

# *Classic* SERIE S/L (SF-SB-SH-LF-LB-LH)

REV 2026



INSTRUCTIONS AND SPARE PARTS MANUAL

 **ovlac**  
Years

# CONGRATULATIONS!

As the country's largest producer of agricultural machinery for soil tillage, we are honoured that you have chosen **OVLAC** as your trusted choice.

After many years of experience in the field, we make sure that you will be proud of your purchase in the same way that we are proud of the product we have created under the strictest quality standards.

For the correct use and enjoyment of this equipment, we strongly recommend that the customer read the instructions contained in this manual and use it as a reference for any questions that may arise regarding the operation of your **OVLAC** equipment.

Sincerely yours: Jorge Calvo

Director of OVLAC



# CONSIDERATIONS

This instruction manual describes the Operating and Maintenance Instructions and Spare Parts for the indicated equipment.

This agricultural equipment is designed for tilling the soil, applied to a Tractor with lifting gear and universal threepoint linkage.

The proper functioning of the machine depends on its correct use. It is therefore advisable to read the instructions given in this manual carefully in order to avoid any inconvenience that could impair the proper functioning and durability of the machine.

It is also important to follow the instructions in the manual, as the Manufacturer declines all responsibility for negligence and non-observance of these instructions.

The Manufacturer is at your disposal to guarantee immediate and accurate technical assistance and to provide all that may be necessary for a better functioning and performance of the machine.

The Manufacturer reserves the right to modify the Machine without the need to urgently update this publication.



# INDEX

- 1.- Safety Rules
- 2.- Description and technical data
- 3.- Security System
- 4.- Adaptation to the tractor
  - 4.1.- Link up to the tractor
  - 4.2.- Skimmers
  - 4.3.- Aligment
  - 4.4.- Working depth
  - 4.5.- Other adjustments
- 5.- Turn Up
  - 5.1.- Turning and memory
  - 5.2.- Varilabor
  - 5.3.- Width of the 1st furrow
  - 5.4.- Perpendicularity at work
6. - Wastes burial
- 7.- Transport and parking
- 8.- Maintenance
- 9.- Optional equipment
- 10.- Spare Parts



# 1.- Security Rules

**Read carefully all the instructions for use of the cultivator.**

**The manufacturer declines all responsibility for any inconvenience caused by NOT observing the Safety and Accident Prevention Regulations described below.**

- 1.- Pay attention to the danger and warning symbols shown in this manual and indicated on the equipment.
- 2.- Repairs and adjustments to the equipment must always be carried out with the engine stopped and the tractor locked.
- 3.- It is strictly forbidden to transport people or animals on the equipment.
- 4.- It is strictly forbidden to entrust the driving of the tractor, with the equipment hooked up, to people without a driving license, inexperienced, or who are not in good condition.
- 5.- Scrupulously observe all the accident prevention measures recommended and described in this manual.
- 6.- The application of additional equipment to the tractor implies a different weight distribution on the tractor axles.
- 7.- Before putting the tractor and the equipment into operation, check that all the safety elements for transport and use are in perfect condition.
- 8.- The symbols with warnings displayed on the equipment give the appropriate suggestions for the use of the same.
- 9.- To circulate on the road, it is necessary to observe the rules of circulation according to the country where it's operated.
- 10.- Respect the maximum weight foreseen on the tractor, the total mobile weight, the transport regulations and the road code.
- 11.- Before starting to work, familiarise yourself with the control devices.
- 12.- Pay the utmost attention to hitching and unhitching the equipment.
- 13.- Never leave the driving position when the tractor is in motion.
- 14.- Remember that road adherence, steering and braking capacity may vary significantly due to the presence of suspended equipment.
- 15.- It is strictly forbidden to remain in the area of action of the equipment.
- 16.- Before leaving the tractor, lower the suspended equipment, stop the engine, apply the parking brake, and remove the ignition key from the dashboard.
- 17.- The category of the hitch pins of the equipment must correspond to that of the linkage of the lift.
- 18.- Pay maximum attention when working in the area of the arms of the tractor, it is a very dangerous area.
- 19.- It is strictly forbidden to stand between the tractor and the equipment to manoeuvre the external lifting control.
- 20.- During road transport with the equipment suspended, put the control lever of the hydraulic lift in the locking position.
- 21.- The spare parts must correspond to the requirements defined by the Manufacturer. Always use original spare parts.
- 22.- The safety instruction decals must always be clearly visible. Clean and replace them if they are not legible (You can ask your dealer for them).
- 23.- The instruction manual must be kept for the whole life of the equipment.



## WARNING

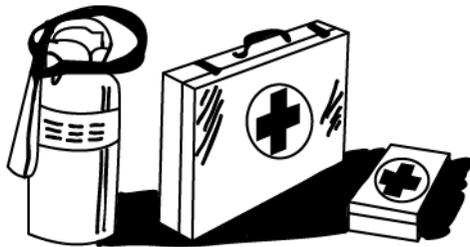
Before starting to work, read the instructions in the manual.

## DANGER

Do not handle the equipment when it is suspended, danger of crushing. Maintain the safety distance.

## DANGER

Lifting the equipment can cause injuries due to reaching. Maintain the safety distance.



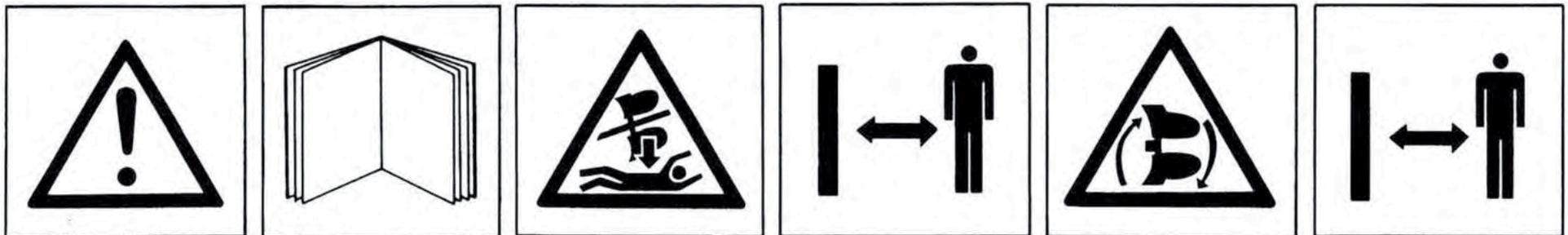
## To be ready in case of an emergency

Keep a first aid kit and fire extinguisher on hand. Write down the telephone numbers of doctors, ambulance and fire brigade and keep them near the phone.

## Use adequate clothes

Avoid loose clothing and use appropriate safety equipment depending on the type of work. Safe operation of the machine requires the full attention of the operator.

**Don't use headphones** for listening to the radio while working with the machine.



# SPECIFIC INSTRUCTIONS FOR WELDING REPAIRS

When repair by welding is authorised by the manufacturer, the following points shall be taken into account generally. In particular cases, appropriate welding instructions shall be provided for each application.

**1** Repair welding should be carried out by qualified welders and in accordance with good technical and safety code practice.

**2** Before welding repairs, remove paint, rust, dirt or any other substances harmful to the weld.

**3** To avoid damage to mechanical or hydraulic components such as bearings, shafts, hydraulic actuators, hydraulic systems, etc., care should be taken to place the earth connection in an area of good contact, free of paint and rust.

On machines with hydraulic cylinders, we must ensure that the welding current does not flow through such elements. For this purpose, the earth connection shall be placed on the same part of the machine to be repaired.

**4** Our machines are made of high elastic limit (HEL) steels, which means that special attention must be paid to welding processes and filler materials. In general, basic coated electrodes E7016 or E7018 will be used. For the MAG (semi-automatic) welding process, ER70S6 wire and Ar+20CO<sub>2</sub> will be used as shielding gas. In both cases, follow the recommendations for drying times and temperatures recommended by the manufacturers of the filler material.

**5** When the parts to be welded are thicker than 15 mm, or the ambient temperature is lower than 15 C, preheating by flame between 75-100 C is recommended.

**6** It is strictly forbidden to cool welding seams with water, air or any other substance.

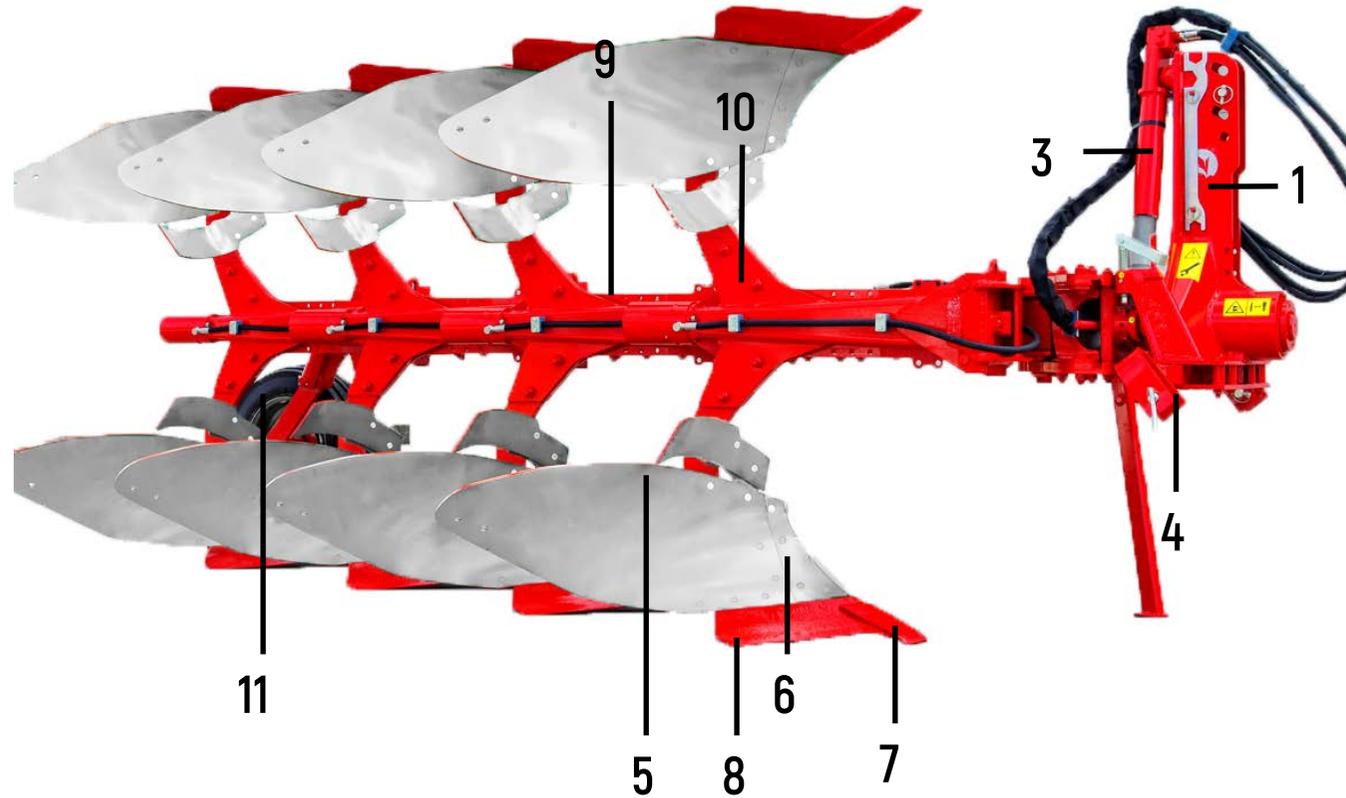
In case of questions during repair, please contact the manufacturer via the usual means of communication.



## 2.- Description and Technical Data

1. HEADSTOCK
2. IDENTIFICATION PLATE\*
3. TURNING CYLINDER
4. OSCILLATING SHAFT
5. SKIMMER
6. SKIMMER SUPPLEMENT
7. SHARE POINT
8. SHARE
9. FRAME
10. LEG
11. CONTROL WHEEL

**Note:** the number of the plough's manufacture, engraved on the nameplate, must match the number engraved on the headstock's support.



\*2. IDENTIFICATION PLATE\*



6



# Technical Data

L MODELS	100	120	130	150
Interbody distance	85/95 cm (standard or choose) and 105 cm (optional) > 105 cm unavailable in some models (see more below)			
Underbeam clearance	72 cm or 78 cm (standard or choose) 90 in option for LF 120/130 and 150			
Working width	14, 16, 18 and 20"			
Frame	110x110x8 mm	100x150x8 mm	100x150x8 mm	150x150x8 mm

S MODELS	100	120	130	150
Interbody distance	85/95 cm (standard or choose) and 105 cm (optional) > 105 cm unavailable in some models (see more below)			
Underbeam clearance	72 cm or 78 cm (standard or choose) 90 in option for SF 120/130 and 150			
Working width	12" - 20"			
Frame	110x110x8 mm	100x150x8 mm	100x150x8 mm	150x150x8 mm



# 3.- Security Systems

**Shearbolt** security systems warantee protections through its shearing bolts. When the tip faces an obstacle, the bolt breaks, allowing the leg to turn on its hosting. In order to continue the labor you need to place the leg again and find a new replacement for the bolt **B**. (Fig. 1).

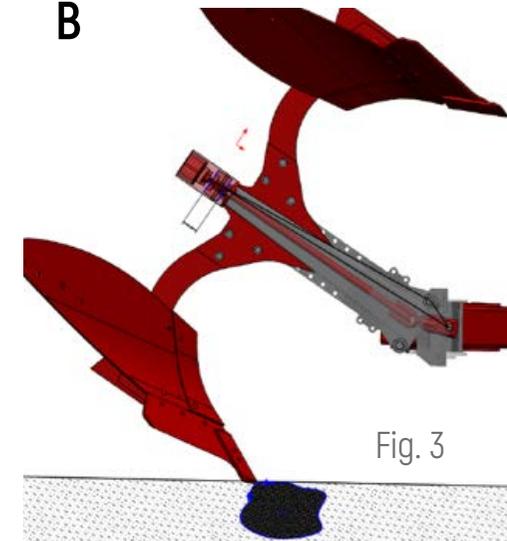
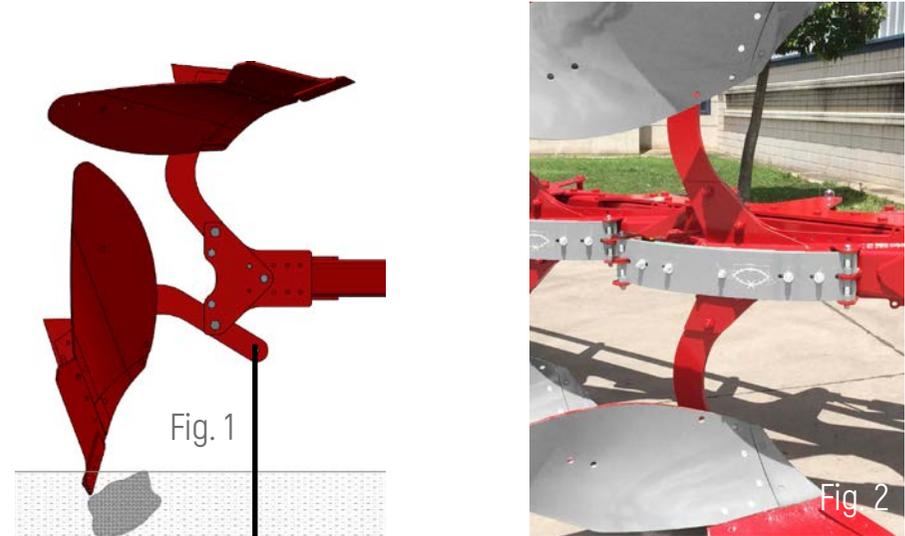
**WARNING:** Use only original shearbolts. Other kind of bolts will not offer the same resistance, which can result in malfunctioning and therefore cancellation of the warranty.

**NOTE:** size and quality of the shearbolts is clculated for them to break at a determined pressure. Is essential to replace the bolts with same-qualityand-size bolts, otherwise you'll lose the warranty.

Hydraulic **"Non-Stop"** security systems act automatically. When the shear faces an obstacle, the system gives up, allowing the leg to elevate and save it, retrieving afterwards to its original position without stopping the tractor. (Fig. 2 and 3).

By doing so, all the impacts made by uneven terrain are absorbed by the security system, which protects all the elements of the plough, and of course, the tractor.

For the same reason, **"Non-Stop"** security systems decrease the traction effort by avoiding the tractor to face all the obstacles by itself.



In the **HYDRAULIC** models, in order to adapt the plough to the conditions of the terrain, you may regulate the trigger pressure by injecting (hard terrains) or retiring (soft terrains) oil from the circuit and modifying the pressure in the whole system. For regulating the working pressure you must:

- Open the key **A** (Fig.4) in order to read the pressure in the pressure gauge.
- Open the key **C** (Fig.4/5).
- Acting over the corresponding tractor command to increase or decrease the pressure.
- Once the pressure is adjusted, close the keys **A** and **C**.

**NOTE:** The **OVLAC** Non-Stop security systems are regulated in-factory at an optimum pressure for medium-hardness terrains. Always work with a pressure in between 120 and 135 bars. Maximum working pressure is 140 bars.

In the leafspring Models **SB** and **LB**: At very hard soils conditions, the leafspring may incorporate an extra leaf in order to ease the penetration of the soil. Any case, the leafspring string that determinate the leafspring, must always have a length of 700 +/- 2 mm. (Fig.6).

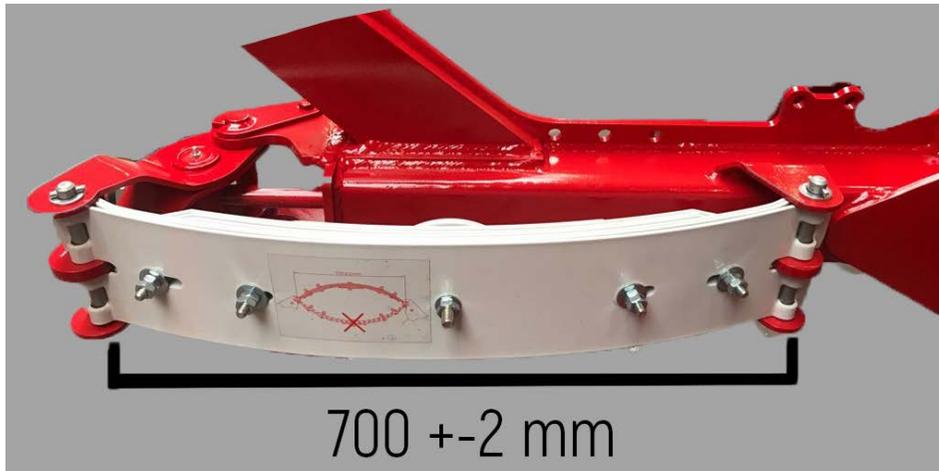


Fig. 6



Fig. 4

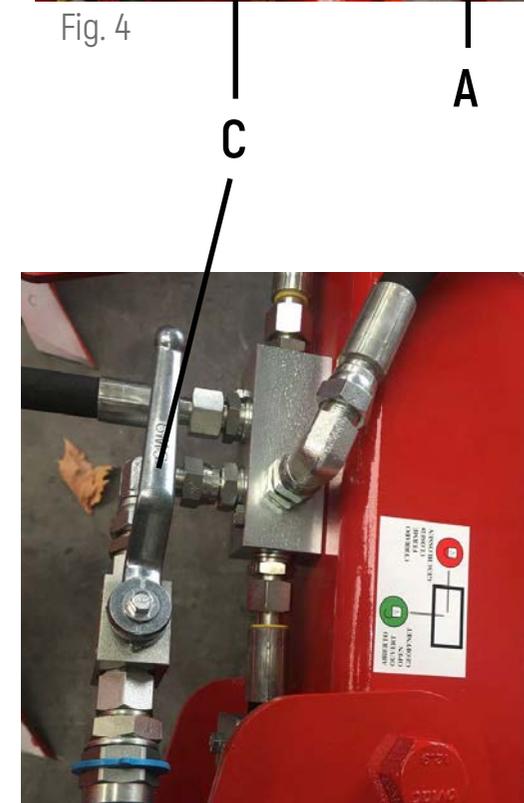


Fig. 5



# 4.- Turn Up

## 4.1 - Link to the tractor

**OVLAC** ploughs are designed to be adapted to the three universal linking points of any tractor.

The oscillating shaft, or linking rod, is supplied in 2 versions (distance between centers):

Category II	890 mm.
Category III	1025 mm.

The linking rod must have the right length in order to make the pulling forces converge at the center of the front axis, as displayed in the Fig. 7.

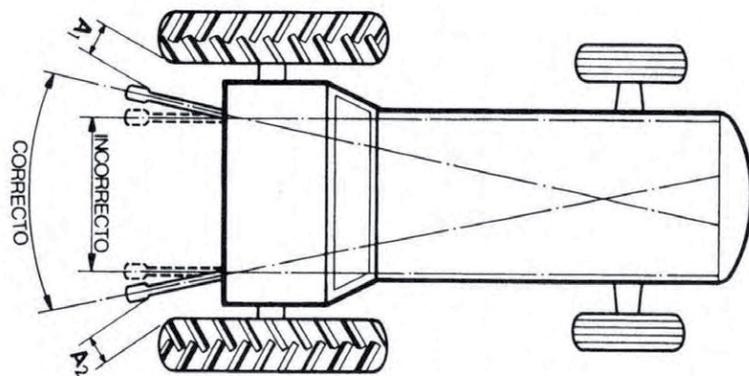


Fig. 7

## 4.2 - Working bodies

Eliminate the layer of paint that protects the bodies before working, in order to avoid sticky soil in your bodies.

Check that the distances  $A1=A2$  and  $B1=B2$  as shown on the figure (Fig. 7). If said distances doesn't match, adjust them through the pulling **C** and the Bolts **D** and **D'**. (Fig. 8 y 9).

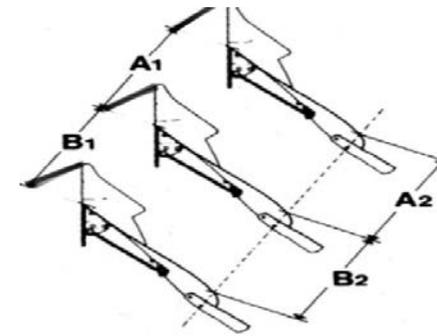


Fig. 8

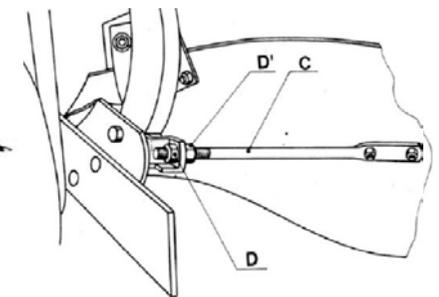


Fig. 9



## 4.3 - Alignment

The plough must work aligned with the tractor, if not, the plough will tend to abandon the working direction. Must check that the distance  $A1=A2$  (Fig. 7, pág. 10). In the **OVLAC** ploughs, the drifting effect is auto-corrected thanks to the oscillating shaft.

At ploughs with no oscillating shaft you must act over the tensor **T** of drifting correction (Fig. 11).

The third point arm must be coupled in a way that, when on working position, the end that links over the plough remains slightly higher than the end that links to the tractor (Fig. 10).

The third point (EXCEPT TRACTORS WHOSE CONTROL IS ON THE THIRD POINT) must always link the drill **E** (Fig. 10) trying that its length doesn't stop its free movement throughout the whole labor.

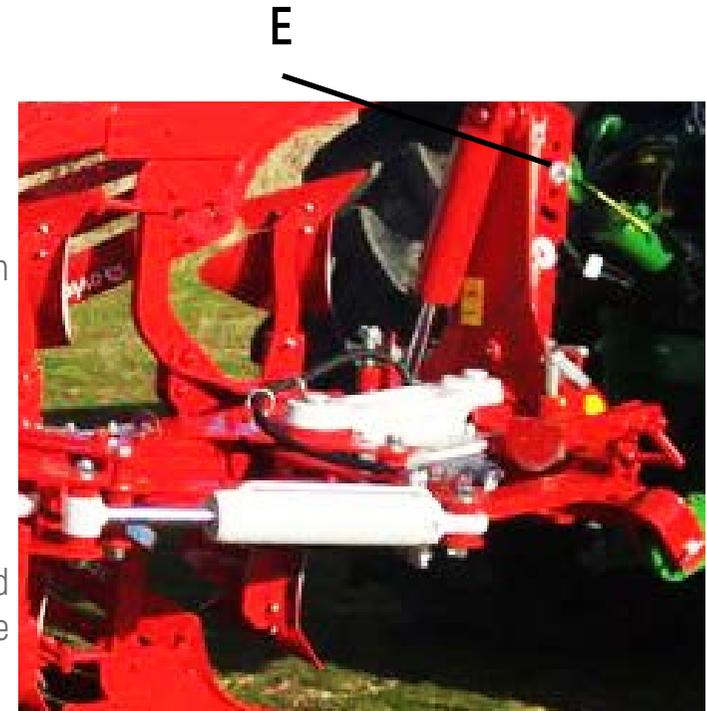


Fig. 10



Fig. 11



## 4.4 - Working depth

The working depth is regulated through the lifting pull of the tractor. Nonetheless, in order to obtain an even working width in order to save power, all ploughs must be equipped with a depth-limiting wheel (Fig. 12) which height is regulated through the threaded tops **A**, as the Fig. 12 indicates.

There is a relation between depth and working width that is convenient to respect in order to obtain the best results. The board provides an excellent reference between working width and depth, which applied correctly it will turn out as great results. We recommend to maintain the right pressures in order to extend the life of the wheel, as noticed on the last board.



Fig. 12



Fig. 13

**10 = 1,2 cm**

Width	Inches	12"	14"	16"	18"	20"
	Cm	30	35	40	45	50
Maximum depth		24	28	32	36	40
Minimum depth		15	17	20	22	25
Recommended depth		21	25	28	32	35

6.00*9" - 10PR V50	5 Bar.
200/60*14,5" - 10PR	5 Bar.
250/65*14,5" - 12PR	4,75 Bar.
320/60-12 132A8 421TT	4 Bar.
400/60*15,5"TL-14PR FLOTATION	3,6 Bar.
500/45*22,5"-16PR	3,6 Bar.
08" 18x7 - 16PR TT	8 Bar.



## 4.5 - Other adjustments

The length of the third point must be adjusted in a way that the frame is parallel to the ground, otherwise the first bodies would work at uneven depth compared to the last bodies, resulting in uneven labor (Fig. 14).

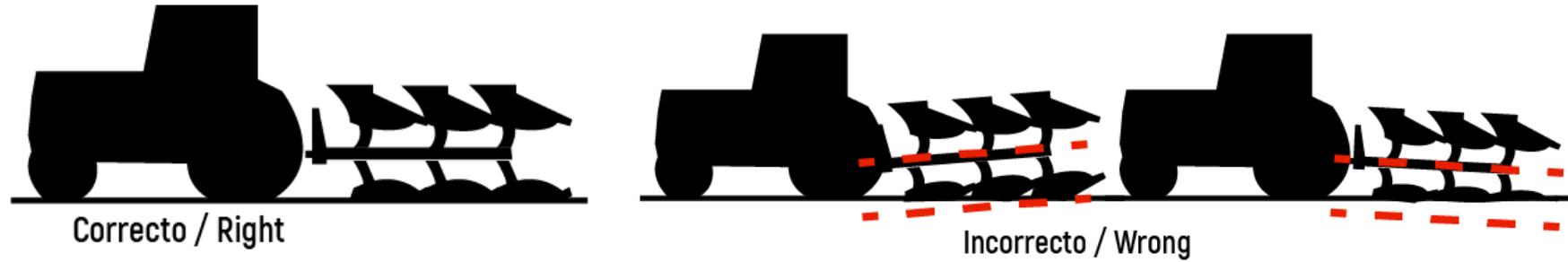


Fig. 14



# 5.- Turn up

## 5.1 - Turning and memory

The turning point of the plough is done from the tractor's cabin, acting in a programmed way over the corresponding hydraulic controller up to the end of the turn - This is made by turning always to the same side.

Ploughs with 5 or more bodies standardly incorporate an hydraulic memory that aligns the plough automatically, turn it y and give it back to the working position prior to the turning maneuver when acting continuously over the corresponding hydraulic controller.

### Important:

- The hydraulic controller must be acting non stop until the end of the complete alignment sequence, turn, and back to the working position; therefore, if we program the turning sequence with memory, we need to have in account the necessary time to finish the whole sequence may vary depending on the working width, temperature and ammount of oil, load on the bodies, terrain's inclination...
- In ploughs with memory, you have to pay attention and don't act over the opening's nor working width's cylinders at the same time as the turning controller, ecause this can block the memory and not let the sequence be done correctly. If by any accidental or inadequate driving of the controllers the memory blocks and start s the turning without aligning the plough and the opening cylinder doesn't move, you have to act over the turning controller at the same time as over the opening in the other way until the plough is aligned. Afterwards we adjust the opening individually with its controller and then we can make the right turning sequence acting normally over the turning controller.



Fig. 15

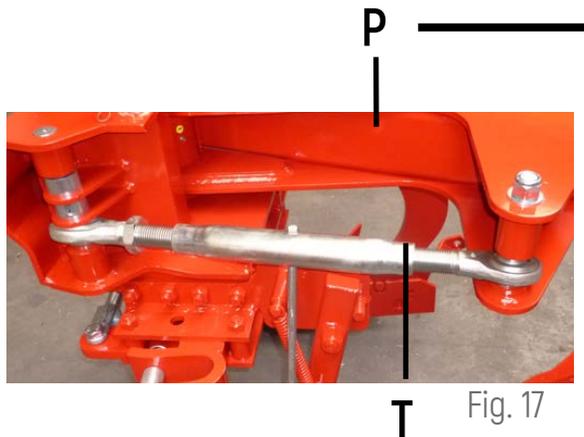


## 5.2 - Varilabor

In the **OVLAC** Series **L** models the working width can be adjusted up to the needs of the farmer, in 4 different positions divided by steps of 2" (5 cm). The positions 1 and 4 answer to the minimum and maximum positions, respectively (Fig. 16). After changing the working width of the plough, you must regulate the landslide extension of the plough through the memory cylinder **C** by adjusting the working measure as the sticker **X** indicates (Fig. 17) Make sure that the allignement of the bodies coincide with the working direction. The tensor **T** will be adjusted until it coincides with the indicated measure at the sticker **P**.

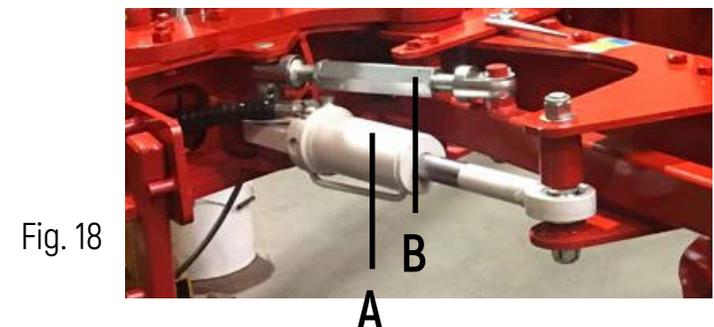
The series **S** models incorporate the exclusive **OVLAC** control system of the first body and variable cut -Varilabor-, which allows to adopt any working width between 10" (30 cm) and 22" (55 cm), with a single operation directed over the cylinder **C**, even moving, from the tractor's cabin. If the plough does not have an oscillating shaft available you must adjust the drifting through the tensor (Fig. 17)

If the plough doesn't have oscillating shaft we have to adjust the drift through the tensor **B** (Fig. 18) The indicator points out the selected working width. The possibility of modifying the furrow width allows to adapt the plough to the land's conditions and to the tractor's power.



OPENING REGULATION (LONG. TENSOR)

Plough Series // Position	1	2	3	4
LIGHT SERIES LV-LVB-LVH-FF	664	645	626	608
SERIES 120 / 150 LF-LB-LH	675	652	630	608



## 5.3 - 1st Furrow width

The first furrow width is adjusted acting over the tensor **T** that displays the headstock (Fig. 19) in a way that verifies the observations described in the Fig. 21.

The plough counts with regulation possibilities conceived for a width between wheels of 110 to 150 cm. Being optimal 130-140 cm.

As a starter point, after regulating the perpendicularity of the ANCHOR according to the terrain acting over the turning tops **A** (Fig. 21) , we'll settle a working width of 40-45 cm and then we'll place the point of the first body around 40 cm of the inside of the wheel as indicated on the right image in fig. 22 (Pag. 17).

After, adjustments are meant to be made according to the wheel's width, speed, and terrain. We don't recommend wheels over 710mm in order to work in-furrow.

Optionally, the width adjustment of the first body can be done from the tractor's cabin with the hydraulic cylinder **H** (Fig. 20). If we stretch the cylinder we increase the width of the first body and viceversa.



Fig. 19



Fig. 20



Fig. 21



## 5.4 - Perpendicularity of the plough working

For the same reason, you must check (while laboring) that the anchors adopt a perpendicular position to the ground (Fig. 22). For that, we need the tines of the tractor to be at the same height AND ACT OVER THE TURNING TOPS **A** FOUND AT BOTH SIDES OF THE HEADSTOCK (Fig. 23).

**IMPORTANT:** Must try not to drive over curves while laboring, specially with long ploughs, since the pulling strength may cause damage on both the tractor and plough structure.

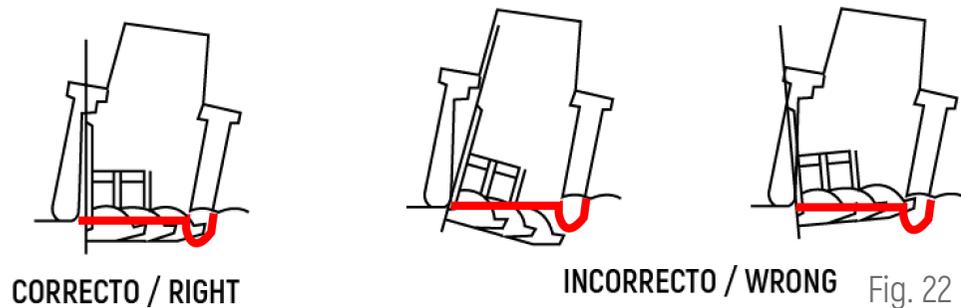


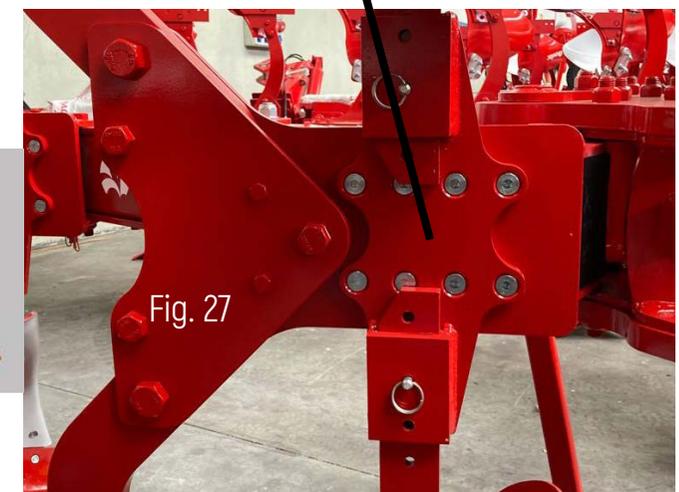
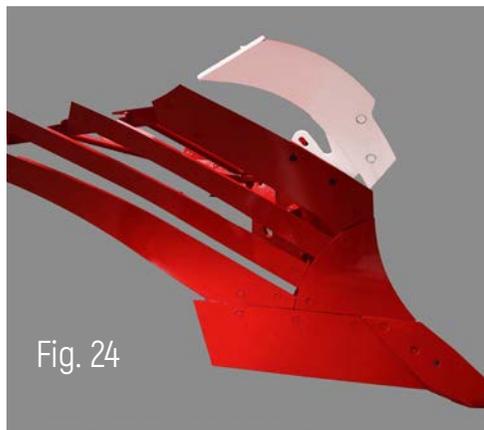
Fig. 23



## 6.- Wastes burial

For an optimal burial of harvesting leftovers and weeds we can equip the plough with trashboards (Fig. 24) or the bodies (Fig. 25). The trashboards can be regulated according to the working depth, scrolling it over the holder's slider. The skimmers must adapt to the working depth acting over the bolts that supports them. As a reference, the skimmer' share must penetrate 10-12 cm when working.

At the same time, to adapt the skimmer to the different textures of the land and working speeds, we can put set them in 2 positions (rear or advanced) by turning 180 degrees the holder **S**.



## 7.- Transport and parking

In order to ease the transport, the plough must be retracted to its minimum width, acting over the cut control system. Ploughs with great lengths (5 and 6 bodies) can be optionally given with polyvalent wheels of control/transport.

To transport the plough over the control/transport wheel, place the hole **C** in the position **B** of the bolt **C** (Fig. 29). Pull the puller **A** of the blocking headstock (Fig. 28) so when the plough turns over it remains blocked in mid-turning position and block the oscillating shaft with bolts **D** (Fig. 28). Place the plough's wheel and unplug the tine on the third point of the headstock.

In the transport position, a speed of 25 km/h must never be exceeded. If necessary, the tyre pressure must be checked in accordance with the manufacturer's instructions on the sidewall of the tyre.

The support pawn (Fig. 30), assures an static position of the plough on the parking.

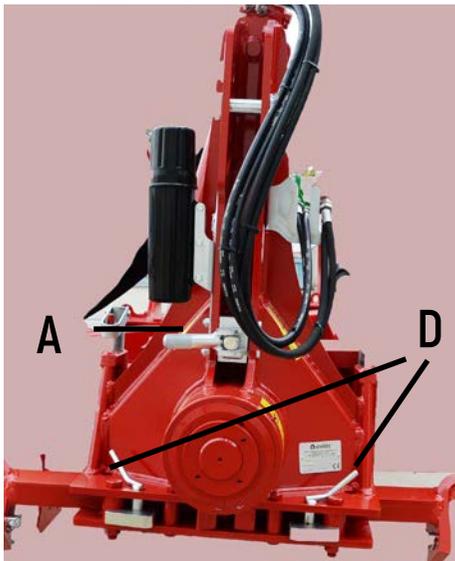


Fig. 28



Fig. 29



Fig. 30



# 8.- Maintenance

Must check how tight the bolts are after the first 2 hours of labor, specially the ones on the bodies and shares. Afterwards, check every 100 hours of labor. When finishing the campaign, wash the plough and grease the bodies to avoid rust.

**Lubing:** must grease regularly the turning points based on the ambiantal conditions, both dust and humidity, to assure that no waste of the machine happens. In the reversible ploughs its recommended to grease, if the greasers allow it, once per each hand (clockwise and counter-wise), assuring that the grease, affected by gravity, it extends for the whole turn and not just from the greasing point to below.

## Safe maintenance

Get familiar with the maintenance procededures before doing any labor. The working area must be clean and dry. Not doing any greasing labor, repair or adjustment while the engine is running. Keep the hands, feet, and clothes always far from the moving components. Place all the hydraulic controls on neutral-gear in order to relieve pressure. Lower all gear to the ground.

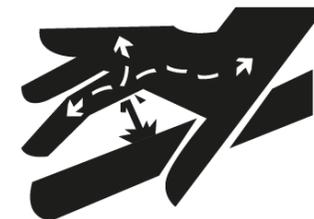
All the components must be in good shape and correctly installed. Repair damage immediatly. Change any wasted or broken piece. Keep all the components of the machine clean off of grease, oil and accumulated dirt.

By dealing with trailed equipment, disconnecting the group of cables from the tractor before doing any welding on the machine.

## Watch out for the high pressure leaks

Leaking fluids from the system might leak strong enough to tear flesh, causing severe injuries. Therefore, is indispensable to leave the system pressure-less before loosing or disconnecting any pipe and assure that all the connections and connectors are well-tighten before applying pressure to the system. In order to locate an hydraulic oil leak use a piece of cardboard placed in between the connections. Don't get near high-pressure leakings. Even if after all this measures an accident happens, go immediately to see a doctor, who should remove the fluid surgically in a few hours in order to avoid gangrene. Unexperienced doctors with injuries of such nature may go to a specialized medical center.

Maintenance of hydraulic cylinders. **IMPORTANT:** keep the plugs clean. Abrasive particles, such as sand, metal sharps, may damage the cylinders, causing inner leaks. Once unplugged off the tractor, place the protection bolts and make sure they're not touching the ground.



# 9.- Optional Gear

L and S OVLAC ploughs can be equipped with:

1. Trashboard (Fig. 31)
2. Landslide extension (Fig. 32)
3. Transport wheel (Fig. 33)
4. Discs (Fig. 34)
5. Advanced wheel (Fig. 35)
6. 1st body hydraulic width (Fig. 36)
7. Advanced Transport wheel (Fig.37)
8. Skimmers (Fig. 38)

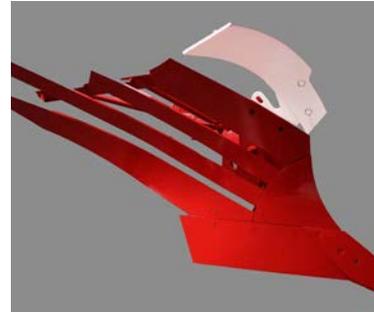


Fig. 31



Fig. 36



Fig. 33



Fig. 35



Fig. 37



Fig. 32



Fig. 34



Fig. 38



# 10.- Spare parts

Spare parts orders must always be placed through dealers and will include the next indications:

- Type, model and plough's number of manufacturing. This data is indicated on the identification plate of the plough.
- Reference of the piece. Indicated on the spareparts catalogue.
- Name of the piece and quantity required.
- Method of shipping. Transport expenses run of the purchaser.
- **NOTE:** The terms left or right, indicated on the name, are meant to be understood always facing the plough from its rear view. When it comes to supposed-to-break gear, rights are considered || those that are part of the body that drifts to the righth and viceversa.
- **Note on warranty:** must be clearly specified if the spare parts order are ordered under warranty time. The manufacturer will be the one to decide if the order stands to warranty or not when replacing the pieces. Plus, warranty loses all its value if:
  - Repairs Unauthorized by the manufacturer are made, unoriginal spare parts and bolts are inadequate.
  - User goes through the power limit stated on the technical data sheet, or abnormal maneuvers are made.



# Index

HEADSTOCK 120.....	25	BODIES V-97 V-34 V-90 V-74 .....	77
HEADSTOCK 130.....	27	BODIES V-40 .....	79
HEADSTOCK 150.....	29	SLATTED BODY "OV" .....	81
ROCKER WITH CUSHIONING.....	31	TRASHBOARDS .....	83
CONICAL HEADSTOCK LOCK .....	33	SHEARBOLT SKIMMERS .....	85
HYDRAULIC TURNOVER SYSTEM 120 .....	35	NON-STOP SKIMMERS.....	87
HYDRAULIC TURNOVER SYSTEM 130-150-180 .....	37	LANDSLIDE EXTENSION .....	89
SUPPORT FRAME 120-130 .....	39	MOULDBOARD TAIL SUPPLEMENT.....	91
SUPPORT FRAME 150.....	41	DISCS H.....	93
SUPPORT FRAME 800 SUPPLEMENT.....	43	DISCS NON-STOP H.....	95
HYDRAULIC SHIFT .....	45	DISCS F .....	97
FRAME "S" .....	47	DISCS NON-STOP F .....	99
FRAME "L" .....	51	REAR CONTROL WHEEL .....	101
MODULE .....	57	REAR WHEEL TRANSPORT & CONTROL.....	103
OPENING SYSTEM .....	59	HYDRAULIC SYSTEM REAR HYDRAULIC WHEEL.....	105
MEMORY 120-130-150 .....	61	REAR CONTROL HYDRAULIC WHEEL.....	107
BODY "SF-LF" .....	63	REAR TRANSPORT CONTROL HYDRAULIC WHEEL.....	109
ARM "SB-LB" .....	65		
ARM "XL-B" .....	67		
ARM "SH-LH" .....	69		
ARM "XL-H" .....	71		
HYDROPNEUMATIC SYSTEM .....	73		
CHARGING HOSE.....	75		





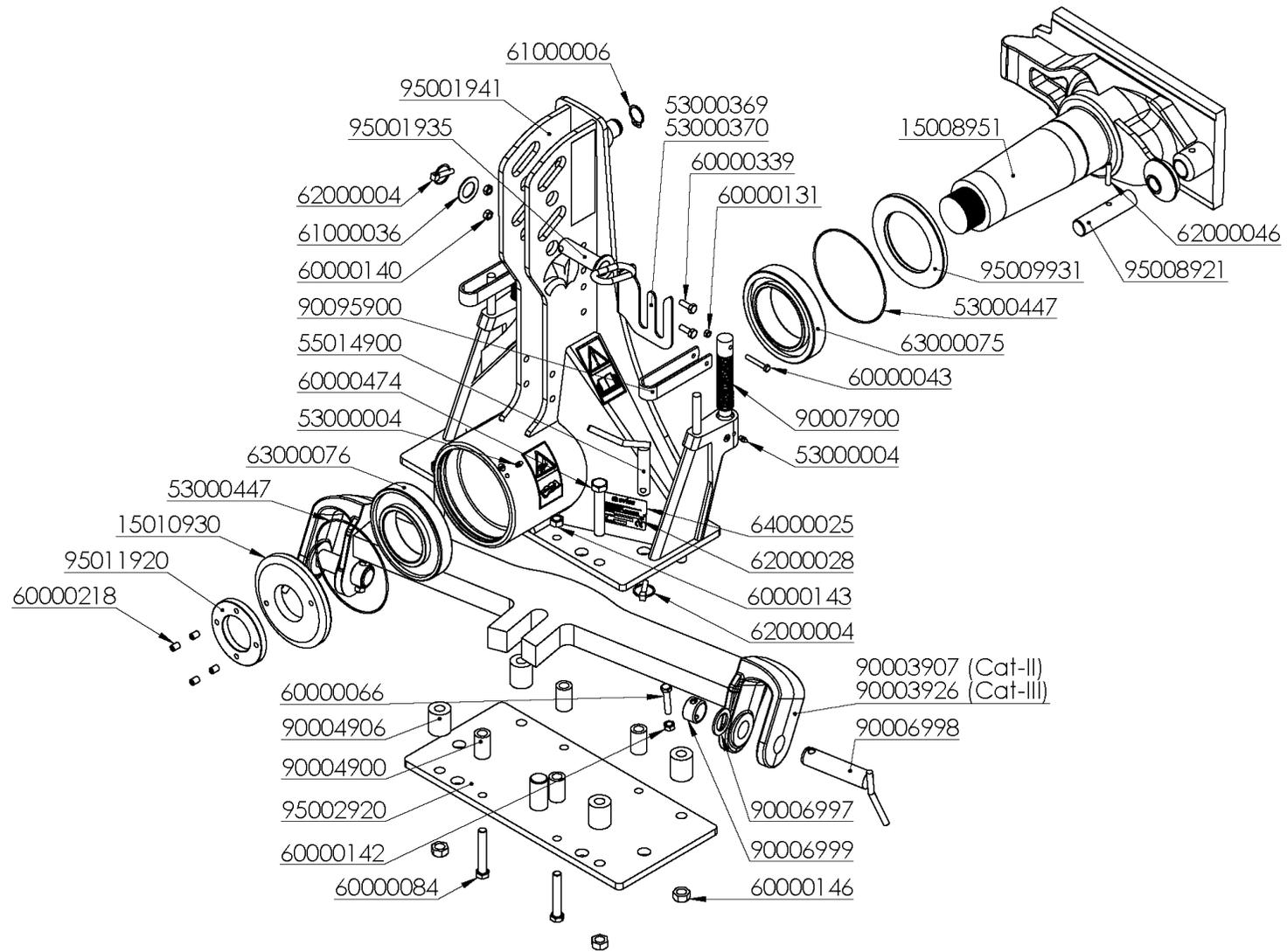


# HEADSTOCK 120

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15001098	LLAVE 32-38	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
15008990	EJE CABEZAL 120 (D/06)	62000004	PASADOR ANILLA 10 ZINC.
15010901	TUERCA EJE CABEZAL 120 (D/06)	62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.
37006906	BULON BALANCIN D=30*115mm.MR-6	62000037	PASADOR ANILLA 4,5 ZINC.
37006960	PLACA PORTABALANC.MR-6	63000073	RODAM.ANTER.30218 F (C-120/D-03)
53000004	ENGRASADOR AC° DIN-71412 8*125	63000074	RODAM.POST.32021 XF (C-120/D-03)
53000370	SOPORTE LATIG.TORRETA 1 HUECO ZINC.	90003901	BALANC.50mm.CAT-II
53000450	JUNTA TORICA 160-3	90004900	SEP.B.P.32/20* 52,5mm.
60000043	TORN.EXAG.DIN-931 8* 55 8.8 ZINC.	90006900	BULON D=28*130mm.BALANC.CAT.II ZINC.
60000044	TORN.EXAG.DIN-931 8* 70 8.8 ZINC.	90006900	BULON D=28*130mm.BALANC.CAT.II ZINC.
60000084	TORN.EXAG.DIN-931 16*100 8.8	90007900	HUSILLO TOPE 185mm.
60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.	90075902	BULON D=25*110mm.3er.PTO.CAT.II ZINC.
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	90095900	MANILLA TOPE ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	95001901	CABEZAL 120 (D/O4)
60000218	TORN.ALLEN DIN-913 12* 16 12.9	95008901	BULON D=29,6*123mm.INF.VOLTEO 110(D/07)/120
60000339	TORN.EXAG.DIN-933 10* 30 8.8 ZINC.	95009901	ARAND.POST.120 (D/03)
61000006	ANILLO ELASTICO DIN-471 35	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150



# HEADSTOCK 130

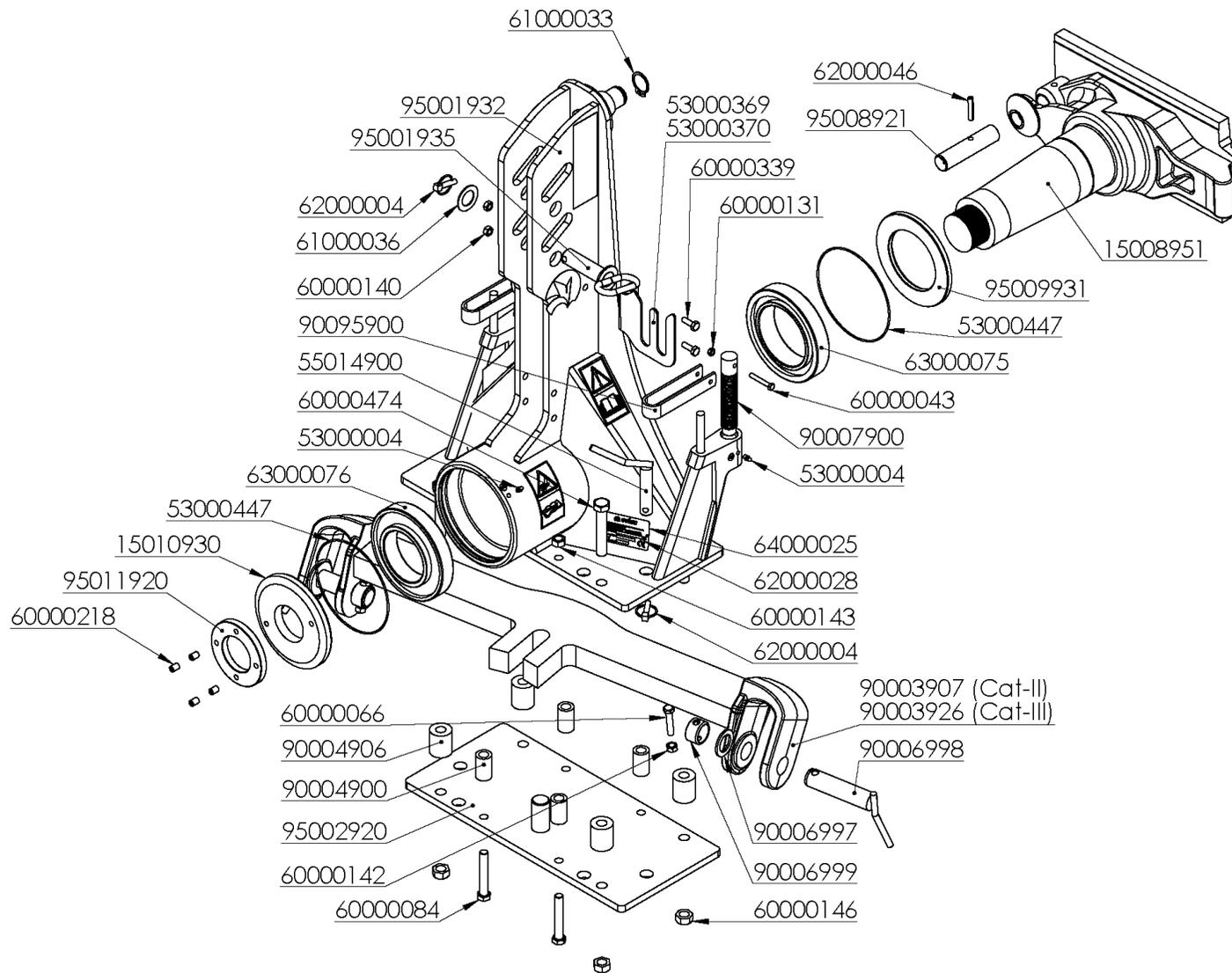


# HEADSTOCK 130

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15008951	EJE CABEZAL 150 (T/CONICO)	62000028	REMACHE ALUMINIO 3,2* 10mm.
15010930	TUERCA EJE CABEZAL 150 (D/06)	62000046	PASADOR ELAST.DIN-1481 10* 60
53000004	ENGRASADOR AC° DIN-71412 8*125	63000075	RODAM.POST.32026 F (C-150)
53000369	SOPORTE LATIG.TORRETA 2 HUECOS ZINC.	63000076	RODAM.ANTER.30222 F (C-150)
53000370	SOPORTE LATIG.TORRETA 1 HUECO ZINC.	64000025	PLACA ALUMINIO 64*97
53000447	JUNTA TORICA 200-3 NBR	90003907	BALANC.50mm.PENTAS.CAT-II/III (D/25)
55014900	BULON D=25*110mm.BLOQUEO/BRAZO RODILLO	90003926	BALANC.50mm.PENTAS.CAT.III (D/25)
60000043	TORN.EXAG.DIN-931 8* 55 8.8 ZINC.	90004900	SEP.B.P.32/20* 52,5mm.
60000066	TORN.EXAG.DIN-931 12* 60 8.8 ZINC.	90004906	CASQ.D= 45/20,5*52mm.SEP.BALANC.PENTAS.
60000084	TORN.EXAG.DIN-931 16*100 8.8	90006997	ARAND. 38 CEMENTADA BULON BALANC.CAT-III
60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.	90006998	BULON D=36*150mm.BALANC.CAT.III ZINC.
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	90006999	CASQ.D= 50/38*28mm.TOPE BULON BALANC.CAT-III
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	90007900	HUSILLO TOPE 185mm.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	90095900	MANILLA TOPE ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE	95001935	BULON D=31,2*115mm.3er.PTO.PENT.CAT.III (D/02)
60000218	TORN.ALLEN DIN-913 12* 16 12.9	95001941	CABEZAL 150-L
60000339	TORN.EXAG.DIN-933 10* 30 8.8 ZINC.	95002920	PLACA PORTABALANC.50mm.PENTAS.(D/02)
60000474	TORN.EXAG.DIN-931 20*110 12.9	95008921	BULON D=34,6*147mm.INF.VOLTEO PENT.(D/02)
61000006	ANILLO ELASTICO DIN-471 35	95009931	ARAND.POST.150
61000036	ARAND.ESTANDAR-A M-32 ZINC.	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
62000004	PASADOR ANILLA 10 ZINC.		



# HEADSTOCK 150

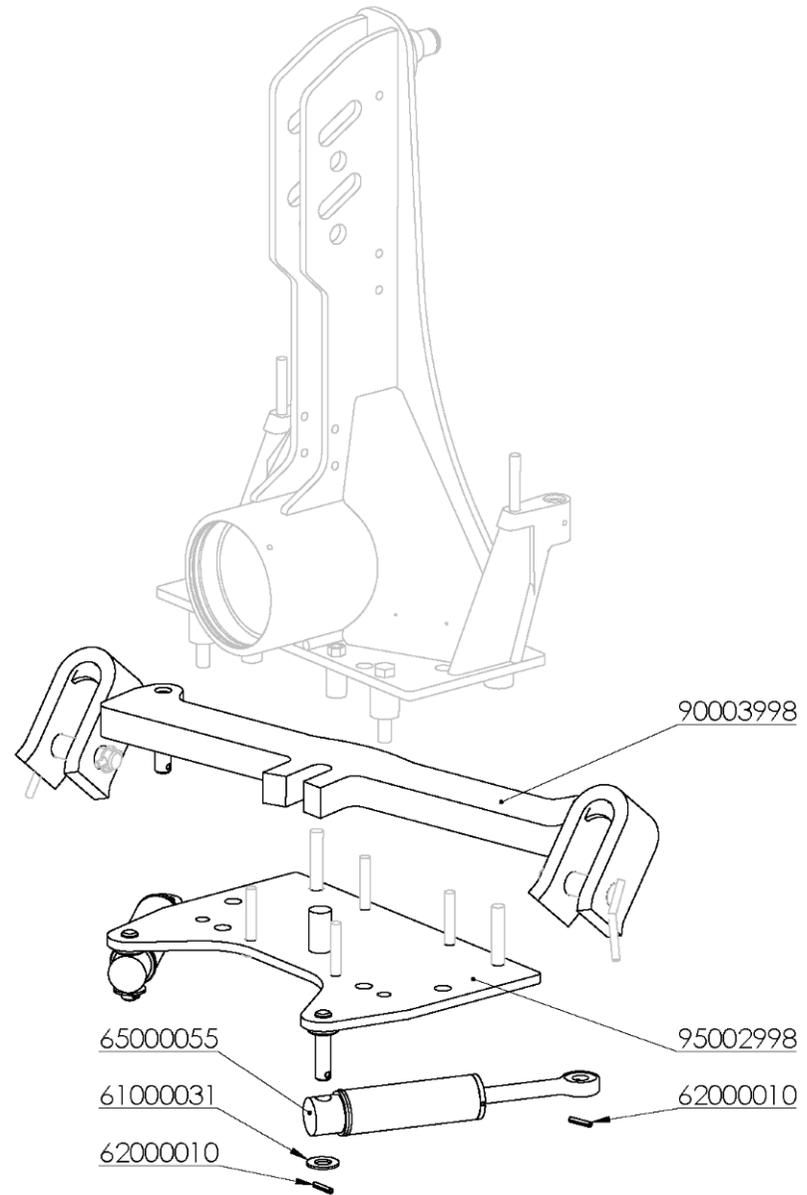


# HEADSTOCK 150

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15008951	EJE CABEZAL 150 (T/CONICO)	62000028	REMACHE ALUMINIO 3,2* 10mm.
15010930	TUERCA EJE CABEZAL 150 (D/06)	62000046	PASADOR ELAST.DIN-1481 10* 60
53000004	ENGRASADOR AC° DIN-71412 8*125	63000075	RODAM.POST.32026 F (C-150)
53000369	SOPORTE LATIG.TORRETA 2 HUECOS ZINC.	63000076	RODAM.ANTER.30222 F (C-150)
53000370	SOPORTE LATIG.TORRETA 1 HUECO ZINC.	64000025	PLACA ALUMINIO 64*97
53000447	JUNTA TORICA 200-3 NBR	90003907	BALANC.50mm.PENTAS.CAT-II/III (D/25)
55014900	BULON D=25*110mm.BLOQUEO/BRAZO RODILLO	90003926	BALANC.50mm.PENTAS.CAT.III (D/25)
60000043	TORN.EXAG.DIN-931 8* 55 8.8 ZINC.	90004900	SEP.B.P.32/20* 52,5mm.
60000066	TORN.EXAG.DIN-931 12* 60 8.8 ZINC.	90004906	CASQ.D= 45/20,5*52mm.SEP.BALANC.PENTAS.
60000084	TORN.EXAG.DIN-931 16*100 8.8	90006997	ARAND. 38 CEMENTADA BULON BALANC.CAT-III
60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.	90006998	BULON D=36*150mm.BALANC.CAT.III ZINC.
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	90006999	CASQ.D= 50/38*28mm.TOPE BULON BALANC.CAT-III
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	90007900	HUSILLO TOPE 185mm.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	90095900	MANILLA TOPE ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE	95001932	CABEZAL 150 (D/25)
60000218	TORN.ALLEN DIN-913 12* 16 12.9	95001935	BULON D=31,2*115mm.3er.PTO.PENT.CAT.III (D/02)
60000339	TORN.EXAG.DIN-933 10* 30 8.8 ZINC.	95002920	PLACA PORTABALANC.50mm.PENTAS.(D/02)
60000474	TORN.EXAG.DIN-931 20*110 12.9	95008921	BULON D=34,6*147mm.INF.VOLTEO PENT.(D/02)
61000033	ANILLO ELASTICO DIN-471 40	95009931	ARAND.POST.150
61000036	ARAND.ESTANDAR-A M-32 ZINC.	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
62000004	PASADOR ANILLA 10 ZINC.		



# ROCKER WITH CUSHIONING

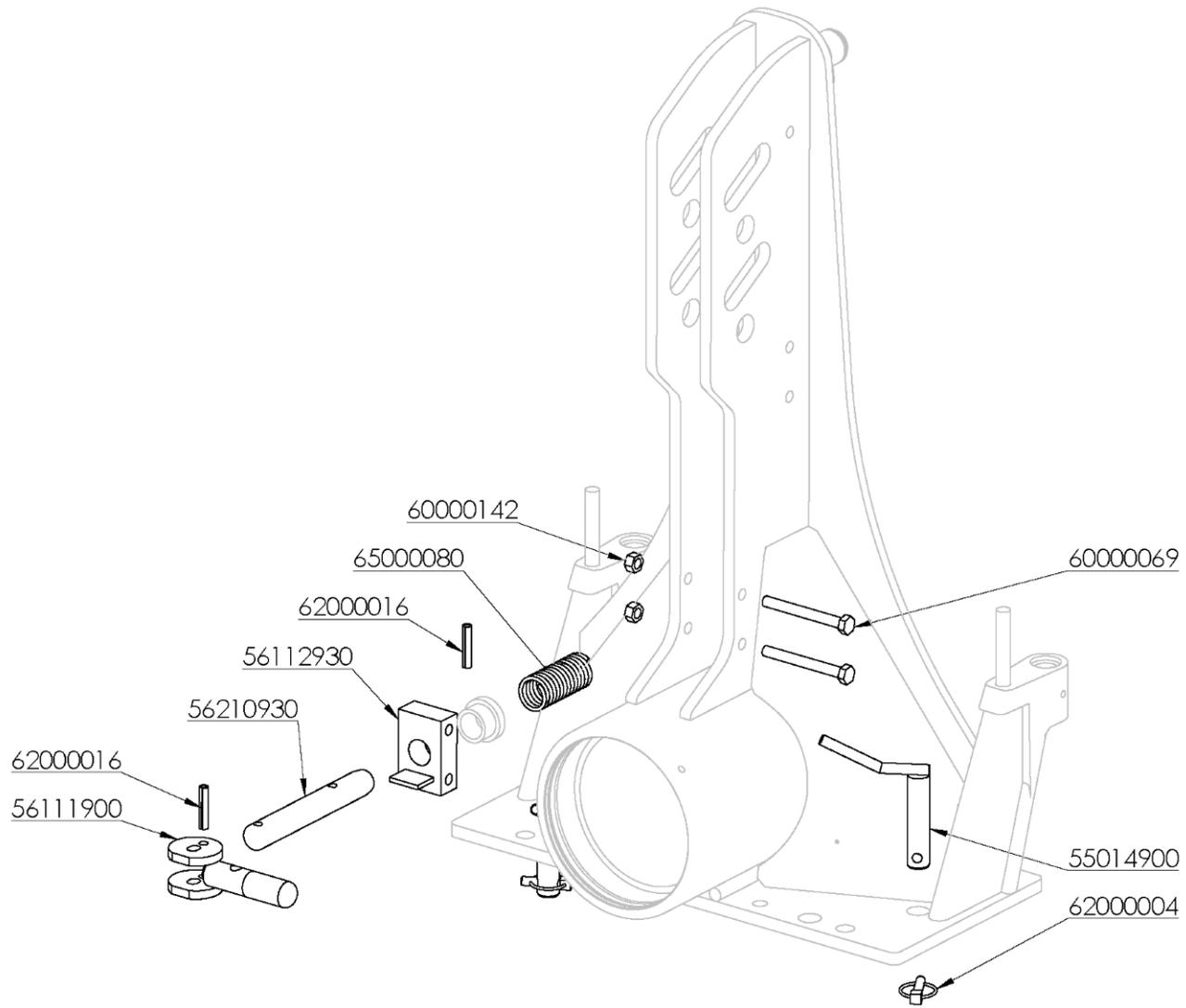


## ROCKER WITH CUSHIONING

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)	90003998	BALANC.50mm.PENTAS.CAT.III AMORTIGUACION
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.	95002998	PLACA PORTABALANC.50mm.AMORTIGUACION
65000055	AMORTIGUADOR C/ROT. 25/60/142		



# CONICAL HEADSTOCK LOCK

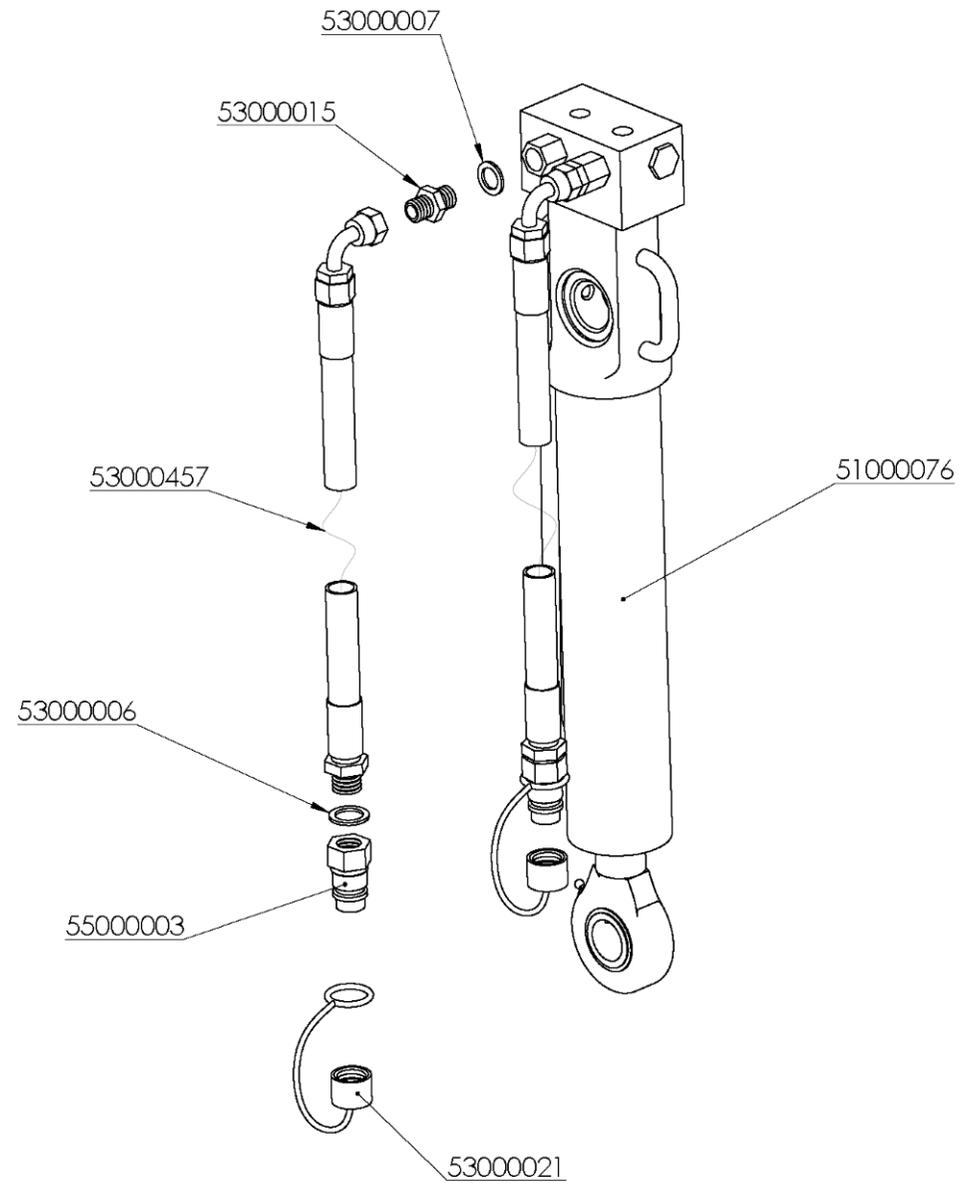


## CONICAL HEADSTOCK LOCK

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
55014900	BULON D=25*110mm.BLOQUEO/BRAZO RODILLO	60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
56111900	EXCENTRICA TRABADERO	62000004	PASADOR ANILLA 10 ZINC.
56112930	SOP.TRABADERO (C-120/150)	62000016	PASADOR ELAST.DIN-1481 10* 50 ZINC.
56210930	BULON D=29,8*216mm.TRABADERO (D/16)	65000080	MUELLE COMPR.CILIND.150*39*4 ZINC. (Paso 12)
60000069	TORN.EXAG.DIN-931 12*110 8.8 ZINC.		



# HYDRAULIC TURNOVER SYSTEM 120

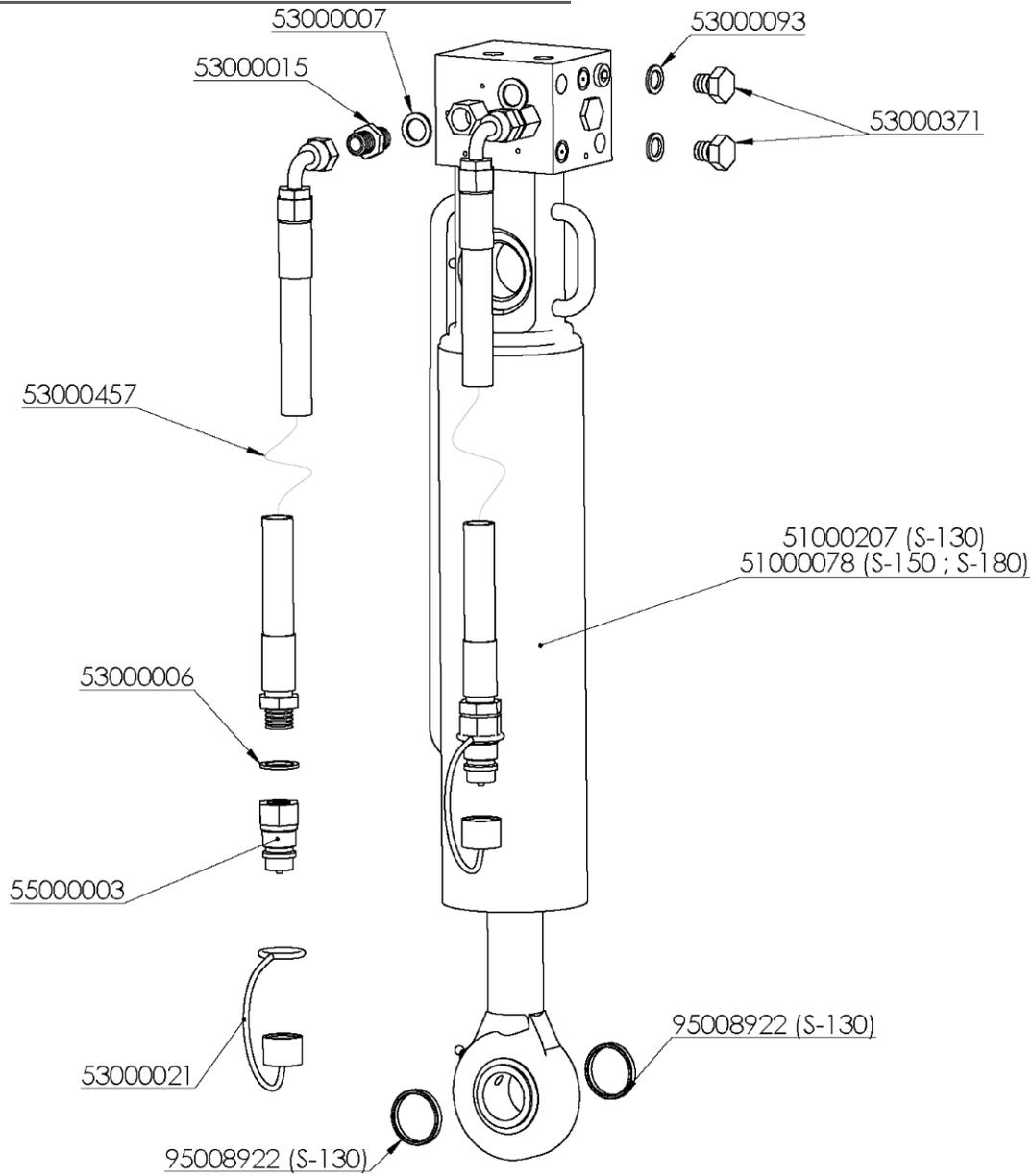


## HYDRAULIC TURNOVER SYSTEM 120

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
51000076	CILIND.VOLTEO 40/70/242 + VALV.SIMPLE	53000021	PROTECTOR E.R.MACHO 1/2" ROJO 5029-4PR
53000006	JUNTA METAL/GOMA 1/2" 11603	53000457	LATIG.R2-1/4*1500mm.MF-1/2/CTL-45°-3/8
53000007	JUNTA METAL/GOMA 3/8" 11602	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
53000015	UNION MACHO 3/8 4062		



# HYDRAULIC TURNOVER SYSTEM 130-150-180

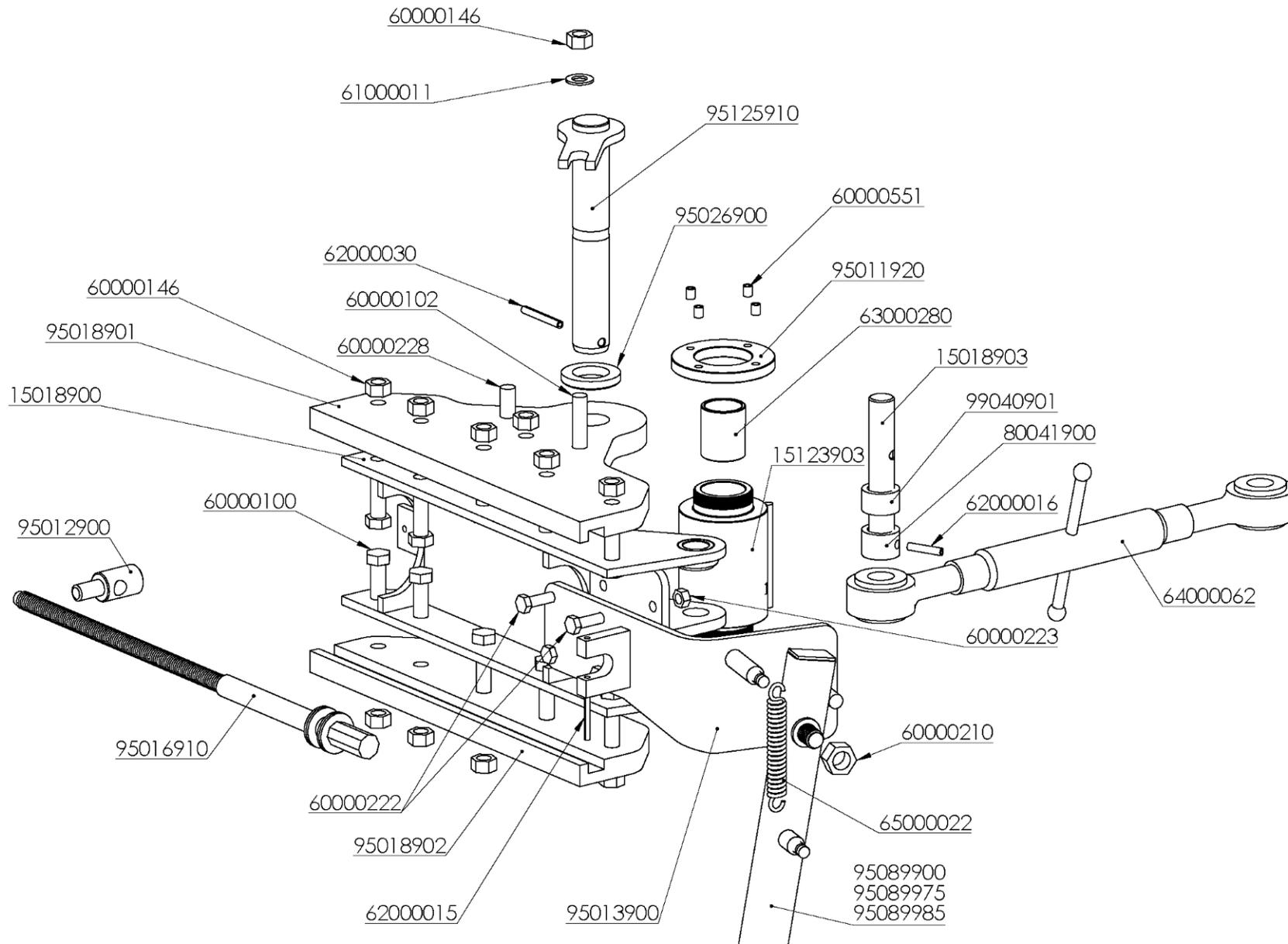


## HYDRAULIC TURNOVER SYSTEM 130-150-180

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
51000078	CILIND.VOLTEO 40/90/300 + VALV.SECUENCIAL	53000093	JUNTA METAL GOMA 1/4 11601
51000207	CILIND.VOLTEO 40/70/247 + VALV.SEC.	53000371	TAPON MACHO 1/4 S830-13
53000006	JUNTA METAL/GOMA 1/2" 11603	53000457	LATIG.R2-1/4*1500mm.MF-1/2/CTL-45°-3/8
53000007	JUNTA METAL/GOMA 3/8" 11602	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
53000015	UNION MACHO 3/8 4062	95008922	CASQ.D= 40/35*4,7mm.SEP.VOLTEO 150
53000021	PROTECTOR E.R.MACHO 1/2" ROJO 5029-4PR		



# SUPPORT FRAME 120-130

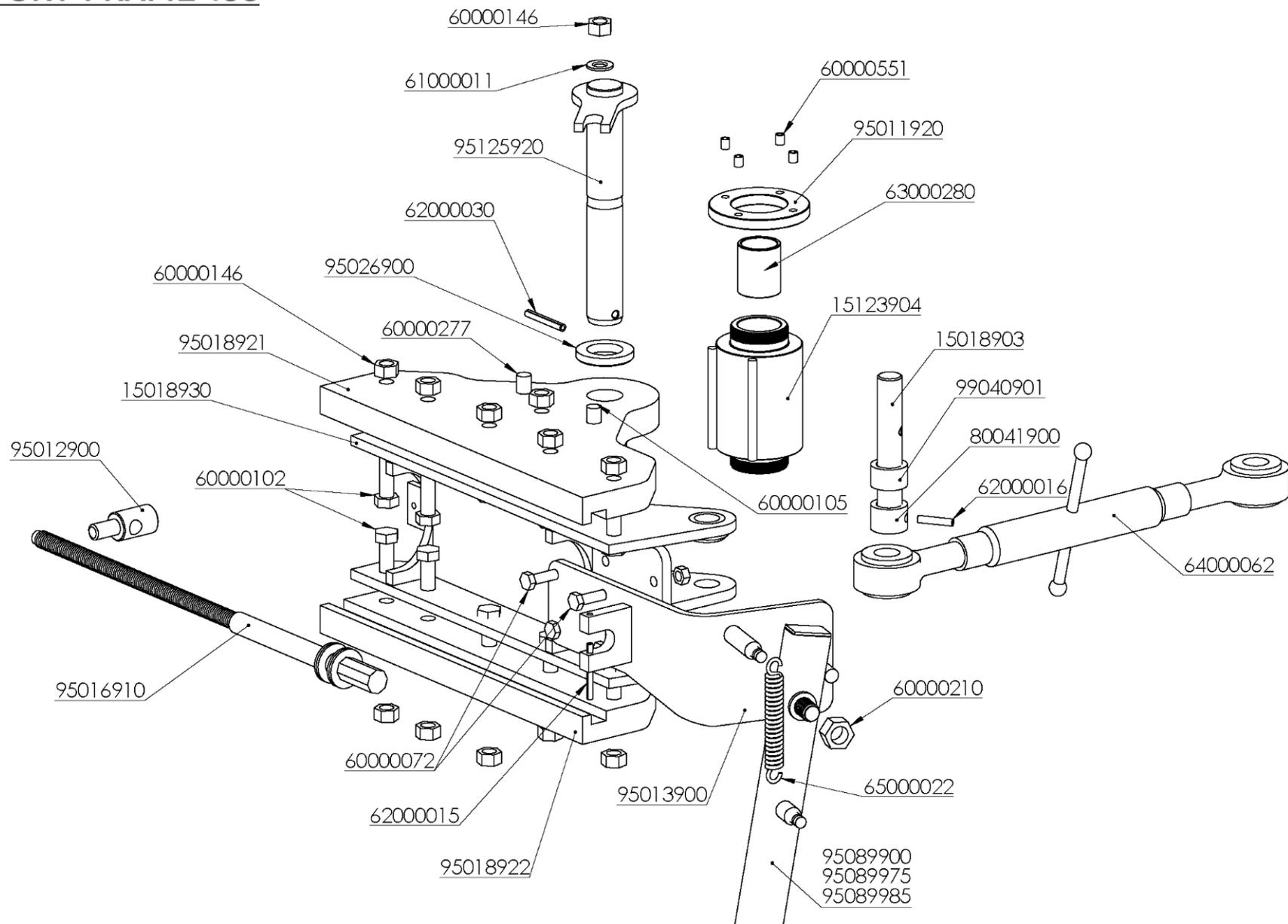


## SUPPORT FRAME 120-130

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15018900	SOP.BAST.INTERIOR SN-120	63000280	CASQ.FRICCION EG 55/50x50
15018903	BULON D=34,6*215mm.TENSOR ANTER.SN + DACROMET	64000062	TENSOR C/ROT.D=35 30386 ZINC.
15123903	CASQ.GIRO BAST.SN-120 C/VARILLAS (D/20)	65000022	MUELLE TRACCIÓN 225/175*26*5 EECC 195mm
53000004	ENGRASADOR AC° DIN-71412 8*125	80041900	SEP.B.P.51/36* 35mm.ZINC.C/TAL.
60000100	TORN.EXAG.DIN-931 20* 70 8.8	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
60000102	TORN.EXAG.DIN-931 20* 80 8.8	95012900	TUERCA AJUSTE BASTIDOR EJE 120/150
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	95013900	SOP.PEON (D/02)
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	95016910	HUSILLO AJUSTE BASTIDOR 500mm (D/14)
60000222	TORN.EXAG.DIN-931/933 14* 40 8.8	95018901	PLACA SUP.SOP.BASTIDOR 120
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.	95018902	PLACA INF.SOP.BASTIDOR 120
60000228	TORN.ALLEN DIN-7991 20* 70 12.9	95026900	ARAND.P/BULON GIRO BASTIDOR
60000551	TORN.ALLEN DIN-916 12* 12 14.9 MOLETEADO	95089900	PEON REVERSIBLE D/70cm.(D/02) 75cm.SL (D/07) MINI-N/BF
61000011	ARAND.DIN-125 20 ZINC.	95089975	PEON REVERSIBLE D/75cm. (D/02)
62000015	PASADOR ELAST.DIN-1481 8* 80 ZINC.	95089985	PEON REVERSIBLE D/85cm.(D/02)
62000016	PASADOR ELAST.DIN-1481 10* 50 ZINC.	95125910	BULON D=50*322mm.GIRO BAST.SN-120/130 (D/20)
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.	99040901	SEP.B.P.51/36* 30mm.ZINC.



# SUPPORT FRAME 150

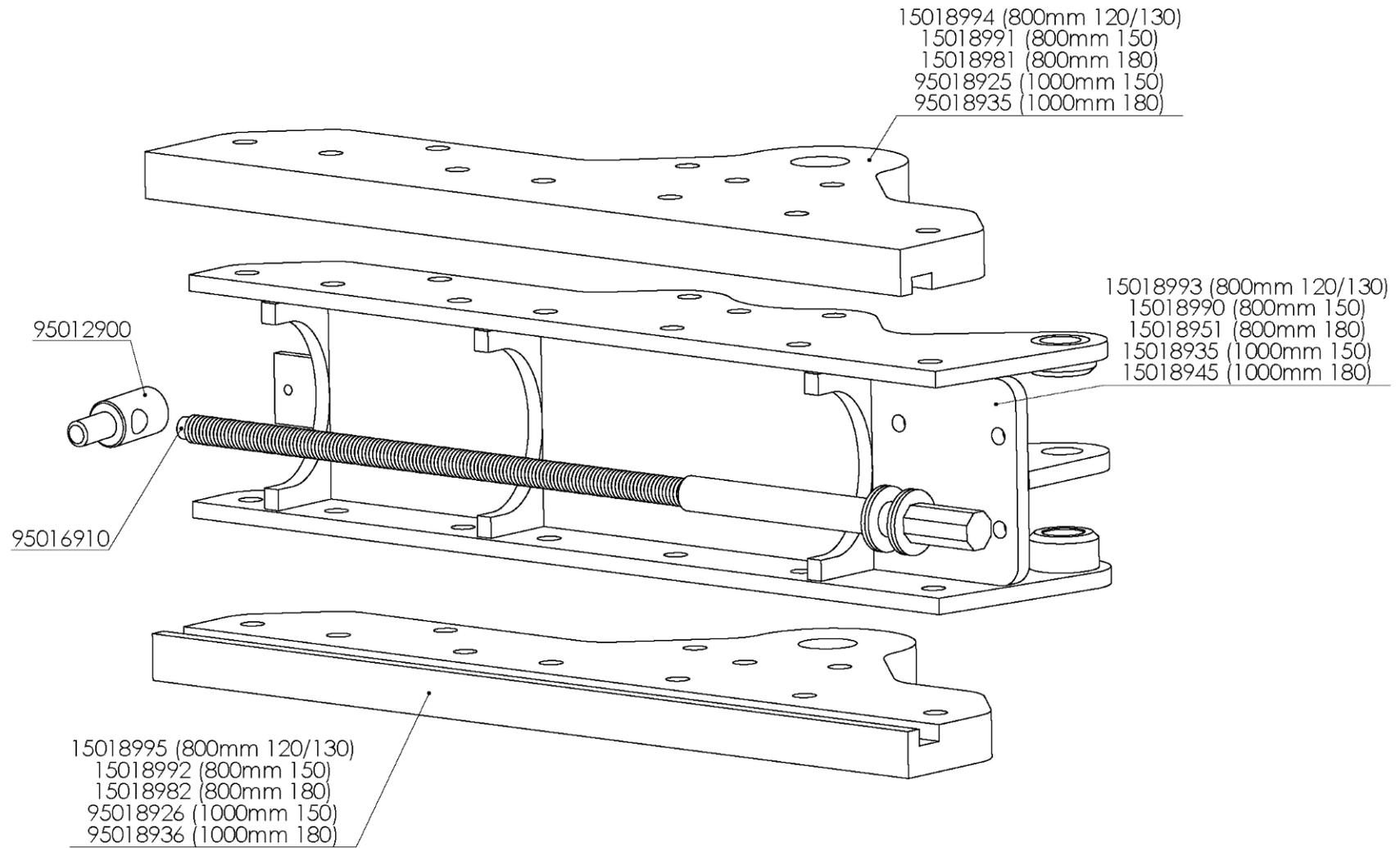


# SUPPORT FRAME 150

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15018903	BULON D=34,6*215mm.TENSOR ANTER.SN + DACROMET	64000062	TENSOR C/ROT.D=35 30386 ZINC.
15018930	SOP.BAST.INTERIOR SN-150	65000022	MUELLE TRACCIÓN 225/175*26*5 EECC 195mm
15123904	CASQ.GIRO BAST.SN-150 C/VARILLAS (D/20)	80041900	SEP.B.P.51/36* 35mm.ZINC.C/TAL.
53000004	ENGRASADOR AC° DIN-71412 8*125	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
60000072	TORN.EXAG.DIN-931 14* 50 8.8	95012900	TUERCA AJUSTE BASTIDOR EJE 120/150
60000102	TORN.EXAG.DIN-931 20* 80 8.8	95013900	SOP.PEON (D/02)
60000105	TORN.EXAG.DIN-931 20* 90 8.8	95016910	HUSILLO AJUSTE BASTIDOR 500mm (D/14)
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	95018921	PLACA SUP.SOP.BASTIDOR 140/150
60000210	TUER.AUTO.DIN-985 1" SAE 8.8	95018922	PLACA INF.SOP.BASTIDOR 140/150
60000277	TORN.ALLEN DIN-7991 20* 80 12.9	95026900	ARAND.P/BULON GIRO BASTIDOR
60000551	TORN.ALLEN DIN-916 12* 12 14.9 MOLETEADO	95089900	PEON REVERSIBLE D/70cm.(D/02) 75cm.SL (D/07) MINI-N/BF
61000011	ARAND.DIN-125 20 ZINC.	95089975	PEON REVERSIBLE D/75cm. (D/02)
62000015	PASADOR ELAST.DIN-1481 8* 80 ZINC.	95089985	PEON REVERSIBLE D/85cm.(D/02)
62000016	PASADOR ELAST.DIN-1481 10* 50 ZINC.	95125920	BULON D=50*342mm.GIRO BAST.SN-150 (D/20)
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.	99040901	SEP.B.P.51/36* 30mm.ZINC.
63000280	CASQ.FRICCION EG 55/50x50		



# SUPPORT FRAME 800 SUPPLEMENT

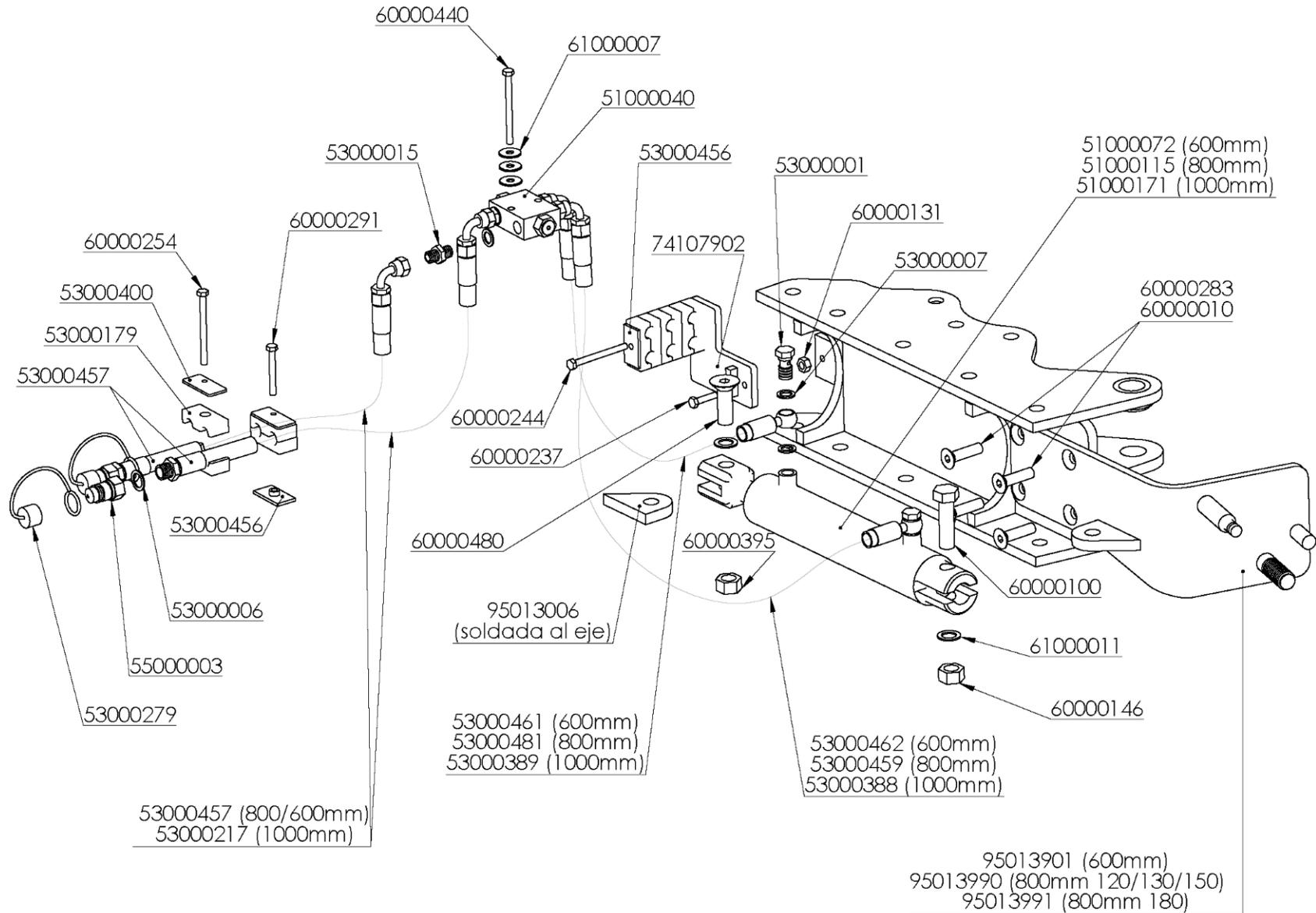


## SUPPORT FRAME 800 SUPPLEMENT

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15018935	SOP.BAST.INTERIOR SN-150-1000-D	15018994	PLACA SUP.SOP.BASTIDOR 120/800
15018945	SOP.BAST.INTERIOR SN-6-1000-D	15018995	PLACA INF.SOP.BASTIDOR 120/800
15018951	SOP.BAST.INTERIOR SN-6-800 (D/12)	95012900	TUERCA AJUSTE BASTIDOR EJE 120/150
15018981	PLACA SUP.SOP.BASTIDOR 180/800	95016910	HUSILLO AJUSTE BASTIDOR 500mm (D/14)
15018982	PLACA INF.SOP.BASTIDOR 180/800	95018925	PLACA SUP.SOP.BASTIDOR 150-1000-D
15018990	SOP.BAST.INTERIOR SN-150/800	95018926	PLACA INF.SOP.BASTIDOR 150-1000-D
15018991	PLACA SUP.SOP.BASTIDOR 150/800	95018935	PLACA SUP.SOP.BASTIDOR SN-6-1000-D
15018992	PLACA INF.SOP.BASTIDOR 150/800	95018936	PLACA INF.SOP.BASTIDOR SN-6-1000-D
15018993	SOP.BAST.INTERIOR SN-120/800		



# HYDRAULIC SHIFT

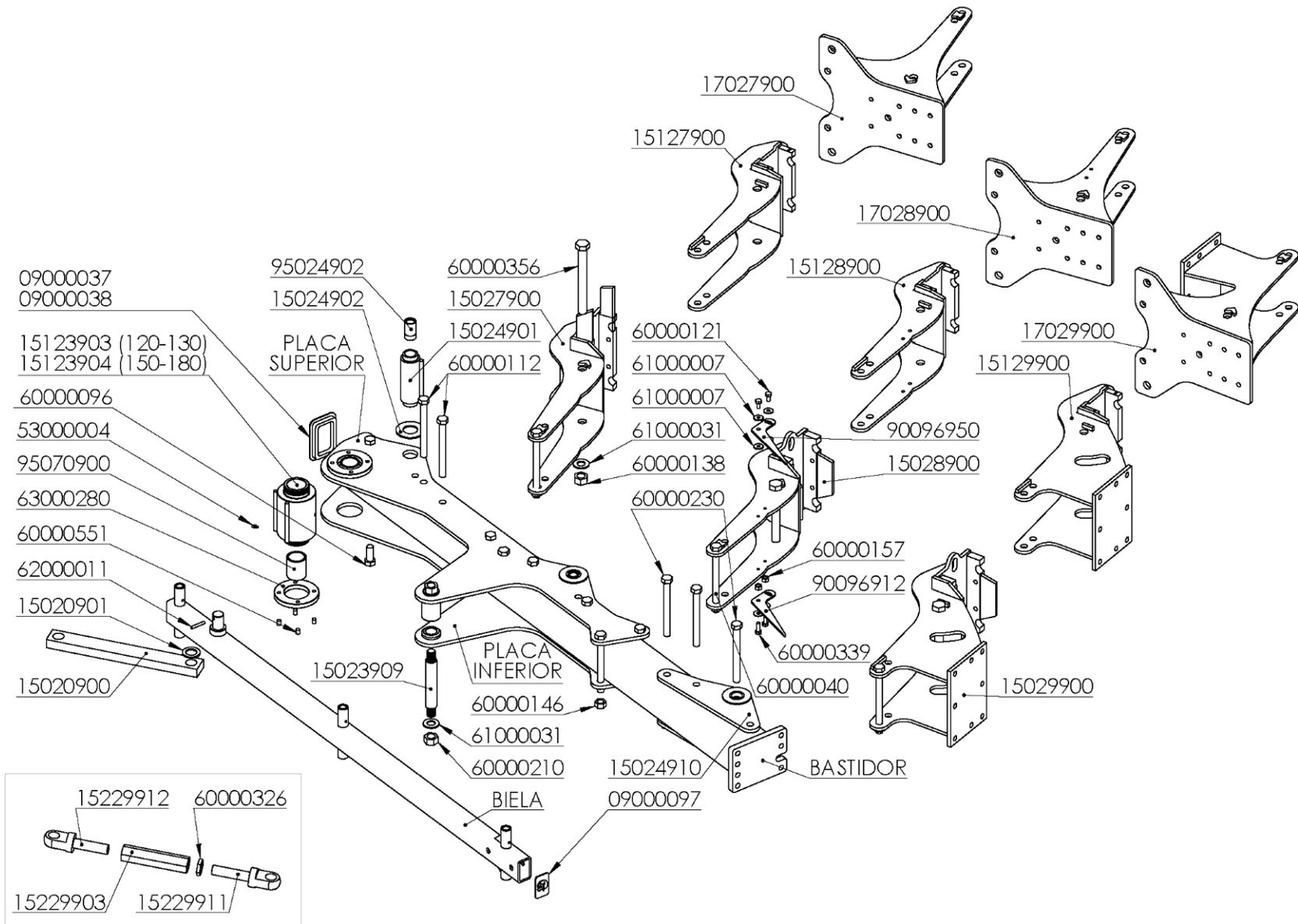


# HYDRAULIC SHIFT

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
51000040	VALV.BLOQUEO ZINC.3/8 VBPDE-3/8-A	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
51000072	CILIND.DESPL.C/HORQ.50/30/215	60000010	TORN.ALLEN DIN-7991 14* 40 10.9 ZINC.
51000115	CILIND.DESPL.C/HORQ.50/30/400	60000100	TORN.EXAG.DIN-931 20* 70 8.8
51000171	CILIND.DESPL.C/PATAS/VAST.ROSC. 50/30/600	60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.
53000001	TORNILLO SIMPLE 3/8 4022	60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
53000006	JUNTA METAL/GOMA 1/2" 11603	60000237	TORN.EXAG.DIN-933 8* 35 8.8 ZINC.
53000007	JUNTA METAL/GOMA 3/8" 11602	60000244	TORN.EXAG.DIN-931 8* 90 8.8 ZINC.
53000015	UNION MACHO 3/8 4062	60000254	TORN.EXAG.DIN-931 8*100 8.8 ZINC.
53000179	ABRAZ.DOUBLE D=15mm. 215-15PP	60000283	TORN.ALLEN DIN-7991 14* 50 10.9
53000217	LATIG.R2-3/8*1500mm.MF-1/2/MF-3/8	60000291	TORN.EXAG.DIN-931/933 8* 40 8.8 ZINC.
53000279	PROTECTOR E.R.MACHO 1/2" VERDE 5029-4PG	60000395	TUER.AUTO.DIN-980 20 8.8 BAJA ZINC.
53000388	LATIG.R2-1/4*3780mm.OR/OR-3/8	60000440	TORN.EXAG.DIN-931 8*140 8.8 ZINC.
53000389	LATIG.R2-1/4*3150mm.OR/OR-3/8	60000480	TORN.ALLEN DIN-7991 20* 55 12.9
53000400	PLACA RFZO.AB.DOUBLE 15/18	61000007	ARAND.DIN-9021 10 ZINC.
53000456	PLACA SOLDAR AB.DOUBLE 15/18 SP2D	61000011	ARAND.DIN-125 20 ZINC.
53000457	LATIG.R2-1/4*1500mm.MF-1/2/TL-3/8	74107902	PLACA PROLONGACION SOP.LATIG.
53000459	LATIG.MF210-1/4*2580mm.OR-3/8/TL-3/8	95013006	OREJA DESP.HID.15*20,5*90*32mm.
53000461	LATIG.MF210-1/4*1730mm.OR-3/8/TL-3/8	95013901	SOP.PEON P/DESPL.HID.(P/02)
53000462	LATIG.MF210-1/4*1980mm.OR-3/8/TL-3/8	95013990	SOP.PEON P/DESPL.HID.800
53000481	LATIG.MF210-1/4*2155mm.OR-3/8/TL-3/8	95013991	SOP.PEON P/DESPL.HID.SN-6/800



# FRAME "S"



## FRAME "S"

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
9000037	TAPON GOMA 150*100*10mm.	60000040	TORN.EXAG.DIN-931 20*230 8.8
9000038	TAPON GOMA 150*150*10mm.	60000096	TORN.EXAG.DIN-933 20* 50 8.8
9000097	TAPON GOMA 80* 50* 6mm.	60000112	TORN.EXAG.DIN-931 20*200 8.8
15020900	LLANTA TIRO BIELA SN (500/440)	60000121	TORN.EXAG.DIN-933 10* 20 8.8 ZINC.
15020901	ARAND.D=35,5mm.LLANTA TIRO BIELA SN	60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
15023909	BULON D=34,6*240mm.ROSC.TENSOR POST.SN + DACROMET	60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
15024901	CASQ.D= 60/45,9/35*183mm.C/VAR.PORTAC.SN	60000157	TUER.EXAG.DIN-934 12 8.8 ZINC.
15024902	ARAND.D=90/46*4mm.CEM.PORTAC.SN	60000210	TUER.AUTO.DIN-985 1" SAE 8.8
15024910	SOP.GIRO PORTACAMBAS SN	60000230	TORN.EXAG.C/LAR.20*200 12.9
15027900	SOP.ARTIC.CAMBA SBN	60000339	TORN.EXAG.DIN-933 10* 30 8.8 ZINC.
15028900	SOP.ARTIC.MARCADOR SBN	60000356	TORN.EXAG.C/LAR.1"*240 SAE 12.9
15029900	SOP.ARTIC.CAMBA/RDA.SBN	60000551	TORN.ALLEN DIN-916 12* 12 14.9 MOLETEADO
15123903	CASQ.GIRO BAST.SN-120 C/VARILLAS (D/20)	61000007	ARAND.DIN-9021 10 ZINC.
15123904	CASQ.GIRO BAST.SN-150 C/VARILLAS (D/20)	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
15127900	SOP.ARTIC.CAMBA SBN-L	62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
15128900	SOP.ARTIC.MARCADOR SBN-L	63000280	CASQ.FRICCION EG 55/50x50
15129900	SOP.ARTIC.CAMBA/RDA.SBN-L	90096912	MARCADOR TAJO 2P (D/06)
17027900	SOP.ARTIC.CAMBA SFN	90096950	MARCADOR TAJO 2P ZINC.
17028900	SOP.ARTIC.MARCADOR SFN	95024902	CASQ.D= 35/26/30*60mm.CEM.PORTAC.
17029900	SOP.ARTIC.CAMBA/RDA.SFN	95070900	CASQ.D= 60/50*70mm.CEM.ARTIC.SS/GIRO BAST.
53000004	ENGRASADOR AC° DIN-71412 8*125		



## FRAMES - SH-LH

PLACA SUPERIOR		PLACA INFERIOR	
REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15023903	PLACA SUP.SOP.GIRO BAST.SN-2-95	15023953	PLACA INF.SOP.GIRO BAST.SN-2-95
15023904	PLACA SUP.SOP.GIRO BAST.SN-3/4-95	15023954	PLACA INF.SOP.GIRO BAST.SN-3/4-95
15023905	PLACA SUP.SOP.GIRO BAST.SN-4A/5-95	15023955	PLACA INF.SOP.GIRO BAST.SN-4A/5-95
15023906	PLACA SUP.SOP.GIRO BAST.SN-5A/6-95	15023956	PLACA INF.SOP.GIRO BAST.SN-5A/6-95
15023913	PLACA SUP.SOP.GIRO BAST.SN-2-85	15023963	PLACA INF.SOP.GIRO BAST.SN-2-85
15023914	PLACA SUP.SOP.GIRO BAST.SN-3/4-85	15023964	PLACA INF.SOP.GIRO BAST.SN-3/4-85
15023915	PLACA SUP.SOP.GIRO BAST.SN-4A/5-85	15023965	PLACA INF.SOP.GIRO BAST.SN-4A/5-85
15023916	PLACA SUP.SOP.GIRO BAST.SN-5A/6-85	15023966	PLACA INF.SOP.GIRO BAST.SN-5A/6-85
15023923	PLACA SUP.SOP.GIRO BAST.SN-2-105	15023973	PLACA INF.SOP.GIRO BAST.SN-2-105
15023924	PLACA SUP.SOP.GIRO BAST.SN-3/4-105	15023974	PLACA INF.SOP.GIRO BAST.SN-3/4-105
15023925	PLACA SUP.SOP.GIRO BAST.SN-4A/5-105	15023975	PLACA INF.SOP.GIRO BAST.SN-4A/5-105
15023926	PLACA SUP.SOP.GIRO BAST.SN-5A/6-105	15023976	PLACA INF.SOP.GIRO BAST.SN-5A/6-105
15023935	PLACA SUP.SOP.GIRO BAST.SN-4A/5-100	15023985	PLACA INF.SOP.GIRO BAST.SN-4A/5-100

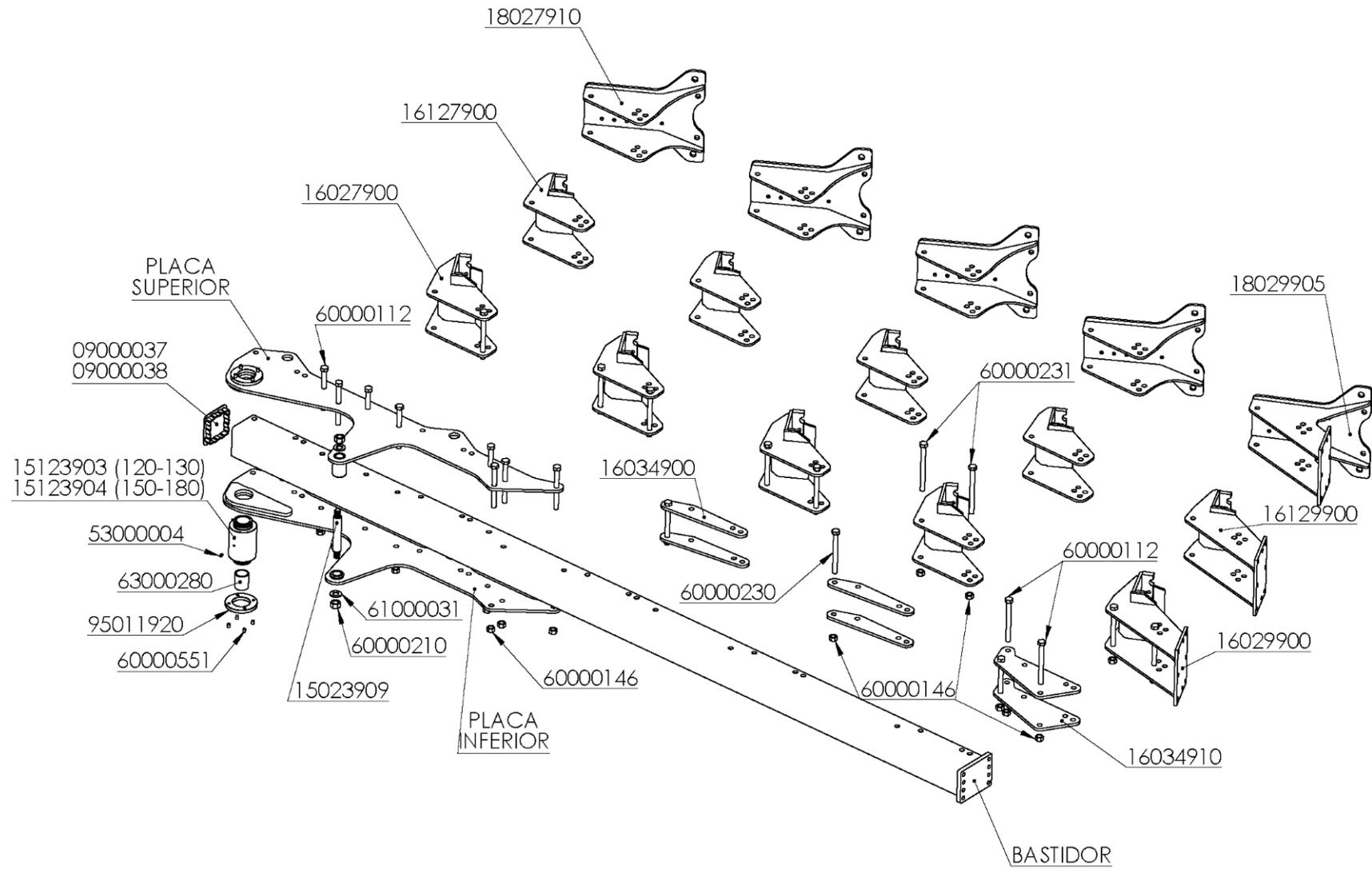


## TITULO-047

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15021901	BIELA SN-1-95	15021926	BIELA SN-6-105
15021902	BIELA SN-2-95	15021931	BIELA SN-1-100
15021903	BIELA SN-3-95	15021932	BIELA SN-2-95-NO AMP.
15021904	BIELA SN-4-95	15021935	BIELA SN-5-100
15021905	BIELA SN-5-95	15021942	BIELA SN-2-105-NO AMP.
15021906	BIELA SN-6-95	15021943	BIELA SN-3-105-NO AMP.
15021911	BIELA SN-1-85	15021953	BIELA SN-3-95-NO AMPL.
15021912	BIELA SN-2-85	15021954	BIELA SN-4-95-AMP.
15021913	BIELA SN-3-85	15021955	BIELA SN-5-95-AMP.
15021914	BIELA SN-4-85	15021963	BIELA SN-3-85-NO AMPL.
15021915	BIELA SN-5-85	15021964	BIELA SN-4-85-AMP.
15021916	BIELA SN-6-85	15021965	BIELA SN-5-85-AMP.
15021921	BIELA SN-1-105	15021966	BIELA SN-6-85-AMP.
15021922	BIELA SN-2-105	15021974	BIELA SN-4-105-AMP.
15021923	BIELA SN-3-105	15021975	BIELA SN-5-105-AMP.
15021924	BIELA SN-4-105	15021984	BIELA SN-4-100-AMP.
15021925	BIELA SN-5-105		



# FRAME "L"



## FRAME "L"

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
9000037	TAPON GOMA 150*100*10mm.	60000112	TORN.EXAG.DIN-931 20*200 8.8
9000038	TAPON GOMA 150*150*10mm.	60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
15023909	BULON D=34,6*240mm.ROSC.TENSOR POST.SN + DACROMET	60000210	TUER.AUTO.DIN-985 1" SAE 8.8
16027900	SOP.ARTIC.CAMBA LBN	60000230	TORN.EXAG.C/LAR.20*200 12.9
16029900	SOP.ARTIC.CAMBA/RDA.LBN	60000231	TORN.EXAG.C/LAR.20*225 12.9
16034900	PLACA ASIENTO SOPORTES L	60000551	TORN.ALLEN DIN-916 12* 12 14.9 MOLETEADO
16034910	PLACA ASIENTO SOP.RDA C/T L	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
16127900	SOP.ARTIC.CAMBA LBN-L	63000280	CASQ.FRICCION EG 55/50x50
16129900	SOP.ARTIC.CAMBA/RDA.LBN-L	95011920	CONTRATUERCA EJE CABEZAL 110 (D-07)/120/150
18027910	SOP.ARTIC.CAMBA LFN (D/14)	15123903	CASQ.GIRO BAST.SN-120 C/VARILLAS (D/20)
18029905	SOP.ARTIC.CAMBA/RDA.LFN (D/14)	15123904	CASQ.GIRO BAST.SN-150 C/VARILLAS (D/20)
53000004	ENGRASADOR AC° DIN-71412 8*125		



## TITULO-048

PLACA SUPERIOR		PLACA INFERIOR	
REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15023903	PLACA SUP.SOP.GIRO BAST.SN-2-95	15023953	PLACA INF.SOP.GIRO BAST.SN-2-95
15023904	PLACA SUP.SOP.GIRO BAST.SN-3/4-95	15023954	PLACA INF.SOP.GIRO BAST.SN-3/4-95
15023905	PLACA SUP.SOP.GIRO BAST.SN-4A/5-95	15023955	PLACA INF.SOP.GIRO BAST.SN-4A/5-95
15023906	PLACA SUP.SOP.GIRO BAST.SN-5A/6-95	15023956	PLACA INF.SOP.GIRO BAST.SN-5A/6-95
15023913	PLACA SUP.SOP.GIRO BAST.SN-2-85	15023963	PLACA INF.SOP.GIRO BAST.SN-2-85
15023914	PLACA SUP.SOP.GIRO BAST.SN-3/4-85	15023964	PLACA INF.SOP.GIRO BAST.SN-3/4-85
15023915	PLACA SUP.SOP.GIRO BAST.SN-4A/5-85	15023965	PLACA INF.SOP.GIRO BAST.SN-4A/5-85
15023916	PLACA SUP.SOP.GIRO BAST.SN-5A/6-85	15023966	PLACA INF.SOP.GIRO BAST.SN-5A/6-85
15023923	PLACA SUP.SOP.GIRO BAST.SN-2-105	15023973	PLACA INF.SOP.GIRO BAST.SN-2-105
15023924	PLACA SUP.SOP.GIRO BAST.SN-3/4-105	15023974	PLACA INF.SOP.GIRO BAST.SN-3/4-105
15023925	PLACA SUP.SOP.GIRO BAST.SN-4A/5-105	15023975	PLACA INF.SOP.GIRO BAST.SN-4A/5-105
15023926	PLACA SUP.SOP.GIRO BAST.SN-5A/6-105	15023976	PLACA INF.SOP.GIRO BAST.SN-5A/6-105
15023935	PLACA SUP.SOP.GIRO BAST.SN-4A/5-100	15023985	PLACA INF.SOP.GIRO BAST.SN-4A/5-100





# TITULO-049

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15019901	BAST.SN-1-95-(100)	15019943	BAST.SN-3-105-(100-NO AMP.)
15019902	BAST.SN-2-95	15019944	BAST.SN-4-105-(150-NO AMP.)
15019903	BAST.SN-3-95	15019951	BAST.SN-1-95-(150)
15019904	BAST.SN-4-95	15019953	BAST.SN-3-95-(150)
15019905	BAST.SN-5-95	15019954	BAST.SN-4-95-AMP
15019906	BAST.SN-6-95	15019955	BAST.SN-5-95-AMP
15019911	BAST.SN-1-85-(100)	15019961	BAST.SN-1-85-(150)
15019912	BAST.SN-2-85	15019963	BAST.SN-3-85-(150)
15019913	BAST.SN-3-85	15019964	BAST.SN-4-85-AMP
15019914	BAST.SN-4-85	15019965	BAST.SN-5-85-AMP
15019915	BAST.SN-5-85	15019966	BAST.SN-6-85-AMP
15019916	BAST.SN-6-85	15019971	BAST.SN-1-105-(150)
15019921	BAST.SN-1-105-(100)	15019973	BAST.SN-3-105-(150)
15019922	BAST.SN-2-105	15019974	BAST.SN-4-105-AMP
15019923	BAST.SN-3-105	15019984	BAST.SN-4-100-AMP
15019924	BAST.SN-4-105	15019985	BAST.SN-5-85-(100-NO AMP)
15019925	BAST.SN-5-105	15019995	BAST.SN-5-95-(100-NO AMP)
15019926	BAST.SN-6-105	15020954	BAST.SN-4-95-AMP (ESTR-6)
15019934	BAST.SN-4-95-(150-NO AMP.)	28019904	BAST.FBN-4-95
15019935	BAST.SN-5-100		

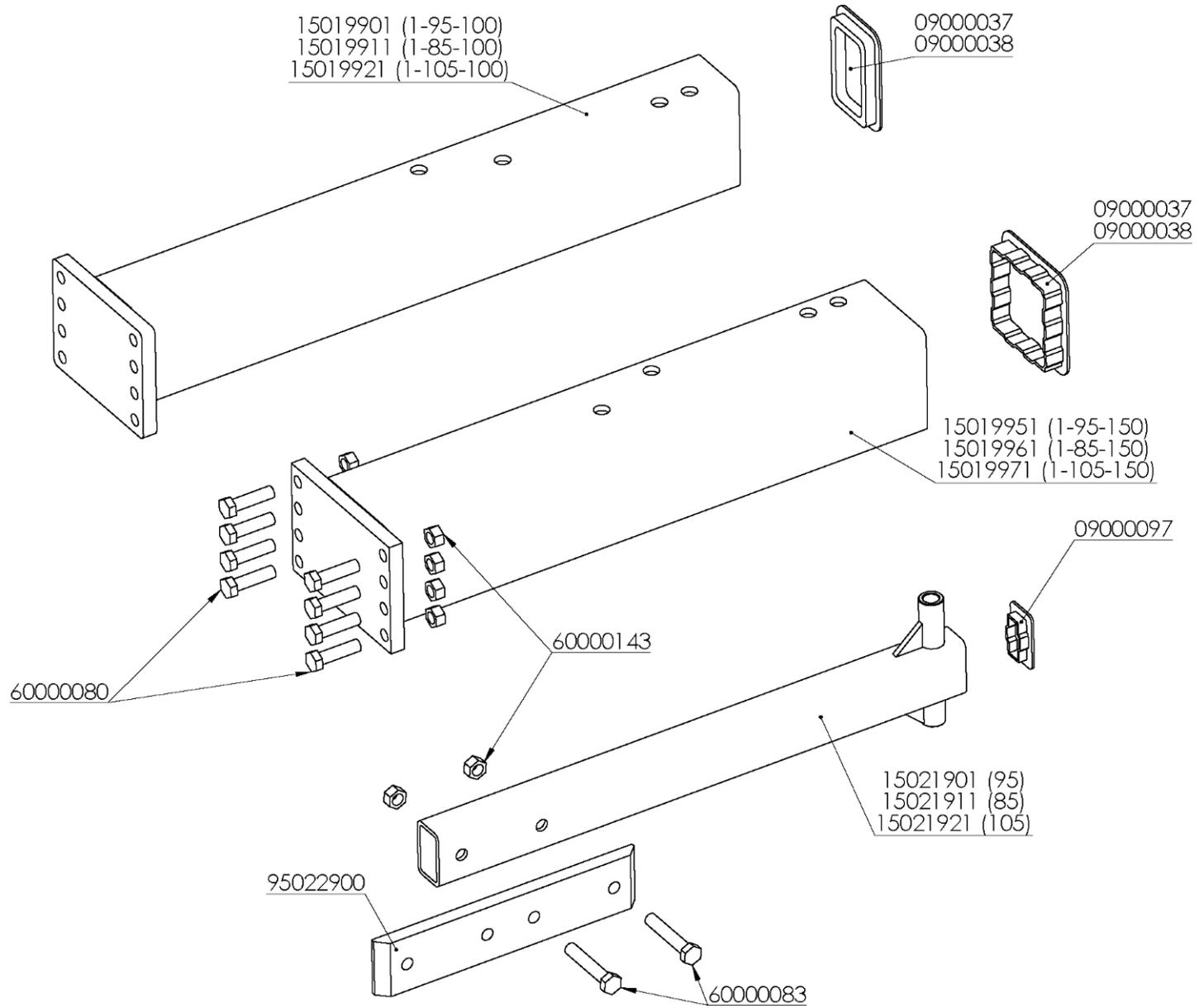


## TITULO-050

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
16019894	BAST.SHN-4-85 (100- AMP.)	16019943	BAST.SHN-3-105-(100-NO AMP.)
16019901	BAST.SHN-1-95-(100)	16019944	BAST.SHN-4-105-(150-NO AMP.)
16019902	BAST.SHN-2-95	16019945	BAST.SHN-5-95-(100-NO AMP)
16019903	BAST.SHN-3-95	16019951	BAST.SHN-1-95-(150)
16019904	BAST.SHN-4-95	16019953	BAST.SHN-3-95-(150)
16019905	BAST.SHN-5-95	16019954	BAST.SHN-4-95-AMP
16019906	BAST.SHN-6-95	16019955	BAST.SHN-5-95-AMP
16019911	BAST.SHN-1-85-(100)	16019956	BAST.SHN-4-95-AMP (ESTR-6)
16019912	BAST.SHN-2-85	16019961	BAST.SHN-1-85-(150)
16019913	BAST.SHN-3-85	16019963	BAST.SHN-3-85-(150)
16019914	BAST.SHN-4-85	16019964	BAST.SHN-4-85-AMP
16019915	BAST.SHN-5-85	16019965	BAST.SHN-5-85-AMP
16019916	BAST.SHN-6-85	16019971	BAST.SHN-1-105-(150)
16019921	BAST.SHN-1-105-(100)	16019973	BAST.SHN-3-105-(150)
16019922	BAST.SHN-2-105	16019974	BAST.SHN-4-105-AMP.
16019924	BAST.SHN-4-105	16019975	BAST.SHN-5-105 (180)
16019925	BAST.SHN-5-105	16019984	BAST.SHN-4-100-AMP
16019934	BAST.SHN-4-95-(150-NO AMP.)	16019985	BAST.SHN-5-85-(100-NO AMP)
16019935	BAST.SHN-5-100	16019994	BAST.SHN-4-95 (100- AMP.)



# MODULE

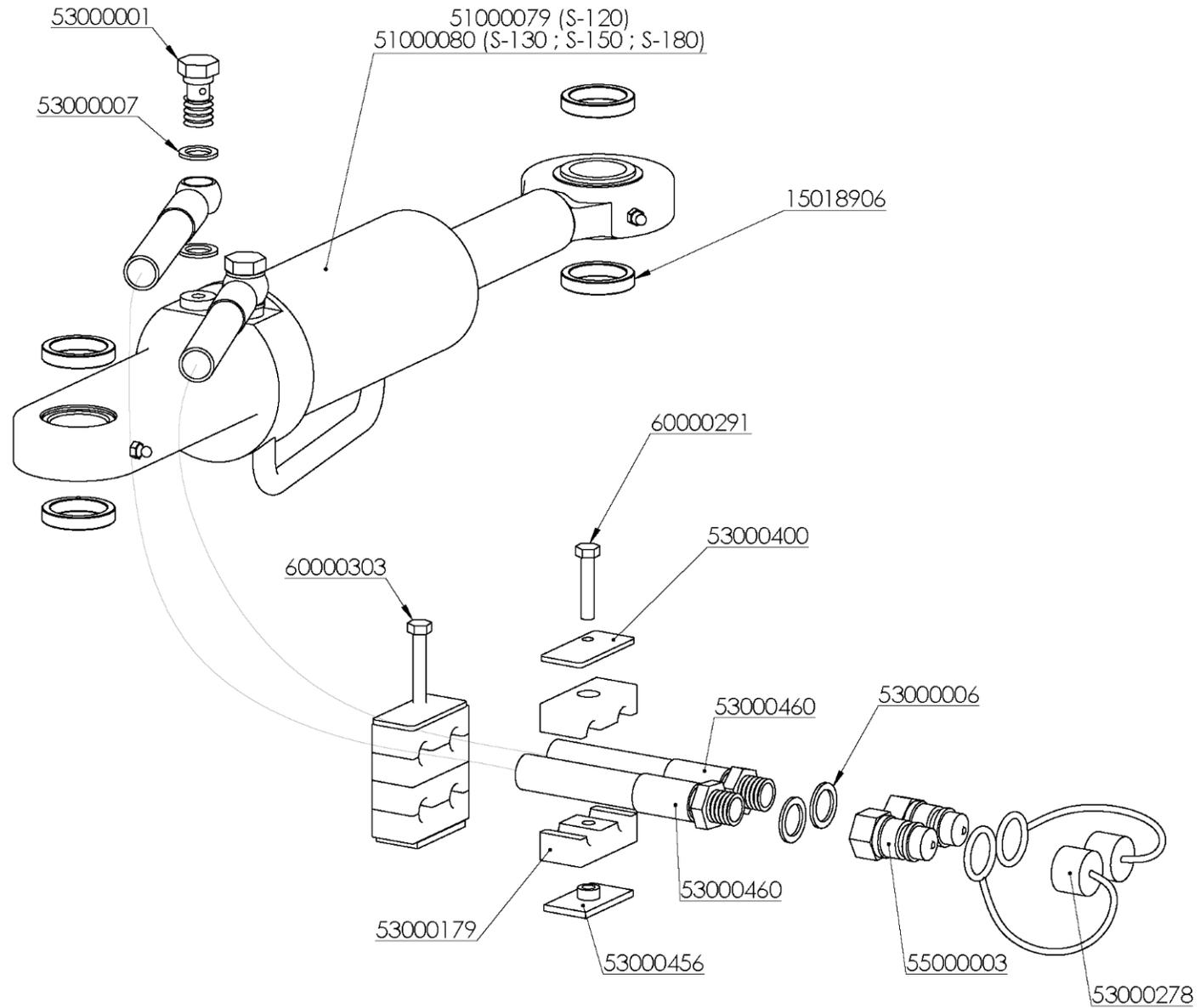


# MODULE

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
9000037	TAPON GOMA 150*100*10mm.	15019971	BAST.SN-1-105-(150)
9000038	TAPON GOMA 150*150*10mm.	15021901	BIELA SN-1-95
9000097	TAPON GOMA 80* 50* 6mm.	15021911	BIELA SN-1-85
15019901	BAST.SN-1-95-(100)	15021921	BIELA SN-1-105
15019911	BAST.SN-1-85-(100)	60000080	TORN.EXAG.DIN-931 16* 60 8.8 ZINC.
15019921	BAST.SN-1-105-(100)	60000083	TORN.EXAG.DIN-931 16* 90 8.8
15019951	BAST.SN-1-95-(150)	60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
15019961	BAST.SN-1-85-(150)	95022900	PLACA CONEX.BIELA MODULO S



# OPENING SYSTEM

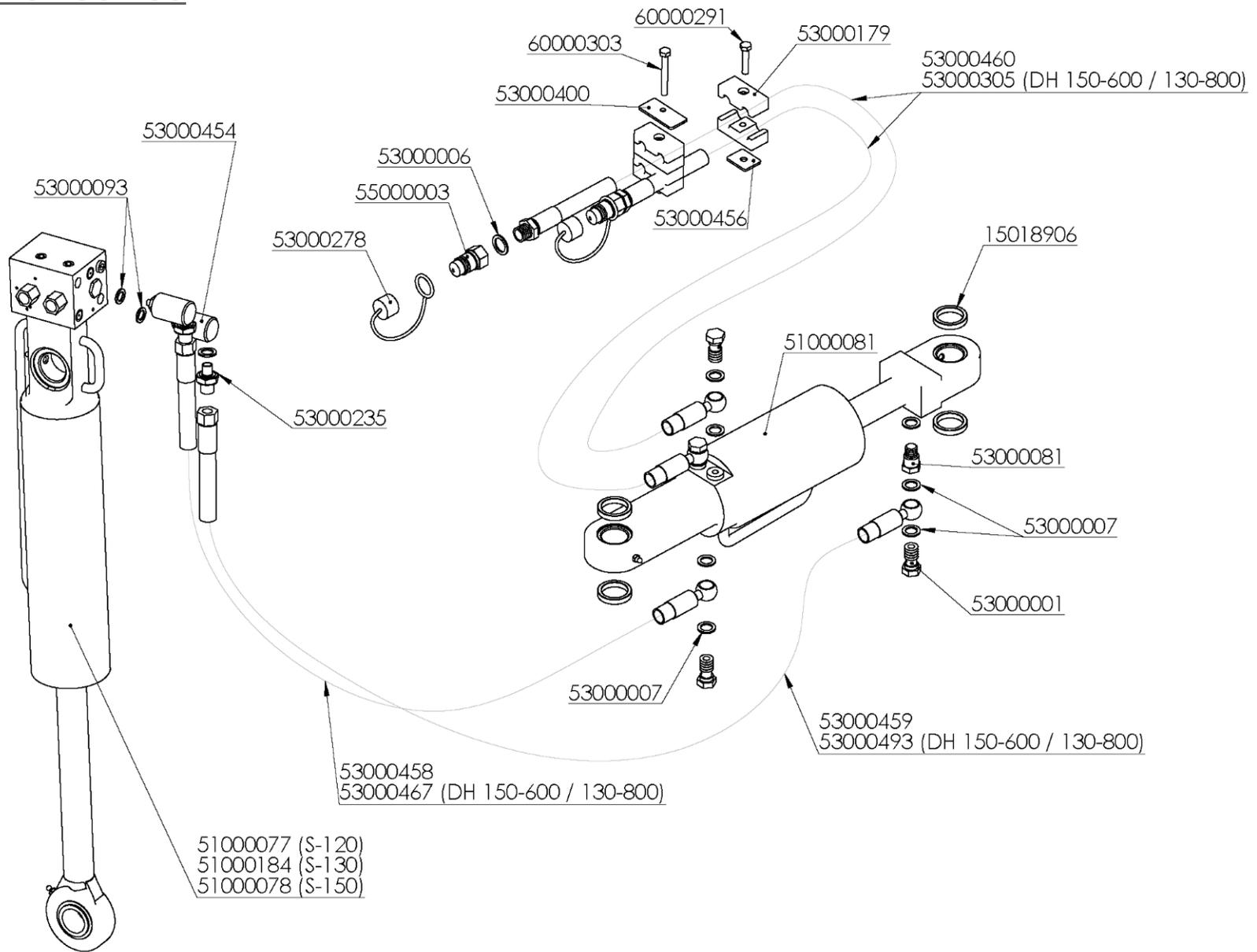


# OPENING SYSTEM

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15018906	CASQ. D=45/35*8 SEP.APERT.CICRO	53000278	PROTECTOR E.R.MACHO 1/2" AMARILLO 5029-4PY
51000079	CILIND.APERT. 40/ 80/100 VALV.BLOQ.	53000400	PLACA RFZO.AB.DOBLE 15/18
51000080	CILIND.APERT. 42/100/100 VALV.BLOQ.	53000456	PLACA SOLDAR AB.DOBLE 15/18 SP2D
53000001	TORNILLO SIMPLE 3/8 4022	53000460	LATIG.MF210-1/4*3550mm.MF-1/2/OR-3/8
53000006	JUNTA METAL/GOMA 1/2" 11603	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
53000007	JUNTA METAL/GOMA 3/8" 11602	60000291	TORN.EXAG.DIN-931/933 8* 40 8.8 ZINC.
53000179	ABRAZ.DOBLE D=15mm. 215-15PP	60000303	TORN.EXAG.DIN-931 8* 65 8.8 ZINC.



# MEMORY 120-130-150

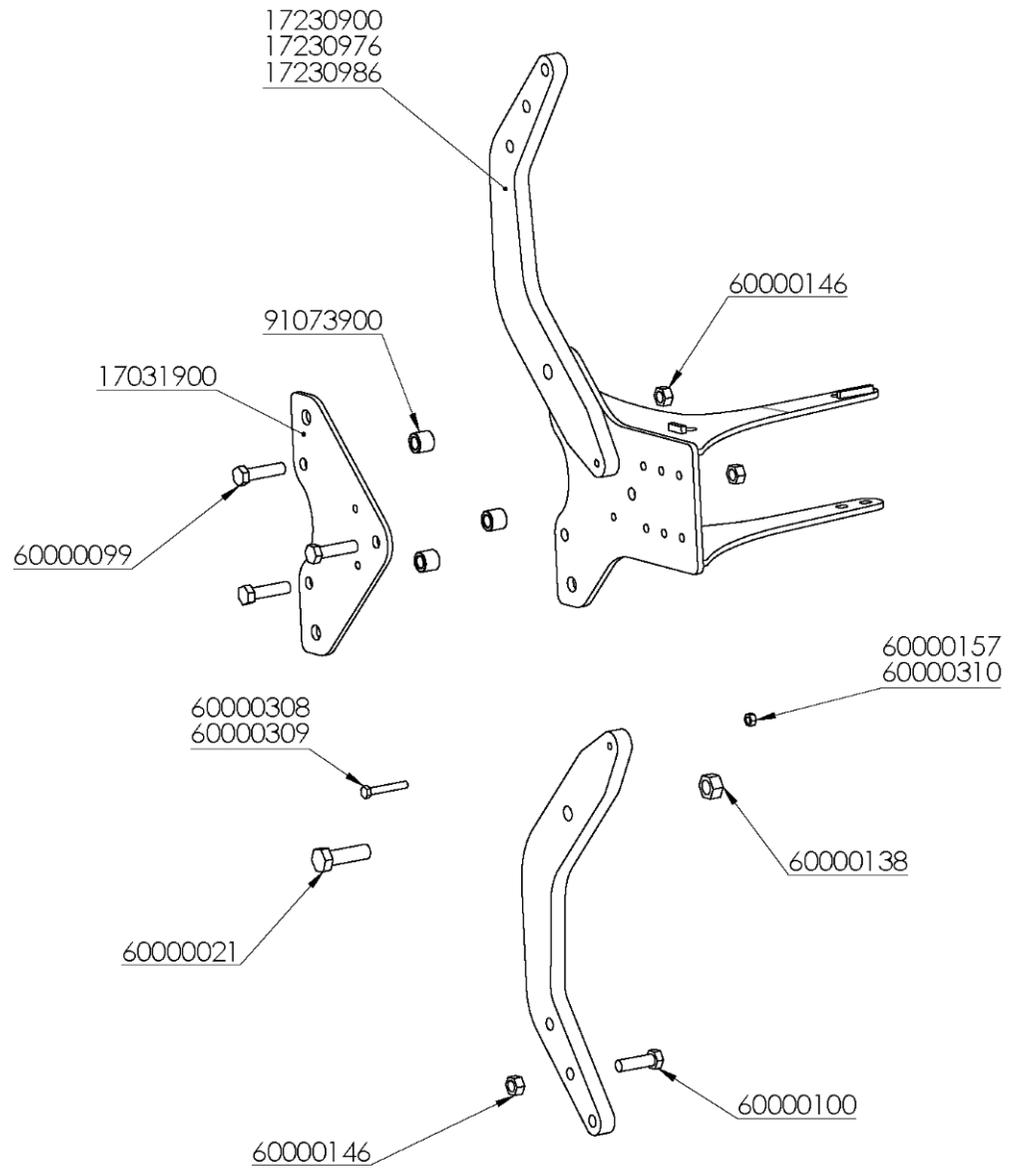


## MEMORY 120-130-150

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15018906	CASQ. D=45/35*8 SEP.APERT.CICRO	53000305	LATIG.MF210-1/4*3800mm.MF-1/2/OR-3/8
51000077	CILIND.VOLTEO 35/63/260 + VALV.SECUENCIAL	53000400	PLACA RFZO.AB.DOBLE 15/18
51000078	CILIND.VOLTEO 40/90/300 + VALV.SECUENCIAL	53000454	RACOR GIRATORIO 90° 1-VIA 1/4 G0990
51000081	CILIND.APERT./MEMª. 42/100/100 VALV.BLOQ.	53000456	PLACA SOLDAR AB.DOBLE 15/18 SP2D
51000184	CILIND.VOLTEO 35/63/260 + VALV.SEC (ROT.35-35)	53000458	LATIG.MF210-1/4*2010mm.OR-3/8/TL-3/8
53000001	TORNILLO SIMPLE 3/8 4022	53000459	LATIG.MF210-1/4*2580mm.OR-3/8/TL-3/8
53000006	JUNTA METAL/GOMA 1/2" 11603	53000460	LATIG.MF210-1/4*3550mm.MF-1/2/OR-3/8
53000007	JUNTA METAL/GOMA 3/8" 11602	53000467	LATIG.MF210-1/4*2680mm.OR-3/8/TL-3/8
53000081	SUPLEMENTO 3/8" 4092	53000493	LATIG.MF210-1/4*3230mm.OR-3/8/TL-3/8
53000093	JUNTA METAL GOMA 1/4 11601	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
53000179	ABRAZ.DOBLE D=15mm. 215-15PP	60000291	TORN.EXAG.DIN-931/933 8* 40 8.8 ZINC.
53000235	UNION REDUCCION 1/4-3/8 4071	60000303	TORN.EXAG.DIN-931 8* 65 8.8 ZINC.
53000278	PROTECTOR E.R.MACHO 1/2" AMARILLO 5029-4PY		



# BODY "SF-LF"

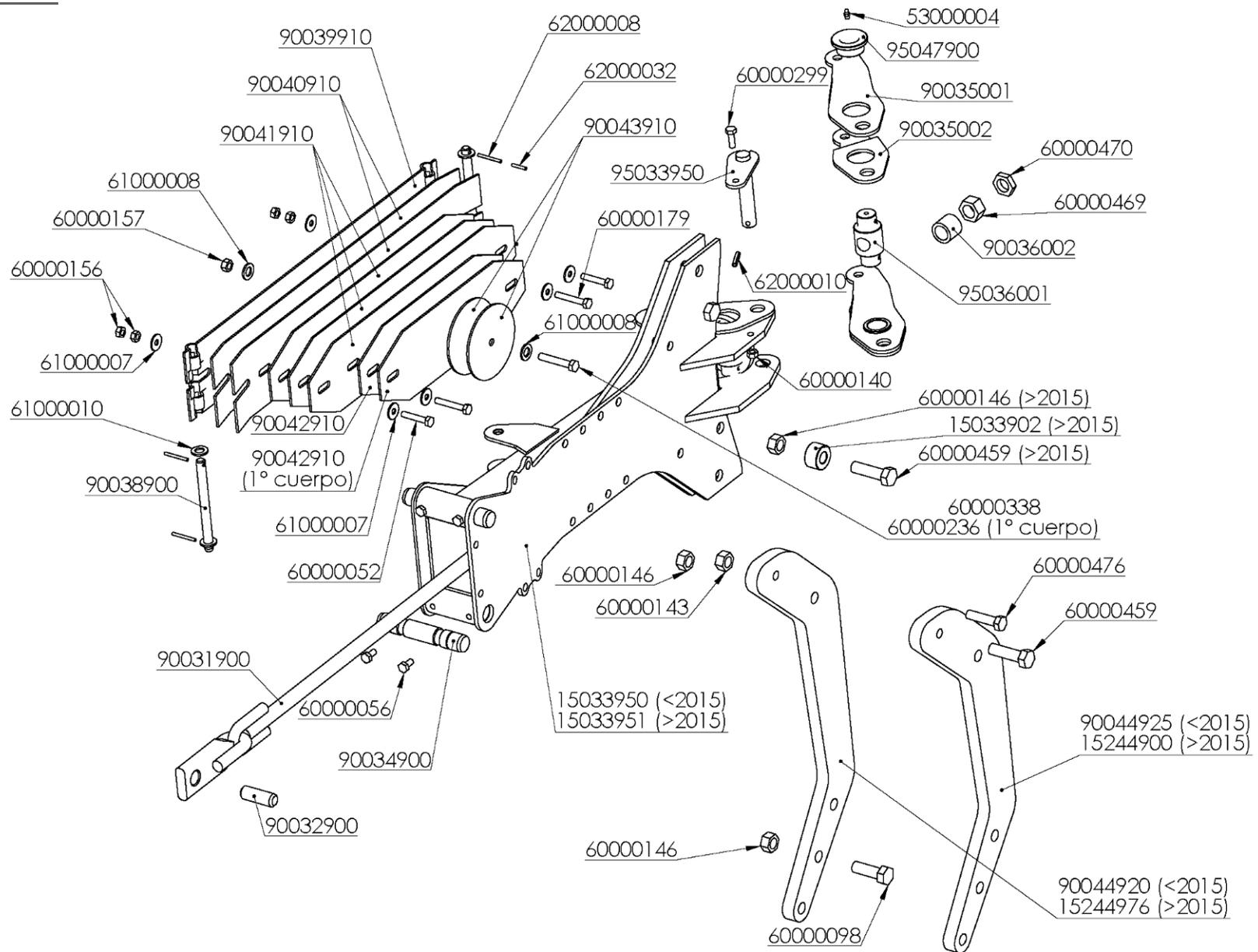


# BODY "SF-LF"

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
17031900	PLACA PORTACAMBA EXT.SFN	60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
17230900	CAMBA XPF 30mm.	60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
17230976	CAMBA XPF 30mm 75cm.DESPEJE	60000157	TUER.EXAG.DIN-934 12 8.8 ZINC.
17230986	CAMBA XPF 30mm.85cm.DESPEJE	60000308	TORN.EXAG.C/LAR.12* 70 12.9
60000021	TORN.EXAG.C/LAR.1"* 85 SAE 12.9	60000309	TORN.EXAG.C/LAR.1/2"* 70 SAE 12.9
60000099	TORN.EXAG.C/LAR.20* 80 10.9	60000310	TUER.EXAG.DIN-934 1/2"SAE 10.9
60000100	TORN.EXAG.DIN-931 20* 70 8.8	91073900	CASQ.D= 35/21*31mm.SEP.PORTAC.SM/SF



# ARM "SB-LB"

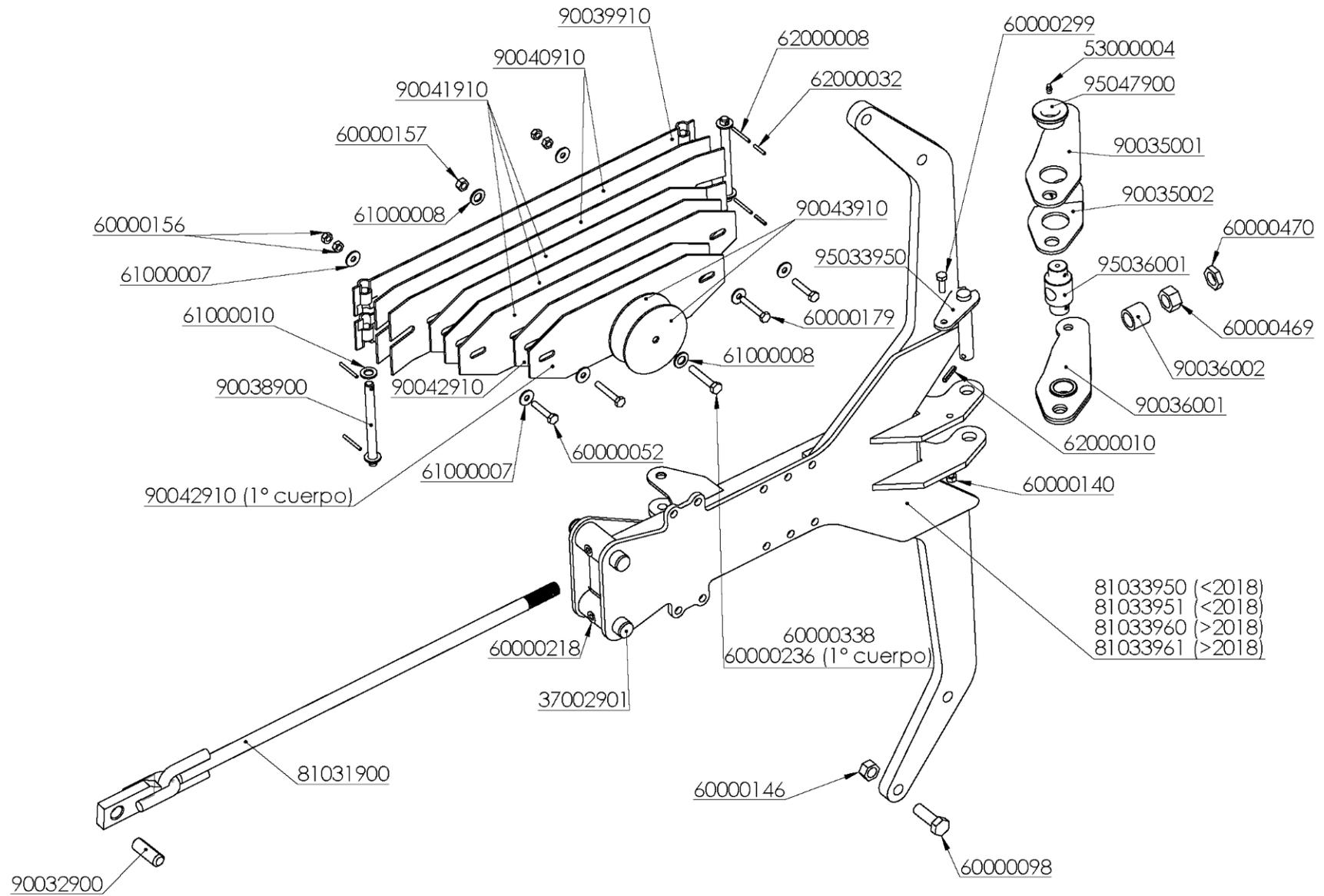


## ARM "SB-LB"

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15033902	CASQ.D= 45/20,5*26mm.PORTACAMBA SB	61000010	ARAND.DIN-125 16 ZINC.
15033950	BRAZO PORTACAMBA SB (D/13)	62000008	PASADOR ELAST.DIN-1481 5* 30 ZINC.
15033951	BRAZO PORTACAMBA SB (D/15)	62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
15244900	CAMBA XPH 25mm	62000032	PASADOR ELAST.DIN-1481 3* 30 ZINC.
15244976	CAMBA XPH 25mm 76cm DESPEJE.	90031900	BARRA TENSORA
53000004	ENGRASADOR AC° DIN-71412 8*125	90032900	BULON D=25* 70mm.TIRO BARRA TENSORA
60000052	TORN.EXAG.DIN-931 10* 55 10.9 ZINC.	90034900	BULON APOYO ANCORAS
60000098	TORN.EXAG.DIN-931 20* 60 8.8	90035001	BIELA HORQUILLA DCH.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	90035002	BIELA HORQUILLA IZQD.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	90036002	SEP.B.P.40/28* 35mm.
60000156	TUER.EXAG.DIN-934 10 8.8 ZINC.	90038900	PASADOR BALLESTA DACROMET
60000157	TUER.EXAG.DIN-934 12 8.8 ZINC.	90039910	BALLESTA MAESTRA VERDE RAL-6029
60000179	TORN.EXAG.DIN-931 10* 60 10.9 ZINC.	90040910	BALLESTA 1er.RFZO.VERDE RAL-6029
60000236	TORN.EXAG.DIN-933 12* 70 10.9 ZINC.	90041910	BALLESTA 2° RFZO.VERDE RAL-6029
60000299	TORN.EXAG.DIN-933 10* 30 8.8	90042910	BALLESTA 3er.RFZO.VERDE RAL-6029
60000338	TORN.EXAG.DIN-931 12* 65 10.9 ZINC.	90043910	BALLESTA BOTON VERDE RAL-6029
60000056	TORN.EXAG.DIN-933 12* 20 12.9	90044920	CAMBA SB 25mm 75cm DESPEJE.
60000459	TORN.EXAG.C/LAR. 20* 70 10.9	90044925	CAMBA SB 25mm
60000469	TUER.EXAG.DIN-934 1"SAE 10.9 ZINC.	95033950	BULON GIRO HORQ.(D/04)
60000470	TUER.BAJA DIN-936 1"SAE 10.9 ZINC.	95036001	BULON ARTIC.HORQUILLA (D/99)
61000007	ARAND.DIN-9021 10 ZINC.	95047900	CASQ.D= 65/49,3/35*25,5mm.GIRO HORQUILLA
61000008	ARAND.DIN-125 12 ZINC. PASAR A 61000060	96074900	TORN.FUSIBLE 20*70 10.9



# ARM "XL-B"

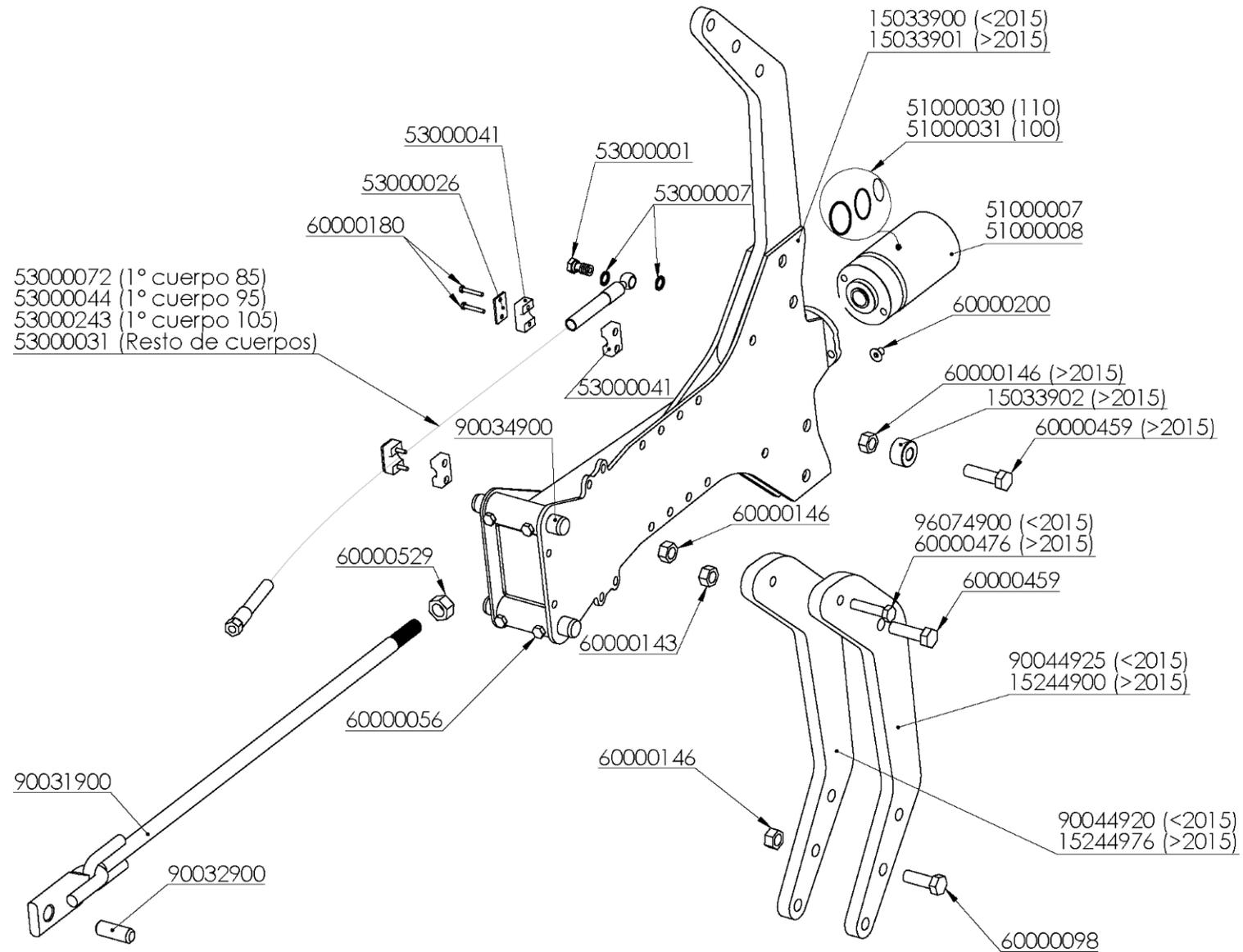


## ARM "XL-B"

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
37002901	BULON APOYO ANCORA MR	62000032	PASADOR ELAST.DIN-1481 3* 30 ZINC.
53000004	ENGRASADOR AC° DIN-71412 8*125	81031900	BARRA TENSORA LVH
60000052	TORN.EXAG.DIN-931 10* 55 10.9 ZINC.	81033950	BRAZO PORTACAMBA LVB
60000098	TORN.EXAG.DIN-931 20* 60 8.8	81033951	BRAZO PORTACAMBA LVB-76
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	81033960	BRAZO PORTACAMBA LVB (D/18)
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.	81033961	BRAZO PORTACAMBA LVB-76 (D/18)
60000156	TUER.EXAG.DIN-934 10 8.8 ZINC.	90032900	BULON D=25* 70mm.TIRO BARRA TENSORA
60000157	TUER.EXAG.DIN-934 12 8.8 ZINC.	90035001	BIELA HORQUILLA DCH.
60000179	TORN.EXAG.DIN-931 10* 60 10.9 ZINC.	90035002	BIELA HORQUILLA IZQD.
60000218	TORN.ALLEN DIN-913 12* 16 12.9	90036001	BULON ARTIC.HORQUILLA (H/99)
60000236	TORN.EXAG.DIN-933 12* 70 10.9 ZINC.	90036002	SEP.B.P.40/28* 35mm.
60000299	TORN.EXAG.DIN-933 10* 30 8.8	90038900	PASADOR BALLESTA DACROMET
60000338	TORN.EXAG.DIN-931 12* 65 10.9 ZINC.	90039910	BALLESTA MAESTRA VERDE RAL-6029
60000469	TUER.EXAG.DIN-934 1"SAE 10.9 ZINC.	90040910	BALLESTA 1er.RFZO.VERDE RAL-6029
60000470	TUER.BAJA DIN-936 1"SAE 10.9 ZINC.	90041910	BALLESTA 2° RFZO.VERDE RAL-6029
61000007	ARAND.DIN-9021 10 ZINC.	90042910	BALLESTA 3er.RFZO.VERDE RAL-6029
61000008	ARAND.DIN-125 12 ZINC. PASAR A 61000060	90043910	BALLESTA BOTON VERDE RAL-6029
61000010	ARAND.DIN-125 16 ZINC.	95033950	BULON GIRO HORQ.(D/04)
62000008	PASADOR ELAST.DIN-1481 5* 30 ZINC.	95036001	BULON ARTIC.HORQUILLA (D/99)
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.	95047900	CASQ.D= 65/49,3/35*25,5mm.GIRO HORQUILLA



# ARM "SH-LH"

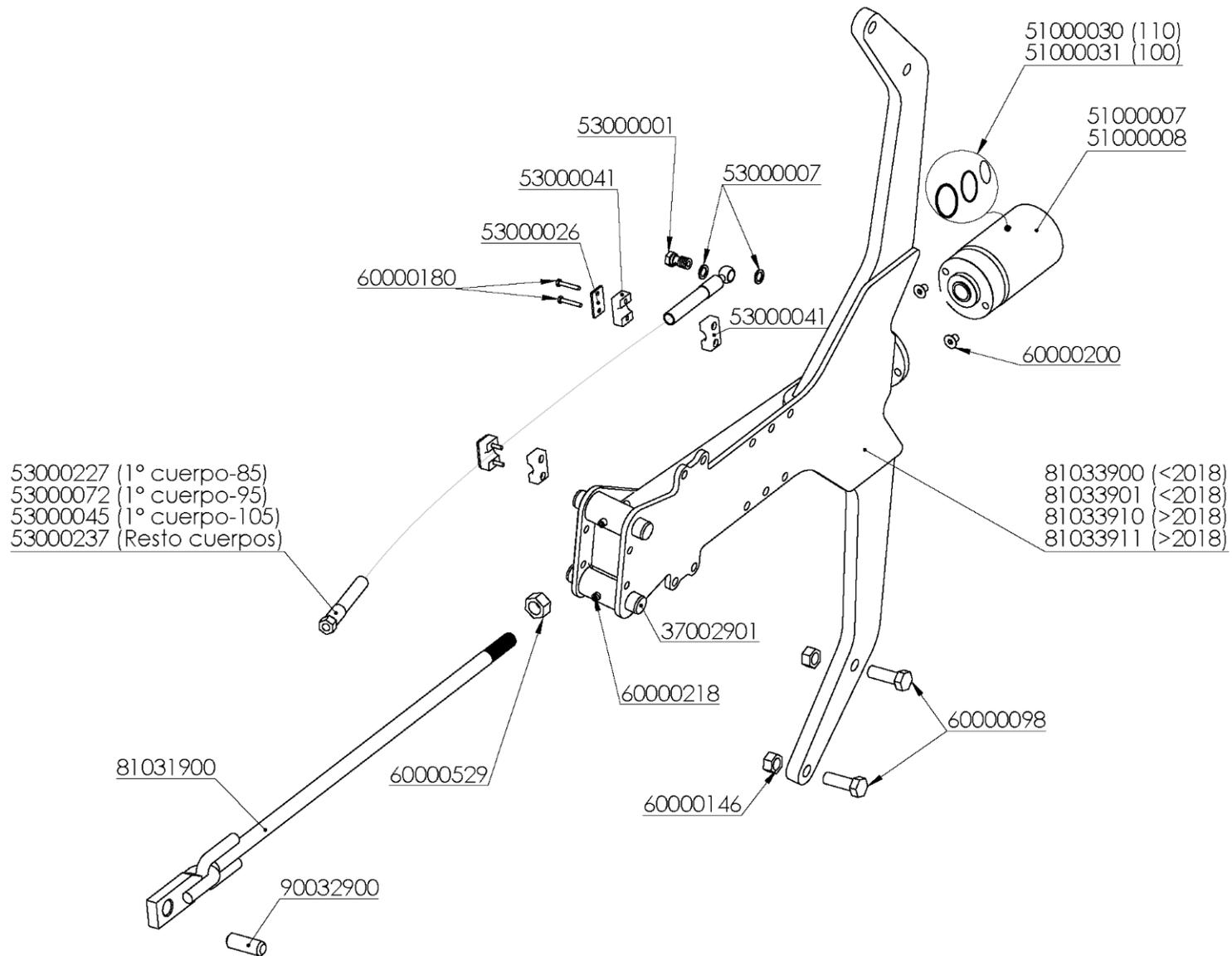


## ARM "SH-LH"

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15033900	BRAZO PORTACAMBA SH (D/13)	53000243	LATIG.R2-3/8*2000mm.OR-3/8/TL-18
15033901	BRAZO PORTACAMBA SH (D/15)	60000056	TORN.EXAG.DIN-933 12* 20 12.9
15033902	CASQ.D= 45/20,5*26mm.PORTACAMBA SB	60000098	TORN.EXAG.DIN-931 20* 60 8.8
15244900	CAMBA XPH 25mm	60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
15244976	CAMBA XPH 25mm 76cm DESPEJE.	60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
51000007	CILIND.TRACCION 110/36/90 AR	60000180	TORN.EXAG.DIN-931 6* 40 8.8 ZINC.
51000008	CILIND.TRACCION 100/36/90 AR	60000200	TORN.ALLEN DIN-912 12* 25 8.8 ZINC.
51000030	J.JUNTAS CIL.TRACC. 110/36/90 (CICRO)	60000459	TORN.EXAG.C/LAR. 20* 70 10.9
51000031	J.JUNTAS CIL.TRACC. 100/36/90 (CICRO)	60000476	TORN.EXAG.C/LAR. 16* 65 10.9 (FUSIBLE)
53000001	TORNILLO SIMPLE 3/8 4022	60000529	TUER.AUTO.DIN-985 1" SAE 10.9
53000007	JUNTA METAL/GOMA 3/8" 11602	90031900	BARRA TENSORA
53000026	PLACA RFZO.AB.SIMPLE 20 DP3	90032900	BULON D=25* 70mm.TIRO BARRA TENSORA
53000031	LATIG.R2-3/8*1300mm.OR-3/8/TL-18	90034900	BULON APOYO ANCORA
53000041	ABRAZ.SIMPLE D=19mm. 319PP	90044920	CAMBA SB 25mm 75cm DESPEJE (H/15)
53000044	LATIG.R2-3/8*1900mm.OR-3/8/TL-18	90044925	CAMBA SB 25mm (H/15)
53000072	LATIG.R2-3/8*1800mm.OR-3/8/TL-18	96074900	TORN.FUSIBLE 20*70 10.9



# ARM "XL-H"

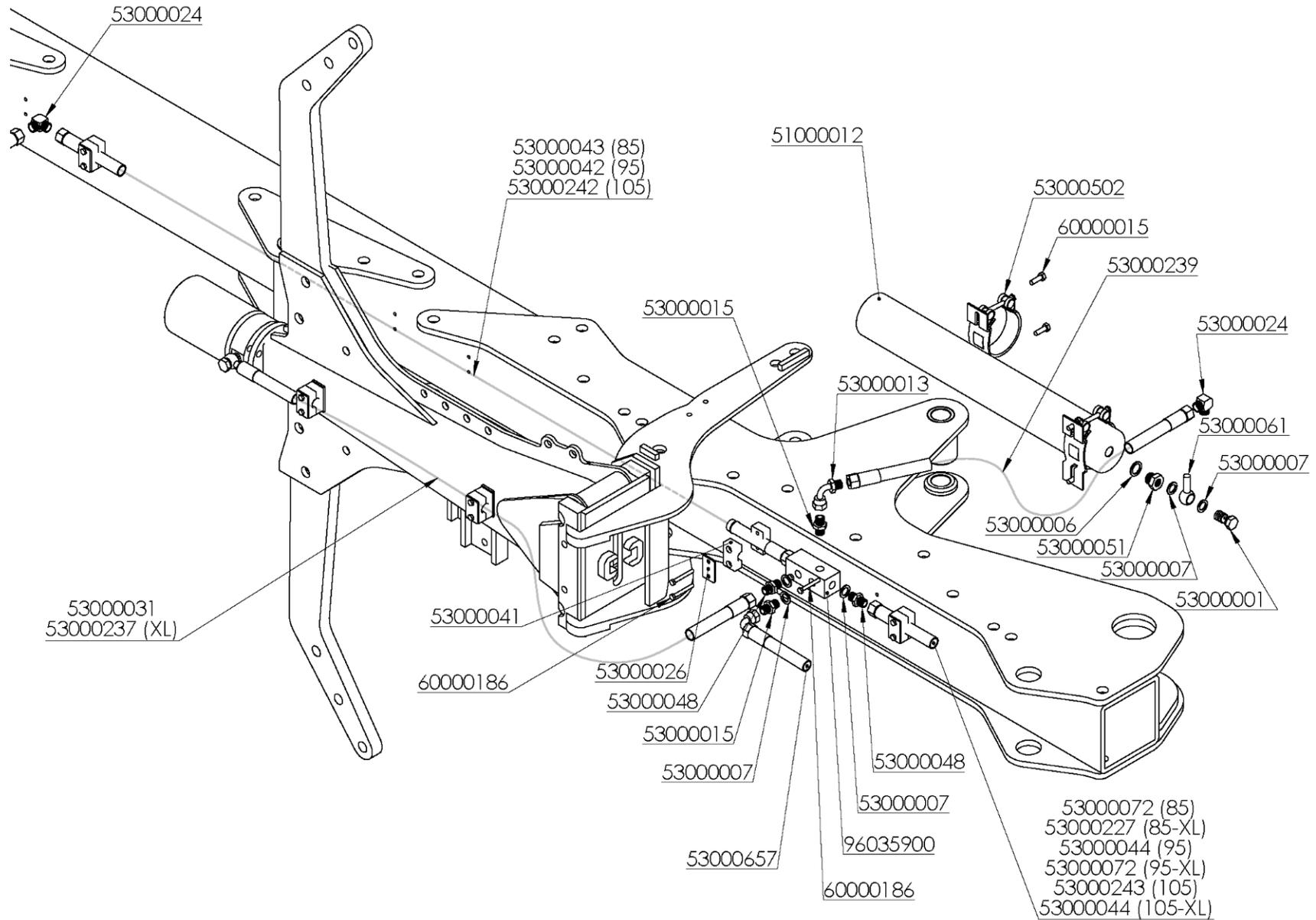


## ARM "XL-H"

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
37002901	BULON APOYO ANCORAS MR	60000098	TORN.EXAG.DIN-931 20* 60 8.8
51000007	CILIND.TRACCION 110/36/90 AR	60000146	TUER.AUTO.DIN-980 20 10.9 ZINC.
51000008	CILIND.TRACCION 100/36/90 AR	60000180	TORN.EXAG.DIN-931 6* 40 8.8 ZINC.
51000030	J.JUNTAS CIL.TRACC. 110/36/90 (CICRO)	60000200	TORN.ALLEN DIN-912 12* 25 8.8 ZINC.
51000031	J.JUNTAS CIL.TRACC. 100/36/90 (CICRO)	60000218	TORN.ALLEN DIN-913 12* 16 12.9
53000001	TORNILLO SIMPLE 3/8 4022	60000529	TUER.AUTO.DIN-985 1" SAE 10.9
53000007	JUNTA METAL/GOMA 3/8" 11602	81031900	BARRA TENSORA LVH
53000026	PLACA RFZO.AB.SIMPLE 20 DP3	81033900	BRAZO PORTACAMBA LVH
53000041	ABRAZ.SIMPLE D=19mm. 319PP	81033901	BRAZO PORTACAMBA LVH-76
53000045	UNION REDUCCION 3/8-1/2 4072	81033910	BRAZO PORTACAMBA LVH (D/18)
53000072	LATIG.R2-3/8*1800mm.OR-3/8/TL-18	81033911	BRAZO PORTACAMBA LVH-76 (D/18)
53000227	LATIG.R2-3/8*1700mm.OR-3/8/TL-18	90032900	BULON D=25* 70mm.TIRO BARRA TENSORA
53000237	LATIG.R2-3/8*1170mm.OR-3/8/TL-18		



# HYDROPNEUMATIC SYSTEM

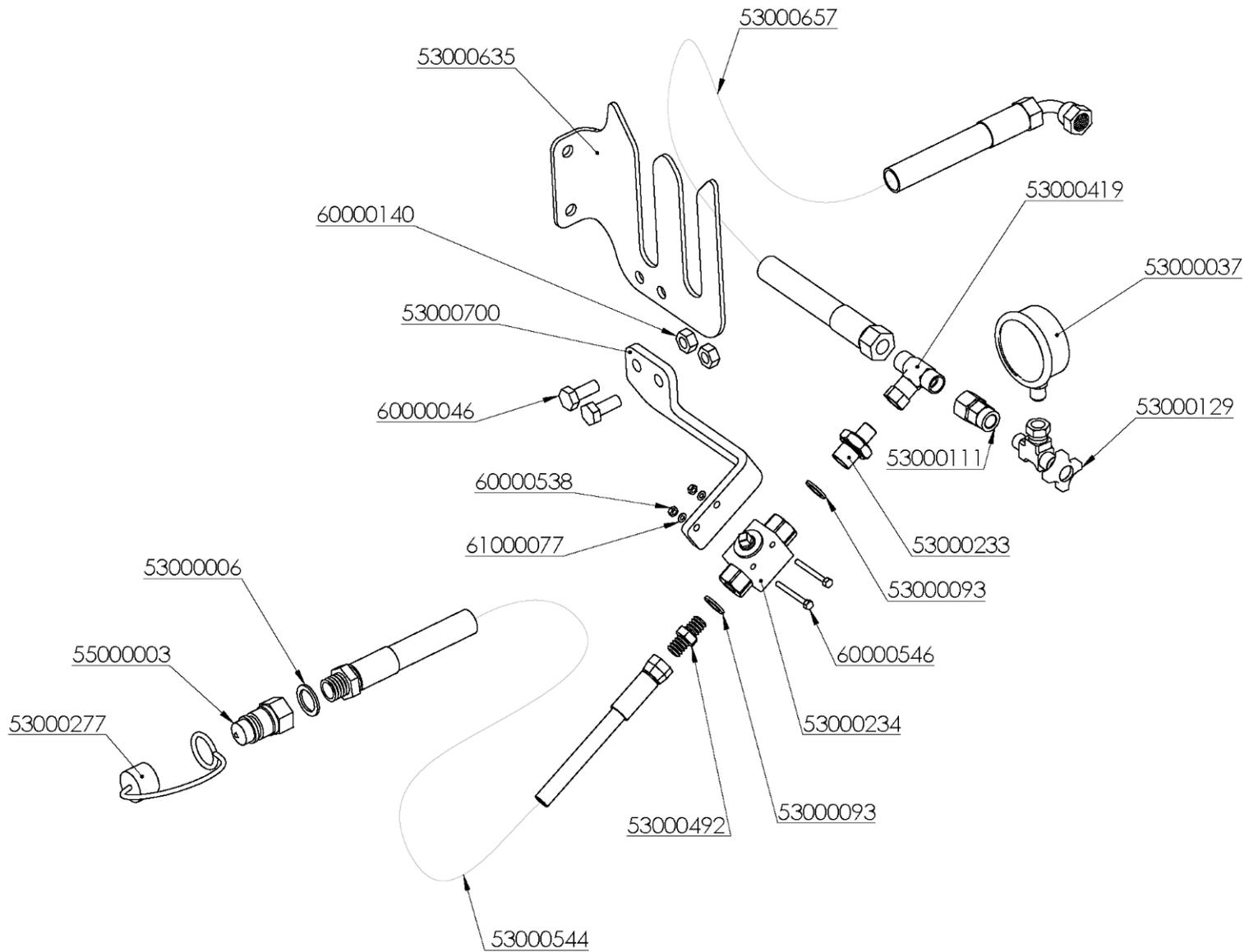


# HYDROPNEUMATIC SYSTEM

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
51000012	ACUMULADOR PISTON PO20A41N10 RAL-6029	53000063	ADAPTADOR M/H LOCA 3/8 4312
53000001	TORNILLO SIMPLE 3/8 4022	53000072	LATIG.R2-3/8*1800mm.OR-3/8/TL-18
53000006	JUNTA METAL/GOMA 1/2" 11603	53000091	TAPON MACHO 3/8 4152
53000007	JUNTA METAL/GOMA 3/8" 11602	53000093	JUNTA METAL GOMA 1/4 11601
53000013	CODO 90° M/H-3/8" 4292	53000227	LATIG.R2-3/8*1700mm.OR-3/8/TL-18
53000015	UNION MACHO 3/8 4062	53000234	VALV.ESFERA 2/2 1/4 GE2 DN6
53000024	CODO TUBO/TUBO 12mm. W12-L	53000235	UNION REDUCCION 1/4-3/8 4071
53000026	PLACA RFZO.AB.SIMPLE 20 DP3	53000236	UNION REDUCCION 1/4-1/2 4371
53000031	LATIG.R2-3/8*1300mm.OR-3/8/TL-18	53000237	LATIG.R2-3/8*1170mm.OR-3/8/TL-18
53000041	ABRAZ.SIMPLE D=19mm. 319PP	53000239	LATIG.R2-3/8* 420mm.TL-3/8/TL-18
53000042	LATIG.R2-3/8* 930mm.TL-18/TL-18	53000242	LATIG.R2-3/8*1020mm.TL-18/TL-18
53000043	LATIG.R2-3/8* 830mm.TL-18/TL-18	53000243	LATIG.R2-3/8*2000mm.OR-3/8/TL-18
53000044	LATIG.R2-3/8*1900mm.OR-3/8/TL-18	53000502	ABRAZ.ACUMULADOR 80/88 MPC
53000045	UNION REDUCCION 3/8-1/2 4072	53000657	LATIG.PREMIER-1/4*2390mm.CTL-3/8/TL-18
53000048	UNION MACHO BSP 3/8-12 GE12-L	60000015	TORN.EXAG.DIN-933 8* 25 8.8 ZINC.
53000051	REDUCTOR 1/2-3/8 4171	60000186	TORN.EXAG.DIN-931 6* 50 8.8 ZINC.
53000061	ESFERICO 3/8" TUBO 12mm.LARGO	96035900	SOP.TOMAS HIDRAULICAS



# CHARGING HOSE

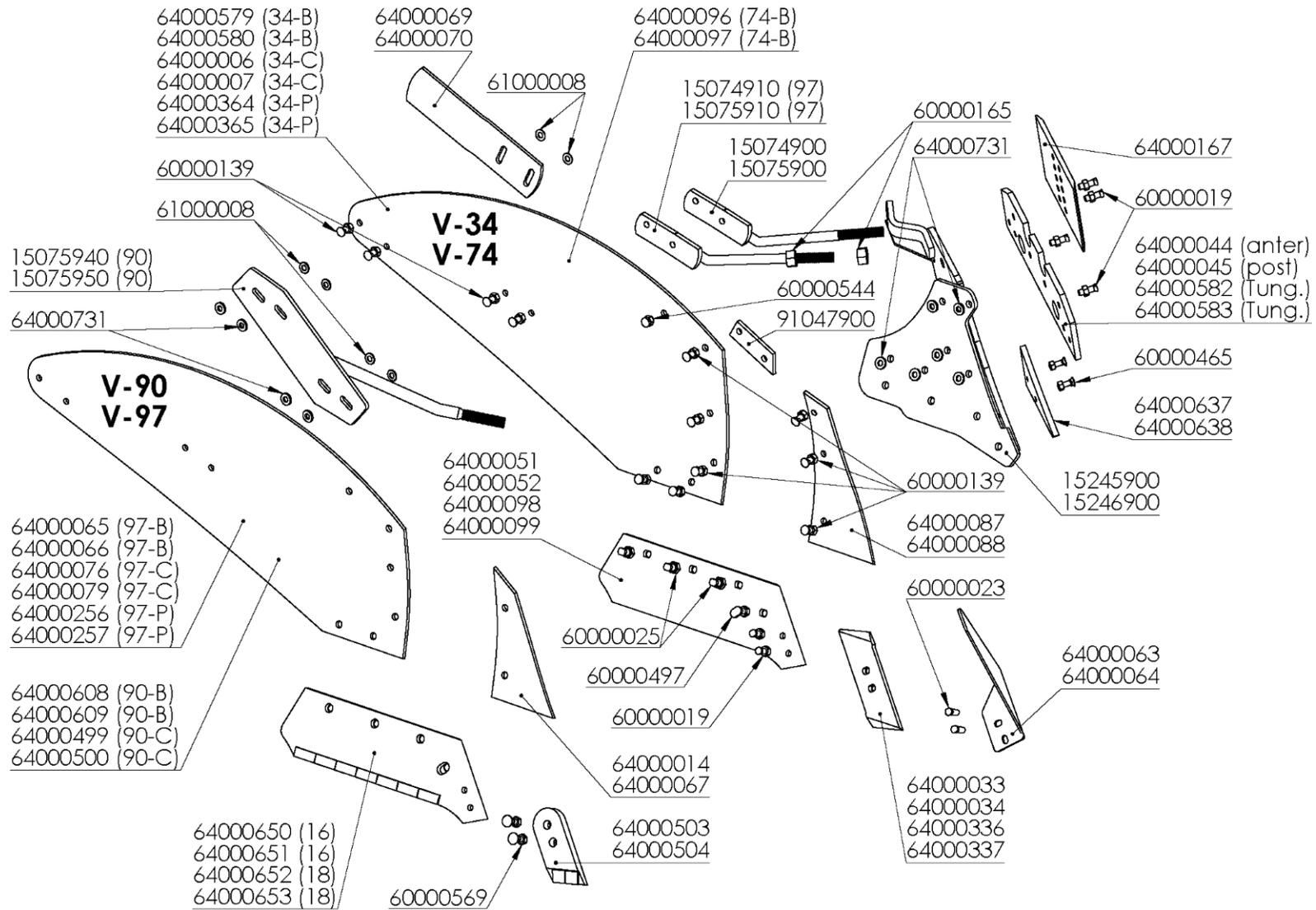


# CHARGING HOSE

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
53000006	JUNTA METAL/GOMA 1/2" 11603	53000544	LATIG.PREMIER-1/4*1200mm.MF-1/2/TL-1/4
53000037	MANOM.GLIC.63 0-315 (MOD.OVLAC) 263R0-315	53000635	SOPORTE LATIG.TORRETA 2 HUECOS XP ZINC.
53000093	JUNTA METAL GOMA 1/4 11601	53000657	LATIG.PREMIER-1/4*2390mm.CTL-3/8/TL-18
53000111	UNION HEMBRA MANOMETRO MAVE12-L	53000700	SOP.LATIG.DIRECTO SH
53000129	PROTECTOR MANOMETRO CODO 1/4 FT-291	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
53000233	UNION MACHO BSP 12-1/4 GE12-L1/4	60000046	TORN.EXAG.DIN-933 10* 25 8.8 ZINC.
53000234	VALV.ESFERA 2/2 1/4 GE2 DN6	60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.
53000277	PROTECTOR E.R.MACHO 1/2" AZUL 5029-4PB	60000538	TUER.AUTO.DIN-985 4 8.8 ZINC.
53000419	TE M/M C/TCA.LOCA CENTRAL 18x150 12L	60000546	TORN.EXAG.DIN-931 4* 45 8.8 ZINC.
53000492	UNION MACHO 1/4	61000077	ARAND.DIN-125 4 ZINC.



# BODIES V-97 V-34 V-90 V-74

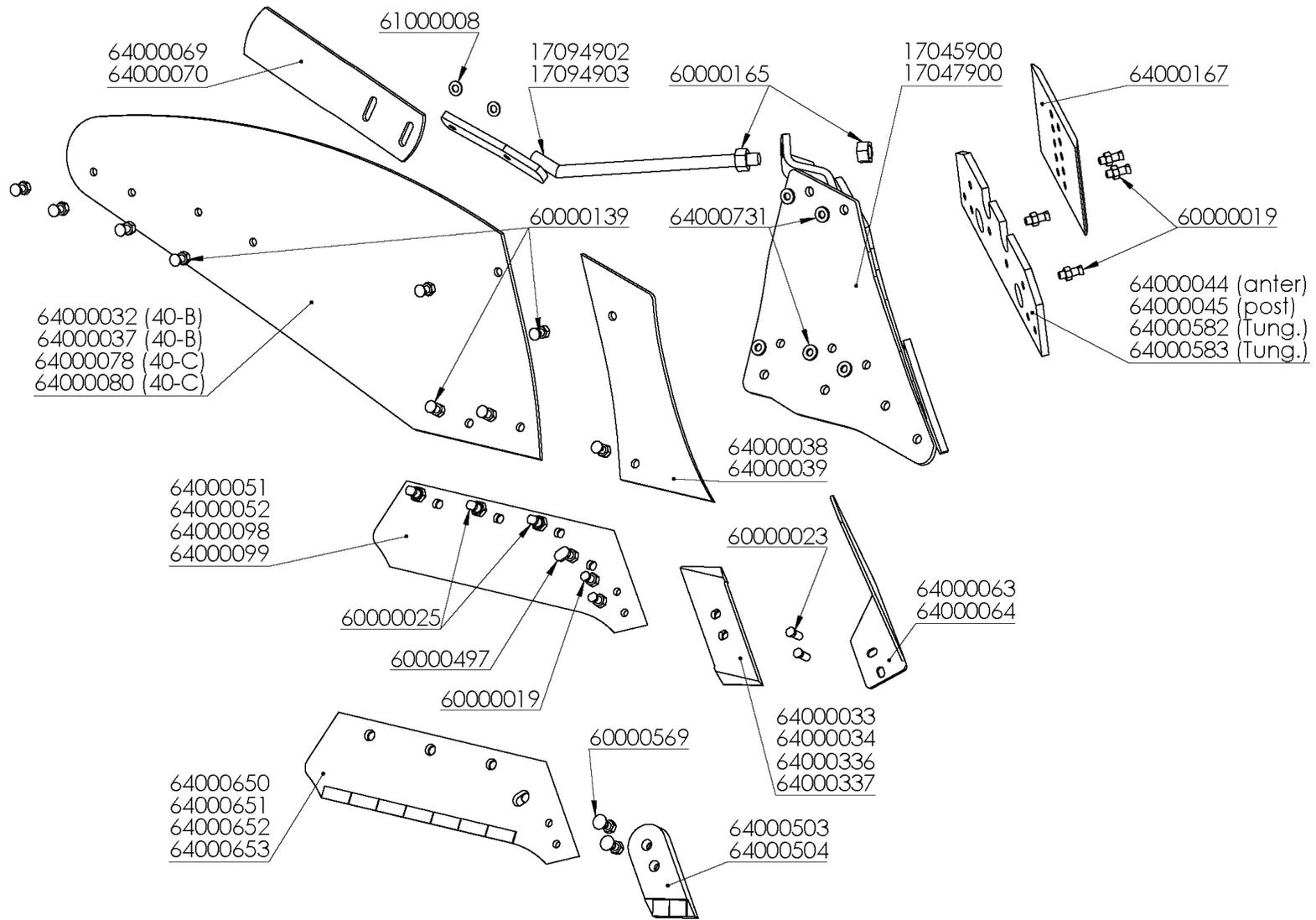


# BODIES V-97 V-34 V-90 V-74

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
15074900	TENSOR 1834 CORTO DCH.(D/04)	64000044	COSTANERA CORTA 2338-CAV-BAR	64000337	PUNTA REJA 1365-I 70x15mm.
15074910	TENSOR 1797 CORTO DCH.(D/04)	64000045	COSTANERA LARGA 2339-CAV-BAR	64000364	VERTEDERA PLASTIC.D A73290M (1834)
15075900	TENSOR 1834 CORTO IZQD.(D/04)	64000051	REJA 16"-D-CAV	64000365	VERTEDERA PLASTIC.I A73291M (1834)
15075910	TENSOR 1797 CORTO IZQD.(D/04)	64000052	REJA 16"-I-CAV	64000499	VERTEDERA CEMENT.1790-D-CAV (KV-28)
15075940	TENSOR 1790 DCH. (D/18)	64000063	CORTANTE 1464-D	64000500	VERTEDERA CEMENT.1790-I-CAV (KV-28)
15075950	TENSOR 1790 IZQ. (D/18)	64000064	CORTANTE 1464-I	64000503	PUNTA ARADO 1365-D (70x20) C/TUNGSTENO/
15245900	PORTA-REJAS DCH.1797/1834 (D/17)	64000065	VERTEDERA ENDURAX 1797-D-CAV	64000504	PUNTA ARADO 1365-I (70x20) C/TUNGSTENO/A
15246900	PORTA-REJAS IZQD.1797/1834 (D/17)	64000066	VERTEDERA ENDURAX 1797-I-CAV	64000579	VERTEDERA BORO 1834-D-CAV
60000019	TORN.ARADO C/OV/934 12*36 12.9	64000067	COMPLEMENTO BORO 1798-I-CAV	64000580	VERTEDERA BORO 1834-I-CAV
60000023	TORN.ARADO C/OV/934 12*42 12.9	64000069	COLA VERTEDERA 1829-D	64000582	COSTANERA CORTA 2338 C/APORTE
60000025	TORN.ARADO C/OV/934 14*35 12.9	64000070	COLA VERTEDERA 1829-I	64000583	COSTANERA LARGA 2339 C/APORTE
60000139	TORN.ARADO 2TET/934 12*35 8.8 ZINC.	64000076	VERTEDERA CEMENT.1797-D-CAV	64000608	VERTEDERA BORO 1790-D-CAV (KV-28)
60000165	TUER.EXAG.DIN-934 22 8.8 ZINC.	64000079	VERTEDERA CEMENT.1797-I-CAV	64000609	VERTEDERA BORO 1790-I-CAV (KV-28)
60000465	TORN.ARADO C/OV/934 10*33 12.9	64000087	COMPLEMENTO BORO 1849-D-CA	64000637	PUNTA COSTAN.D 1797/1834
60000497	TORN.ARADO C/OBL/934 14*34 12.9	64000088	COMPLEMENTO BORO 1849-I-CA	64000638	PUNTA COSTAN.I 1797/1834
60000544	TORN.ARADO 2TET/934 12*20 8.8 ZINC.	64000096	VERTEDERA BORO 1874-D-CAV	64000650	REJA ARADO KV-1434-16"-I C/TUNGSTENO Y AP
60000569	TORN.ARADO DIN-608/934 12*45 12.9	64000097	VERTEDERA BORO 1874-I-CAV	64000651	REJA ARADO KV-1434-16"-D C/TUNGSTENO Y AP
61000008	ARAND.DIN-125 12 ZINC. PASAR A 61000060	64000098	REJA 18"-D-CAV	64000652	REJA ARADO KV-1434-18"-I C/TUNGSTENO Y AP
64000006	VERTEDERA CEMENT.1834-D-CAV	64000099	REJA 18"-I-CAV	64000653	REJA ARADO KV-1434-18"-D C/TUNGSTENO Y AP
64000007	VERTEDERA CEMENT.1834-I-CAV	64000167	TALONERA 2357	64000731	ARAND.GOMA ADHESIVA M-12 REFORZADA
64000014	COMPLEMENTO BORO 1798-D-CAV	64000256	VERTEDERA PLASTIC.D A73286M (1797)	91047900	PLETINA UNION VERT./COMPL.1834
64000033	PUNTA REJA 1365-D 65x12mm.	64000257	VERTEDERA PLASTIC.I A73287M (1797)		
64000034	PUNTA REJA 1365-I 65x12mm.	64000336	PUNTA REJA 1365-D 70x15mm.		



# BODIES V-40

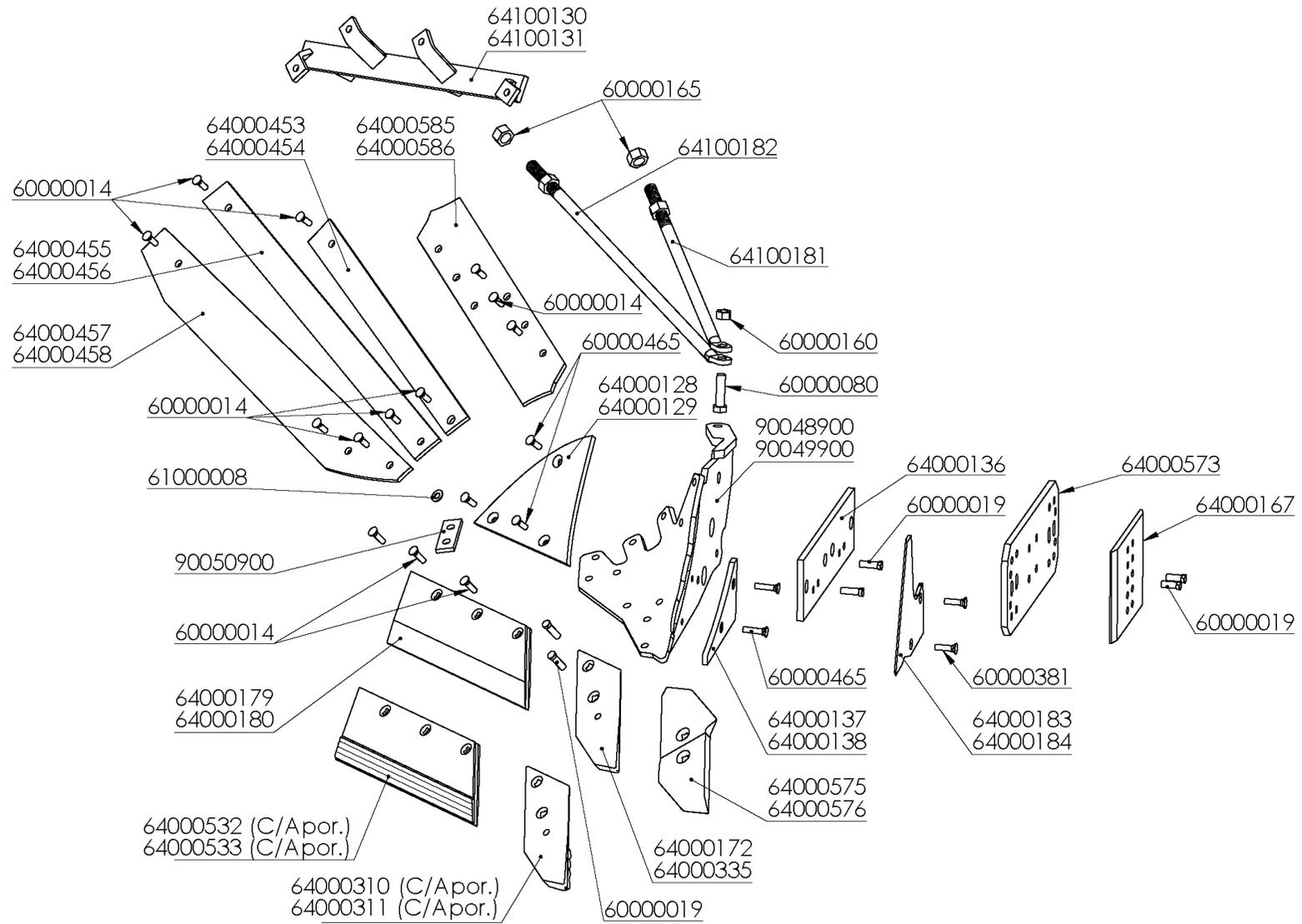


## BODIES V-40

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
17045900	PORTA-REJAS DCH.1840 (D/04)	64000063	CORTANTE 1464-D
17047900	PORTA-REJAS IZQ.1840 (D/04)	64000064	CORTANTE 1464-I
17094902	TENSOR 1840 CORTO DCH.(D/04)	64000069	COLA VERTEDERA 1829-D
17094903	TENSOR 1840 CORTO IZQD.(D/04)	64000070	COLA VERTEDERA 1829-I
60000019	TORN.ARADO C/OV/934 12*36 12.9	64000078	VERTEDERA CEMENT.1840-D-CAV
60000023	TORN.ARADO C/OV/934 12*42 12.9	64000080	VERTEDERA CEMENT.1840-I-CAV
60000025	TORN.ARADO C/OV/934 14*35 12.9	64000098	REJA 18"-D-CAV
60000139	TORN.ARADO 2TET/934 12*35 8.8 ZINC.	64000099	REJA 18"-I-CAV
60000165	TUER.EXAG.DIN-934 22 8.8 ZINC.	64000167	TALONERA 2357
60000497	TORN.ARADO C/OBL/934 14*34 12.9	64000336	PUNTA REJA 1365-D 70x15mm.
60000569	TORN.ARADO DIN-608/934 12*45 12.9	64000337	PUNTA REJA 1365-I 70x15mm.
61000008	ARAND.DIN-125 12 ZINC. PASAR A 61000060	64000503	PUNTA ARADO 1365-D (70x20) C/TUNGSTENO/APORTE
64000032	VERTEDERA BORO 1840-D-CAV	64000504	PUNTA ARADO 1365-I (70x20) C/TUNGSTENO/APORTE
64000033	PUNTA REJA 1365-D 65x12mm.	64000582	COSTANERA CORTA 2338 C/APORTE
64000034	PUNTA REJA 1365-I 65x12mm.	64000583	COSTANERA LARGA 2339 C/APORTE
64000038	COMPLEMENTO BORO 1839-D-CAV	64000650	REJA ARADO KV-1434-16"-I C/TUNGSTENO Y APORTE
64000039	COMPLEMENTO BORO 1839-I-CAV	64000651	REJA ARADO KV-1434-16"-D C/TUNGSTENO Y APORTE
64000044	COSTANERA CORTA 2338-CAV-BAR	64000652	REJA ARADO KV-1434-18"-I C/TUNGSTENO Y APORTE
64000045	COSTANERA LARGA 2339-CAV-BAR	64000653	REJA ARADO KV-1434-18"-D C/TUNGSTENO Y APORTE
64000051	REJA 16"-D-CAV	64000731	ARAND.GOMA ADHESIVA M-12 REFORZADA
64000052	REJA 16"-I-CAV		



# SLATTED BODY "OV"

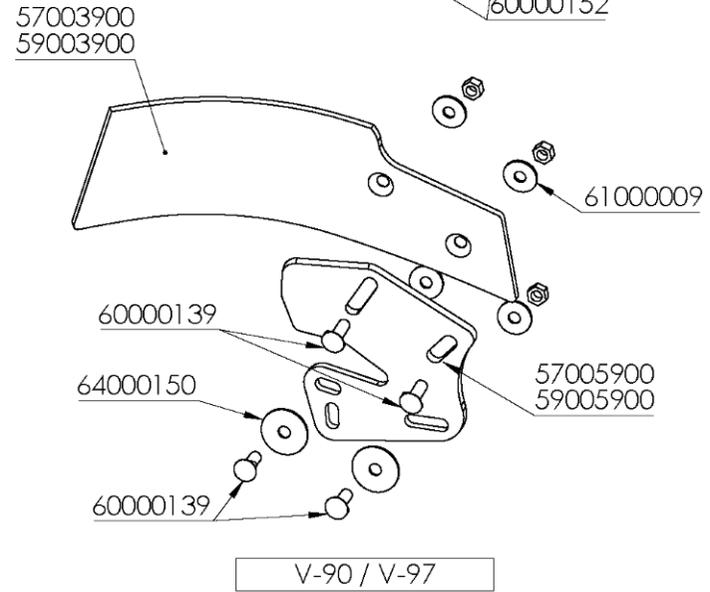
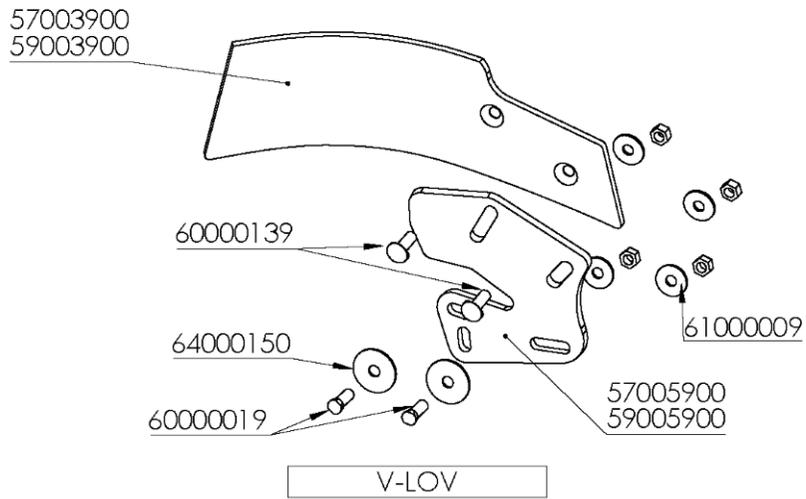
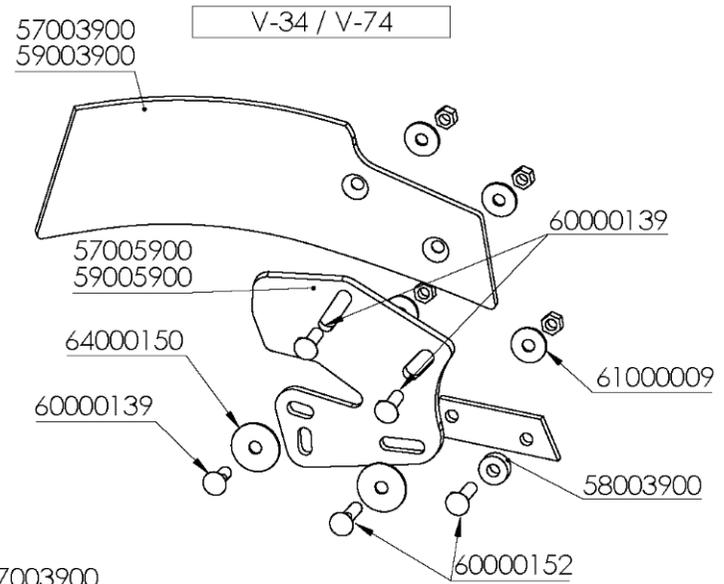
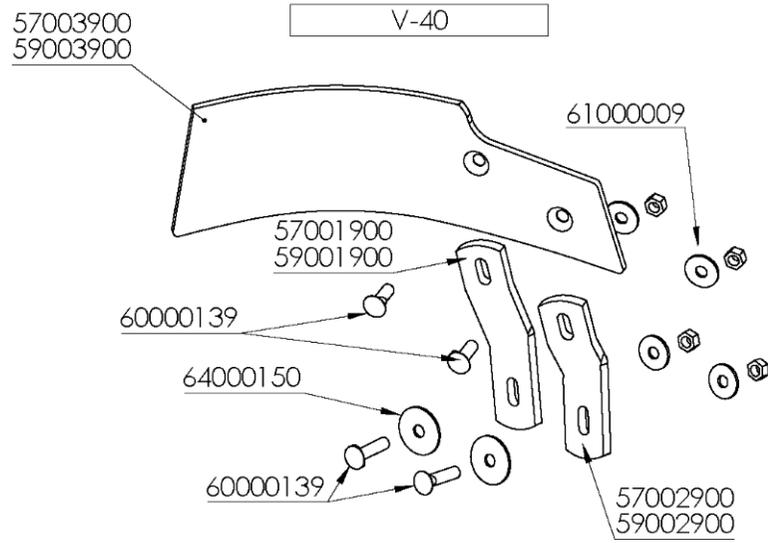


## SLATTED BODY "OV"

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
6000014	TORN.ARADO C/OV/934 12*33 12.9	64000335	PUNTA REJA I LOV 15mm.
6000019	TORN.ARADO C/OV/934 12*36 12.9	64000453	LAMINA 2-D (D/09-11)
6000080	TORN.EXAG.DIN-931 16* 60 8.8 ZINC.	64000454	LAMINA 2-I (D/09-11)
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	64000455	LAMINA 3-D (D/09-11)
60000165	TUER.EXAG.DIN-934 22 8.8 ZINC.	64000456	LAMINA 3-I (D/09-11)
60000381	TORN.ARADO DIN-608/934 10*40 8.8	64000457	LAMINA 4-D (D/09-11)
60000465	TORN.ARADO C/OV/934 10*33 12.9	64000458	LAMINA 4-I (D/09-11)
61000008	ARAND.DIN-125 12 ZINC. PASAR A 61000060	64000532	REJA 20"D LOV C/APORTE
64000128	COMPLEMENTO D LOV	64000533	REJA 20"I LOV C/APORTE
64000129	COMPLEMENTO I LOV	64000573	COSTANERA XL D/I LOV
64000136	COSTANERA D/I LOV	64000575	PUNTA REJA D LOV REVERS.
64000137	PUNTA COSTAN.D LOV	64000576	PUNTA REJA I LOV REVERS.
64000138	PUNTA COSTAN.I LOV	64000585	LAMINA 1-D-XL REVERS.
64000167	TALONERA 2357	64000586	LAMINA 1-I-XL REVERS.
64000172	PUNTA REJA D LOV 15mm.	64100130	SOP.TENSOR D LOV RFZD.
64000179	REJA 20"D LOV	64100131	SOP.TENSOR I LOV RFZD.
64000180	REJA 20"I LOV	64100181	TENSOR CORTO RFZD.LOV
64000183	CORTANTE D-LK 3492890	64100182	TENSOR LARGO RFZD.LOV
64000184	CORTANTE I-LK 3492891	90048900	PORTA-REJAS DCH.LOV
64000310	PUNTA REJA D LOV 15mm.C/APORTE	90049900	PORTA-REJAS IZQD.LOV
64000311	PUNTA REJA I LOV 15mm.C/APORTE	90050900	PLETINA UNION VERT-REJA LOV



# TRASHBOARDS

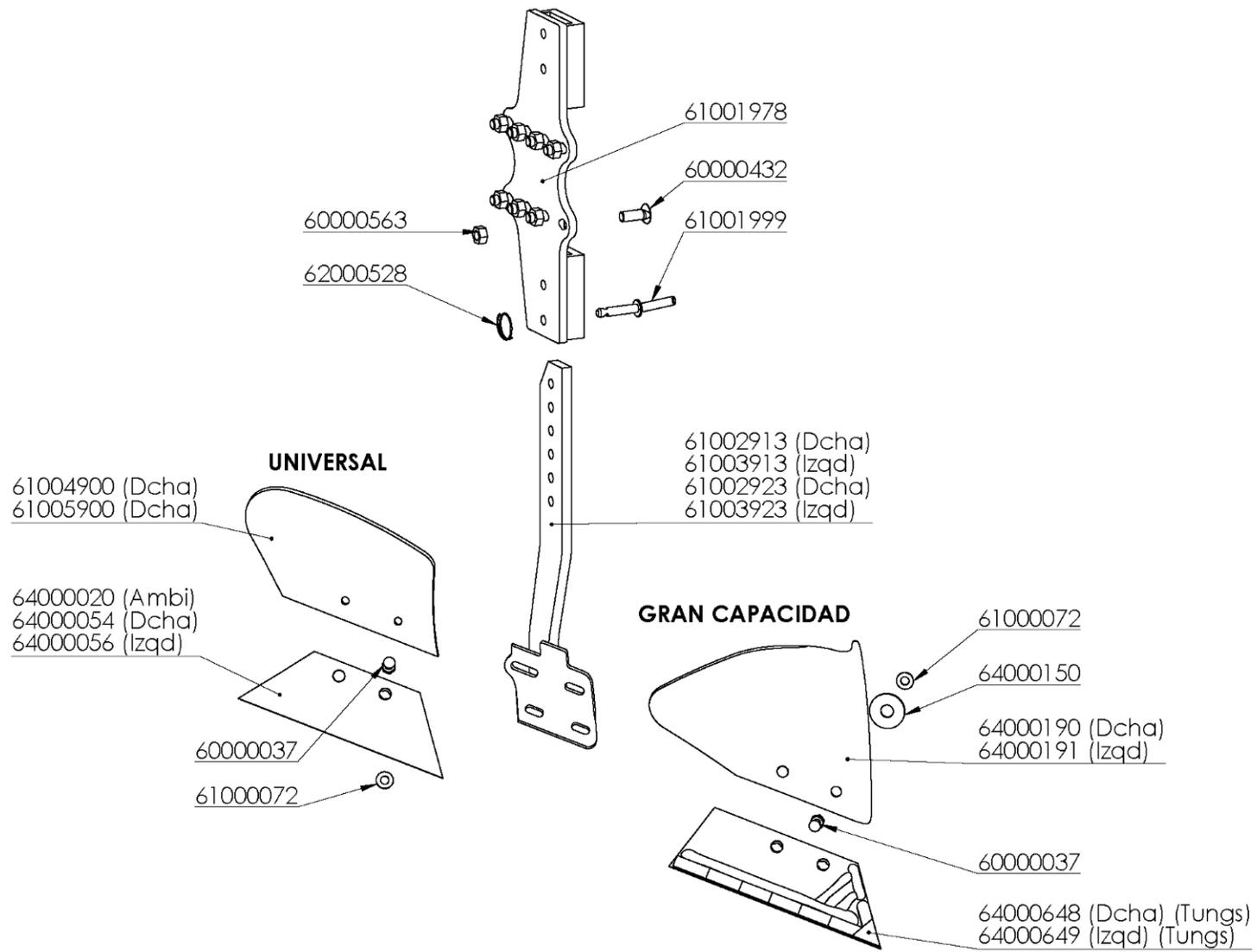


# TRASHBOARDS

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
57001900	SOP.POST.DCH.C.R.1840/V-LK	59003900	DEFLECTOR BORO 1856-I-CAV
57002900	SOP.ANTER.DCH.C.R.1840/POST.DCH.1701	59005900	SOPORTE C.R. IZQ.(1797-1834-VLAM)
57003900	DEFLECTOR BORO 1856-D-CAV	60000019	TORN.ARADO C/OV/934 12*36 12.9
57005900	SOPORTE C.R. DCH.(1797-1834-VLAM)	60000139	TORN.ARADO 2TET/934 12*35 8.8 ZINC.
58003900	CASQ.D= 30/13*12mm.SEP.SOP.C.R.1834 ZINC.	60000152	TORN.ARADO 2TET/934 12*45 8.8 ZINC.
59001900	SOP.POST.IZQD.C.R.1840/V-LK	61000009	ARAND.DIN-9021 12 ZINC.
59002900	SOP.ANTER.IZQD.C.R.1840/POST.IZQD.1701	64000150	ARAND.GOMA ADHESIVA M-12



# SHEARBOLT SKIMMERS

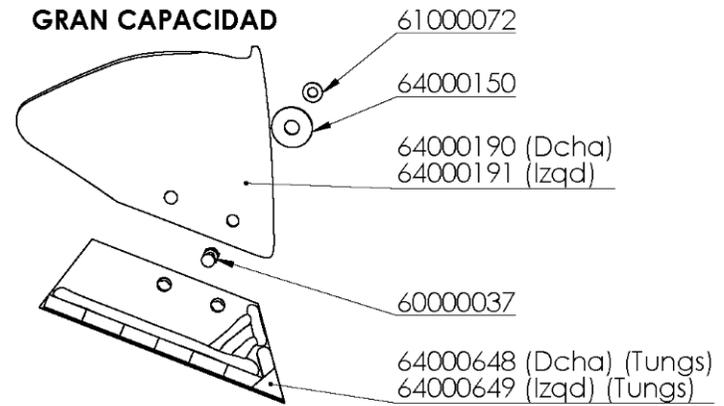
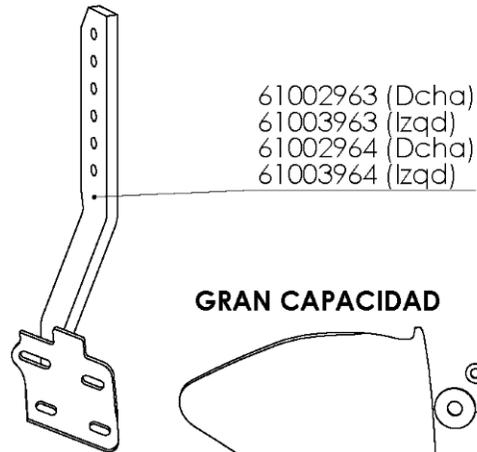
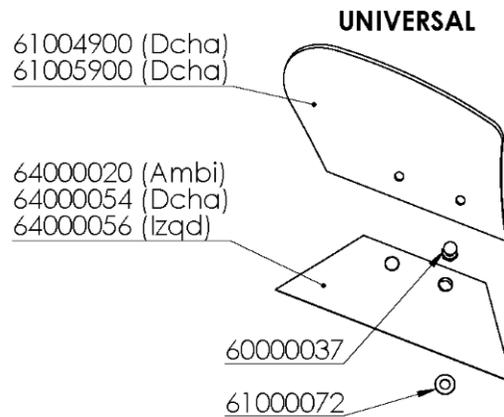
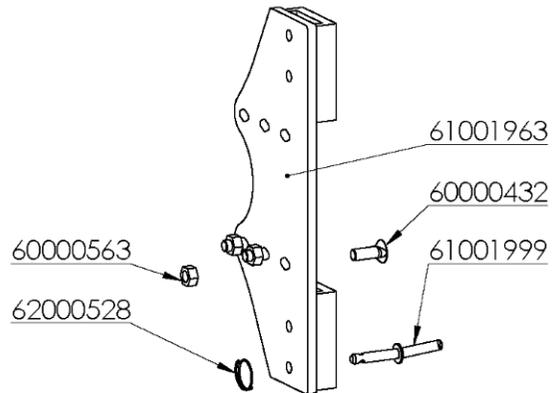
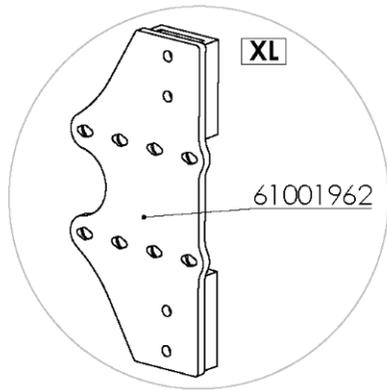


# SHEARBOLT SKIMMERS

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000037	TORN.ARADO 2TET/934 10*35 10.9 ZINC.	61005900	RASETA UNIV.1855-I-CAV
60000432	TORN.ARADO 2TET/934 14*40 10.9 ZINC.	62000528	ANILLA PASADOR INOX-36x3 1,5V LUZ 5mm.
60000563	TUER.AUTO.DIN-980 14 10.9 ZINC. CON SOBREGOLPE	64000020	REJA RASETA AMBIDEXTRA
61000072	ARAND.DIN-125 300HV 10 ZINC.	64000054	REJA RASETA 1394-D-CAV
61001978	SOP.RASETAS SN D/70-76-86cm.(D/13)	64000056	REJA RASETA 1394-I-CAV
61001999	BULON D=12*120mm. REG.RASETAS	64000150	ARAND.GOMA ADHESIVA M-12
61002913	BRAZO RASETA DCH.SN (D/13-AG)	64000190	RASETA 1705-D-CAV BORO
61002923	BRAZO RASETA DCH.SN 86cm.(D/13-AG)	64000191	RASETA 1705-I-CAV BORO
61003913	BRAZO RASETA IZQD.SN (D/13-AG)	64000648	REJA RASETA DCHA.C/TUNGSTENO Y APORTE
61003923	BRAZO RASETA IZQD.SN 86cm.(D/13-AG)	64000649	REJA RASETA IZQD.C/TUNGSTENO Y APORTE
61004900	RASETA UNIV.1855-D-CAV		



# NON-STOP SKIMMERS

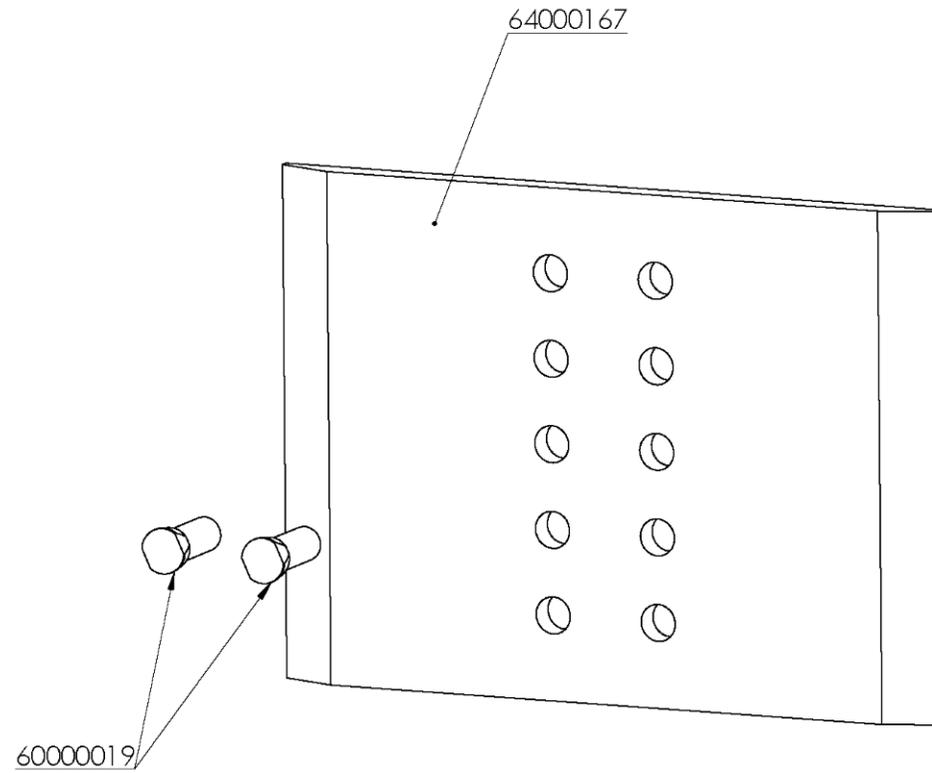


## NON-STOP SKIMMERS

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000037	TORN.ARADO 2TET/934 10*35 10.9 ZINC.	61004900	RASETA UNIV.1855-D-CAV
60000432	TORN.ARADO 2TET/934 14*40 10.9 ZINC.	61005900	RASETA UNIV.1855-I-CAV
60000563	TUER.AUTO.DIN-980 14 10.9 ZINC. CON SOBREGOLPE	62000528	ANILLA PASADOR INOX-36x3 1,5V LUZ 5mm.
61000072	ARAND.DIN-125 300HV 10 ZINC.	64000020	REJA RASETA AMBIDEXTRA
61001962	SOP.RASETAS LVH D/76 (D/13)	64000054	REJA RASETA 1394-D-CAV
61001963	SOP.RASETAS SBHN D/76cm.(D/13)	64000056	REJA RASETA 1394-I-CAV
61001999	BULON D=12*120mm. REG.RASETAS	64000150	ARAND.GOMA ADHESIVA M-12
61002963	BRAZO RASETA SB/H-LVB/H DCH.(D/13-AG)	64000190	RASETA 1705-D-CAV BORO
61002964	BRAZO RASETA SB/H-LVB/H DCH.(LARGO-AG)	64000191	RASETA 1705-I-CAV BORO
61003963	BRAZO RASETA SB/H-LVB/H IZQD.(D/13-AG)	64000648	REJA RASETA DCHA.C/TUNGSTENO Y APORTE
61003964	BRAZO RASETA SB/H-LVB/H IZQD.(LARGO-AG)	64000649	REJA RASETA IZQD.C/TUNGSTENO Y APORTE



# LANDSLIDE EXTENSION

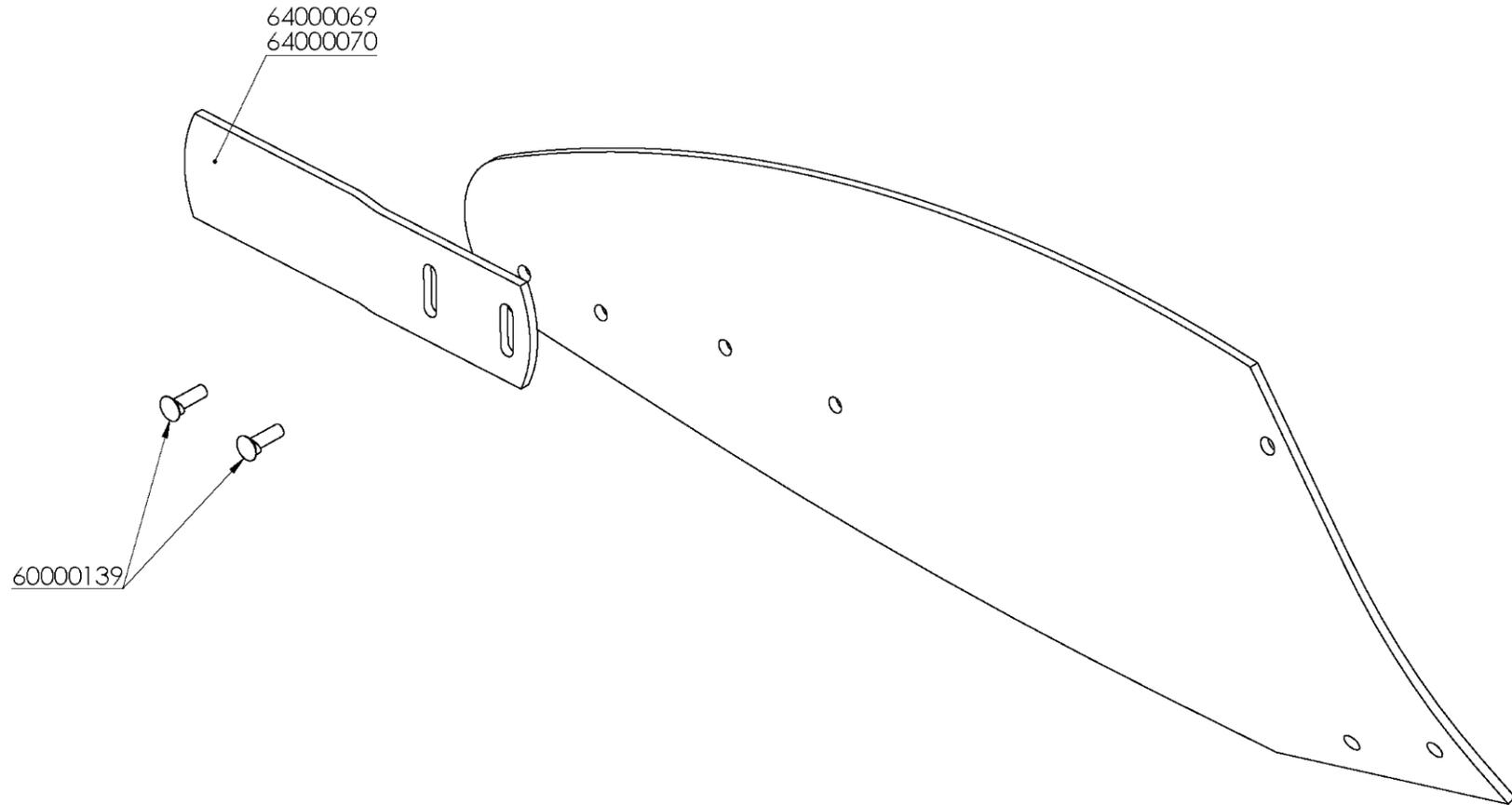


# LANDSLIDE EXTENSION

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
64000167	TALONERA 2357	60000019	TORN.ARADO C/OV/934 12*36 12.9



# MOULDBOARD TAIL SUPPLEMENT

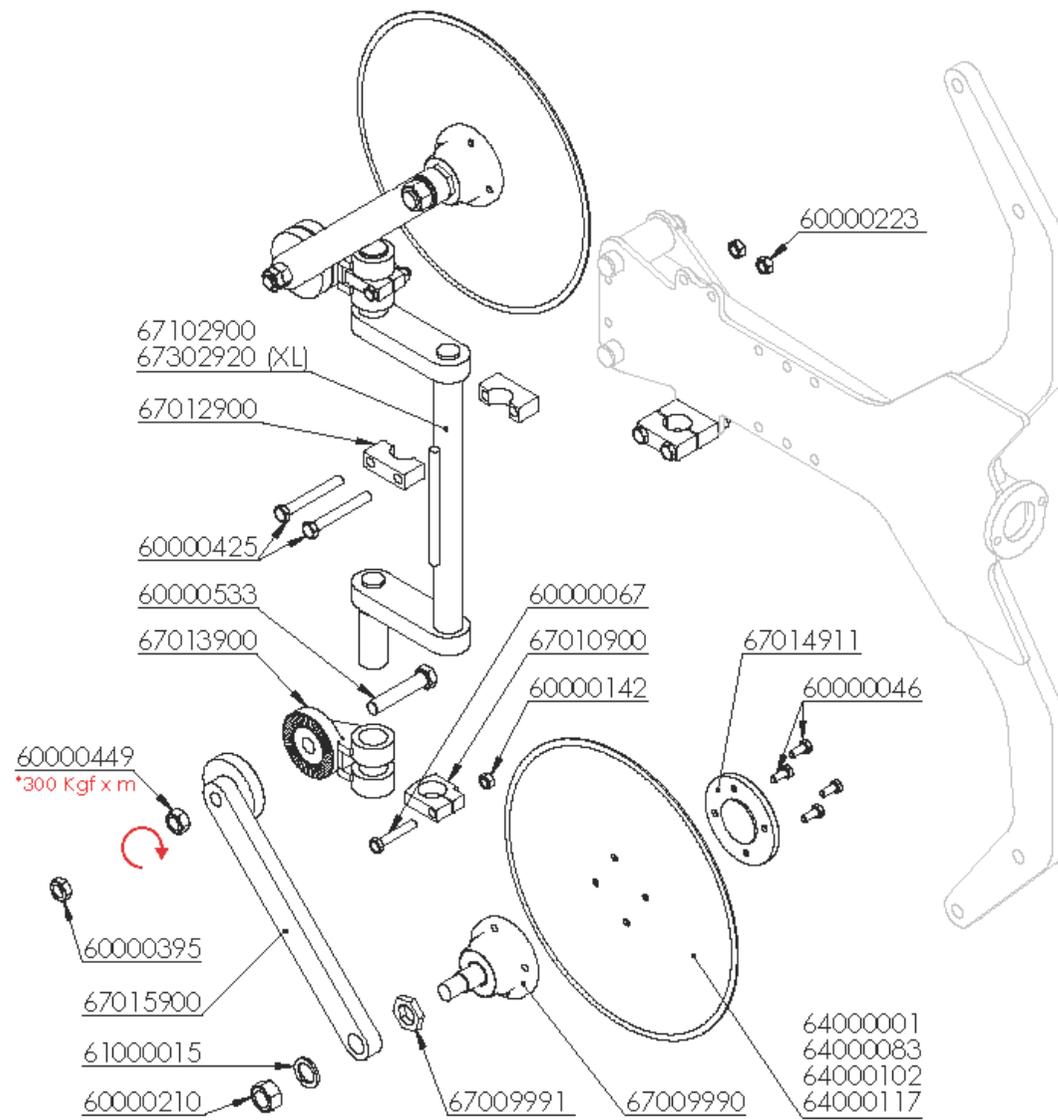


## MOULDBOARD TAIL SUPPLEMENT

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000139	TORN.ARADO 2TET/934 12*35 8.8 ZINC.	64000070	COLA VERTEDERA 1829-I
64000069	COLA VERTEDERA 1829-D		



# DISCS H

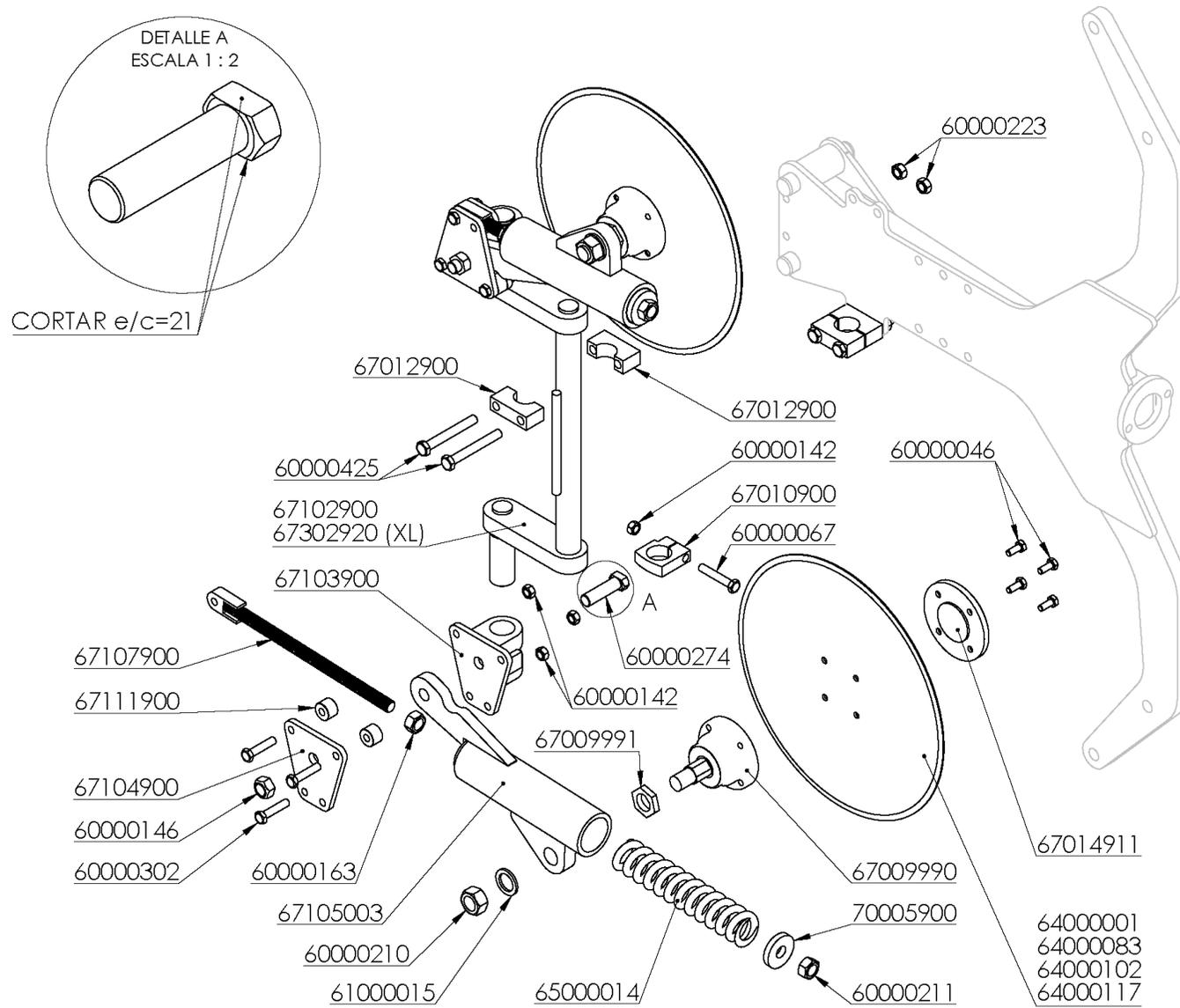


## DISCS H

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000046	TORN.EXAG.DIN-933 10* 25 8.8 ZINC.	64000102	DISCO PLANO LISO ARADO 1983-20" 5mm.R-68
60000067	TORN.EXAG.DIN-931 12* 70 8.8 ZINC.	64000117	DISCO PLANO MUESC.ARADO 1983-20" 5mm.R-68
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	67009990	CONJ.BUJE + EJE DISCOS 20" (D/16)
60000210	TUER.AUTO.DIN-985 1" SAE 8.8 ZN.	67009991	ARANDELA FRENO BUJE DISCOS
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.	67010900	ABRAZ.REGULACION ZINCADA
60000395	TUER.AUTO.DIN-980 20 8.8 BAJA ZINC.	67012900	ABRAZ.PRISION ZINC.
60000425	TORN.EXAG.DIN-931 14*110 10.9 ZINC.	67013900	SOP.GIRO DISCOS 20"
60000449	TUER.EXAG.DIN-934 20 8.8 ZINC.	67014911	TAPA DISCOS (D/22)
60000533	TORN.EXAG.C/LAR. 20*100 10.9 ZN.	67015900	BRAZO DISCOS 20"
61000015	ARAND.DIN-125-B 30 ZINC.	67102900	MANIVELA DISCO SB/SH
64000001	DISCO PLANO LISO ARADO 1983-18" 5mm.R-68	67302920	MANIVELA LVB/H
64000083	DISCO PLANO MUESC.ARADO 1983-18" 5mm.R-68		



# DISCS NON-STOP H

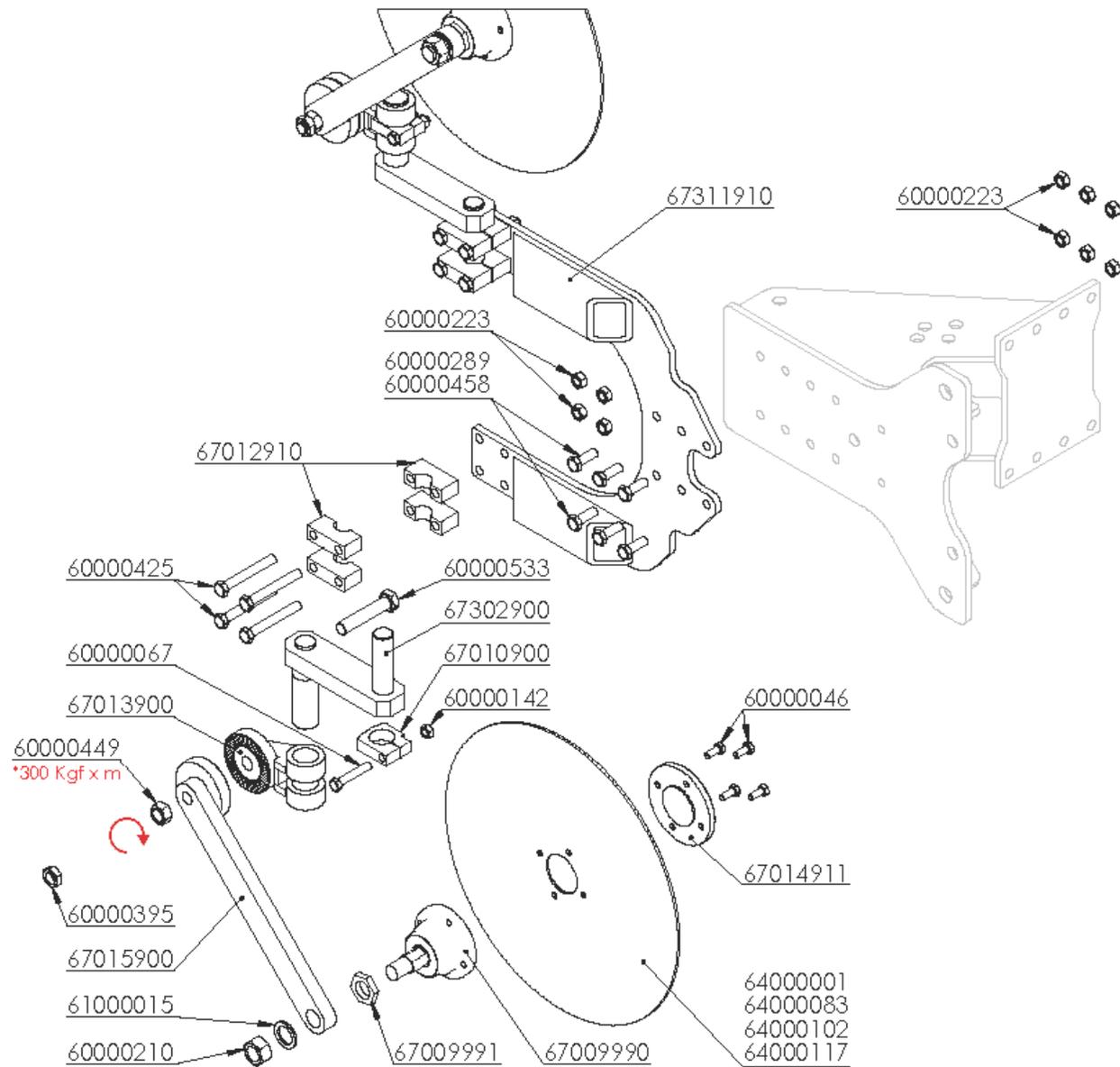


## DISCS NON-STOP H

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000046	TORN.EXAG.DIN-933 10* 25 8.8 ZINC.	64000117	DISCO PLANO MUESC.ARADO 1983-20" 5mm.R-68
60000067	TORN.EXAG.DIN-931 12* 70 8.8 ZINC.	65000014	MUELLE COMPR.CILIN.275*57*12 LUZ-5
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	67009990	CONJ.BUJE + EJE DISCOS 20" (D/16)
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE	67009991	ARANDELA FRENO BUJE DISCOS
60000163	TUER.EXAG.DIN-934 20 8.8	67010900	ABRAZ.REGULACION ZINCADA
60000210	TUER.AUTO.DIN-985 1" SAE 8.8 ZN.	67012900	ABRAZ.PRISION ZINC.
60000211	TUER.AUTO.DIN-985 20 8.8 ZINC.	67014911	TAPA DISCOS (D/22)
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.	67102900	MANIVELA DISCO SB/SH
60000274	TORN.EXAG.DIN-931 20* 70 8.8 ZINC.	67103900	GIRO DISCOS NON-STOP
60000302	TORN.EXAG.DIN-931 12* 55 8.8	67104900	PLACA SOP.GIRO DISCOS NON-STOP
60000425	TORN.EXAG.DIN-931 14*110 10.9 ZINC.	67105003	TUBO BRAZO DISCOS NON-STOP
61000015	ARAND.DIN-125-B 30 ZINC.	67107900	CORREDERA MUELLE DISCOS NON-STOP
64000001	DISCO PLANO LISO ARADO 1983-18" 5mm.R-68	67111900	CASQ.D= 30/12,5*21mm.SEP.SOP.DISCOS NON-STOP
64000083	DISCO PLANO MUESC.ARADO 1983-18" 5mm.R-68	67302920	MANIVELA LVB/H
64000102	DISCO PLANO LISO ARADO 1983-20" 5mm.R-68	70005900	ARAND.RFZO.D= 58*21 E-9,5mm.



# DISCS F

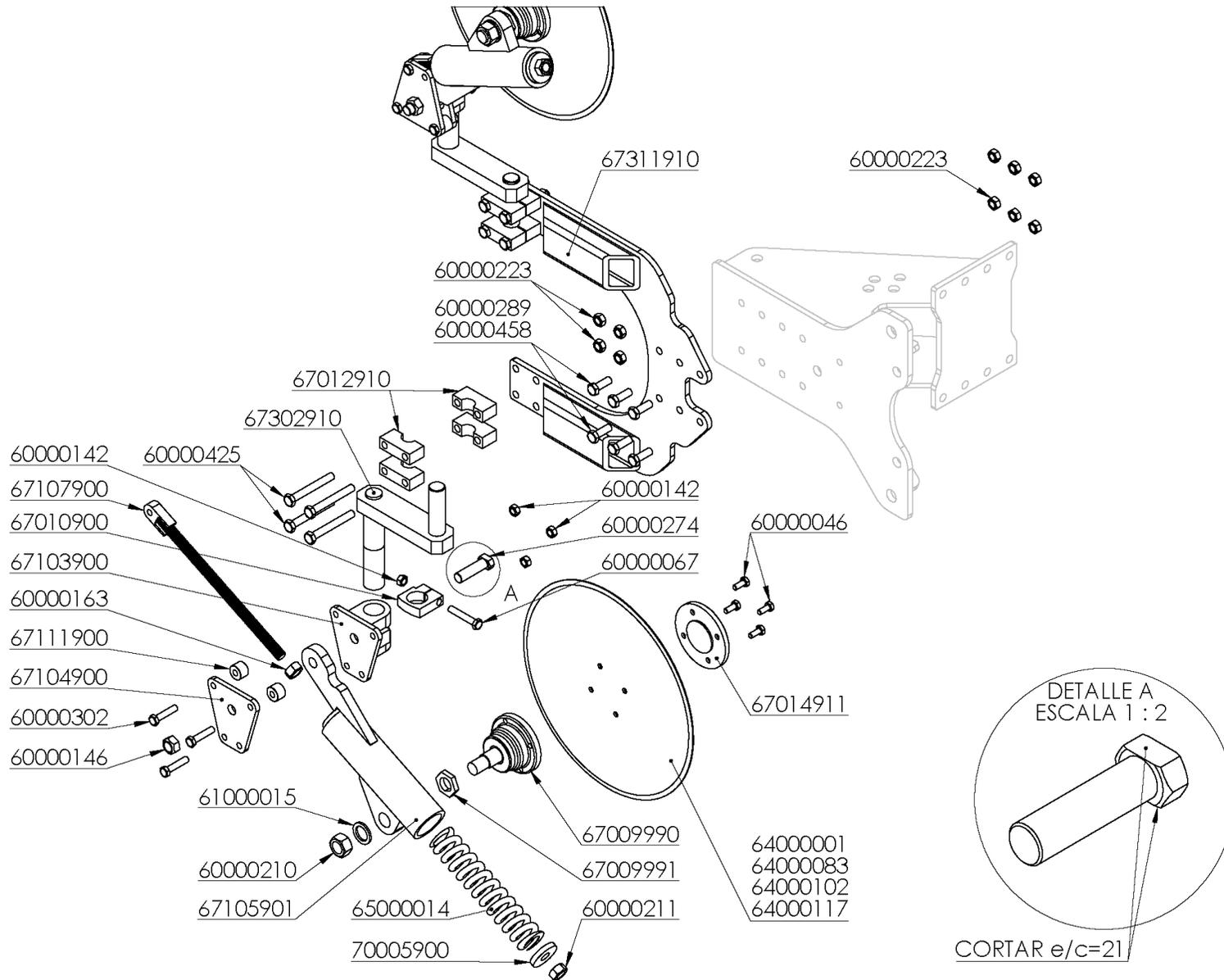


# DISCS F

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000046	TORN.EXAG.DIN-933 10* 25 8.8 ZINC.	64000083	DISCO PLANO MUESC.ARADO 1983-18" 5mm.R-68
60000067	TORN.EXAG.DIN-931 12* 70 8.8 ZINC.	64000102	DISCO PLANO LISO ARADO 1983-20" 5mm.R-68
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	64000117	DISCO PLANO MUESC.ARADO 1983-20" 5mm.R-68
60000210	TUER.AUTO.DIN-985 1" SAE 14H 8.8 ZN.	67009990	CONJ.BUJE + EJE DISCOS 20" (D/16)
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.	67009991	ARANDELA FRENO BUJE DISCOS
60000289	TORN.EXAG.DIN-931 14*40 12.9 DACROMET	67010900	ABRAZ.REGULACION ZINCADA
60000395	TUER.AUTO.DIN-980 20 8.8 BAJA ZINC.	67012910	ABRAZ.PRISION D=32
60000425	TORN.EXAG.DIN-931 14*110 10.9 ZINC.	67013900	SOP.GIRO DISCOS 20"
60000449	TUER.EXAG.DIN-934 20 8.8 ZINC.	67014911	TAPA DISCOS (D/22)
60000458	TORN.ARADO 2TET 14*55 10.9 ZINC.	67015900	BRAZO DISCOS 20"
60000533	TORN.EXAG.C/LAR. 20*100 10.9 ZN.	67302900	SEMI-MANIVELA CORTA
61000015	ARAND.DIN-125-B 30 ZINC.	67311910	SOP.DISCOS SFN (D/10)
64000001	DISCO PLANO LISO ARADO 1983-18" 5mm.R-68		



# DISCS NON-STOP F

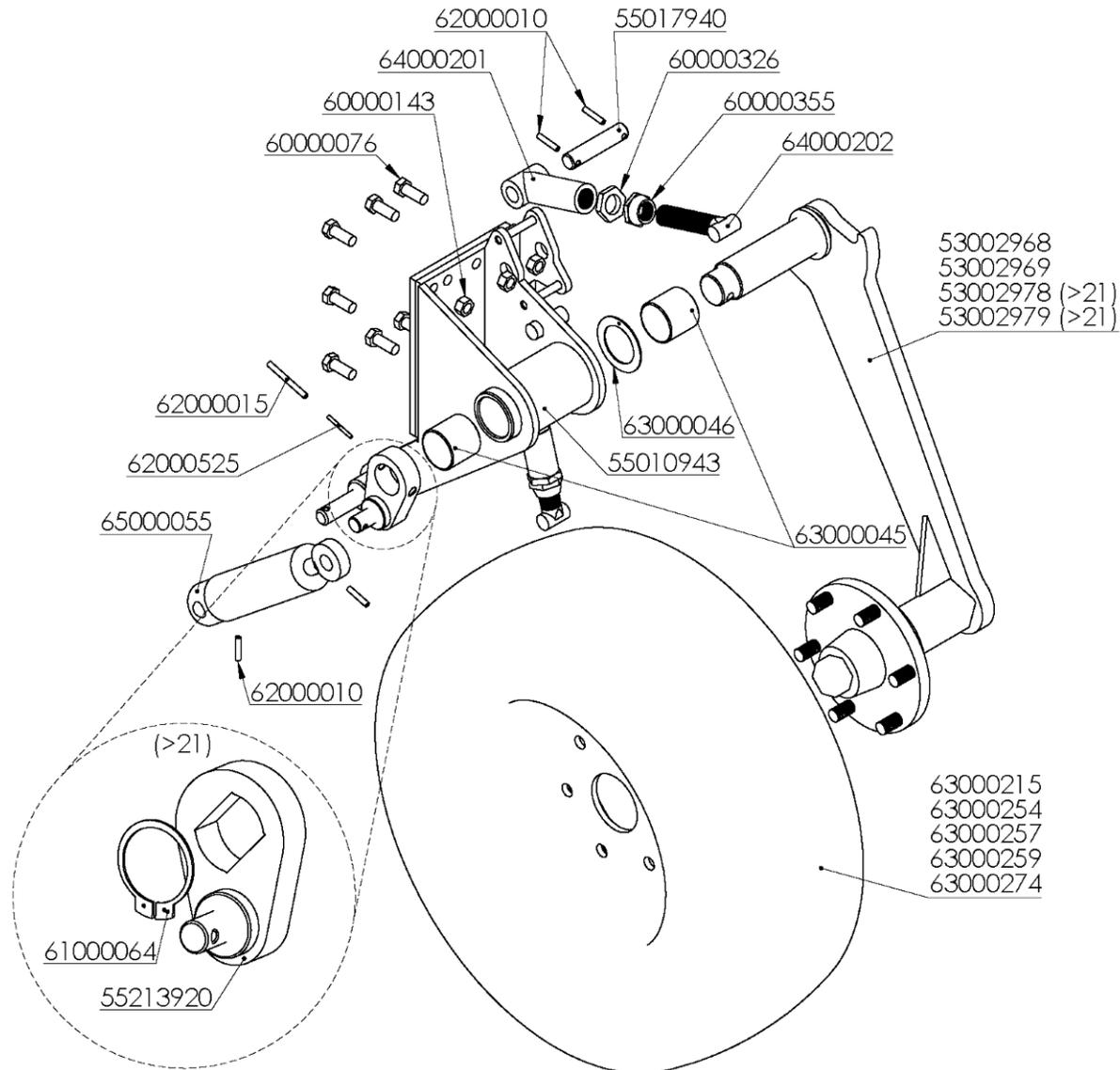


## DISCS NON-STOP F

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000046	TORN.EXAG.DIN-933 10* 25 8.8 ZINC.	64000102	DISCO PLANO LISO ARADO 1983-20" 5mm.R-68
60000067	TORN.EXAG.DIN-931 12* 70 8.8 ZINC.	64000117	DISCO PLANO MUESC.ARADO 1983-20" 5mm.R-68
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	65000014	MUELLE COMPR.CILIN.275*57*12 LUZ-5
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE	67009990	CONJ.BUJE + EJE DISCOS 20" (D/16)
60000163	TUER.EXAG.DIN-934 20 8.8	67009991	ARANDELA FRENO BUJE DISCOS
60000210	TUER.AUTO.DIN-985 1" SAE 14H 8.8 ZN.	67010900	ABRAZ.REGULACION ZINCADA
60000211	TUER.AUTO.DIN-985 20 8.8 ZINC.	67012910	ABRAZ.PRISION D=32
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.	67014911	TAPA DISCOS (D/22)
60000274	TORN.EXAG.DIN-931 20* 70 8.8 ZINC.	67103900	GIRO DISCOS NON-STOP
60000289	TORN.EXAG.DIN-931 14*40 12.9 DACROMET	67104900	PLACA SOP.GIRO DISCOS NON-STOP
60000302	TORN.EXAG.DIN-931 12* 55 8.8	67105901	BRAZO DISCOS NON-STOP (D/16)
60000425	TORN.EXAG.DIN-931 14*110 10.9 ZINC.	67107900	CORREDERA MUELLE DISCOS NON-STOP
60000458	TORN.ARADO 2TET 14*55 10.9 ZINC.	67111900	CASQ.D= 30/12,5*21mm.SEP.SOP.DISCOS NON-STOP
61000015	ARAND.DIN-125-B 30 ZINC.	67302910	SEMI-MANIVELA LARGA
64000001	DISCO PLANO LISO ARADO 1983-18" 5mm.R-68	67311910	SOP.DISCOS SFN (D/10)
64000083	DISCO PLANO MUESC.ARADO 1983-18" 5mm.R-68	70005900	ARAND.RFZO.D= 58*21 E-9,5mm.



# REAR CONTROL WHEEL

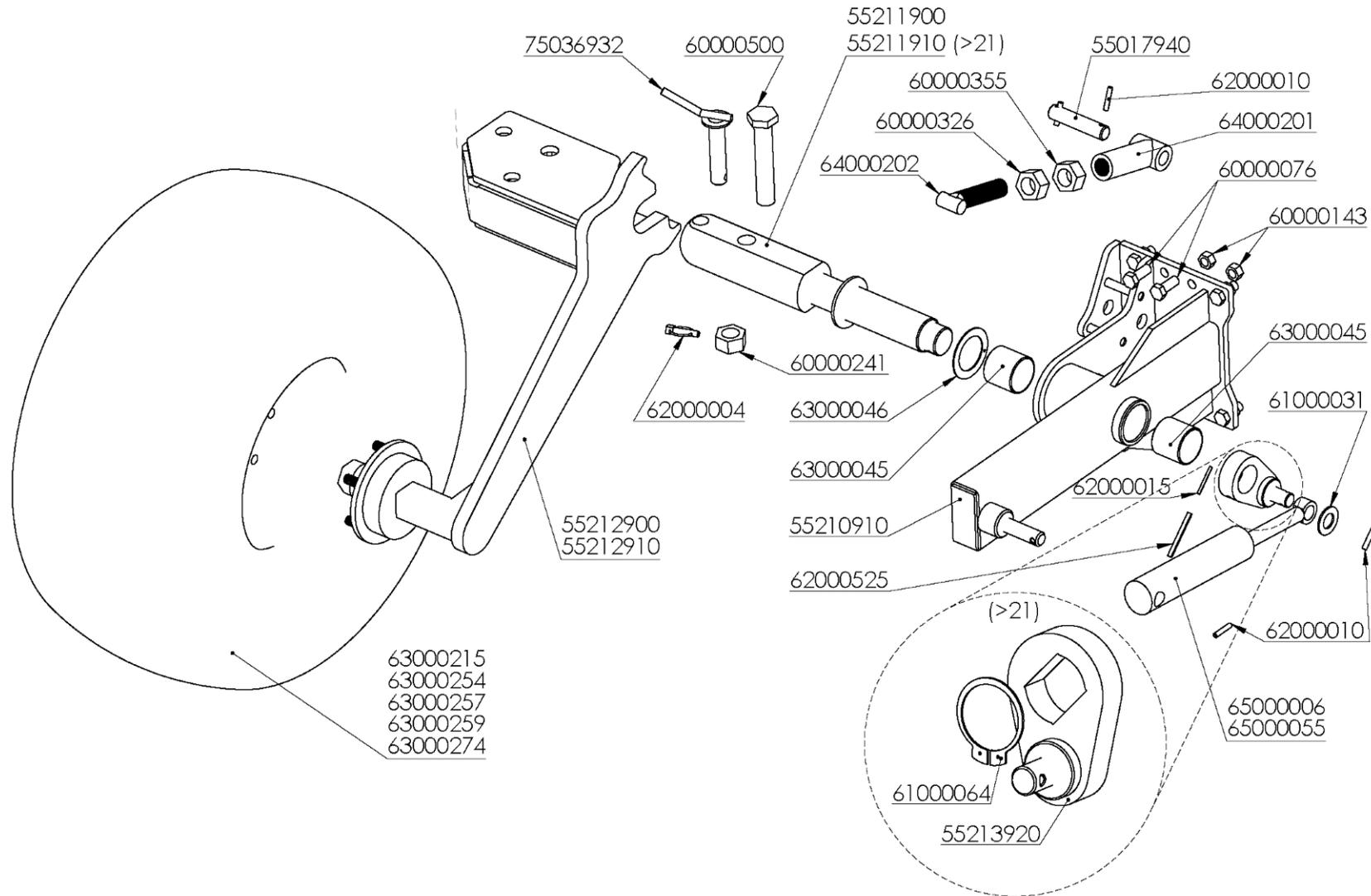


## REAR CONTROL WHEEL

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
53002968	BRAZO RDA.NEUM CONTROL TRASERA-9 (340/55) - PASAR	62000015	PASADOR ELAST.DIN-1481 8* 80 ZINC.
53002969	BRAZO RDA.NEUM CONTROL TRASERA-5/6/7 - PASAR A 530	62000525	PASADOR ELAST.DIN-1481 14* 80
53002978	BRAZO RDA.NEUM CONTROL TRASERA 6 ESPARRAGOS	63000045	CASQ.FRICCION PAP 6060 P10
53002979	BRAZO RDA.NEUM CONTROL TRASERA 5 ESPARRAGOS	63000046	DISCO FRICCION PAW 62 P10
55010943	SOP.RDA.CONTROL-9 (D/20)	63000215	R.N.C/ATAQUE 320/60-12 132A8 421TT
55017940	BULON D=25*116mm.TOPE RDA.C/T	63000254	R.N.C/ATAQUE 340/55-16" 13.0/55 TL 18PR AW702
55213920	EXCENTRICA RDA.C/T C/PLANO	63000257	R.N.C/ATAQUE 200/60*14,5"-10PR
60000076	TORN.EXAG.DIN-933 16* 40 8.8 ZINC.	63000259	R.N.C/ATAQUE 250/65*14,5"-12PR RAL-7047
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	63000274	R.N.C/ATAQUE 280/70-16"-RADIAL 370-AGRISTAR
60000326	TUER.BAJA DIN-936 30/200 8.8 ZINC.	64000201	SOP.TOPE MOVIL RDA.C/T ZINC.
60000355	TUER.TOPE VOLTEO 30/200 8.8 ZINC.	64000202	TOPE MOVIL RDA.C/T TRATADO + ZINC.
61000064	ANILLO ELASTICO DIN-471 60	65000055	AMORTIGUADOR C/ROT. 25/60/142
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.		



# REAR WHEEL TRANSPORT & CONTROL

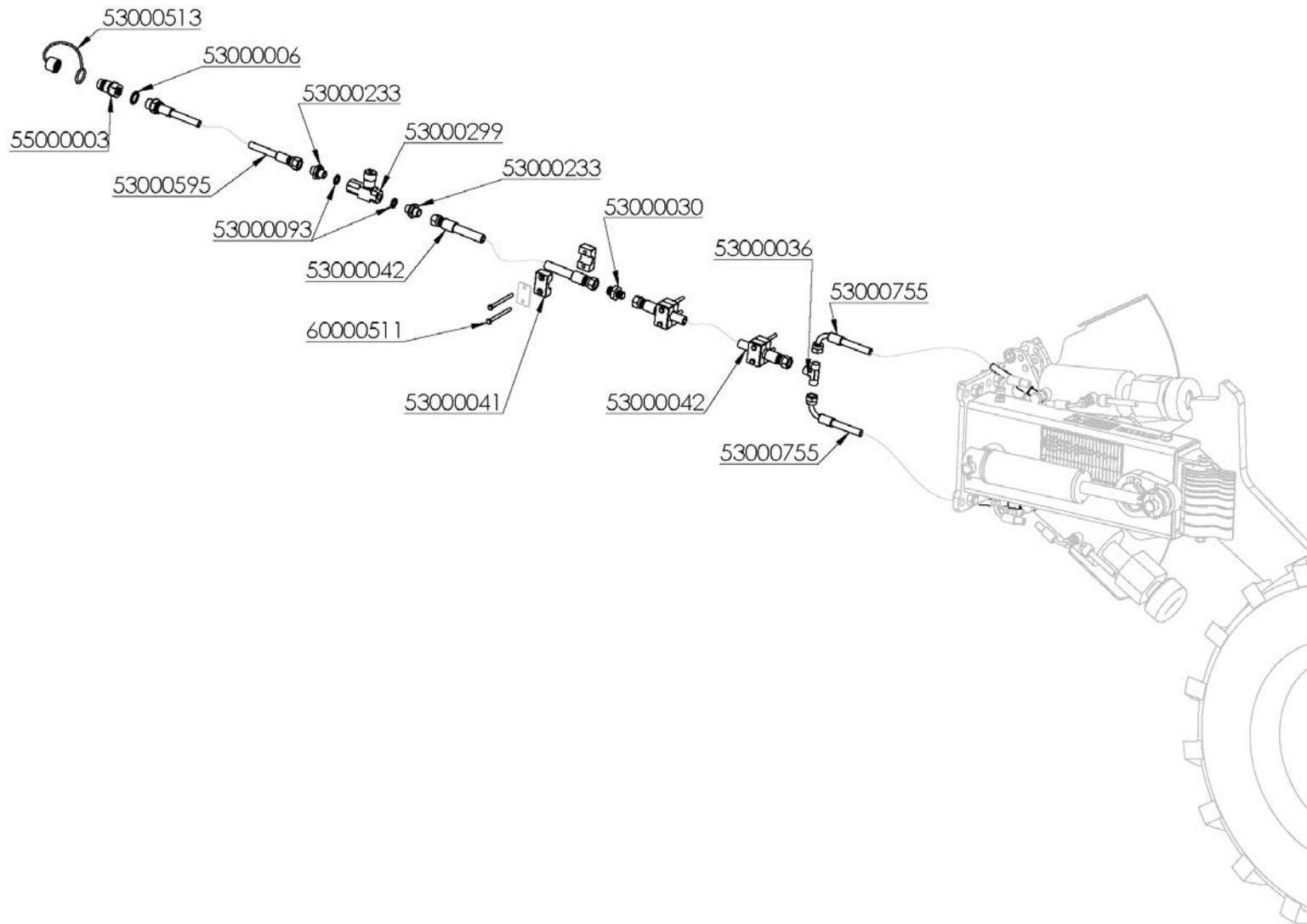


## REAR WHEEL TRANSPORT & CONTROL

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
55017940	BULON D=25*116mm.TOPE RDA.C/T	62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
55210910	SOP.RDA.C/T (D/16) - PASAR A 55210915	62000015	PASADOR ELAST.DIN-1481 8* 80 ZINC.
55211900	EJE RDA.C/T (D/16) - NO COMPRAR (55211910)	62000525	PASADOR ELAST.DIN-1481 14* 80
55211910	EJE RDA.C/T (D/21)	63000045	CASQ.FRICCION PAP 6060 P10
55212900	BRAZO RDA.C/T AVZD. (D/16)	63000046	DISCO FRICCION PAW 62 P10
55212910	BRAZO RDA.C/T AVZD.340/55-16 (9) XP (D/18)	63000215	R.N.C/ATAQUE 320/60-12 132A8 421TT
55213920	EXCENTRICA RDA.C/T C/PLANO	63000254	R.N.C/ATAQUE 340/55-16" 13.0/55 TL 18PR AW702
60000076	TORN.EXAG.DIN-933 16* 40 8.8 ZINC.	63000257	R.N.C/ATAQUE 200/60*14,5"-10PR
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	63000259	R.N.C/ATAQUE 250/65*14,5"-12PR RAL-7047
60000241	TUER.AUTO.DIN-985 30/200 8.8 ZINC.	63000274	R.N.C/ATAQUE 280/70-16"-RADIAL 370-AGRISTAR
60000326	TUER.BAJA DIN-936 30/200 8.8 ZINC.	64000201	SOP.TOPE MOVIL RDA.C/T ZINC.
60000355	TUER.TOPE VOLTEO 30/200 8.8 ZINC.	64000202	TOPE MOVIL RDA.C/T TRATADO + ZINC.
60000500	TORN.EXAG.C/LAR. 30/200x135 12.9 ZINC.(CAÑA 98mm.)	65000006	AMORTIGUADOR C/ROT. 25/50/145
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)	65000055	AMORTIGUADOR C/ROT. 25/60/142
61000064	ANILLO ELASTICO DIN-471 60	75036932	BULON D=26,5*125mm.BRAZO VBC
62000004	PASADOR ANILLA 10 ZINC.		



# HYDRAULIC SYSTEM REAR HYDRAULIC WHEEL

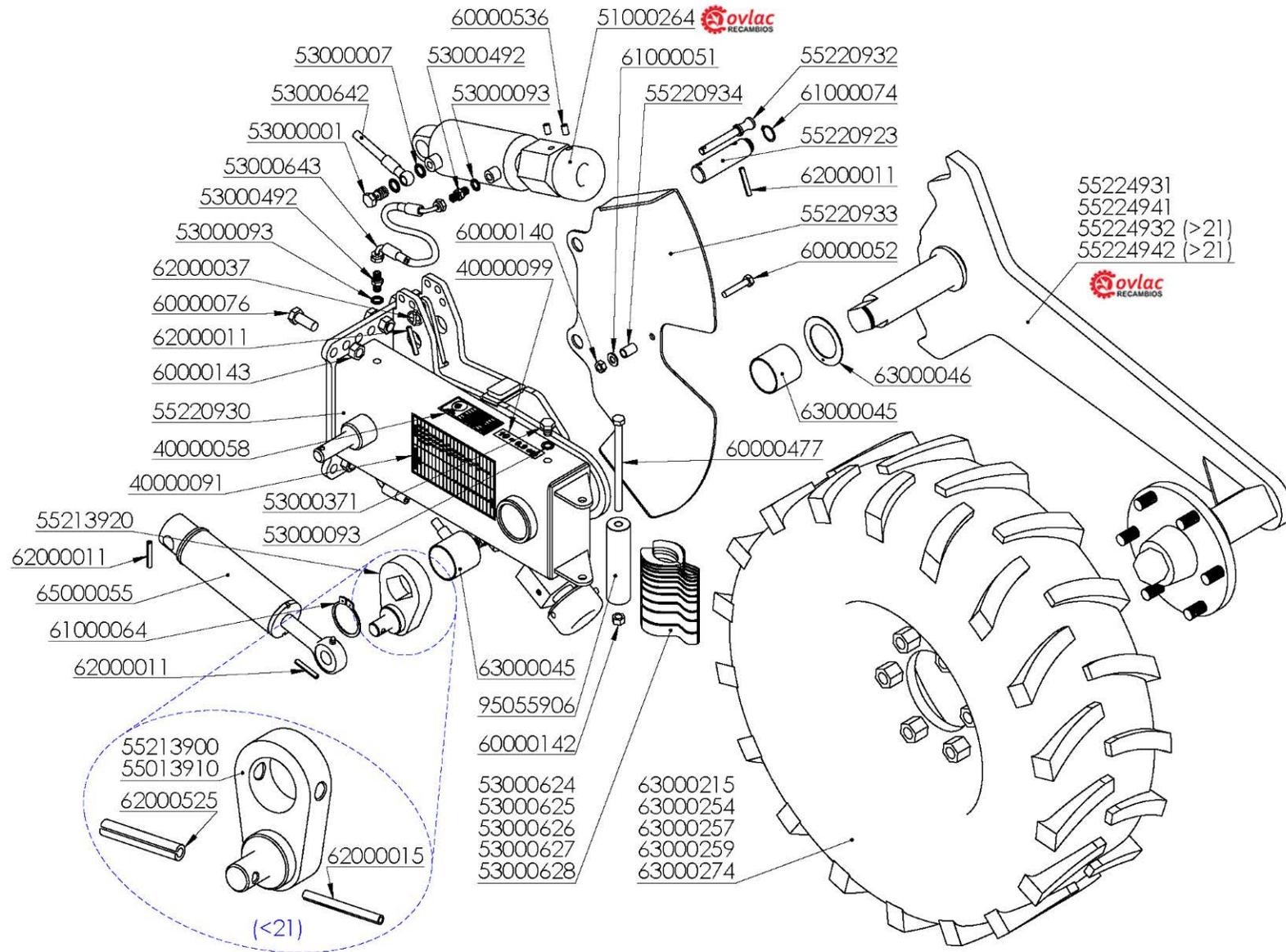


## HYDRAULIC SYSTEM REAR HYDRAULIC WHEEL

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
53000006	JUNTA METAL/GOMA 1/2" 11603	53000299	REGULADOR CAUDAL POMO UNID.1/4 9F400S
53000030	UNION TUBO/TUBO 12mm. G12-L	53000513	PROTECTOR E.R.MACHO 1/2" NEGRO 5029-4PB
53000036	TE UNION IGUAL 12 T12-L	53000595	LATIG.MF210-1/4*4550mm.MF-1/2/TL-18
53000041	ABRAZ.SIMPLE D=19mm. 319PP	53000755	LATIG.MF210-1/4*920mm.OR-3/8/CTL-18
53000042	LATIG.R2-3/8* 930mm.TL-18/TL-18	55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
53000093	JUNTA METAL GOMA 1/4 11601	60000511	TORN.EXAG.DIN-931 6* 80 8.8 ZINC.
53000233	UNION MACHO BSP 12-1/4 GE12-L1/4		



# REAR CONTROL HYDRAULIC WHEEL

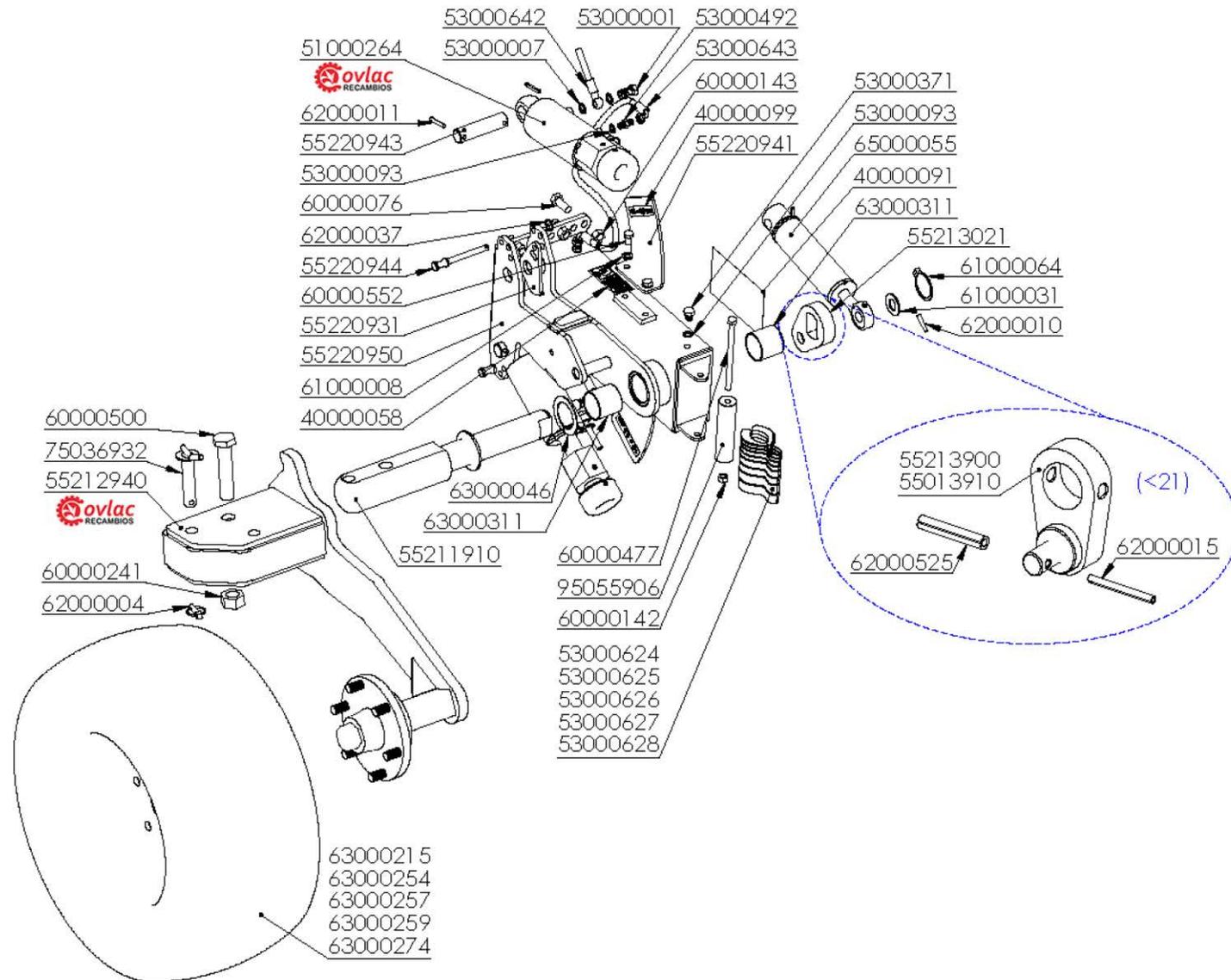


## REAR CONTROL HYDRAULIC WHEEL

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
4000058	ADHESIVO PRESION RUEDAS 105*48	55224941	BRAZO SIM.RDA.CONTROL HID.(280/70) - PASAR A 55224
4000091	ADHESIVO TABLA CALZOS	55224942	BRAZO SIM.RDA.CONTROL HID.DK-2P 6 ESPARRAGOS
4000099	ADHESIVO VUELTAS TOPE 0,9 - 10x2,3cm.	60000052	TORN.EXAG.DIN-931 10* 55 10.9 ZINC.
51000264	CILIND.REG.RDA. 40/80/60	60000076	TORN.EXAG.DIN-933 16* 40 8.8 ZINC.
53000001	TORNILLO SIMPLE 3/8 4022	60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.
53000007	JUNTA METAL/GOMA 3/8" 11602	60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
53000093	JUNTA METAL GOMA 1/4 11601	60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
53000371	TAPON MACHO 1/4 S830-13	60000477	TORN.EXAG.DIN-931 12*180 8.8 ZINC.
53000492	UNION MACHO 1/4	60000536	TORN.ALLEN DIN-913 10* 16 12.9
53000624	ANILLO AJUSTE CILINDRO 50/30-6,4mm. AZUL	61000051	ARAND.DIN-125 10 ZINC.
53000625	ANILLO AJUSTE CILINDRO 50/30-12,7mm. VERDE	61000064	ANILLO ELASTICO DIN-471 60
53000626	ANILLO AJUSTE CILINDRO 50/30-25,4mm. NARANJA	61000074	ANILLO ELASTICO DIN-471 25 INOX
53000627	ANILLO AJUSTE CILINDRO 50/30-9,5mm. ROJO	62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
53000628	ANILLO AJUSTE CILINDRO 50/30-19mm. AMARILLO	62000015	PASADOR ELAST.DIN-1481 8* 80 ZINC.
53000642	LATIG.PREMIER-1/4 800mm.OR-3/8/CTL-18	62000037	PASADOR ANILLA 4,5 ZINC.
53000643	LATIG.PREMIER-1/4*200mm.CTL-1/4/CTL-1/4	62000525	PASADOR ELAST.DIN-1481 14* 80
55013910	EXCENTRICA RDA.C/T (D/02)	63000045	CASQ.FRICCION PAP 6060 P10
55213900	EXCENTRICA RDA.C/T (D/16)	63000046	DISCO FRICCION PAW 62 P10
55213920	EXCENTRICA RDA.C/T C/PLANO	63000215	R.N.C/ATAQUE 320/60-12 132A8 421TT
55220923	BULON D=32/25*123mm.CILIND.RDA.HID.DK	63000254	R.N.C/ATAQUE 340/55-16" 13.0/55 TL 18PR AW702
55220930	SOP.RDA.HIDRμULICA TRASERA DK-2P	63000257	R.N.C/ATAQUE 200/60*14,5"-10PR
55220932	BULON LEVA RDA.HID.DK-2P	63000259	R.N.C/ATAQUE 250/65*14,5"-12PR RAL-7047
55220933	CHAPA PROTEC.CILINDROS RDA.HIDR.	63000274	R.N.C/ATAQUE 280/70-16"-RADIAL 370-AGRISTAR
55220934	SEP.TUBO 16*12*25mm.	65000055	AMORTIGUADOR C/ROT. 25/60/142
55224931	BRAZO SIM.RDA.CONTROL HID.DK-2P - PASAR A 55224932	95055906	CASQ.D= 40/12*153mm.ANILLOS RDA.HIDR.
55224932	BRAZO SIM.RDA.CONTROL HID.DK-2P 5 ESPARRAGOS		



# REAR TRANSPORT CONTROL HYDRAULIC WHEEL



## REAR TRANSPORT CONTROL HYDRAULIC WHEEL

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
40000058	ADHESIVO PRESION RUEDAS 105*48	60000076	TORN.EXAG.DIN-933 16* 40 8.8 ZINC.
40000091	ADHESIVO TABLA CALZOS	60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
40000099	ADHESIVO VUELTAS TOPE 0,9 - 10x2,3cm.	60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
51000264	CILIND.REG.RDA. 40/80/60	60000241	TUER.AUTO.DIN-985 30/200 8.8 ZINC.
53000001	TORNILLO SIMPLE 3/8 4022	60000477	TORN.EXAG.DIN-931 12*180 8.8 ZINC.
53000007	JUNTA METAL/GOMA 3/8" 11602	60000500	TORN.EXAG.C/LAR. 30/200x135 12.9 ZINC.(CAÑA 98mm.)
53000093	JUNTA METAL GOMA 1/4 11601	60000552	TORN.EXAG.DIN-933 12* 20 8.8 ZINC.
53000371	TAPON MACHO 1/4 S830-13	61000008	ARAND.DIN-125 12 ZINC. PASAR A 61000060
53000492	UNION MACHO 1/4	61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
53000624	ANILLO AJUSTE CILINDRO 50/30-6,4mm. AZUL	61000064	ANILLO ELASTICO DIN-471 60
53000625	ANILLO AJUSTE CILINDRO 50/30-12,7mm. VERDE	62000004	PASADOR ANILLA 10 ZINC.
53000626	ANILLO AJUSTE CILINDRO 50/30-25,4mm. NARANJA	62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
53000627	ANILLO AJUSTE CILINDRO 50/30-9,5mm. ROJO	62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
53000628	ANILLO AJUSTE CILINDRO 50/30-19mm. AMARILLO	62000015	PASADOR ELAST.DIN-1481 8* 80 ZINC.
53000642	LATIG.PREMIER-1/4 800mm.OR-3/8/CTL-18	62000037	PASADOR ANILLA 4,5 ZINC.
53000643	LATIG.PREMIER-1/4*200mm.CTL-1/4/CTL-1/4	62000525	PASADOR ELAST.DIN-1481 14* 80
55013910	EXCENTRICA RDA.C/T (D/02)	63000046	DISCO FRICCION PAW 62 P10
55211910	EJE RDA.C/T (D/21)	63000215	R.N.C/ATAQUE 320/60-12 132A8 421TT
55212940	BRAZO RDA.C/T HIDR.AVZDA	63000254	R.N.C/ATAQUE 340/55-16" 13.0/55 TL 18PR AW702
55213021	LEVA EXCENTRICA RDA.C/T C/PLANO	63000257	R.N.C/ATAQUE 200/60*14,5"-10PR
55213900	EXCENTRICA RDA.C/T (D/16)	63000259	R.N.C/ATAQUE 250/65*14,5"-12PR RAL-7047
55220931	LEVA TOPE CILIND.RDA.HIDR.DK-2P	63000274	R.N.C/ATAQUE 280/70-16"-RADIAL 370-AGRISTAR
55220941	PLACA PROTECCION CILIND.INF.RDA.HIDR.AVZD.	63000311	CASQ.FRICCION PAP 6060 P10 TX1
55220943	BULON D=32*129mm.CILIND.RDA.HID.AVZDA.	65000055	AMORTIGUADOR C/ROT. 25/60/142
55220944	BULON LEVA RDA.HID.AVZDA.	75036932	BULON D=26,5*125mm.BRAZO VBC
55220950	SOP.RDA.C/T HIDRμULICA TRASERA	95055906	CASQ.D= 40/12*153mm.ANILLOS RDA.HIDR.





## 90 AÑOS DE PASIÓN POR EL SUELO



Arados



Mini



Gradas rápidas



Cultivadores



Chisel para Viñedo



Gradas para viñedo



Polígono Industrial, P-163 / 165 - 34200 - Venta de Baños

Palencia / España - Tel: +34 979 76 10 11

ovlac@ovlac.com - www.ovlac.com



FONDO EUROPEO  
DE DESARROLLO  
REGIONAL



UNION EUROPEA