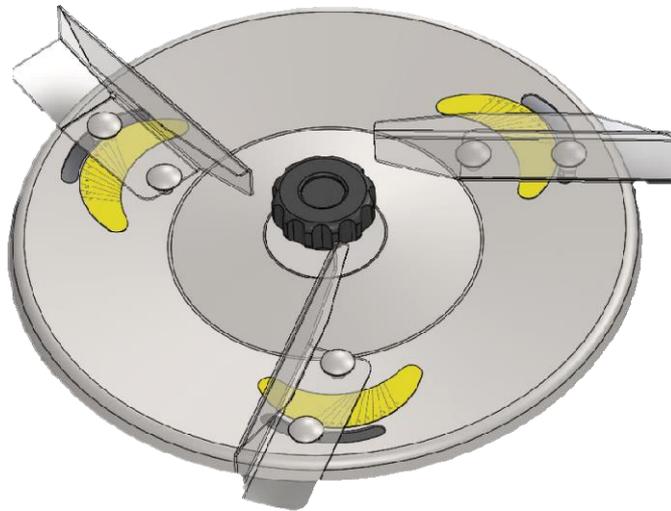
§§§

IMPORTANT: in the presence of the conveyor (see Accessories section), the configuration of the blades of the spreading discs must respect the following table (see also sections Exploded tables and Adjustment of the blades):

LEFT DISC			RIGHT DISC		
	VANE TYPE	POS.		VANE TYPE	POS.
A	Straight vane (cod. 601.040)	10	A	Straight vane (cod. 601.041)	10
B	Straight vane (cod. 601.040)	10	B	Straight vane (cod. 601.041)	10
C	Straight vane (cod. 601.040)	10	C	Straight vane (cod. 601.041)	10

6.2.3. DISCS' VANES ADJUSTMENT

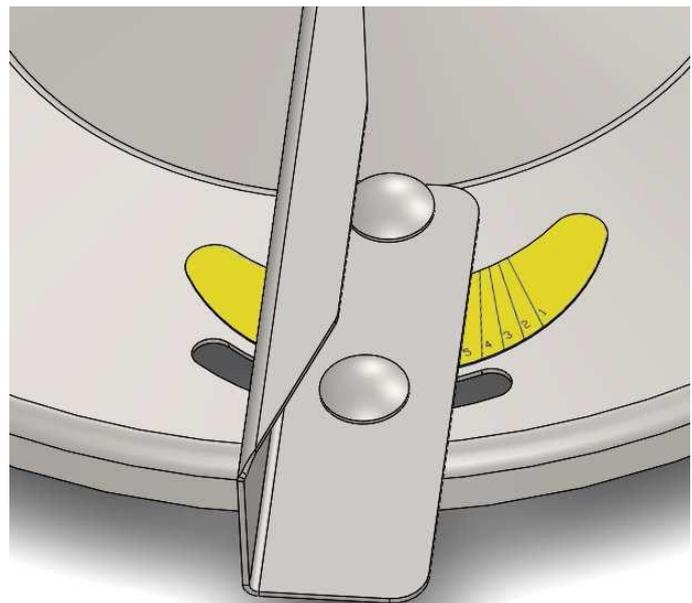
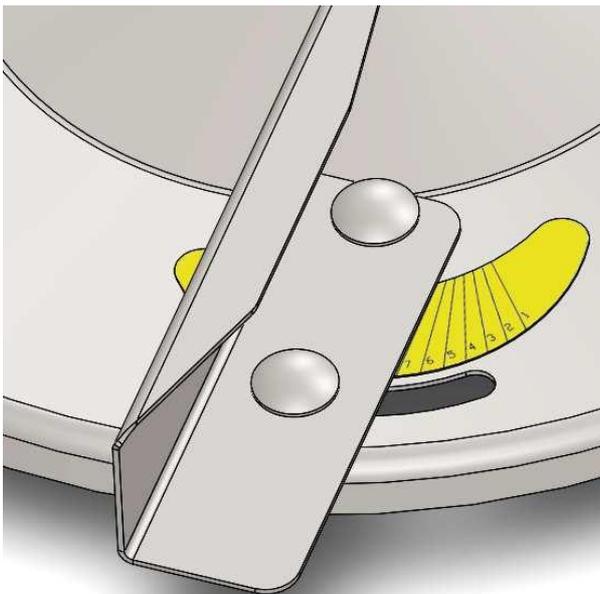
The spreading discs are equipped with graduated labels (with a scale from 1 to 11) placed under each of the three pallets.



To change the position of the pallets, proceed as follows:

- loosen the fixing nuts of the vanes located under the spreading disc;
- rotate the paddles to the desired position with reference to the graduated scale placed on the disk under each paddle;
- tighten the tightening nuts.

The following detailed images show two examples of positioning, respectively with pallet in position 7 and with pallet in position 5.



Bear in mind that:

- increasing the opening angle of the vanes (positioning towards higher values of the graduated scale) increases the spreading width of the fertilizer;
- vice versa, decreasing the opening angle of the vanes (positioning towards lower values of the graduated scale) decreases the spreading width of the fertilizer.



WARNING!

In order to ensure a homogeneous on both sides of the machine, always make sure that the positioning of the vanes on the right spreading disc is identical to that of the vanes on the left spreading disc.



WARNING!

The adjustment of the spreading vanes must be carried out only with the machine connected, the transmission off and the hopper openings closed.

6.3. MACHINE USE

Before using the machine:

- check the correct connection of the machine to the tractor, the hydraulic hoses and any accessories (see sections Connection to the tractor, Hydraulic connection and Accessories);
- fill the feed hopper with the fertilizer to be spread (see section Loading the hopper);
- in the presence of the conveyor, make sure that the configuration of the vanes on the spreading discs is that indicated for use with the conveyor (see section Spreading width adjustment);
- carry out the adjustment of the desired spreading quantity (see section Adjusting the spreading quantity);
- carry out the adjustment of the desired spreading width (see section Spreading width adjustment).

To use the machine:

- Start the tractor and lift the machine so that the discs are at a height of 85 cm from the ground (working height);
- Engage the power take-off with the tractor engine at low engine speeds, then adjust the power take-off speed to 540 rpm (unless otherwise specified in the spreading chart).



- Drive the tractor at the set travel speed before starting the spreading.

If you start spreading from the edges of the field, calculate a safe margin or buffer area from the edge, to avoid spreading the product beyond the edge of the field

- Operate the hydraulic controls of the tractor to open the feed hopper:

- the simultaneous actuation of the two hydraulic distributors opens / closes both openings of the hopper, feeding the product on the spreading discs, and causing a "normal" spreading (spreading profile on the right side of the machine equal to that on the left side);

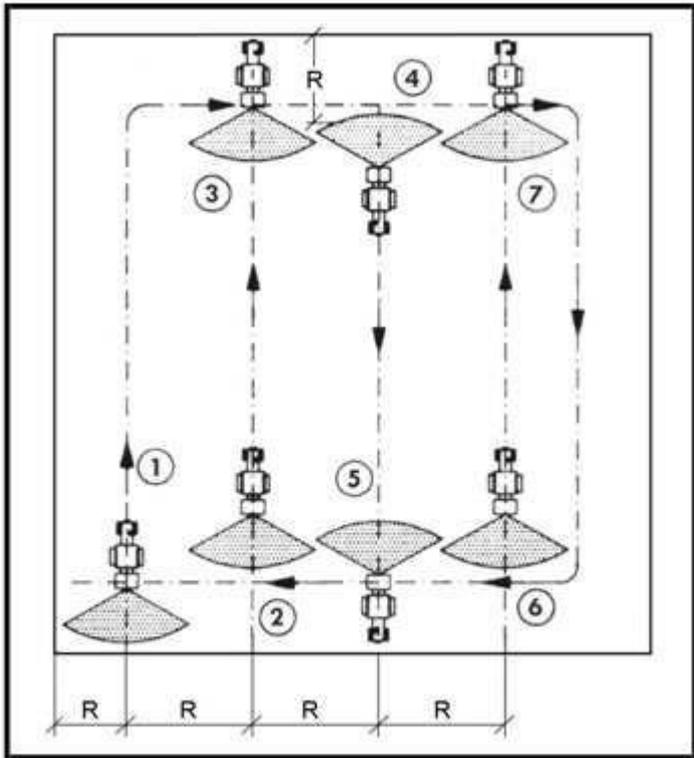
The actuation of only one of the two hydraulic distributors opens / closes a single opening of the hopper, feeding the product on a single spreading disc, and causing an asymmetrical spreading (spreading profile only on the right side or only on the left side of the machine) .

The spread quantity will be determined by the tractor's forward speed, the spreading width, the quality and humidity of the fertilizer and the type of soil. It is advisable to carry out a calibration test to check the quantity of product before continuing, and if necessary to correct it based on the experience and expertise of the operator.

- The driving speed, where possible, must be kept constant throughout the spreading process.
- Make sure that the amount of fertilizer contained inside the hopper is sufficient to carry out the spreading operations, if not, reintegrate it at the end of a pass.
- If you notice a lack of homogeneity in the quantity of fertilizer spread, check the correct operation of the hopper opening mechanism.
- To end the spreading, activate the hydraulic controls of the tractor by closing the feed hopper.
- At the end of the work, disengage the power take-off after reducing its rotation speed.

To carry out the deployment in the field, follow the method indicated in the following diagram:

- place the tractor at the beginning of the field (position 1) at a distance from the lateral border equal to the spreading width R;
- proceed along the entire perimeter of the field keeping a distance R from the lateral border until you are in position 2 at a distance R from position 1;
- proceed in a straight line to position 3;
- perform a 180 ° inversion, settle in position 4 at a distance R from position 3 and proceed in a straight line to position 5;
- repeat this procedure until you have covered the entire area of the pitch (positions 6 and 7).



WARNING!

The adjustment of the correct spreading width is very important as it is absolutely necessary to avoid the risk of going beyond the boundaries of the plot where there may be waterways, roads, other crops, housing.

6.4. HOPPER LOADING

It is recommended to load the hopper through a suitable lift or mechanical means.

If manual loading is required, proceed by lowering the machine so that the height, measured from the upper edge of the hopper with respect to the ground or any platform, does not exceed 1250 mm.

The hopper must not be loaded beyond the end edge in order to avoid the loss of the fertilizer during the working phase and when moving.



Correct filling



Wrong filling



WARNING!

The hopper must be loaded only after hooking the spreader to the tractor.

Do not drive long distances at full load and do not put full bags on the fertilizer loaded in the hopper during transport on the field or during work, in order not to overload the capacity of the machine and to compress the fertilizer.



WARNING!

During the transport, storage and use of the fertilizer, the operator must behave in compliance with the indications on the product label and in particular with the content of the risk phrases and precautionary advice.

SPREADING ERRORS

To ensure correct machine operation, we recommend that you do not run into the following errors

7.1 OPERATING ERRORS

- Inadequate feed speed;
- Incorrect spreading width;
- The spreading disc is not horizontal to the ground;
- Forward speed of the tractor different from that prescribed in the tables, or in any case not suitable for that specific type of FERTILIZER;
- Driving errors (failure to overlap the spreading surfaces);
- Failure to clean the spreading discs and drop openings.

7.2 ERRORS DUE TO FERTILIZER

- Poor quality fertilizer. Wet or excessively wet fertilizer;
- The composition of the fertilizer is incorrect or does not correspond to what was declared by the seller;
- Presence of excessive lumps of fertilizer or of particularly large dimensions which negatively affect the yield of the ;

7.3 ERRORS DUE TO THE MACHINE

- Hopper openings clogged.
- Worn or damaged parts of the disc

MAINTENANCE

- The maintenance plan includes ordinary and extraordinary maintenance operations.
- Ordinary maintenance: includes all periodic maintenance operations performed by the operator to ensure correct machine operation.
- Extraordinary maintenance and repairs: includes all maintenance and replacement operations performed following malfunctions or breakages by qualified personnel duly supervised by the manufacturer.

8.1. ORDINARY MAINTENANCE

The routine maintenance criteria shown are based on the company's experience and suggestions given on several occasions by our customers. These criteria are not exhaustive, but can be further integrated with the collaboration of the same customers who thank them in advance.

Good routine maintenance keeps the operating cost of the machine low and allows full use of its potential.



WARNING!

Any maintenance, adjustment and cleaning work must be carried out with the machine on the ground (in stable conditions), the tractor engine off, the power take-off disengaged, the handbrake engaged, the ignition key off and removed from the ignition.



WARNING!

In the event of a failure, the operator must immediately stop the machine, check the extent of the problem and carry out any interventions on the machine.



WARNING!

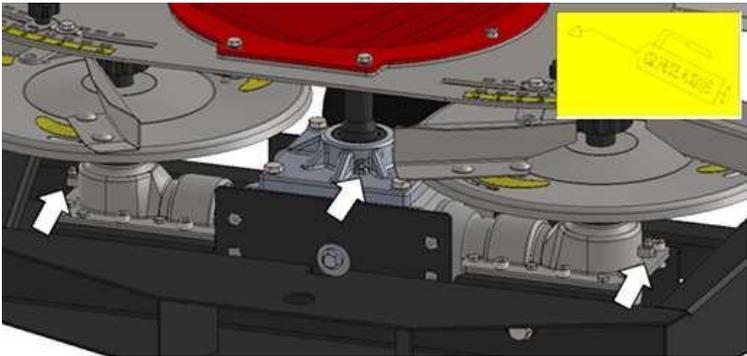
For maintenance operations always use the appropriate Personal Protective Equipment (safety shoes and work gloves) and prepare all forms of accident prevention provided for the type of operation in progress.



WARNING!

If using pressurized water or compressed air to clean the machine, it is necessary to protect yourself with special glasses or protective masks and remove any people or animals near the machine. Do not use flammable fluids.

8.1.1. MAINTENANCE PLANNING

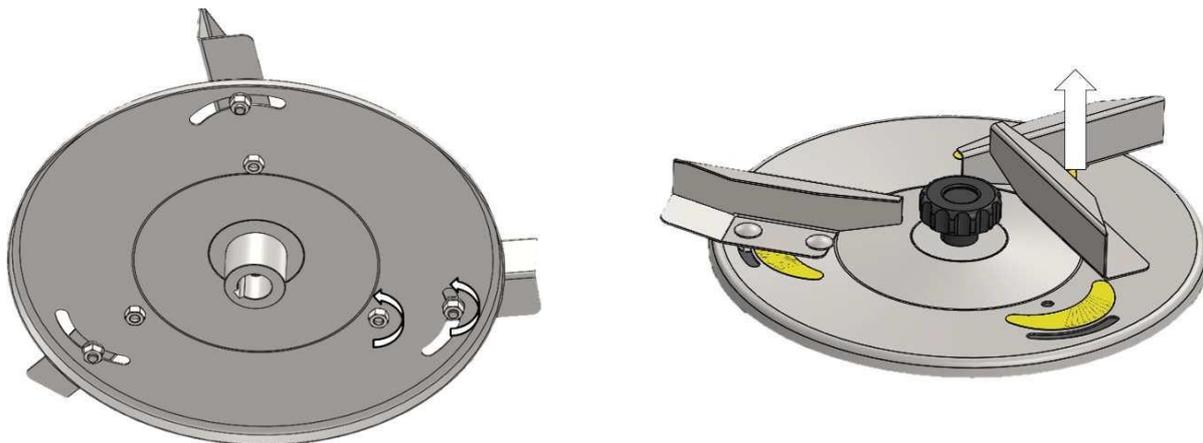
	
<p>Before each usage</p>	<ul style="list-style-type: none"> - - Check the functional status of the machine and check the integrity of the protection elements. - - Visually inspect the machine mechanisms.
<p>Every 8 working hours</p>	<ul style="list-style-type: none"> - - Check the correct tightening of all fastening elements and nuts and bolts. - - Check the condition of the vanes on the spreading disc. - - Check the pipes and fittings. - - Grease the transmission unit with lithium grease, using the points indicated in the figure. 

8.2. EXTRAORDINARY MAINTENANCE

	<p>WARNING!</p> <p>For particular interventions that are not known or to replace damaged parts not covered in this Manual, it is necessary to resort to specialized personnel using the Assistance Service at the Manufacturer or its dealers.</p>
---	---

8.2.1. DISCS' VANES REPLACEMENT

If the vanes of the spreading discs are broken or damaged, it is necessary to replace them with other originals, unscrewing the fixing nuts with a key and replacing the damaged element.



The fastening elements must be of the same type as those prescribed by the manufacturer

8.3. SPARE PARTS

To replace machine parts, the customer must only use original spare parts, ordering them directly from the machine manufacturer to authorized dealers.

When ordering, it is necessary to specify what is indicated on the machine identification plate, in particular:

- series;
- model;
- year of manufacture;
- frame number.

STORAGE

It is a good practice not to wait to use the machine for repairs and maintenance.

Repair and replace parts that are broken or damaged before storage, so that the machine is always ready for use.

Store the machine in a place sheltered from atmospheric agents and protect it to avoid deterioration.



WARNING!

Fertilizers are generally quite corrosive. For this reason it is important that no particles of fertilizer remain in the machine for long periods of time.

- Before putting the machine to rest for long periods, it is advisable to proceed as follows:
- wash the machine and the inside of the hopper thoroughly;
- carry out a general visual inspection of the machine to identify any structural lesions, detect any deep abrasions on the paintwork;
- check that the original safety pictograms are present in their positions, that they are intact and legible, and if they are deteriorated or illegible, immediately replace them;
- grease all mechanical parts;
- put the machine, if possible, in a covered area.



WARRANTY

All the machines produced, presented in this Manual are sold with a one year warranty from the delivery date, subject to the following clauses:

- If a defect is found in a piece (or parts) of a machine during a period of one year from the date of delivery of the machine to the customer, the same undertakes to check the piece deemed defective and, if during such verification was found to be a defect due to the materials used or of manufacture, it undertakes to repair the defective part or, at its discretion, to replace it free of charge.
- The customer, upon delivery, must check that the machine has not been damaged during transport, that it complies with the one ordered and complete with all the accessories required by the purchase contract. Otherwise he must send a written complaint within 8 days of receipt of the same.
- The warranty does not apply in the following cases:
 - a) normal wear;
 - b) breakages or failures deriving from negligence or from the use of the machines in conditions other than those permitted;
 - c) if the machine has undergone unauthorized modifications (in writing) by the manufacturer, non-original spare parts or accessories have been fitted;
 - d) when the serial number of the machine has been modified, removed or deleted.In any case, the buyer is responsible for the cost of replacing consumables, labor, transport costs, any customs duties and value added tax.

We decline all responsibility for direct or indirect damages deriving from breakage and / or wear of machine parts, as well as for those deriving from their own or improper use of the same.

- Defects not clearly attributable to the material or manufacture will be examined at our Technical Assistance Center or at our office. If the complaint proves to be unjustified, all costs of repair and / or replacement of damaged parts will be charged to the buyer.
- All spare parts will be invoiced upon shipment and any recognition of guarantees (upon receipt and verification of the damaged part) will entitle the holder to credit.

The manufacturer or its dealer will not be responsible for the loss, nor the damage, whatever it is and in any way that occurred during transport.

The above commitment refers to the customer's person and cannot be transferred or passed on to others.

TIPE OF FERTILIZER	SPREADING WIDTH [m]	TRACTOR PTO [rpm]	TRACTOR SPEED [km/h]	HOPPER OPENING POSITION AND FERTILIZER QUANTITY SETTING [kg/hectare]							
				1	2	3	4	5	6	7	8
GRANUL. 12-12-12 15-15-15	18	540	6	15	41	162	265	370	510	666	796
			8	11	31	122	198	277	382	499	597
			10	9	25	97	159	222	306	400	477
	12	450	6	23	59	241	397	554	760	996	1190
			8	17	46	180	298	417	570	746	891
			10	14	34	146	238	332	455	597	713
UREA	12	540	6	7	19	138	243	303	475	677	808
			8	5	13	102	178	227	355	506	605
			10	4	9	83	143	180	285	405	484

(TABLE IN INTERNATIONAL SYSTEM OF UNITS)

NOTE: the data on the table are valid for the discs' vanes configuration set at the factory (see section Spreading width adjustment).



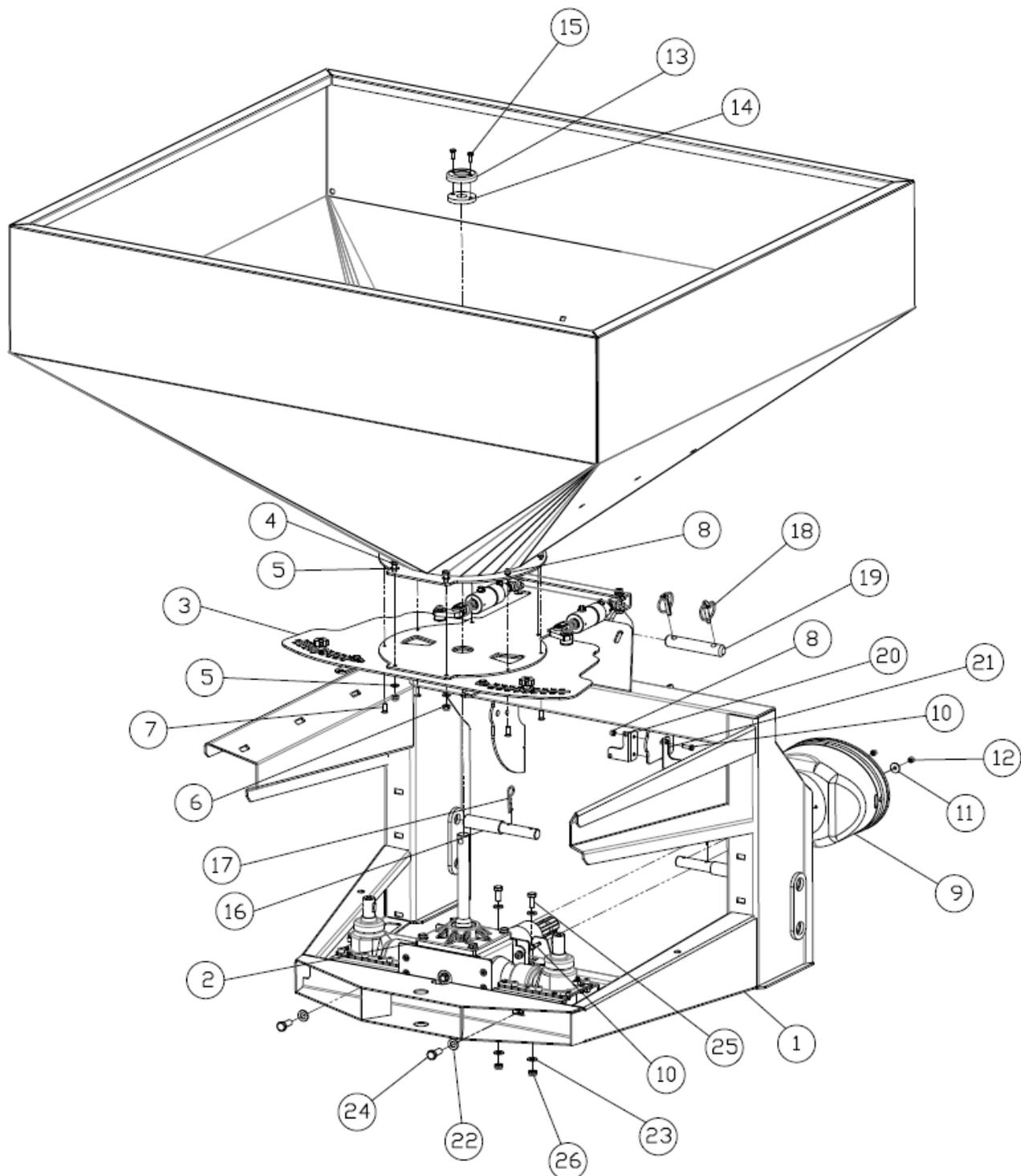
TIPE OF FERTILIZER	SPREADING WIDTH [feet]	TRACTOR PTO [rpm]	TRACTOR SPEED [mph]	HOPPER OPENING POSITION AND FERTILIZER QUANTITY SETTING [lbs/acre]							
				1	2	3	4	5	6	7	8
GRANULAR 12-12-12 15-15-15	59	540	3,7	13	37	145	236	330	455	594	710
			5.0	10	28	109	177	247	341	445	533
			6.2	8	22	87	142	198	273	357	426
	39	450	3,7	21	53	215	354	494	678	889	1062
			5.0	15	41	161	266	372	509	666	795
			6.2	12	30	130	212	296	406	533	636
UREA	39	540	3,7	6	17	123	217	270	424	604	721
			5.0	4	12	91	159	203	317	451	540
			6.2	4	8	74	128	161	254	361	432

(TABLE IN US CUSTOMARY UNITS)

NOTE: the data on the table are valid for the discs' vanes configuration set at the factory (see section Spreading width adjustment).

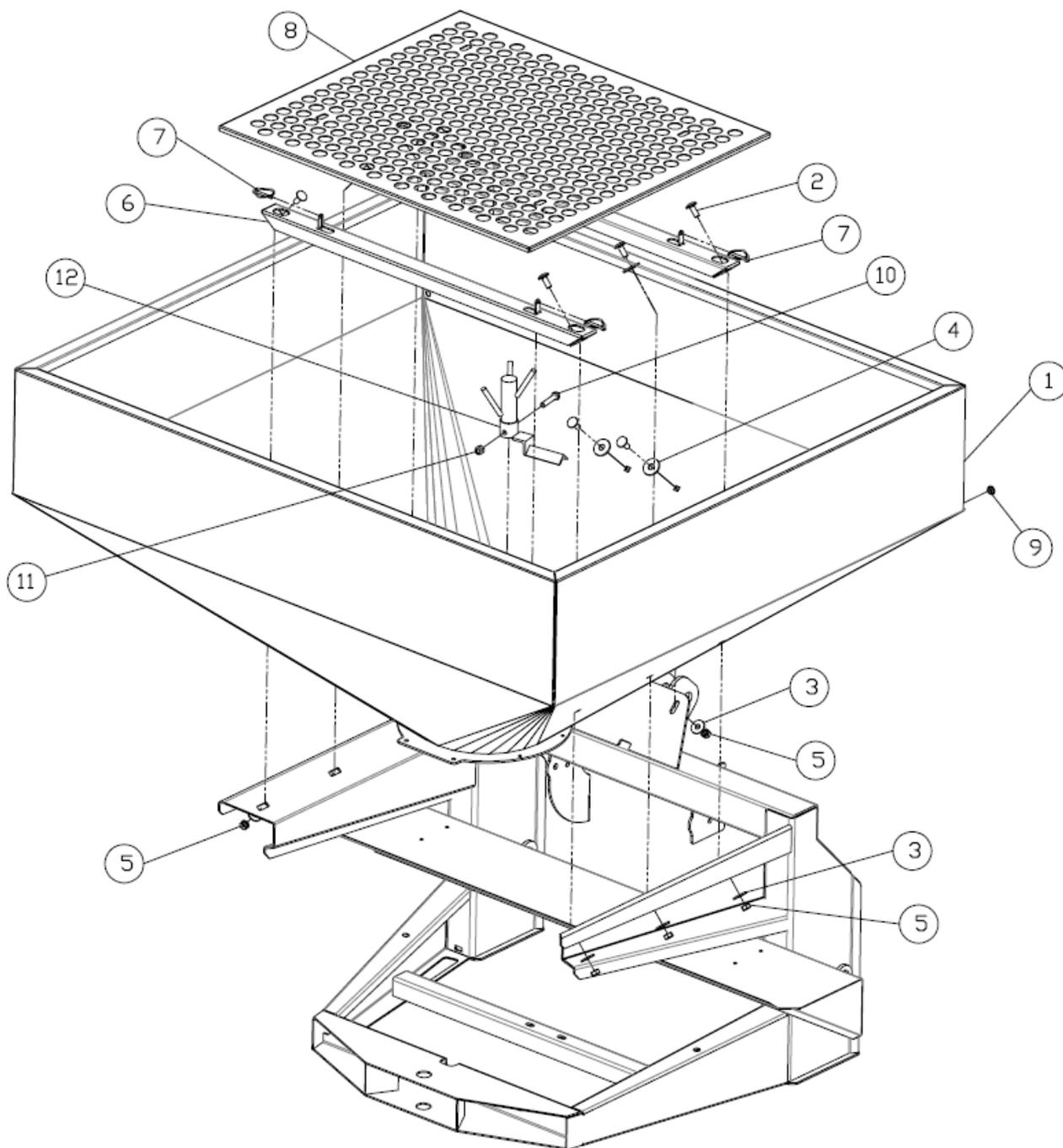
12. MACHINE BREAKDOWN DRAWINGS

ASSEMBLY RE-A / PART A



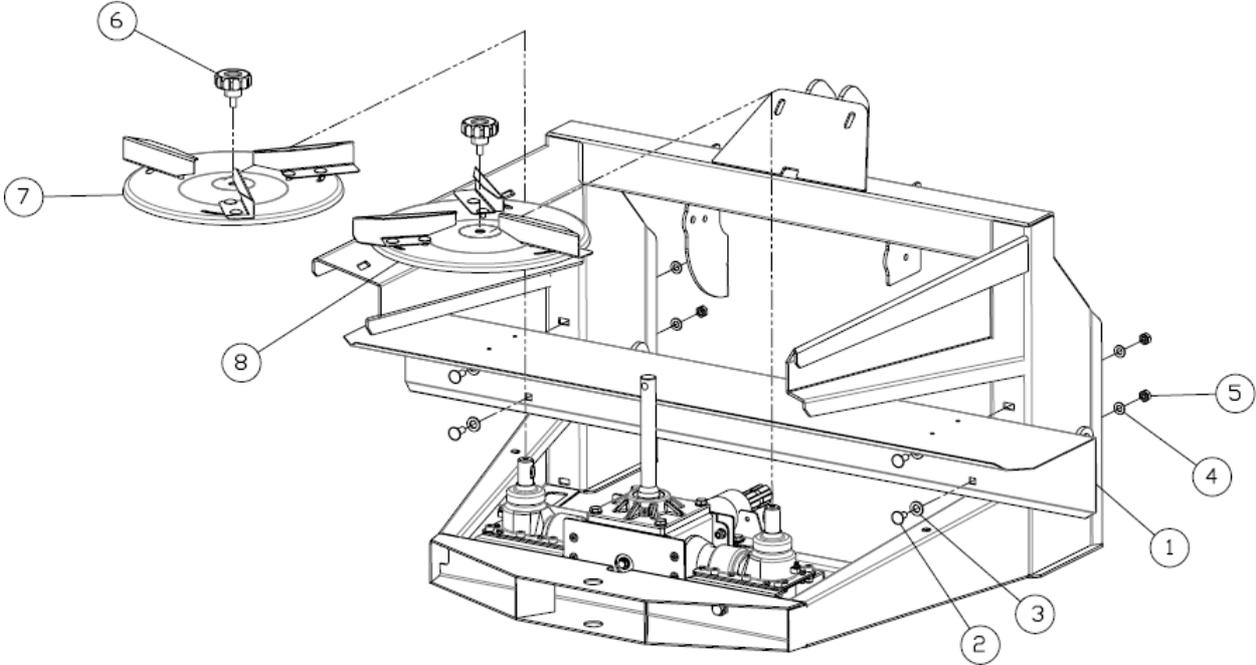
<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	620.129	FRAME RE MODEL	1
2	322.240	COMPLETE GEARBOX RE MODEL	1
3	606.470	ASM BOTTOM HOPPER OPENING PLATE RE-A	1
4	300.088	HEX. HEAD. SCREW M8X25 UNI5739 ST. STEEL	4
5	303.056	WASHER 8X17 UNI6592 ST. STEEL	8
6	301.079	SELF-LOCK. NUT M8 UNI7473 ST. STEEL	4
7	300.093	SCREW M6X20 UNI5933 ST. STEEL	4
8	301.081	SELF-LOCK. NUT M6 UNI7474 ST. STEEL	6
9	304.050	PTO SHIELD "90" MOD. RX-RE	1
10	300.121	HEX. HEAD SCREW M6X20 UNI5739 ST. STEEL	4
11	303.115	WASHER 6X24 UNI6593 ST. STEEL	2
12	301.109	SELF-LOCK. NUT M6 UNI7473 ST. STEEL	2
13	620.009	METAL RING PTB/RE	1
14	304.036	RUBBER WASHER PTB/RE	1
15	300.120	HEX. HEAD SCREW M6X16 UNI5739 ST. STEEL	2
16	633.022	LOWER LINK PIN 22-28 ZB RE/RT	2
17	307.004	SPLIT PIN A R MM 4 ST. STEEL	2
18	302.007	LYNCH PIN DIAM. 8 ZB	2
19	633.020	UPPER LINK PN. 25X144 ZB RT-RE-RX	1
20	606.392	LEFT BRACKET SUPPORT OF MAXIMUM VALVE	1
21	606.325	RIGHT BRACKET SUPPORT OF MAXIMUM VALVE	1
22	303.060	WASHER 12X24 UNI6592 ST. STEEL	2
23	303.052	WASHER 10X20 UNI6592 ST. STEEL	4
24	300.123	HEX. HEAD SCREW M12X30 UNI5739 ST. STEEL	2
25	300.089	HEX. HEAD SCREW M10X25 UNI5739 ST. STEEL	2
26	301.068	SELF-LOCK. NUT M10 ST. STEEL	2

ASSEMBLY RE-A / PART B



<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	609.060	HOPPER RE-A 1000	1
1	609.061	HOPPER RE-A 800	1
1	609.062	HOPPER REX-A 800 ST. STEEL	1
1	609.063	HOPPER REX-A 1000 ST. STEEL	1
1	609.058	HOPPER RE-F 600	1
1	609.170	HOPPER RE-F 600 ST. STEEL	1
2	300.096	CUPP SQUARE HEADS CREW 10X25 UNI5732 ST. STEEL	8
3	303.053	WASHER 10X30 UNI6593 ST. STEEL	8
4	303.059	WASHER 12X36 UNI6593 ST. STEEL	4
5	301.067	NUT M10 UNI5588 ST. STEEL	8
6	606.176	HOPPER INNER SUPPORT RE	2
7	305.017	LYNCH PIN D 4.50	4
8	642.017	PROTECTIVE GRID RE	1
9	304.052	RUBBER CAP DIAM. 14 MM	2
10	300.106	HEX. HEAD NUT M10X50 UNI5739 ST. STEEL	1
11	301.068	SELF-LOCK. NUT M10 UNI7474 ST. STEEL	1
12	619.058	RE STANDARD AGITATOR	1

ASSEMBLY RE-A / PART C

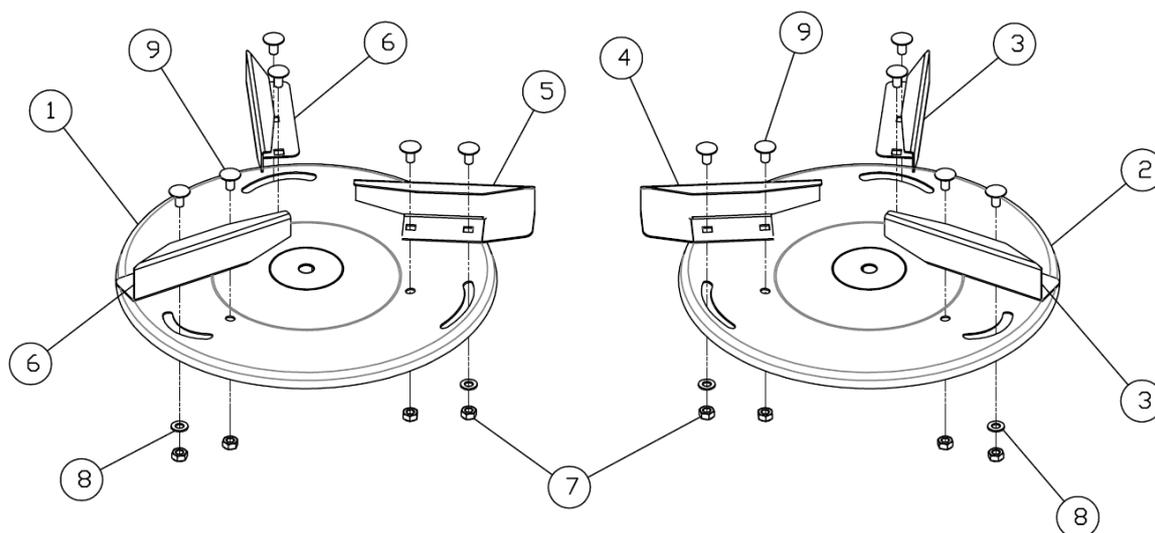




<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	639.026	STAINLESS STEEL REAR SHIELD RE	1
2	300.096	CUP SQUARE HEAD SCREW 10X25 UNI5732 ST. STEEL	4
3	303.060	WASHER 12X24 UNI6592 ST. STEEL	4
4	303.052	WASHER 10X20 UNI6592 ST. STEEL	4
5	301.067	NUT M10 UNI5588 ST. STEEL	4
6	302.001	GROOVED KNOB D.60 M10X20	2
7	610.062	LEFT ST. STEEL DISC W/VANES	1
8	610.063	RIGHT ST. STEEL DISC W/VANES	1

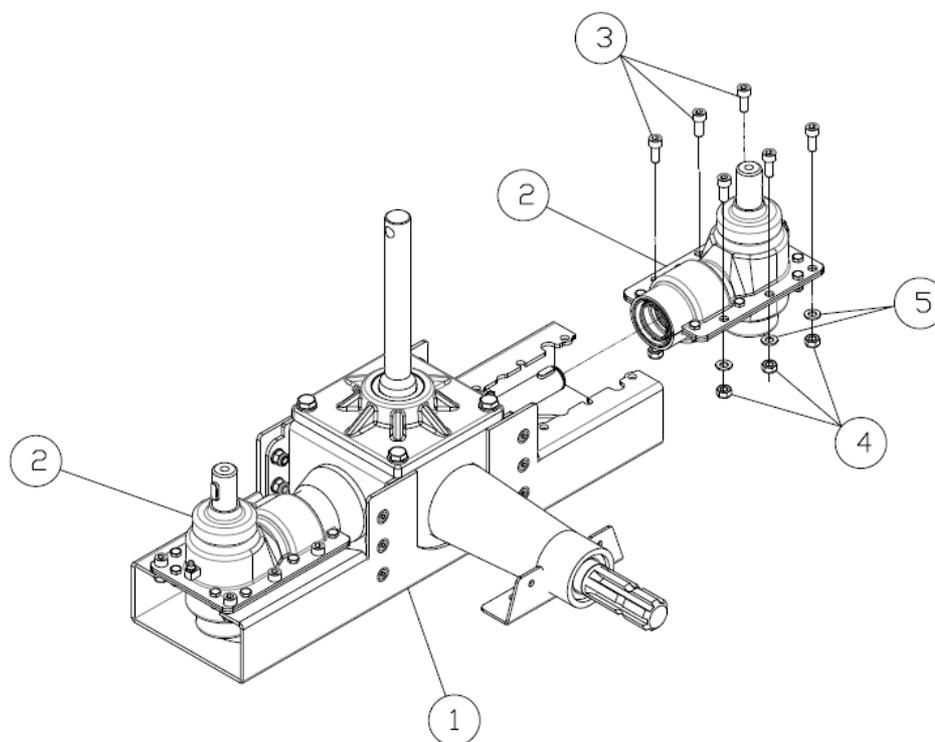
LEFT ST. STEEL DISC WITH VANES – 610.062

RIGHT ST. STEEL DISC WITH VANES – 610.063



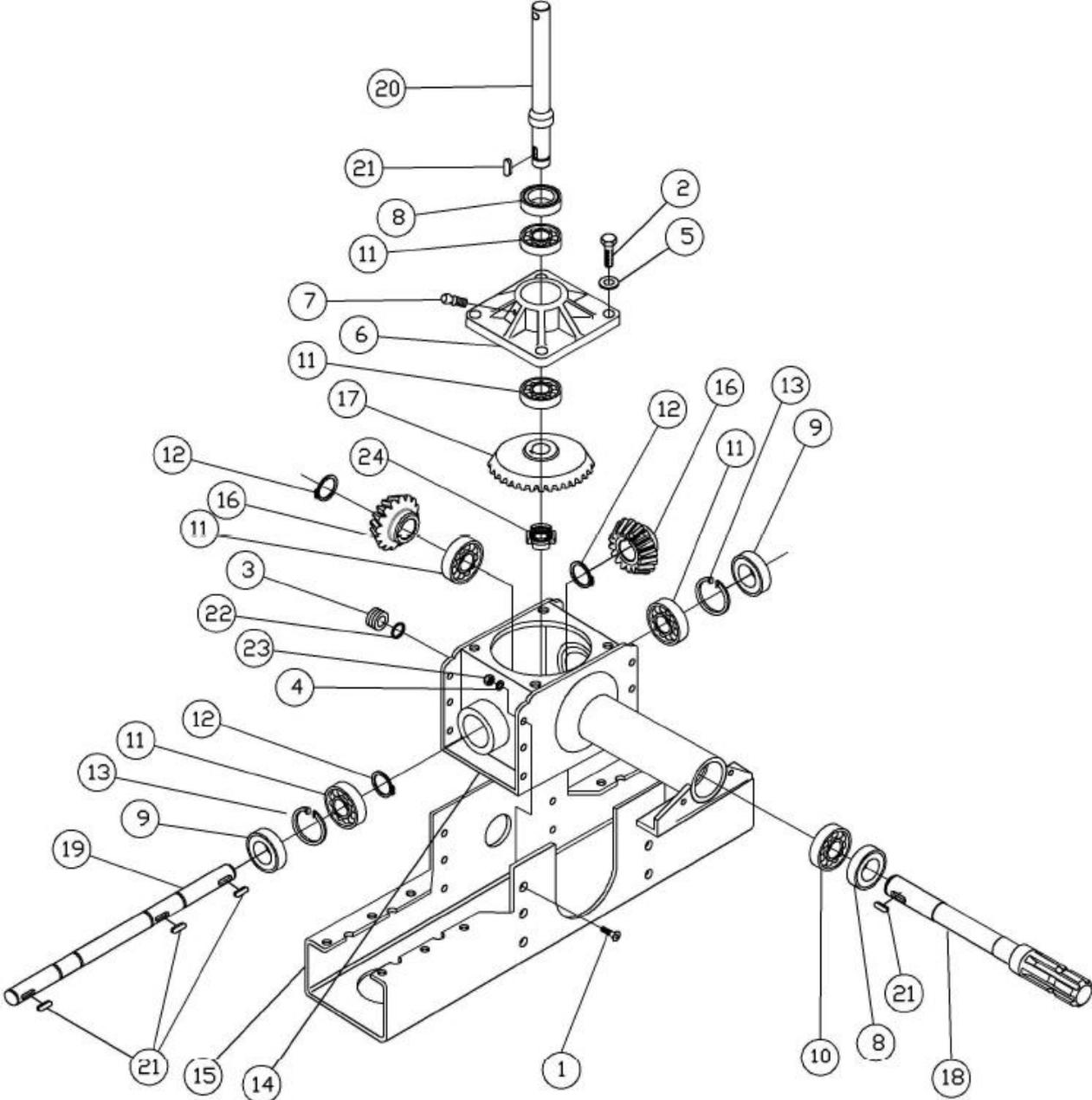
<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	610.060	ST. STEEL LF DISC RE	1
2	610.061	ST. STEEL RH DISC RE	1
3	601.041	ST. STEEL VANE 125 RH STRAIGHT RE	2
4	601.043	ST. STEEL VANE 125 RH TILTED RE	1
5	601.042	ST. STEEL VANE 125 LF TILTED RE	1
6	601.040	ST. STEEL VANE 125 SX STRAIGHT RE	1
7	301.064	NUT M8 UNI5588 ST. STEEL	12
8	303.056	WASHER 8X17 UNI6592 ST. STEEL	6
9	300.107	CUP SQUARE HEAD SCREW 8X16 QH3 ST. STEEL	12

COMPLETE GEARBOX MOD. RE – 322.240



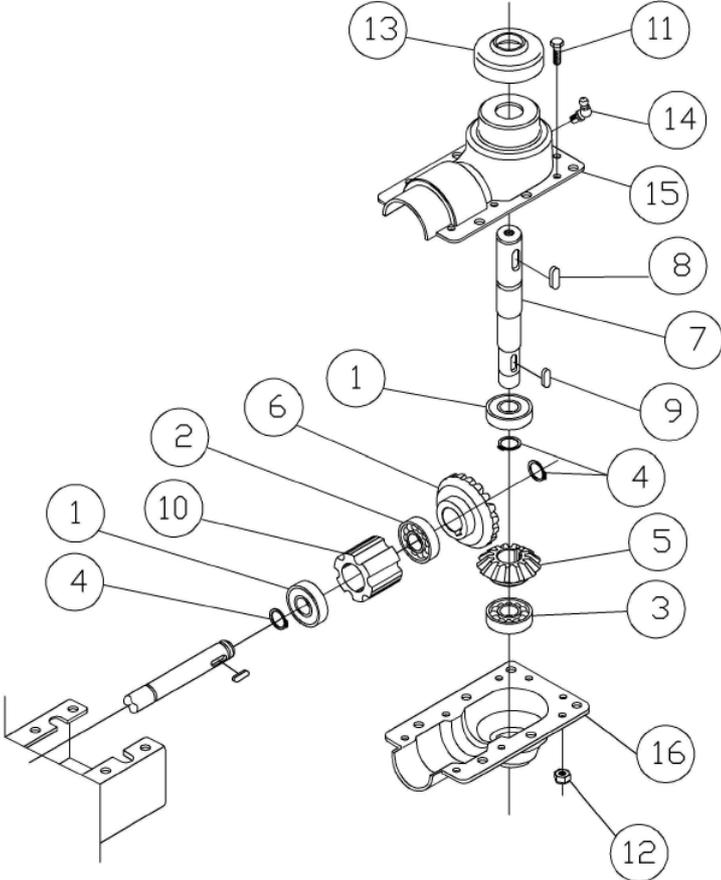
<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	322.021	CENTRAL GEARBOX RE	1
2	322.020	SIDE GEARBOX RE	2
3	300.014	CYL. HEAD SCREW 8X16 GALVA	12
4	303.056	WASHER 8X17 UNI6592 GALVA	12
5	301.012	NUT M8 UNI5588 GALVA	12

CENTRAL GEARBOX – 322.021



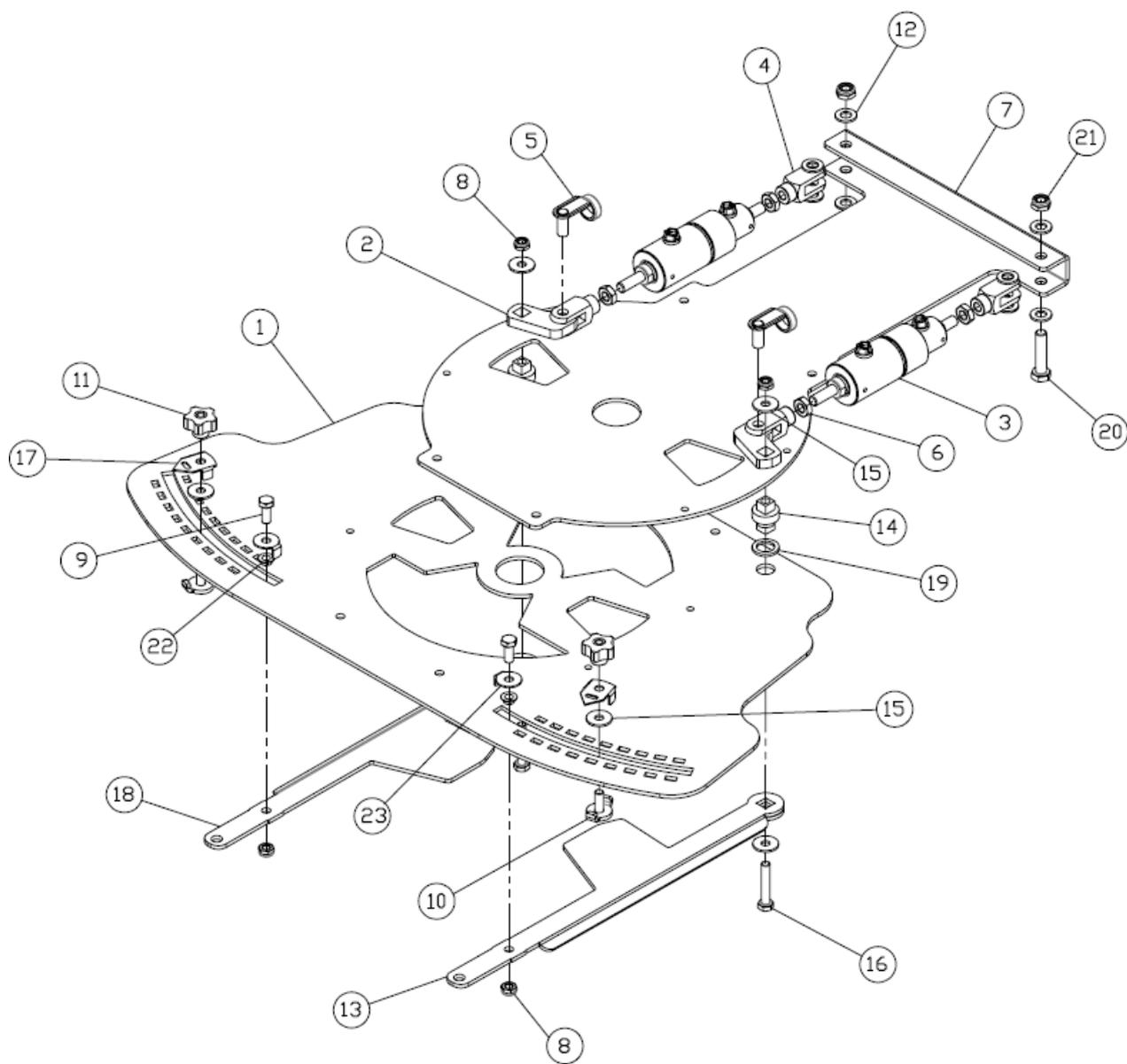
<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	300.040	FLAT HEAD SOCKET SCREW 8X20 UNI5933 GALVA	12
2	300.104	HEX. HEAD SCREW10X30 UNI5739 ST. STEEL	4
3	300.200	CAP SCAR. M14X1,5 CH17	1
4	303.007	WASHER 8X17 UNI6592 GALVA	12
5	303.052	WASHER 10X20 UNI6592 ST. STEEL	4
6	304.026	ALLU. FLANGE R2-24	1
7	306.007	GREASER M6 GALVA	1
8	309.001	SEAL 35X52X7 G	2
9	309.002	SEAL A 25X52X7	2
10	310.019	BEARING 25 52 15 6205 2RS C3 M	1
11	310.002	BEARING 25 52 15 6205	5
12	313.011	SAFETY ELASTIC RING E 25	3
13	313.017	SAFETY ELASTIC RING 52 7437	2
14	314.013	CENTRAL GEARBOX HOUSING RX/RT/RE	1
15	314.014	UPPER GEARBOX HALF R2 ECO	1
16	316.005	PIGNON Z16 R2-24	2
17	316.007	PIGNON Z32 CORONA DENTATA R2-	1
18	323.002	CENTRAL GEARBOX INPUT SHAFT R2	1
19	323.027	CENTRAL LONG SHAFT RE	1
20	323.028	UPPER AGITATOR SHAFT RE	1
21	326.003	KEY 8X7X20 UNI6604	5
22	300.201	ALLU. SEAL 14X18X1,5	1
23	301.001	UPPER NUT AUT. M8 ZB	12
24	301.052	SELF-LOCKING FERRULE PN 5 M25X1.5	1

SIDE GEARBOX - RE - 322.020



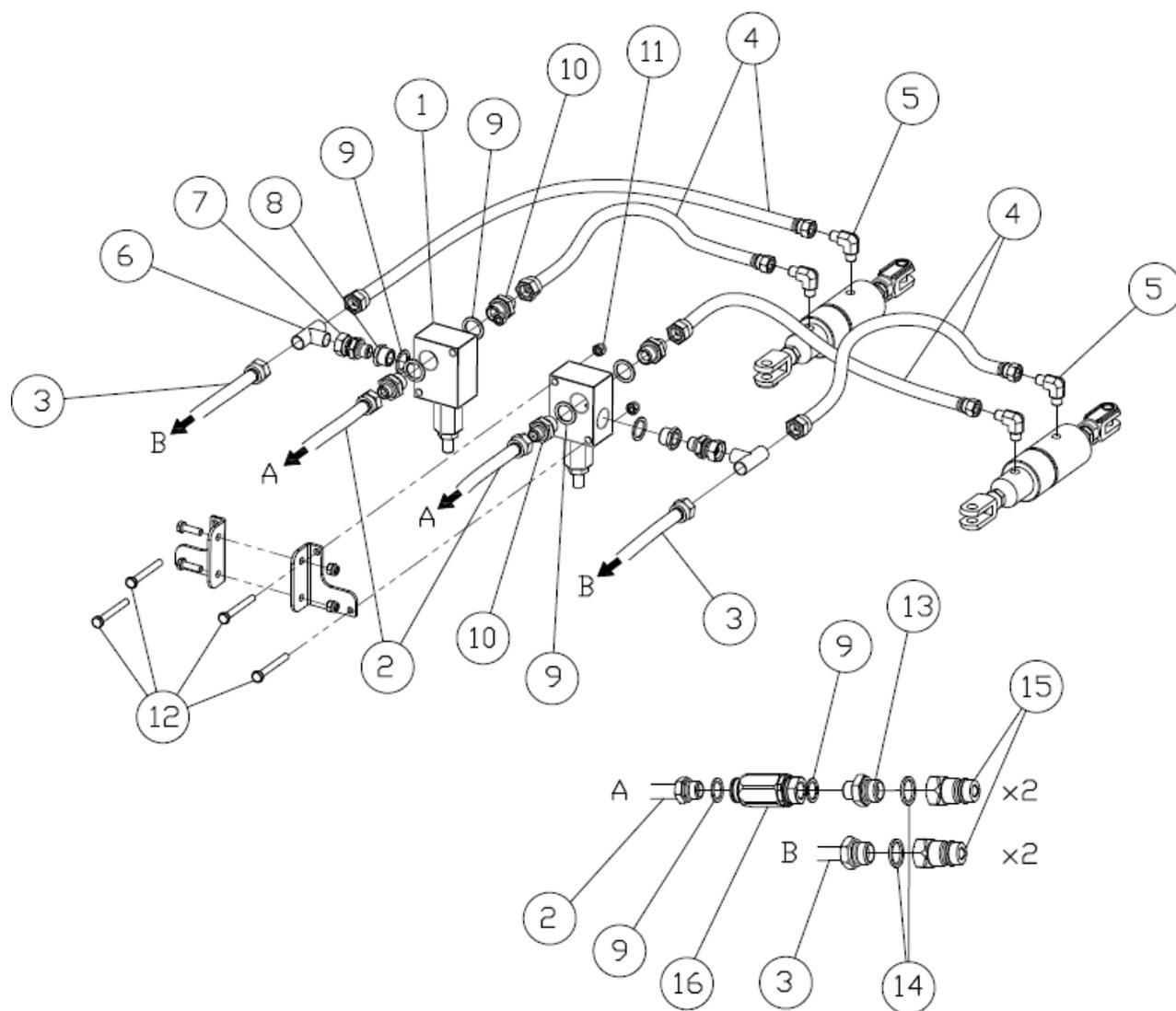
<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	310.001	BEARING 25 52 15 6205 2RS	2
2	310.002	BEARING 25 52 15 6205	1
3	310.003	BEARING 20 52 15 6304	1
4	313.011	SAFETY ELASTIC RING E 25	3
5	316.004	PIGNON Z13 R2-24	1
6	316.006	PIGNON Z19 R2-24	1
7	323.023	DISC OUTPUT SHAFT RX	1
8	326.003	KEY 8X7X20 UNI6604	1
9	326.004	KEY 6X6X20 UNI6604	1
10	329.011	SPACER	1
11	300.026	HEX. HEAD SCREW 6X16 UNI5739 GALVA	8
12	301.009	SELF-LOCK. NUT M6 ZB	8
13	304.002	GEARBOX PTO SHIELD	1
14	306.010	GREASER 90° 8X1,25 GALVA	1
15	314.001	LOWER GEARBOX HALF	1
16	314.002	UPPER GEARBOX HALF	1

LOWER PLATE ASSEMBLY AND HOPPER BOTTOM - RE-A - 606.470



<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	606.460	LOWER DISCHARGE PLATE RE-A ST. STEEL	1
2	606.463	COUNTER LOWER PLATE RE-A	2
3	623.010	2-EFFECTS CYLINDER RX/REA	2
4	332.004	YOKE 10X20 M10 GALVA	4
5	332.006	CLIPS 10X20 ZB	2
6	301.066	NUT M10 UNI5589 ST. STEEL	4
7	606.462	ST. STEEL HOPPER BOTTOM FLANGE RE-A	1
8	301.065	SELF-LOCK. NUT M8 UNI 7474 ST. STEEL	4
9	300.101	HEX. HEAD SCREW M8X20 UNI5739 ST. STEEL	2
10	606.469	CLIP ASM OPENING PLATE RE-A	2
11	302.005	KNOB DM.40 M8	2
12	303.052	WASHER 10X20 UNI6592 ST. STEEL	8
13	606.464	OPENING PLATE RH LEVER RE-A	1
14	325.081	PIN Q12	2
15	303.051	WASHER 8X24 UNI6593 ST. STEEL	6
16	300.214	HEX. HEAD SCREW M8X45 UNI5739 ST. STEEL	2
17	616.010	LEVER POINTER RE-A	2
18	606.465	OPENING PLATE LF LEVER RE-A	1
19	303.077	WASHER PA6 25X17X2X2.5	2
20	300.146	HEX. HEAD SCREW M10X45 UNI5739 ST. STEEL	2
21	301.068	SELF-LOCK. NUT M10 UNI 7474 ST. STEEL	2
22	325.082	HUB PG 8X10X15X5,5	2
23	606.467	PLATE LOCKING CLIP RE-A	2

HYDRAULIC OPENING SYSTEM – 304.300

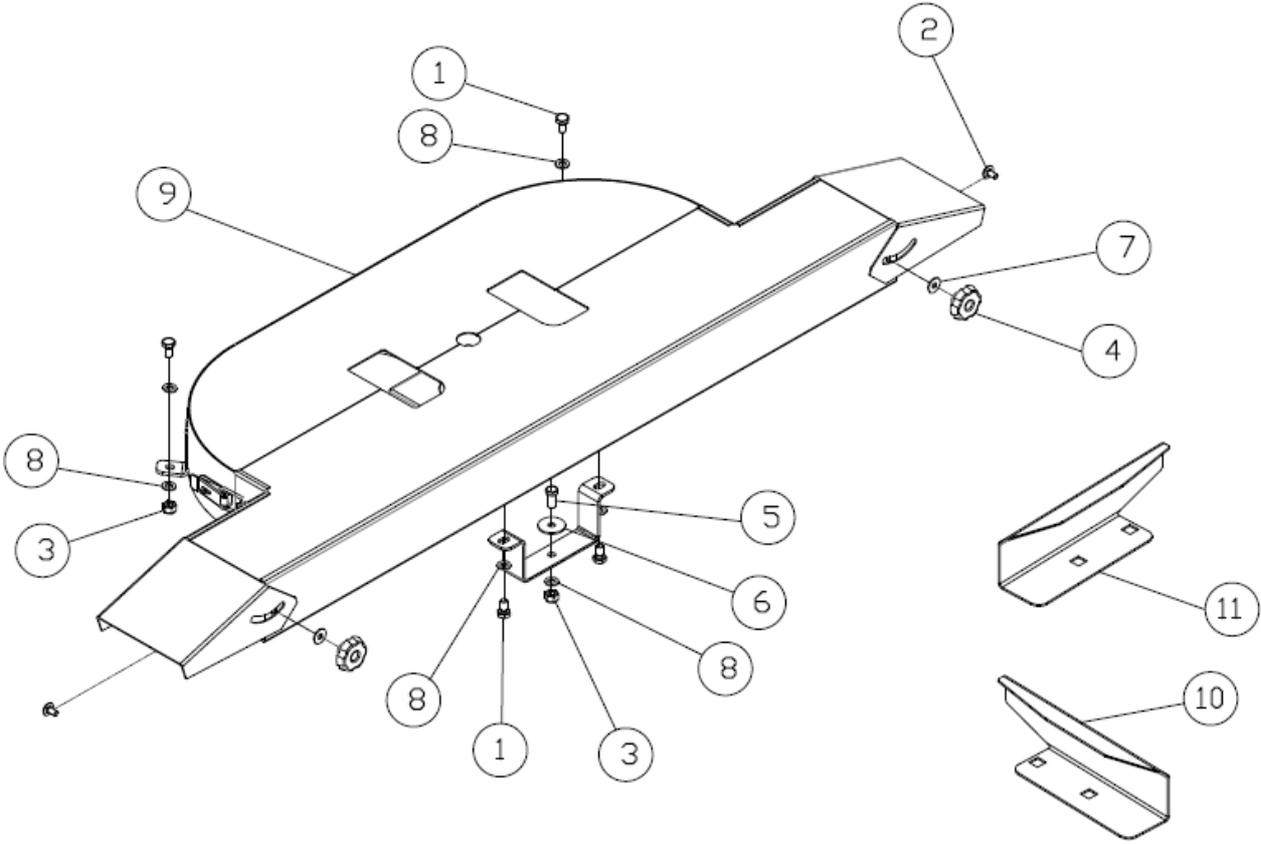


<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	304.140	MAX VALVE VM45 3/8	2
2	304.142	HOSE R1 1/4 MD3/8 + FD1/4 2000MM	2
3	304.119	HOSE R1 1/4 MD1/2 + FD1/4 2000MM	2
4	304.143	HOSE R1 1/4 FD1/8 + FD1/4 400MM	4
5	304.144	ANGLE 90° M1/8 BSPT - M1/8 BSPP	4
6	304.124	ADAPTER "T" M1/8 BSPP	2
7	304.122	STRAIGHT ADAPTER M1/4 - FGIR1/4	2
8	304.118	STRAIGHT ADAPTER M3/8 - F1/4	2
9	304.125	COPPER WASHER 3/8	10
10	304.121	STRAIGHT ADAPTER M3/8 - M1/4	4
11	301.081	SELF-LOCK. NUT M6 UNI7474 ST. STEEL	4
12	300.143	HEX. HEAD SCREW M6X50 UNI5737 ST. STEEL	4
13	304.141	STRAIGHT ADAPTER M3/8 - M1/2	2
14	304.132	COPPER WASHER 1/2	4
15	304.127	MALE QUICK COUPLING 1/2	4
16	320.005	UNIDIRECTIONAL FLOW REGULATOR 3/8 40L/MIN	2

ACCESSORIES

PAINTED STEEL DOUBLE BENDING ATTACHMENT – 619.200

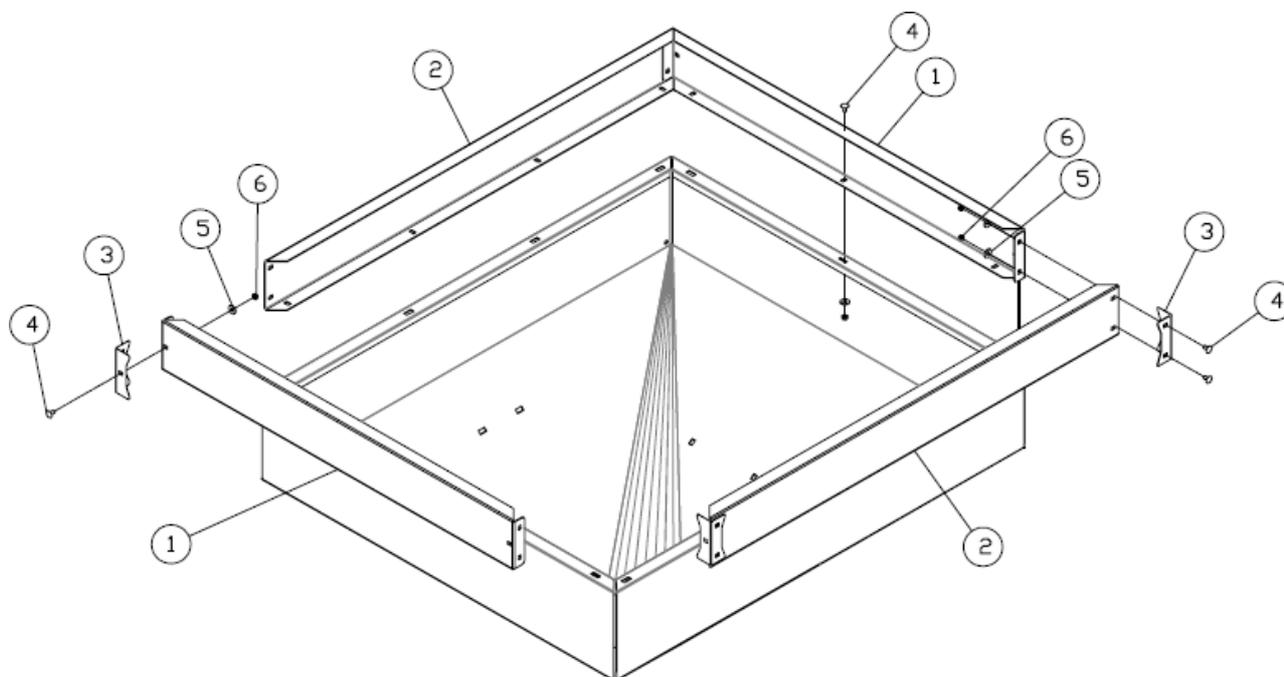
STAINLESS STEEL DOUBLE BENDING ATTACHMENT – 619.201



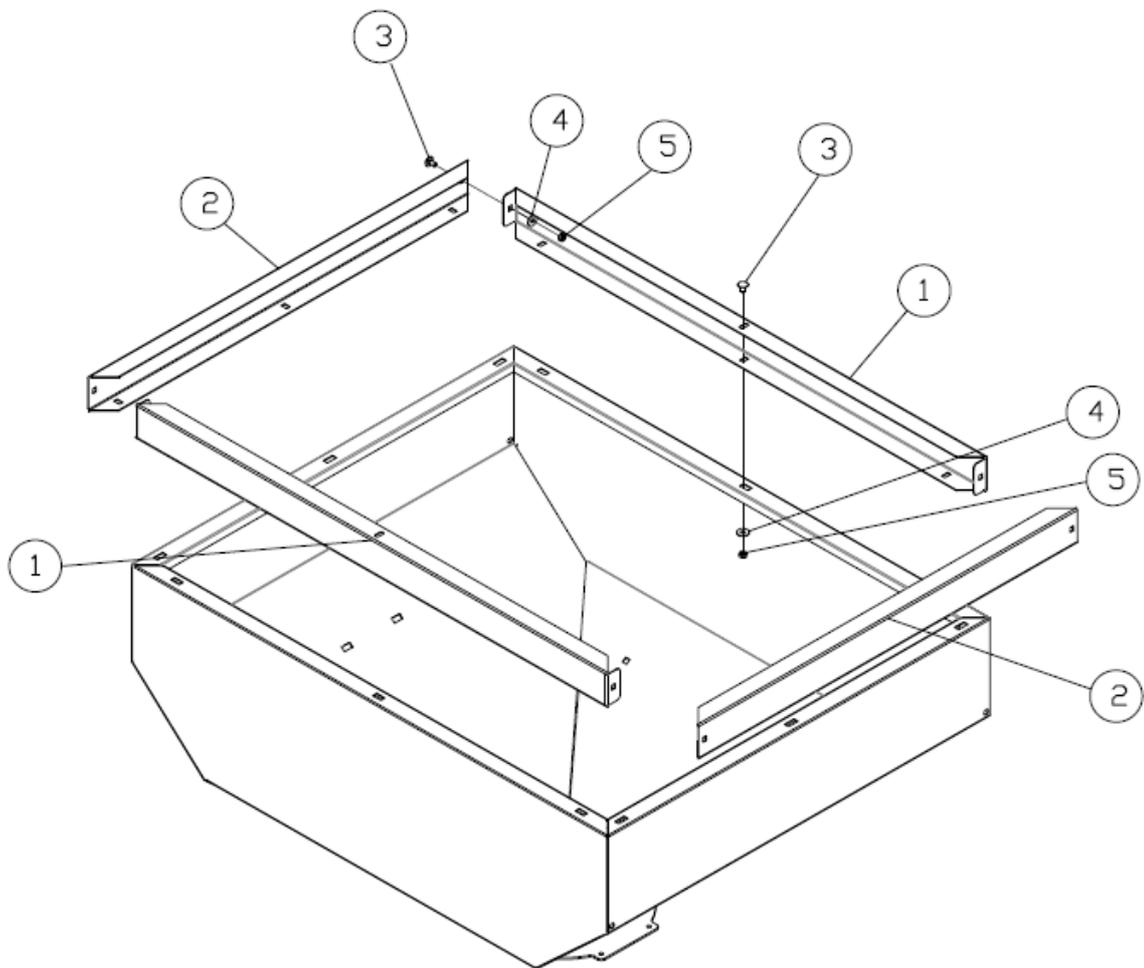
<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	300.016	HEX. HEAD SCREW 10X20 UNI5739 GALVA	4
1	300.103	HEX. HEAD SCREW 10X20 UNI5739 ST. STEEL	4
2	300.030	CUP SQUARE HEAD SCREW 8X16 QH3 GALVA	2
2	300.107	CUP SQUARE HEAD SCREW 8X16 QH3 ST. STEEL	2
3	301.013	SELF-LOCK. NUT M10 UNI7473 GALVA	3
3	301.077	SELF-LOCK. NUT M10 UNI7473 ST. STEEL	3
4	302.005	KNOB DM.40 M8	2
5	300.003	HEX. HEAD SCREW 10X25 UNI5739 GALVA	1
5	300.089	HEX. HEAD SCREW 10X25 UNI5739 ST. STEEL	1
6	303.005	WASHER 10X40 UNI6593 GALVA	1
6	303.116	WASHER 10X40 UNI6593 ST. STEEL	1
7	303.013	WASHER 8X24 UNI6593 GALVA	2
7	303.051	WASHER 8X24 UNI6593 ST. STEEL	2
8	303.015	WASHER 10X20 UNI6592 GALVA	7
8	303.052	WASHER 10X20 UNI6592 ST. STEEL	7
9	620.095	RE PAINTED STEEL DOUBLE BENDING ATTCH.	1
9	620.295	RE STAINLESS STEEL DOUBLE BENDING ATTCH.	1
10	601.040	STRAIGHT ST. STEEL VANE 125 LF RE	1
11	601.041	STRAIGHT ST. STEEL VANE 125 RH RE	1

HOPPER EXTENSION RE 250 LT – 609.174

HOPPER EXTENSION RE 250 LT ST.S TEEL – 609.173



<i>Pos.</i>	<i>Code</i>	<i>Description</i>	<i>Qty</i>
1	609.523	SHORT EXTENSION PLATE RE 250LT	2
1	609.527	SHORT EXTENSION PLATE RE 250LT ST. STEEL	2
2	609.522	LONG EXTENSION PLATE RE 250LT	2
2	609.526	LONG EXTENSION PLATE RE 250LT ST. STEEL	2
3	606.308	FINISHING EXTENSION ANGLE RE 250 LT	4
4	300.107	ROUNDHEADED SCREW 8X16 QH3 ST. STEEL	26
5	303.051	WASHER 8X24 ST. STEEL	26
6	301.064	NUT M8 ST. STEEL	26

HOPPER EXTENSION RE-F 100 LT ST. STEEL –609.163


Pos.	Code	Description	Qty
1	609.548	LONG EXTENSION PLATE RE-F 100LT ST. STEEL	2
2	609.549	SHORT EXTENSION PLATE RE-F 100LT ST. STEEL	2
3	300.107	ROUNDHEADED SCREW 8X16 QH3 ST. STEEL	16
4	303.051	WASHER 8X24 ST. STEEL	16
5	301.064	NUT M8 ST. STEEL	16

NOTE

A series of horizontal dotted lines for writing notes, spanning the width of the page.

A series of horizontal dotted lines for writing, spanning the width of the page.



Via Laghi di Avigliana 117 - Busca 12022 - CN - Italy
Phone +39 0171 946654 - Fax +39 0171 946723
E-mail: imcosmo@cosmosrl.com - www.cosmosrl.com

