

# VERSATILL

REV 2021



INSTRUCTIONS AND SPARE PARTS MANUAL



# CONGRATULATIONS!

You have just purchased a VERSATILL from Ovlac.

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.

Yours sincerely: Jorge Calvo  
CEO of Ovlac



# CONSIDERATIONS

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

This agricultural equipment, called VERSATILL, is designed for tilling the soil, applied to a Tractor with lifting gear and universal three-point 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.



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# 1.- Safety 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.

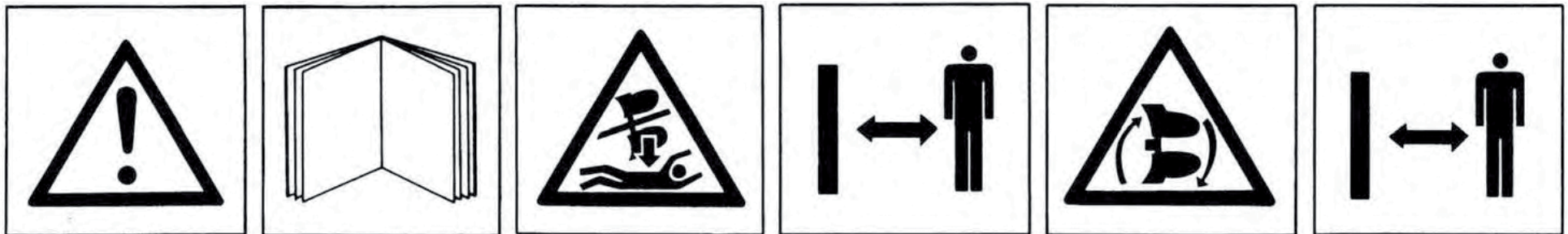
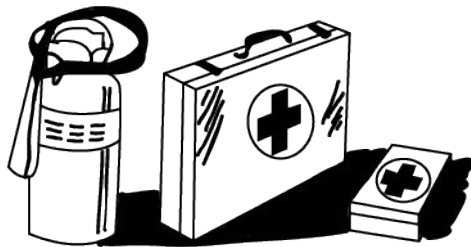


Fig. 1



# 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, oxides, 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 oxides.

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.

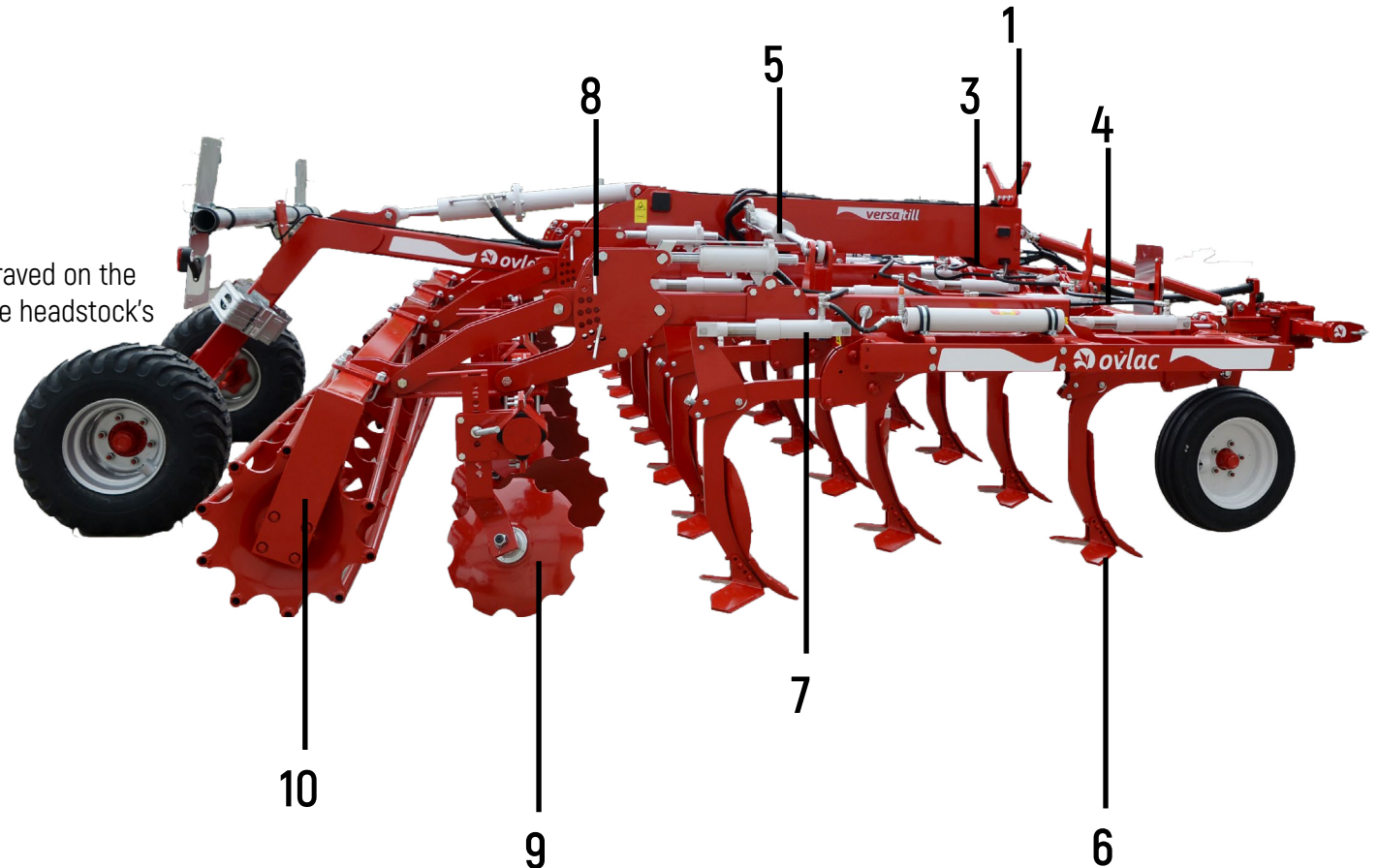


## 2.- Description and Technical Data

1. HEADSTOCK
2. IDENTIFICATION PLATE\*
3. CENTRAL FRAME
4. SIDE FRAMES
5. FOLDING CILINDERS
6. WORKING BODY
7. SECURITY SYSTEMS
8. PARALLELOGRAM SYSTEM
9. DISCS
10. ROLLER

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

\*2. NAMEPLATE.



# Technical Data

		Nb of rows	Folding	Working Width (m)	Transport Width (m)	Power* (HP)	Weight** (kg)	Nb of Discs	Underbeam clearance (cm)	Tine spacing	Row distance
Mounted 2 Rows	VERSATILL-2-9	2	Fix	2.70	3.00 m	125	1.210	-	86 cm	30 cm	95 cm
	VERSATILL-2-11		Fix	3.00	3 or 3.30	155	1.320	-		27.5 cm	
	VERSATILL-2-13		Fix	3.90	3.90	185	1.435	-		30 cm	
	VERSATILL-2-13 PV		2 Parts	3.90	3.00	185	2.140	-		30 cm	
	VERSATILL-2-15 PV		2 Parts	4.50	3.00	210	2.255	-		30 cm	
	VERSATILL-2-17 PV		2 Parts	5.10	3.00	240	2.375	-		30 cm	
	VERSATILL-2-19 PV		2 Parts	6.00	3.00	270	2.510	-		31.50 cm	
Mounted 3 Rows	VERSATILL-3-8	3	Fix	2.40	2.70	115	1.380	4	86 cm	30 cm	75 cm
	VERSATILL-3-10		Fix	3.00	3 or 3.30	140	1.730	6		30 cm	
	VERSATILL-3-12		Fix	3.60	3.80	170	2.085	6		30 cm	
	VERSATILL-3-13		Fix	3.90	3.90	185	2.290	8		30 cm	
	VERSATILL-3-13 PV		2 Parts	3.90	3.00	185	2.485	8		30 cm	
	VERSATILL-3-15 PV		2 Parts	4.50	3.00	210	2.860	10		30 cm	
	VERSATILL-3-17 PV		2 Parts	5.10	3.00	240	3.235	10		30 cm	
	VERSATILL-3-19 PV		2 Parts	6.00	3.00	270	3.665	12		31.50 cm	
Semi-mounted 3 Rows	VERSATILL-3-13 A	3	2 Parts	3.90	3.00	185	3.485	8	86 cm	30 cm	75 cm
	VERSATILL-3-15 A		2 Parts	4.50	3.00	210	3.860	10		30 cm	
	VERSATILL-3-17 A		2 Parts	5.10	3.00	240	4.235	10		30 cm	
	VERSATILL-3-19 A		2 Parts	6.00	3.00	270	4.665	12		31.50 cm	





# 3.- Non-Stop Security Systems

The various "Non-Stop" security systems (leaf spring / hydraulic) operate automatically. When the tip encounters an obstacle, the system trips up, allowing the tine to go over the obstacle, then returns to its original position without stopping the tractor.

In this way, all impacts caused by uneven terrain are absorbed by the safety system, thus protecting all parts of the machine and, of course, the tractor as well.

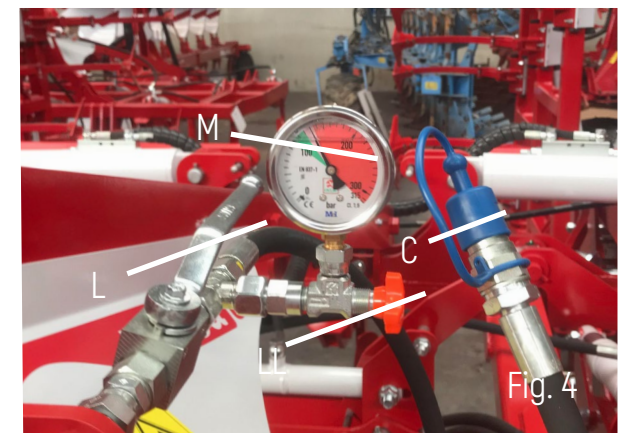
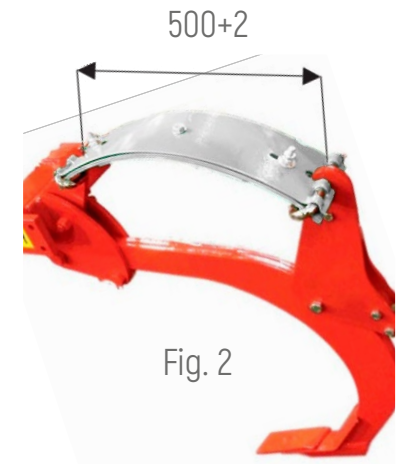
For the same reason, the "Non-Stop" security systems reduce the tractive effort by preventing the tractor from having to "power through" all the obstacles that the terrain presents at even work.

ADJUSTMENTS: On models with Non-Stop leaf spring security system it is important to check that the centre-to-centre distance of the leaf spring pins is 500 mm  $\pm$  2 mm (Fig. 2). Too large of a distance can result in the leaf spring bending downwards after tripping, rendering it unusable and requiring replacement. On the other side, a smaller distance reduces the trigger pressure.

On models with a hydraulic safety system, the trigger pressure can be increased or decreased to adapt the Versatill to the soil conditions. To do this, oil must be injected into or withdrawn from the hydraulic circuit via the charging hose C with blue cap (Fig. 4), which is connected directly to the tractor. First open the shut-off valves L and LL and close them when the pressure gauge M shows that the desired pressure has been reached.

Important: always keep the working pressure with the Versatill at rest within the range indicated on the pressure gauge. Excessive pressure can stiffen the arms, overriding the security system and potentially causing serious damage to the structure.

Note: OVLAC Non-Stop safety systems are factory-set at an optimum pressure for medium-hard ground.



# 4.- Start Up

## 4.1 - Adaptation to the tractor

**OVLAC's** machinery are designed to adapt to the 3 universal points of any tractor.

The oscilating shaft, o barra de enganche, is supplied in two versions (distanc between centers):

Category II	890 mm.
Category III	1025 mm.

Before linking the cultivator assure that:

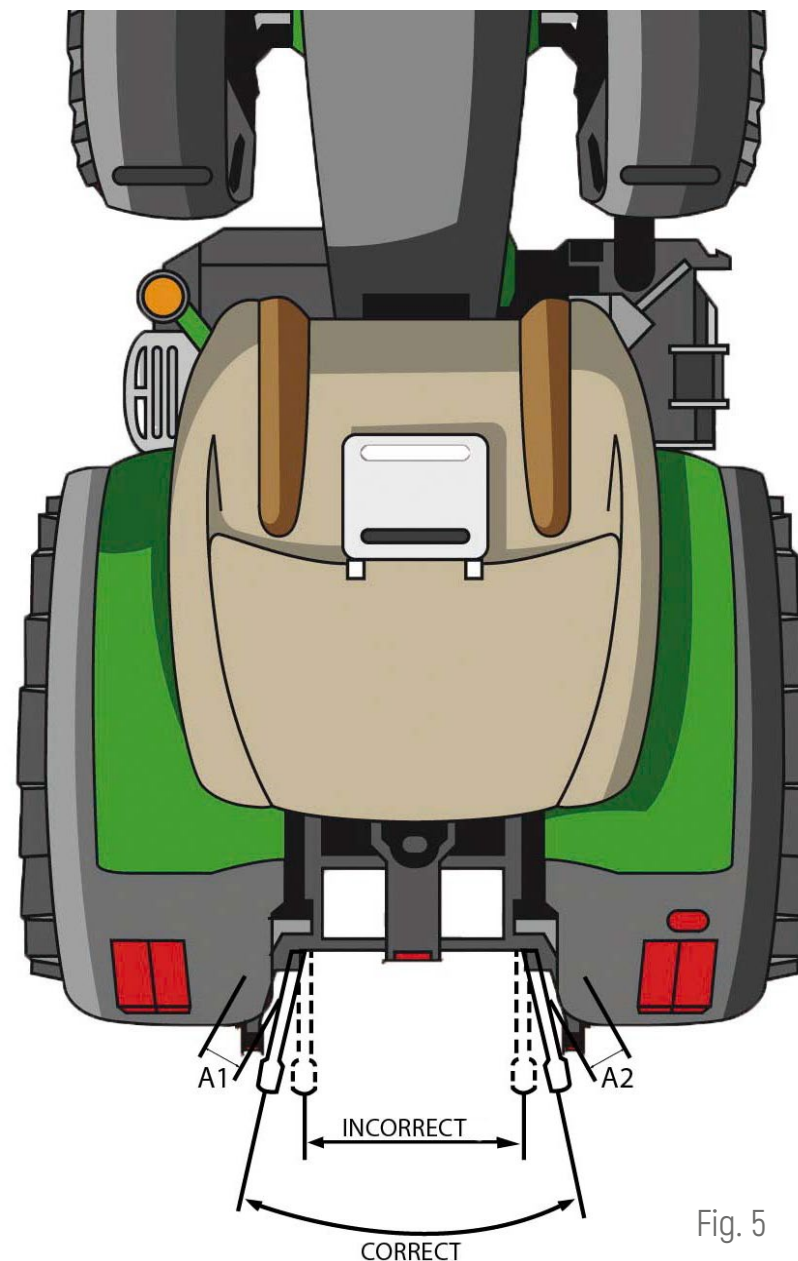
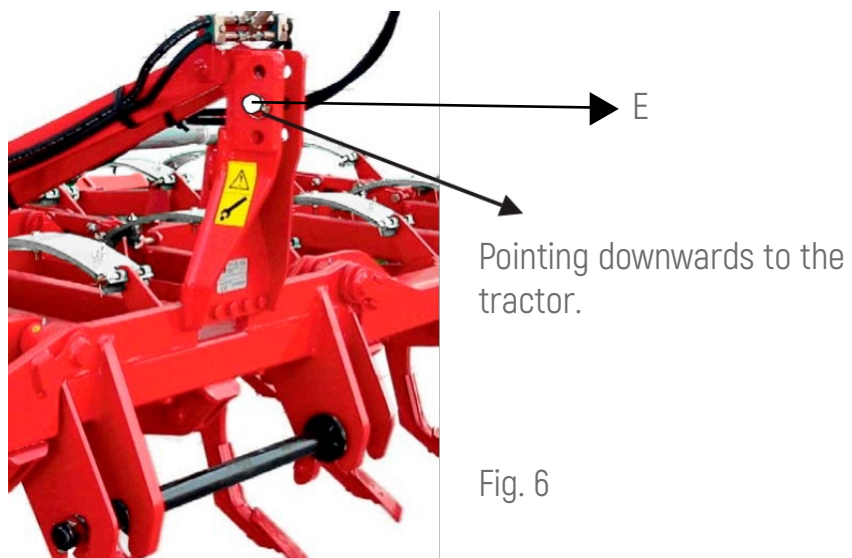
- Tractor' arms are regulated at the same length and height.
- The tractor's wheels have the same pressure and it fits the manufacturer recommendations.
- Tractor' arms must be centered with some clearance for the oscillating movement.



## 4.2 - Alignment

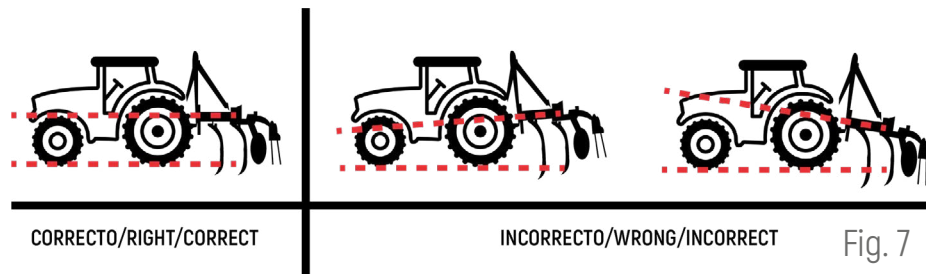
The machinery must be aligned with the tractor; if not, this must abandon the path. Must assure that the distance is  $A1 = A2$  (Fig. 5).

The third point's tine must be coupled in order that the end linked over the machine remains slightly higher than the end linked to the tractor. The third point must be coupled always to the oblong hole E, trying that its length allows its free movement while on labor (except for tractors with control on the third point).



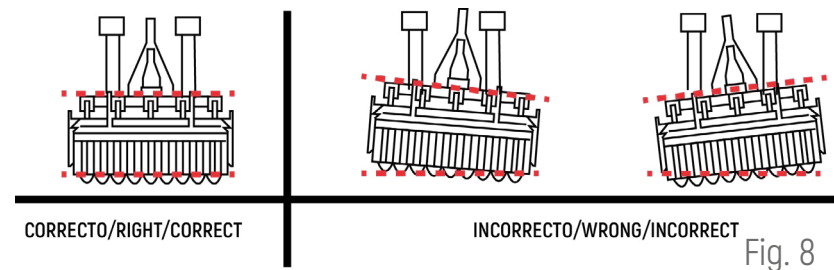
## 4.3 - Other adjustments

The length of the third option must be adjusted in a way that the frame adopts a parallel position to the ground, since the opposite action would make the different rows of tines to work at different heights, hence making an uneven labor. (Fig. 7)



Because of the same reason, it's necessary that the tractor' arms are placed at the same height, so the machine can work at the same depth throughout its whole width (Fig. 8).

IMPORTANT: curves at work must be avoided whenever it's possible, specially with very wide machinery, since the lever effort can cause important damage on the structure of the equipment.



# 5.- Working depth

Working depth is regulated through the machine's standard roller, by means of the adjusting bolts A (Fig. 10). Nevertheless, in order to get an even working depth, all Versatill can be equipped with side wheels whose height can be adjusted by means of the stop bolts B (Fig. 11).

For a perfectly levelled finish it is important to adjust the height of the discs D through the turnbuckle T. In addition each disc can be individually regulated through bolts C. (Fig. 10)

Once the discs have been correctly adjusted, you can modify the working depth without actually touching the discs thanks to the parallelogram system that offsets simultaneously discs and roller.

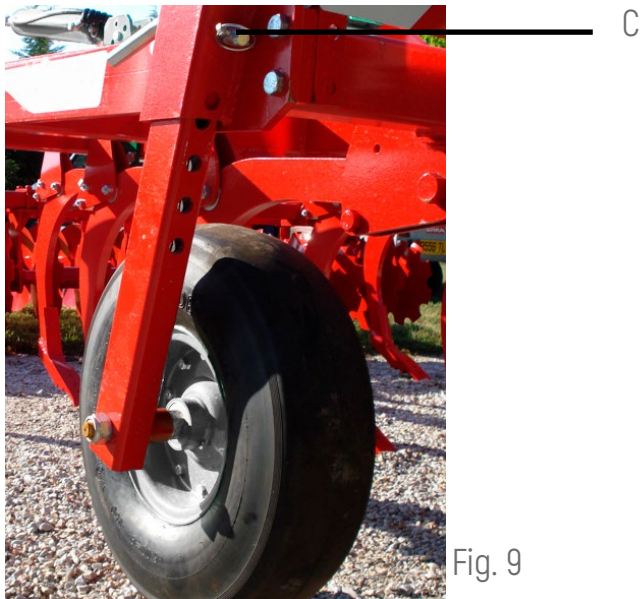


Fig. 9

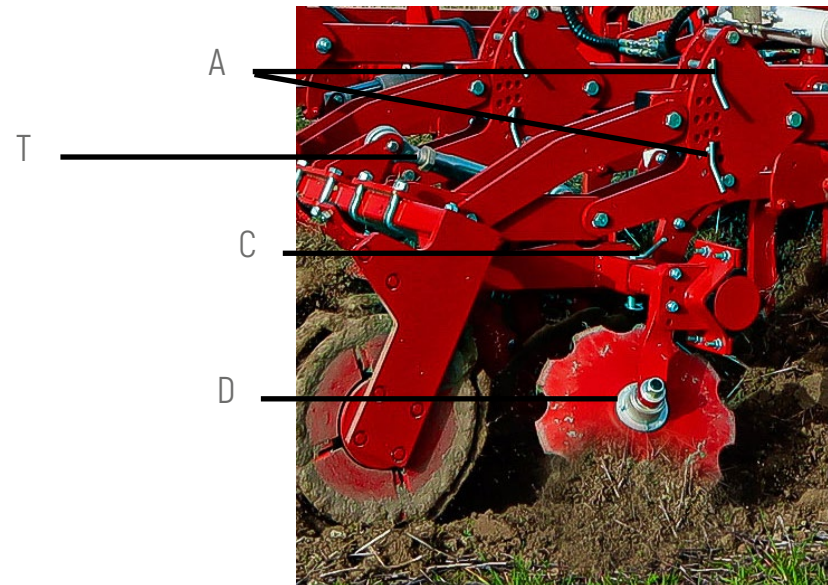


Fig. 10



# 6.- Transport

Machines with hydraulic folding will be retracted in order to ease its transport, leaving the equipment to its minimum width. (Fig. 11) All the folded versions incorporate a hydraulic automatic lock for an improved security. Trailed versions come with hydraulic suspension on the transport cylinder A. (Fig. 12) To prevent the rollers from swinging during transportation on the road, lock them with pins A, described in the previous point.

Trailed models must be raised to the top on the transport wheels extending cylinder C (fig. 10) to its maximum length for a safe transport on the road. Cylinder C houses a damper inside for greater comfort on driving.

When circulating on public roads it is important to respect the driving code and install if it is necessary to install the road lights (optional).



Fig. 11



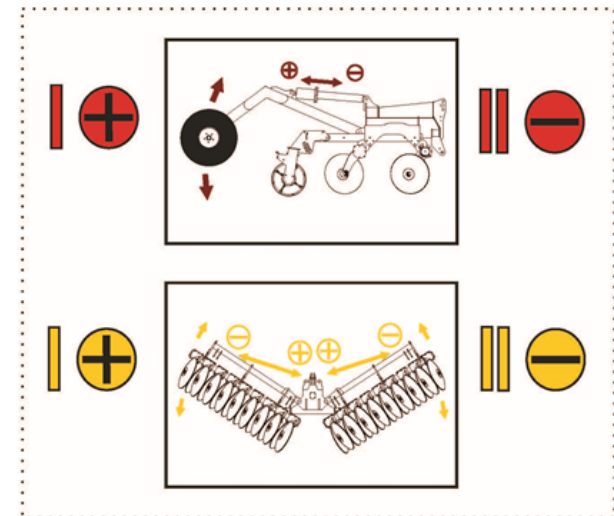
Fig. 12

## 6.1- Hydraulic functions

There's 2 hydraulic functions available:

1. Red: Elevate/Lower the trail kit, in order to regulate the height of the machine.

2. Yellow: Fold/unfold the machine for Work (folding cylinders stretched) -Transport (retracted cylinders)



# 7.- Maintenance

Must check the tightening of all the bolts after the first 2 hours of labor, specially the tips and skimmers ones. Afterwards, check every 100 hours of labor. When finishing the area, clean up and grease down the skimmers in order to avoid rustiness.

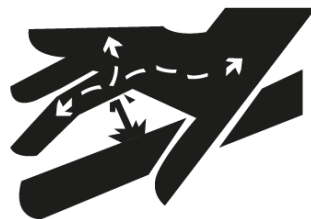
**Lube:** must grease regularly the greasing points.

## Safe maintenance

Get familiar with the maintenance procedures before getting to work. The labor area must be clean and dry. No greasing, fixing, or engine adjusting while the engine is on the run. Keep hands, feet and clothes away from the mobile components. In order to relieve the pressure, set all controls on break-even point. Lower all gear to the ground. Every component must be in good conditions and installed correctly. Fix the damage immediately. Change any worn-down and/or broken wearing part. Keep the machinery components free of grease, oil, and dirt accumulated. When it comes to trailed equipment, unplug the hoses from the tractor before doing any welding on the machine.

## Watch out for the high-pressure leaks.

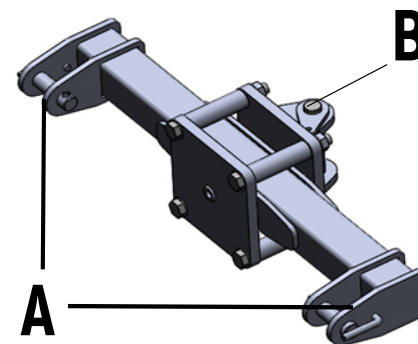
Fluids coming out of the system can be potent enough to pierce through skin, causing severe injuries. Therefore, is mandatory to lower the pressure off before unplugging any hose off and make sure that all conexions and racores are well tightened before applying any kind of pressure on to the system.



In order to locate an hydraulic oil leak, use a piece of cardboard used for placing over the conexions. Don't get your hands nor your body close to a high pressure leak. If despite the precautions an accident happens, go immediately to a healthcare center to get the fluid removed surgically in a few hours in order to avoid gangrene. Unexperienced doctors on this kind of injuries may contact an specialized healthcare center.

## Hydraulic hoses storage.

**IMPORTANT:** keep the plugs clean. Abrasive particles such as sand or metal sharps may damage the hoses and cylinder, provoking internal leaks. Once unplugged from the tractor make sure the gear is not touching the ground.



## LINKING BOLTS

The linking bolts A and the turning bolt B must be made of: F-125 TREATED OF 36 and 40 diameter each.

For the proper adjustment and functioning the bolts will be replaced when the clearance between the bolt and the holder overpass 2 mm.



# 8.- Optional equipment

Ovlac's Versatill can be equipped with:

1. Pair of wings (Fig.13)
2. Trail kit (Fig.14)
3. Roadlights and signs (Fig.14)
4. Levelling side discs (Fig.15)
5. Non-Stop discs (Fig.16)
6. Side wheels (Fig.17)
7. Hydraulic adjustment of the roller's depth (Fig.18)
8. Forged tip points (Fig.19)
9. Rollers (Fig. 20, 21, 22, 23, 24)

Fig. 13



Fig. 14

Fig. 15

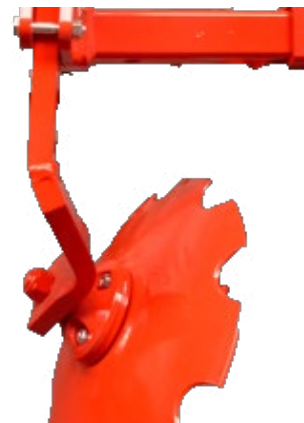


Fig. 16

Fig. 17



Fig. 18

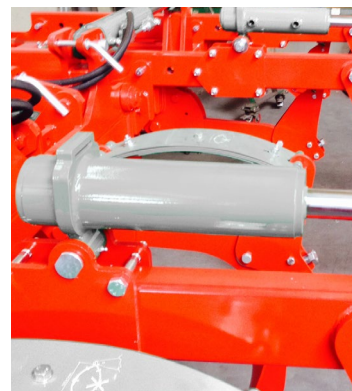


Fig. 19







Fig. 20



Fig. 21

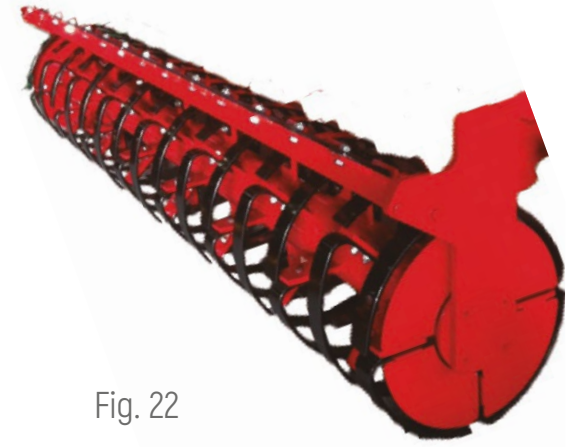


Fig. 22



Fig. 23



Fig. 24







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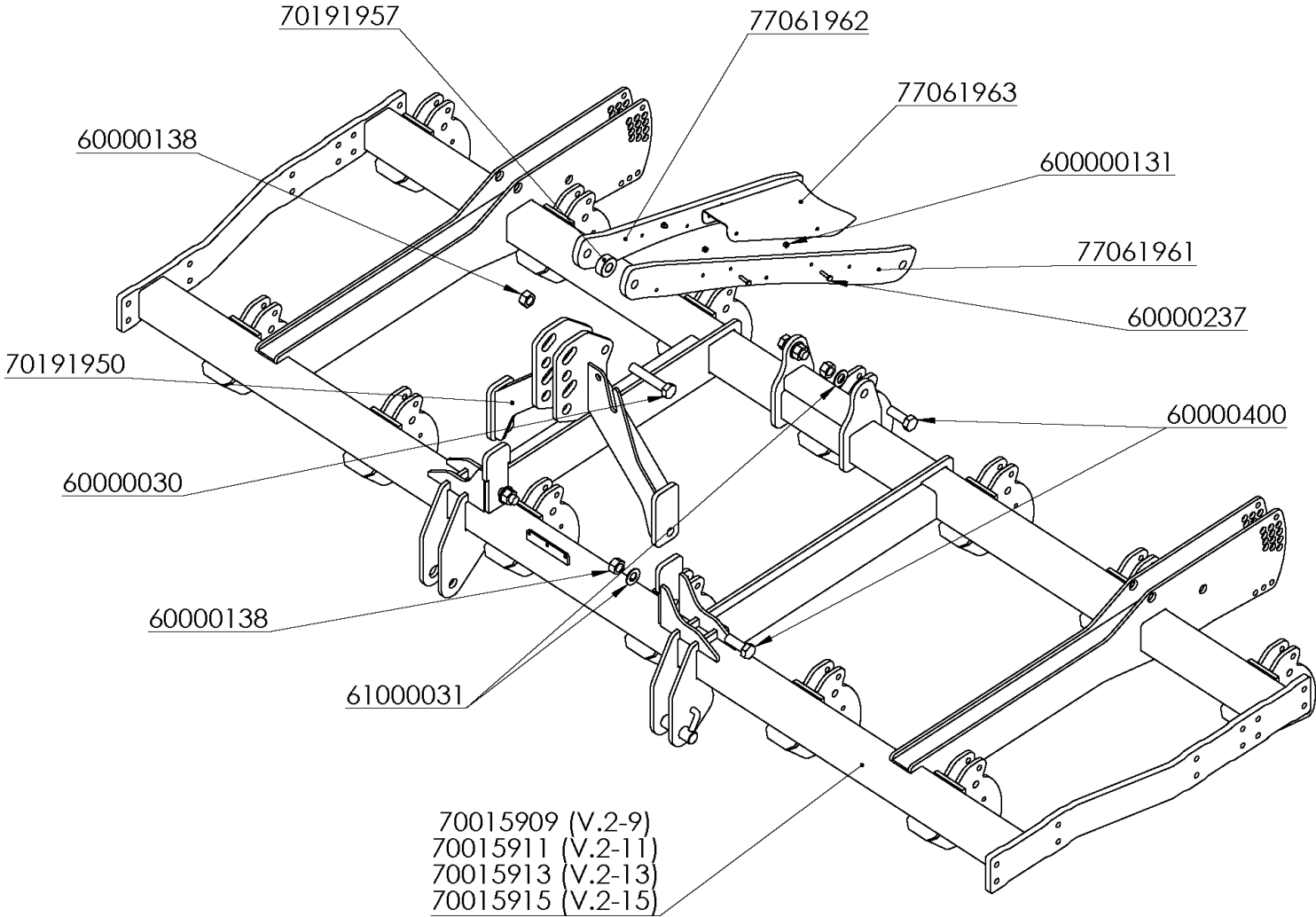


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FRAME 2

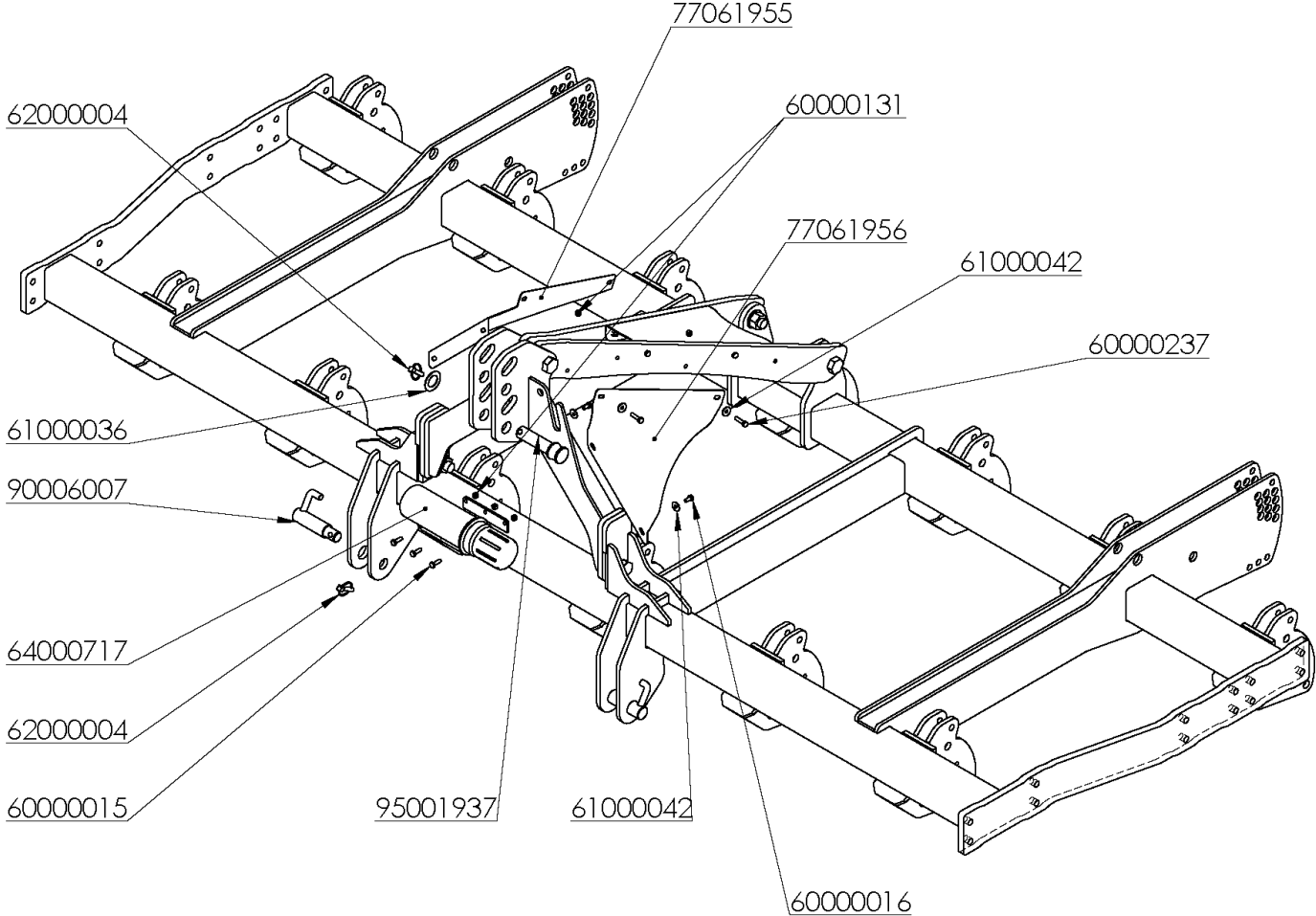


## FRAME 2

REFERENCIA	DESCRIPCIÓN
60000030	TORN.EXAG.C/LAR.1"*175 SAE 12.9
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
60000237	TORN.EXAG.DIN-933 8* 35 8.8 ZINC.
60000400	TORN.EXAG.DIN-931 1"* 70 SAE 12.9
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
70191950	TORRETA VHC CAT-III
70191957	CASQ. D=60/26*24mm.SEP.TORRETA VHC
77061961	TIRANTE SUP.IZQDO.CHH
77061962	TIRANTE SUP.DCHO.CHH
77061963	PLACA UNION TIRANTES CHH
60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.
(V.2-11) 70015911	BAST.CHH-11
(V.2-13) 70015913	BAST.CHH-13
(V.2-15) 70015915	BAST.CHH-15
(V.2-9) 70015909	BAST.CHH-9



# FRAME 2 FINISHED



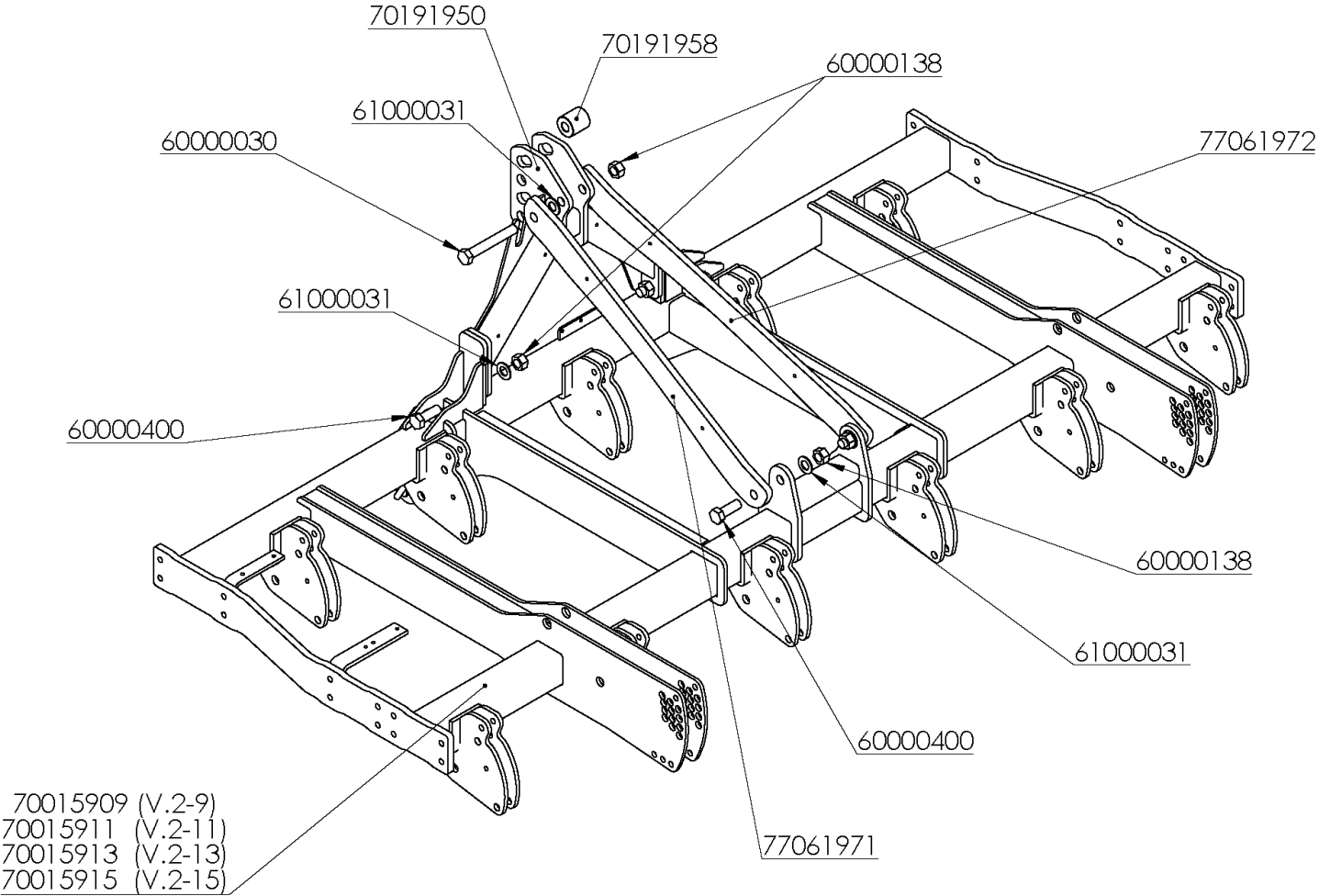


## FRAME 2 FINISHED

REFERENCIA	DESCRIPCIÓN
60000015	TORN.EXAG.DIN-933 8* 25 8.8 ZINC.
60000016	TORN.EXAG.DIN-933 8* 16 8.8 ZINC.
60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.
60000237	TORN.EXAG.DIN-933 8* 35 8.8 ZINC.
61000036	ARAND.ESTANDAR-A 32 ZINC.
61000042	ARAND.DIN-9021 8 ZINC.
62000004	PASADOR ANILLA 10 ZINC.
64000717	PORTA-DOCUMENTOS ATORNILLABLE
77061955	EMBELLECEDOR DCHO.EURODISC-P
77061956	EMBELLECEDOR IZQDO.EURODISC-P
90006007	BULON D=36/28*124mm.(CAT-II/III)
95001937	BULON D=31,7*153mm.3er.PTO.CAT.III (D/21)



# FRAME 2 LEAFSPRINGS

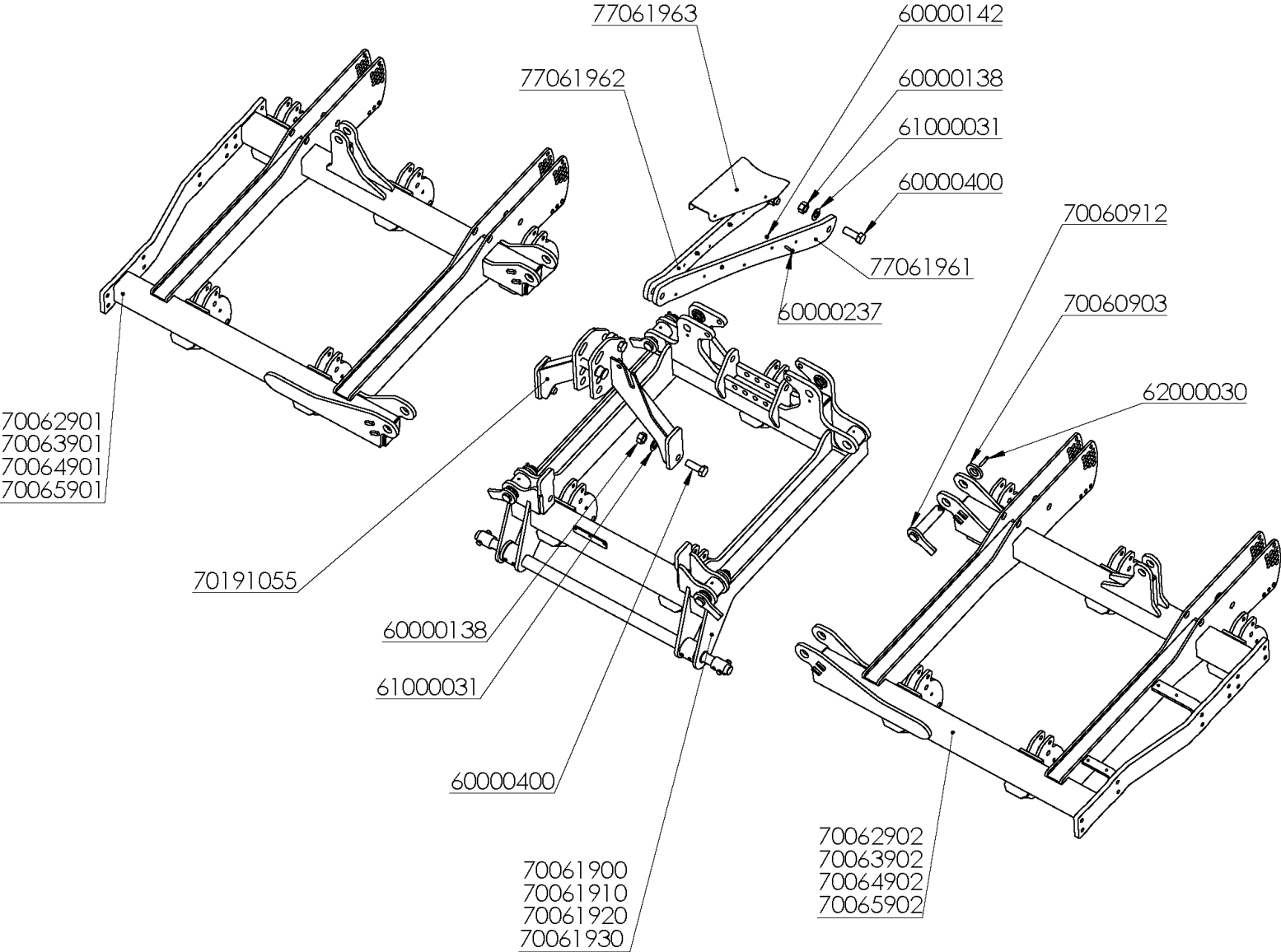


## FRAME 2 LEAFSPRINGS

REFERENCIA	DESCRIPCIÓN
60000030	TORN.EXAG.C/LAR.1"*175 SAE 12.9
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
60000400	TORN.EXAG.DIN-931 1"* 70 SAE 12.9
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
70191950	TORRETA VHC CAT-III
77061971	TIRANTE SUP.IZQDO.VHB
77061972	TIRANTE SUP.DCHO.VHB
70191958	CASQ.D=60/26*64mm.SEP.TORRETA VHB
70015909	BAST.CHH-9
70015911	BAST.CHH-11
70015913	BAST.CHH-13
70015915	BAST.CHH-15



# FRAME 2 FOLDABLE

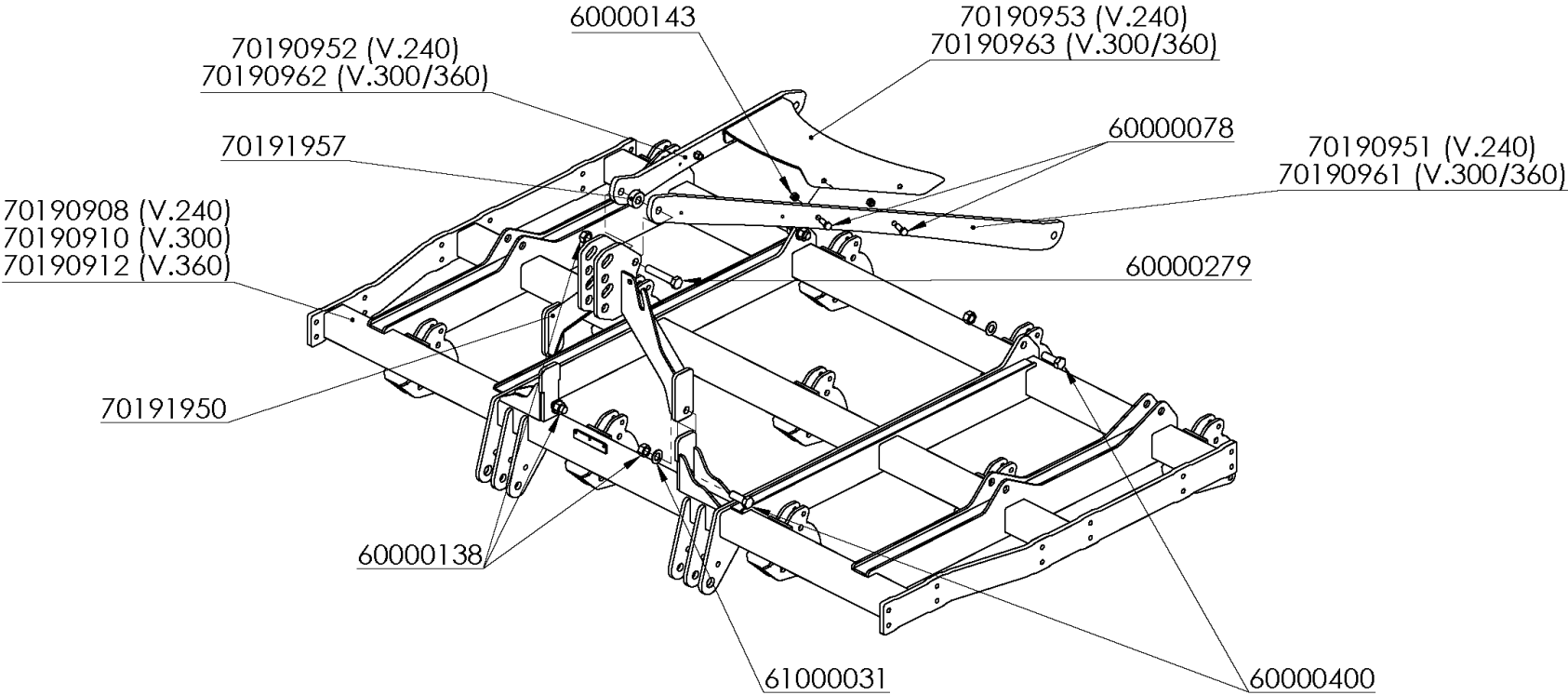


## FRAME 2 FOLDABLE

REFERENCIA	DESCRIPCIÓN
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000237	TORN.EXAG.DIN-933 8* 35 8.8 ZINC.
60000400	TORN.EXAG.DIN-931 1"* 70 SAE 12.9
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.
70060912	BULON D=40*184mm.PLEG.VHC
70061900	BAST. CENTRAL VHC-2-450-P
70061910	BAST. CENTRAL VHC-2-400-P
70061920	BAST. CENTRAL VHC-2-500-P
70061930	BAST. CENTRAL VHC-2-600-P
70062901	BAST.DERECHO VHC-2-450P
70062902	BAST.IZQUIERDO VHC-2-450P
70063901	BAST.DERECHO VHC-2-400P
70063902	BAST.IZQUIERDO VHC-2-400P
70064901	BAST.DERECHO VHC-2-500P
70064902	BAST.IZQUIERDO VHC-2-500P
70065901	BAST.DERECHO VHC-2-600P
70065902	BAST.IZQUIERDO VHC-2-600P
70191055	PLACA RFZO.DCH.TORRETA VHC
77061961	TIRANTE SUP.IZQDO.CHH
77061962	TIRANTE SUP.DCHO.CHH
77061963	PLACA UNION TIRANTES CHH



FRAME 3

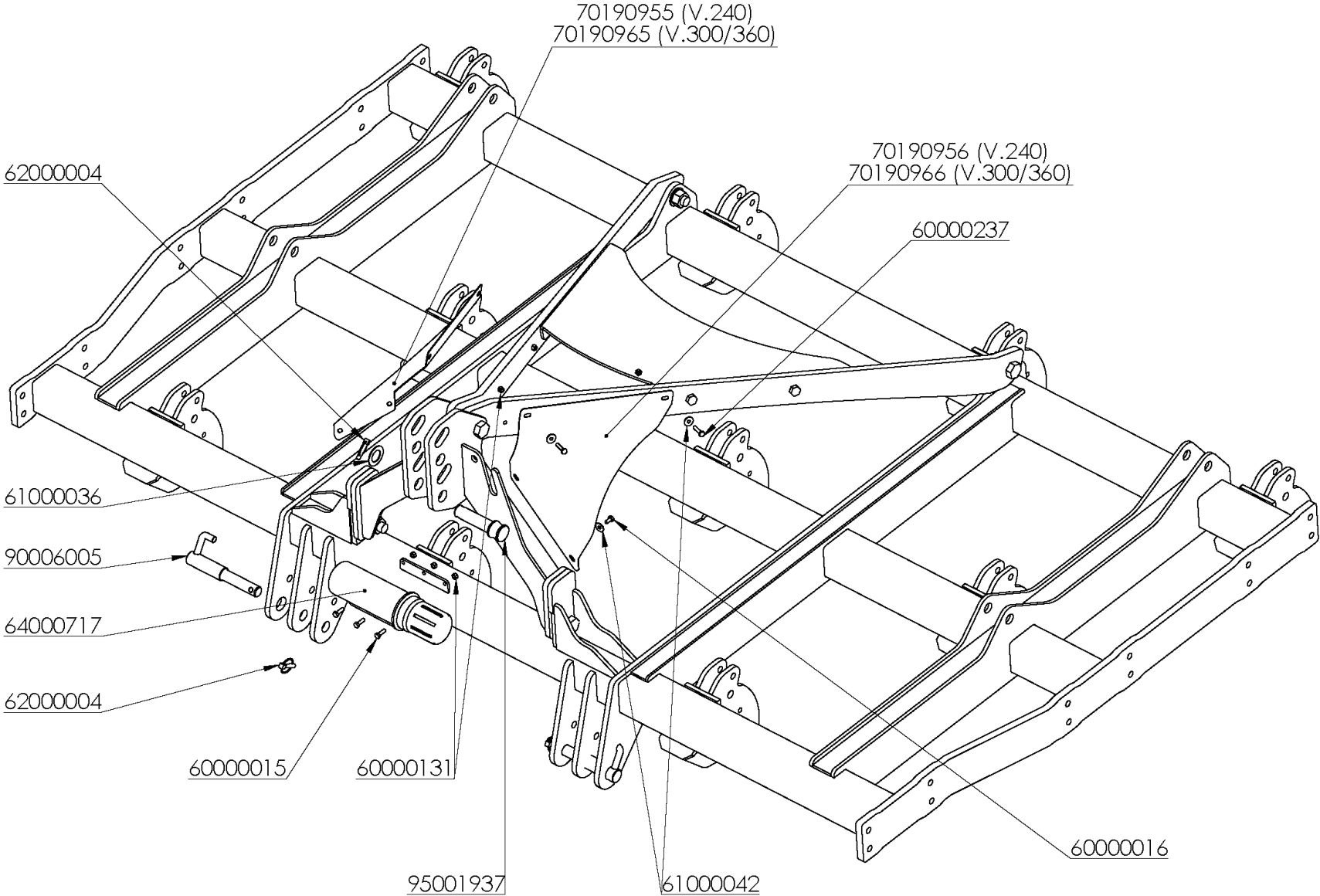


## FRAME 3

REFERENCIA	DESCRIPCIÓN
60000078	TORN.EXAG.DIN-933 16* 50 8.8 ZINC.
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000279	TORN.EXAG.C/LAR.1"*135 SAE 12.9 ZINC.
60000400	TORN.EXAG.DIN-931 1"* 70 SAE 12.9
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
70191950	TORRETA VHC CAT-III
70191957	CASQ. D=60/26*24mm.SEP.TORRETA VHC
(V.240) 70190908	BAST.VHC-240-8/3
(V.240) 70190951	TIRANTE SUP.IZQDO.VHC-240
(V.240) 70190952	TIRANTE SUP.DCHO.VHC-240
(V.240) 70190953	PLACA UNION TIRANTES VHC-240
(V.300) 70190910	BAST.VHC-300-10/3
(V.300/360) 70190961	TIRANTE SUP.IZQDO.VHC-300/360
(V.300/360) 70190962	TIRANTE SUP.DCHO.VHC-300/360
(V.300/360) 70190963	PLACA UNION TIRANTES VHC-300/360
(V.360) 70190912	BAST.VHC-360-12/3



# FRAME 3 FINISHED



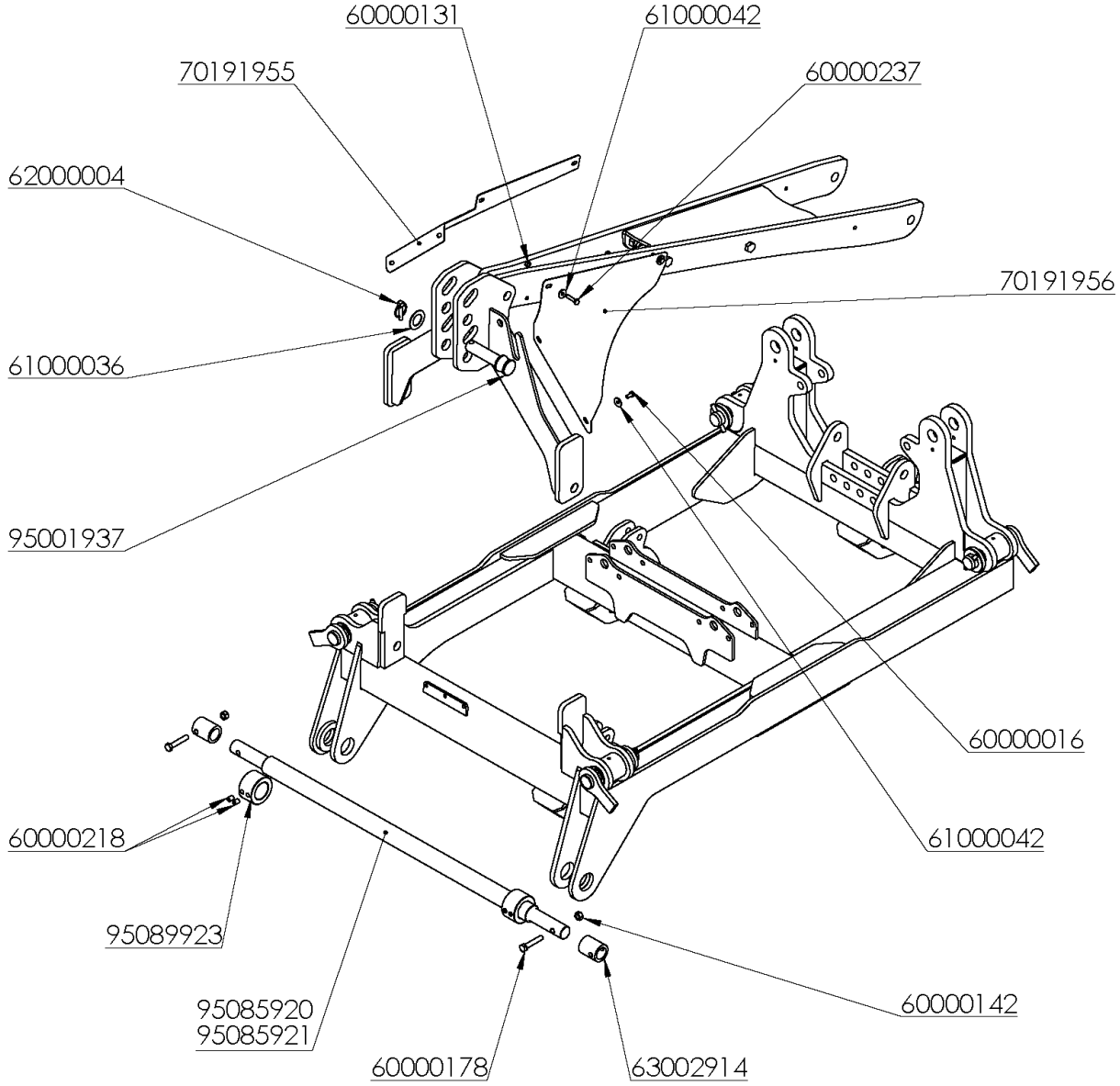


## FRAME 3 FINISHED

REFERENCIA	DESCRIPCIÓN
60000015	TORN.EXAG.DIN-933 8* 25 8.8 ZINC.
60000016	TORN.EXAG.DIN-933 8* 16 8.8 ZINC.
60000237	TORN.EXAG.DIN-933 8* 35 8.8 ZINC.
61000042	ARAND.DIN-9021 8 ZINC.
64000717	PORTA-DOCUMENTOS ATORNILLABLE
60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.
(V.240) 70190955	EMBELLECEDOR DCHO.VHC-240
(V.240) 70190956	EMBELLECEDOR IZQDO.VHC-240
(V.300/360) 70190965	EMBELLECEDOR DCHO.VHC-300/360
(V.300/360) 70190966	EMBELLECEDOR IZQDO.VHC-300/360
62000004	PASADOR ANILLA 10 ZINC.
61000036	ARAND.ESTANDAR-A 32 ZINC.
90006005	BULON D=36/28*205mm.(CAT-II/III)
95001937	BULON D=31,7*153mm.3er.PTO.CAT.III (D/21)



# FRAME 3 FOLDABLE

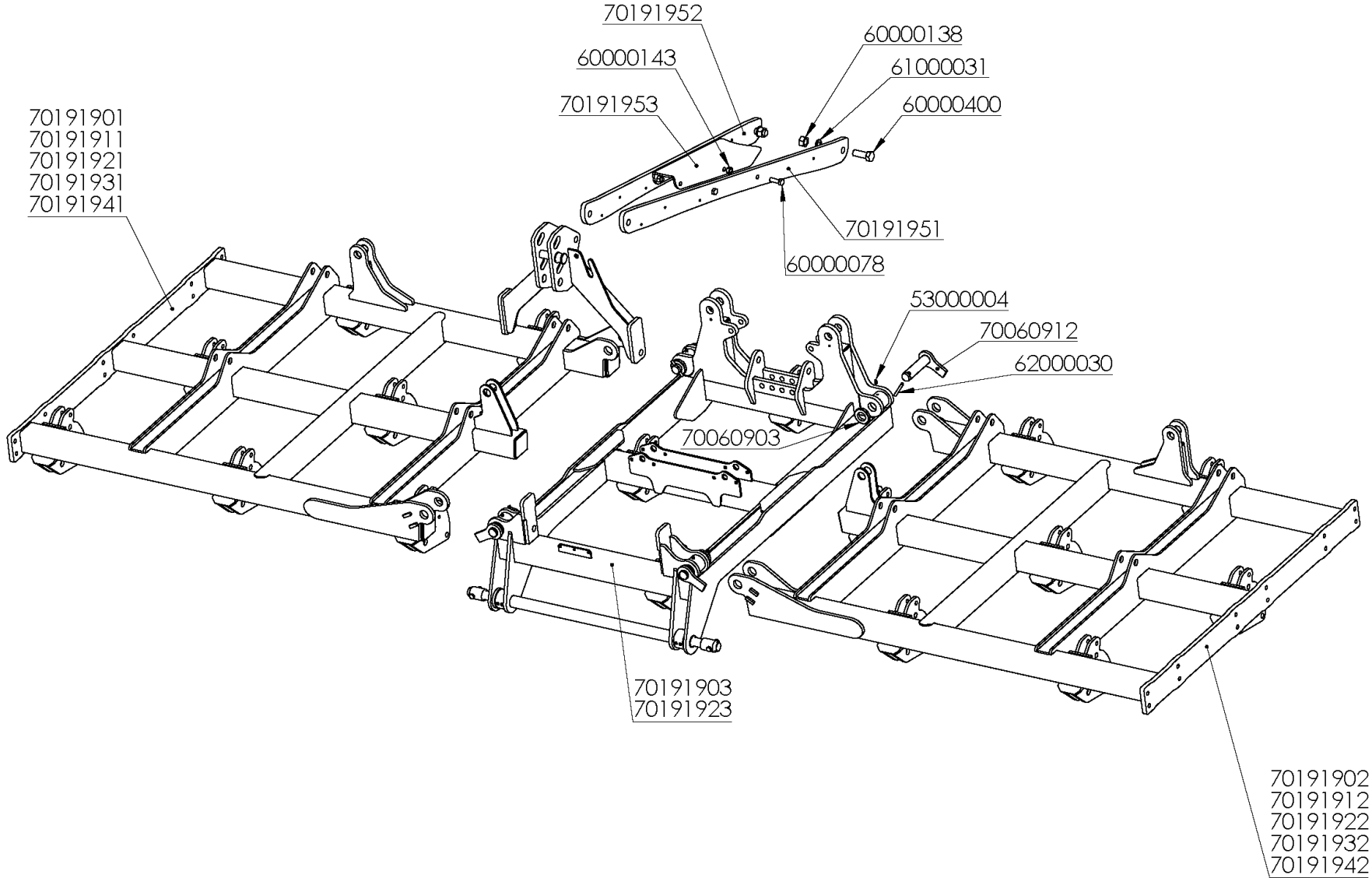


## FRAME 3 FOLDABLE

REFERENCIA	DESCRIPCIÓN
60000016	TORN.EXAG.DIN-933 8* 16 8.8 ZINC.
60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000178	TORN.EXAG.DIN-931 12* 65 8.8 ZINC.
60000218	TORN.ALLEN DIN-913 12* 16 12.9
60000237	TORN.EXAG.DIN-933 8* 35 8.8 ZINC.
61000036	ARAND.ESTANDAR-A 32 ZINC.
61000042	ARAND.DIN-9021 8 ZINC.
62000004	PASADOR ANILLA 10 ZINC.
63002914	CASQ.D= 50/37*60mm.ENG.RAP.CAT-III RFZD.
70191955	EMBELLECEDOR DCHO.VHC-P
70191956	EMBELLECEDOR IZQDO.VHC-P
95001937	BULON D=31,7*153mm.3er.PTO.CAT.III (D/21)
95085920	BARRA ENG.VBC PLEG.
95085921	BARRA ENG.VBC PLEG.CAT.III/IV
95089923	CASQ.D= 80/50*47mm.ENG.RAP.VHC



# FRAME 3 FOLDABLE

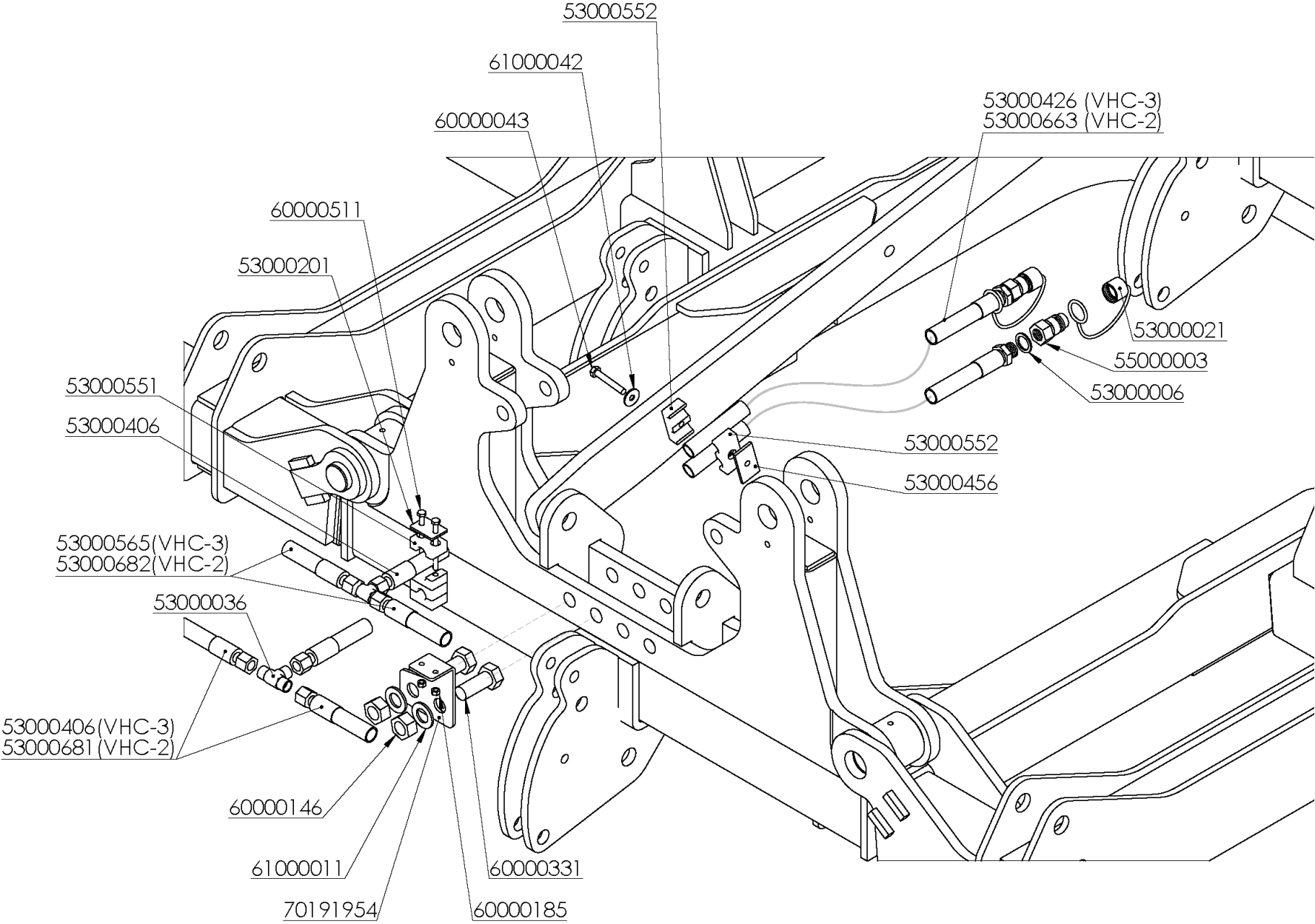


## FRAME 3 FOLDABLE

REFERENCIA	DESCRIPCIÓN
53000004	ENGRASADOR AC° DIN-71412 8*125
60000078	TORN.EXAG.DIN-933 16* 50 8.8 ZINC.
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000400	TORN.EXAG.DIN-931 1"* 70 SAE 12.9
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
62000030	PASADOR ELAST.DIN-1481 10* 80 ZINC.
70060903	ARAND.P/BULON PLEG.CH/MCH/DISC
70060912	BULON D=40*184mm.PLEG.VHC
70191901	BAST.DERECHO VHC-450
70191902	BAST.IZQUIERDO VHC-450
70191903	BAST.CENTRAL VHC-390/450
70191911	BAST.DERECHO VHC-390
70191912	BAST.IZQUIERDO VHC-390
70191921	BAST.DERECHO VHC-500
70191922	BAST.IZQUIERDO VHC-500
70191923	BAST.CENTRAL VHC-510/570
70191931	BAST.DERECHO VHC-570
70191932	BAST.IZQUIERDO VHC-570
70191941	BAST.DERECHO VHC-600
70191942	BAST.IZQUIERDO VHC-600
70191951	TIRANTE SUP.IZQDO.VHC-P
70191952	TIRANTE SUP.DCHO.VHC-P
70191953	PLACA UNION TIRANTES VHC-P



# FOLDING HYDRAULIC SYSTEM

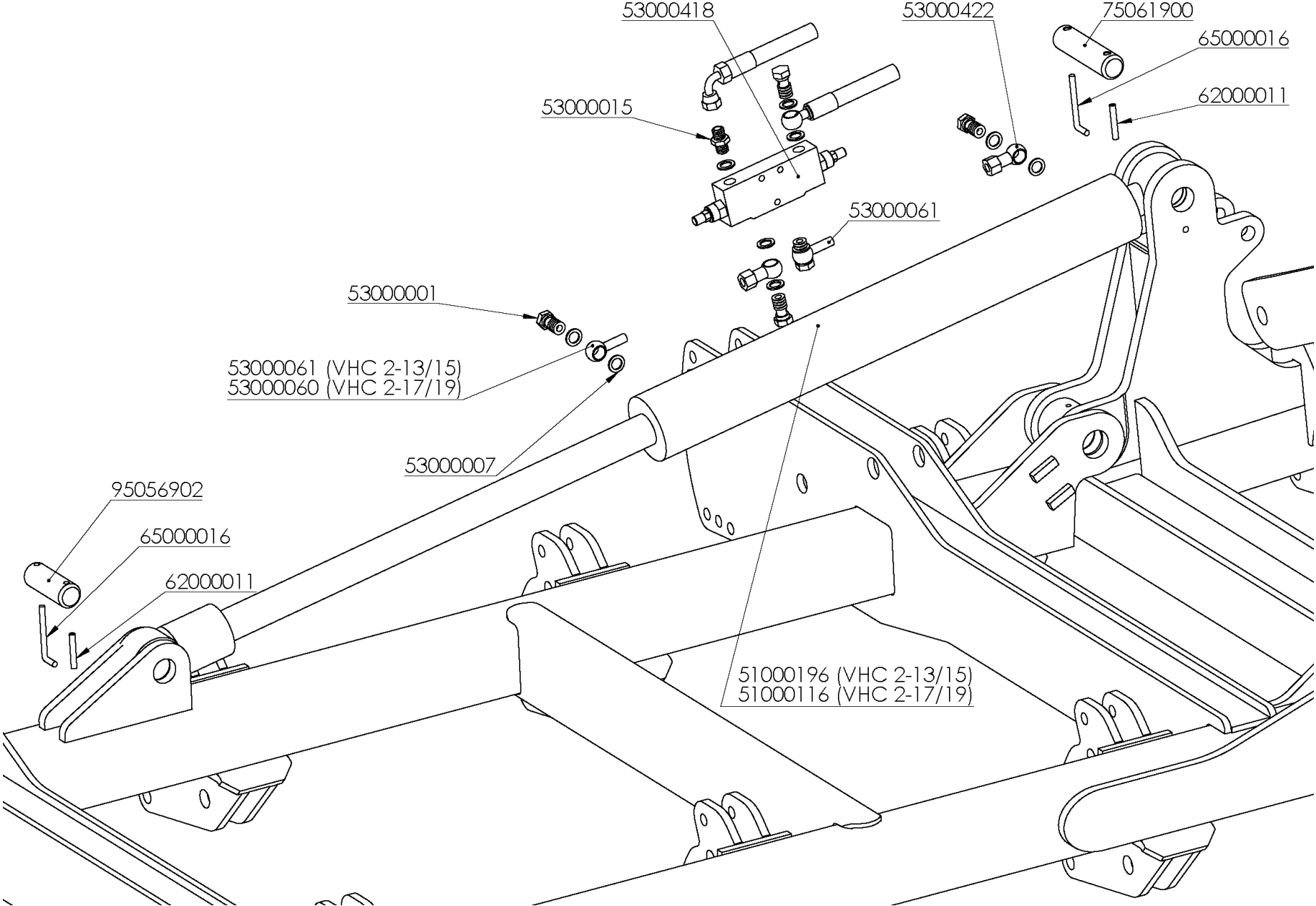


# FOLDING HYDRAULIC SYSTEM

REFERENCIA	DESCRIPCIÓN
53000006	JUNTA METAL/GOMA 1/2" 11603
53000021	PROTECTOR E.R.MACHO 1/2" ROJO 5029-4PR
53000036	TE UNION IGUAL 12 T12-L
53000201	PLACA RFZO.AB.SIMPLE 18 DP2
53000406	LATIG.PREMIER-3/8* 550mm.OR-3/8/TL-18
53000426	LATIG.PREMIER-3/8*3200mm.MF-1/2/TL-18
53000456	PLACA SOLDAR AB.DOUBLE 15/18 SP2D
53000551	ABRAZ.SIMPLE LAT.PREMIER 3/8
53000552	ABRAZ.DOUBLE LAT.PREMIER 3/8
53000565	LATIG.PREMIER-3/8* 680mm.OR-3/8/TL-18
55000003	ADAPTADOR E.R.FASTER 1/2" 30410108
60000043	TORN.EXAG.DIN-931 8* 55 8.8 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE
60000185	TUER.AUTO.DIN-980 6 8.8 ZINC.
60000331	TORN.EXAG.DIN-933 20* 50 8.8 ZINC.
60000511	TORN.EXAG.DIN-931 6* 80 8.8 ZINC.
61000011	ARAND.DIN-125 20 ZINC.
61000042	ARAND.DIN-9021 8 ZINC.
70191954	SOP.LATIG.PLEGADO VHC



# HYDRAULIC SYSTEM 2 ROWS



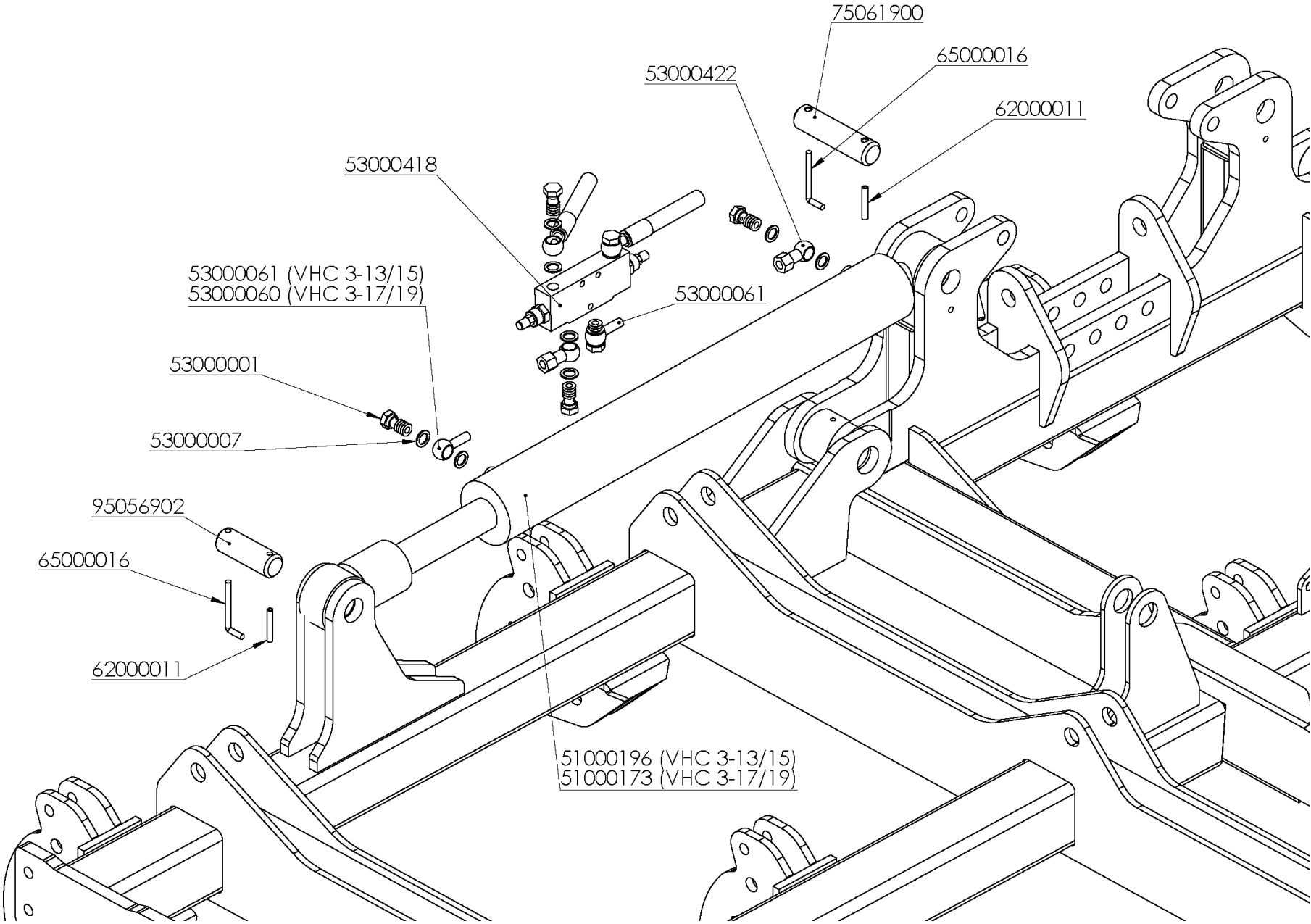


## HYDRAULIC SYSTEM 2 ROWS

REFERENCIA	DESCRIPCIÓN
51000116	CILIND.PLEG.MCH/DISC/FENIX 50/100/500
51000196	CILIND.PLEG.CHISEL/VBC/EURO/MAXIDISC 90/45/375
53000001	TORNILLO SIMPLE 3/8 4022
53000007	JUNTA METAL/GOMA 3/8" 11602
53000015	UNION MACHO 3/8 4062
53000060	ESFERICO 3/8" TUBO 12mm.L=400 4002E2
53000061	ESFERICO 3/8" TUBO 12mm.L=200
53000418	VALV.OVERCENTER VBCD 3/8 DE-A V0422
53000422	ESFERICO 3/8" + UNION TUBO/TUBO 12 4002E+12L
62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
65000016	PASADOR FIJACION D= 7,5mm. ZINC.
75061900	BULON D=34,8*138mm.CILIND.LATERAL + GEOMET
95056902	BULON D=34,8*100mm.CILIND.VOLTEO SS + GEOMET



# HYDRAULIC SYSTEM 3 ROWS

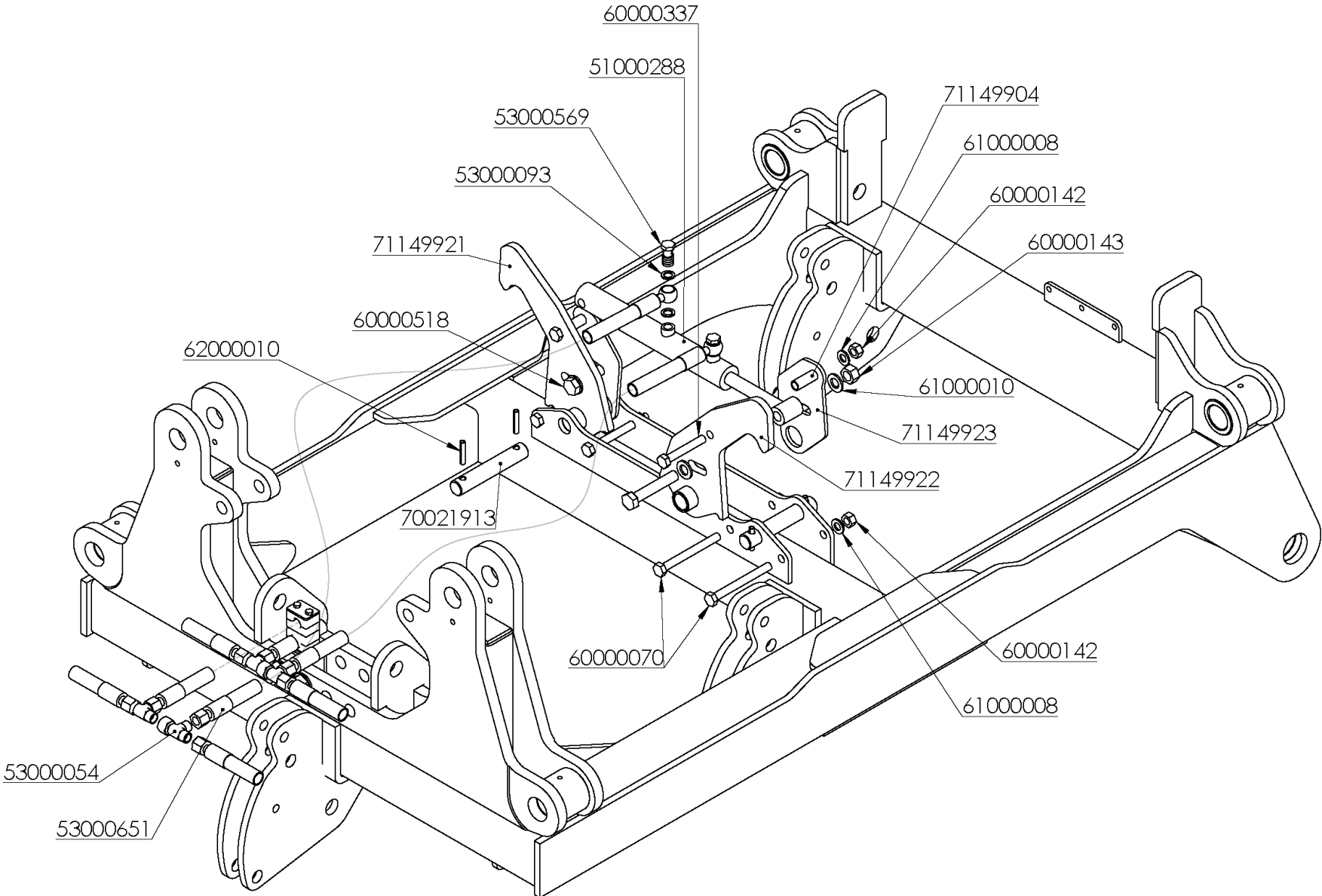


## HYDRAULIC SYSTEM 3 ROWS

REFERENCIA	DESCRIPCIÓN
51000173	CILIND.PLEG.VBC 50/100/489
51000196	CILIND.PLEG.CHISEL/VBC/EURO/MAXIDISC 90/45/375
53000001	TORNILLO SIMPLE 3/8 4022
53000007	JUNTA METAL/GOMA 3/8" 11602
53000060	ESFERICO 3/8" TUBO 12mm.L=400 4002E2
53000061	ESFERICO 3/8" TUBO 12mm.L=200
53000418	VALV.OVERCENTER VBCD 3/8 DE-A V0422
53000422	ESFERICO 3/8" + UNION TUBO/TUBO 12 4002E+12L
62000011	PASADOR ELAST.DIN-1481 8* 50 ZINC.
62000048	PASADOR ELAST.DIN-1481 8*50
65000016	PASADOR FIJACION D= 7,5mm. ZINC.
75061900	BULON D=34,8*138mm.CILIND.LATERAL + GEOMET
95056902	BULON D=34,8*100mm.CILIND.VOLTEO SS + GEOMET



# AUTOMATIC TRANSPORT LOCKING

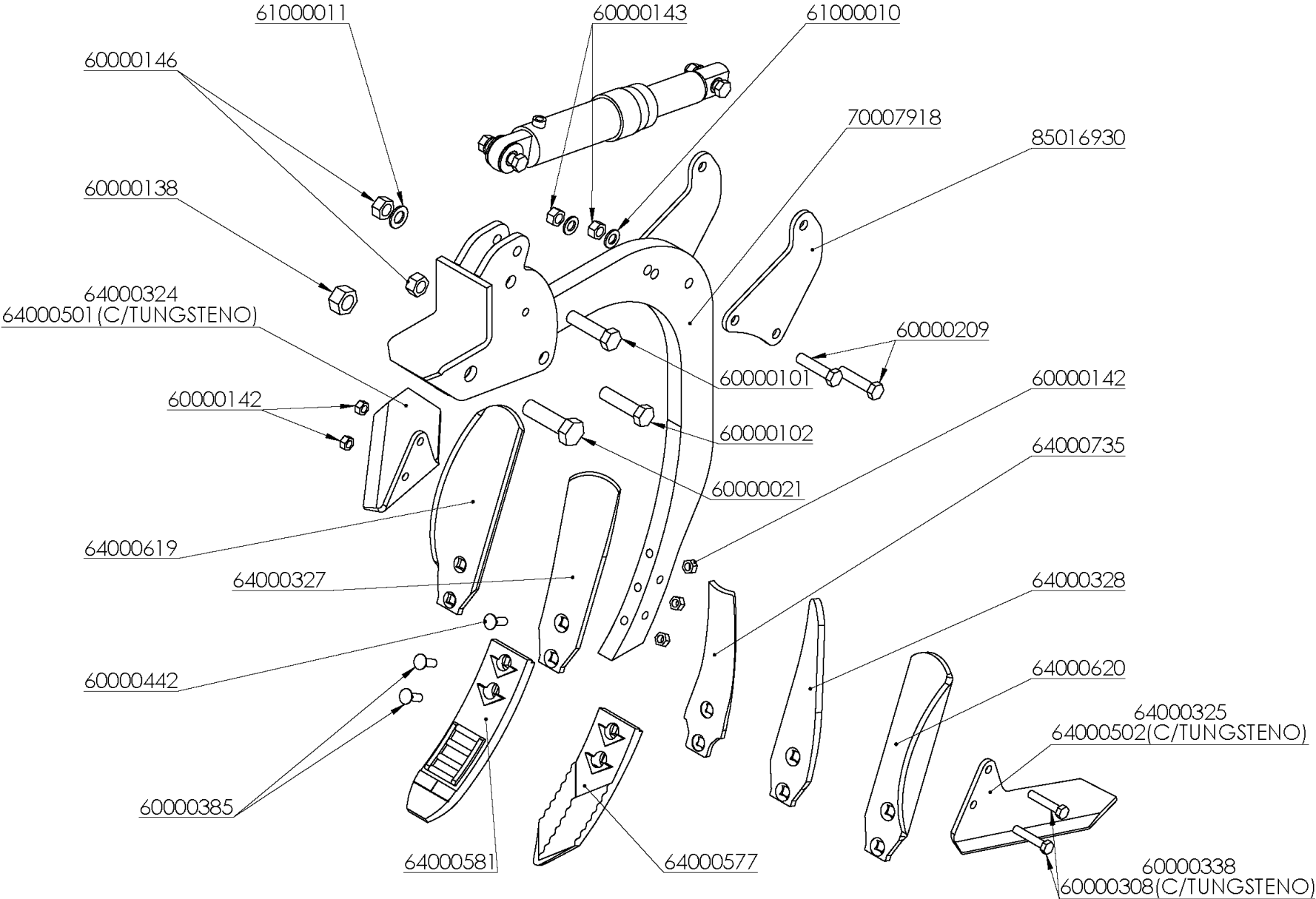


## AUTOMATIC TRANSPORT LOCKING

REFERENCIA	DESCRIPCIÓN
51000288	CILINDRO CASQUILLO D.E. 20/32/50
53000054	TE C/TCA.LOCA LATERAL 12 EVL12-PL
53000093	JUNTA METAL GOMA 1/4 11601
53000569	TORNILLO SIMPLE 1/4
53000651	LATIG.PREMIER-1/4* 800mm.TL-18/OR-1/4
60000070	TORN.EXAG.DIN-931 12*120 8.8 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000337	TORN.EXAG.DIN-931 12* 80 8.8 ZINC.
60000518	TORN.EXAG.DIN-931 16* 90 8.8 ZINC.
61000008	ARAND.DIN-125 12 ZINC.
61000010	ARAND.DIN-125 16 ZINC.
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
70021913	BULON D=25*135mm.BIELA GRADA ABAT.
71149904	SEP.TUBO 18*14*41mm.
71149921	GANCHO TRANQUE DCH.VHC
71149922	GANCHO TRANQUE IZQ.VHC
71149923	PLACA APOYO GANCHO TRANQUE VHC



# VHC BODY ASSEMBLY

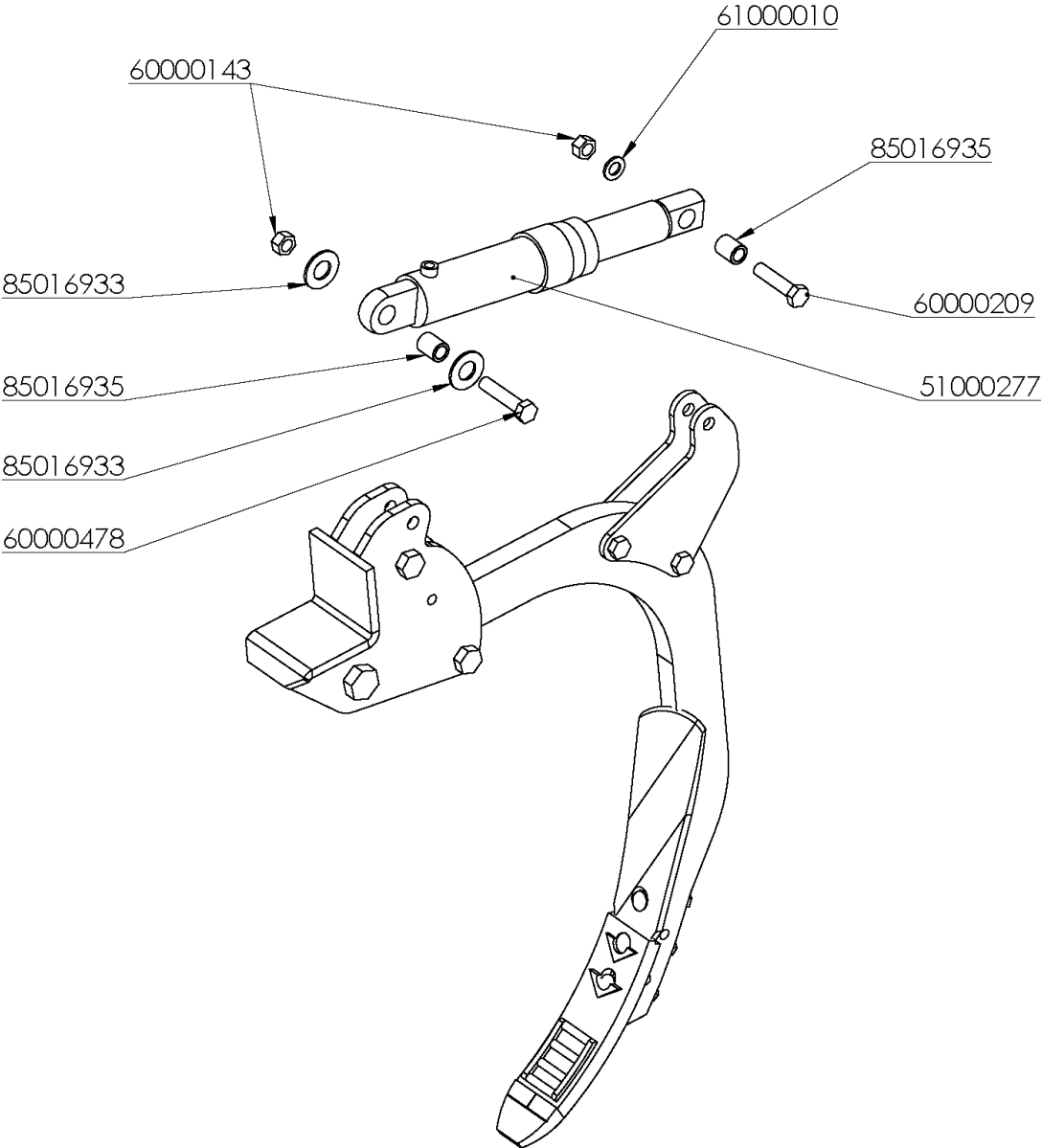


## VHC BODY ASSEMBLY

REFERENCIA	DESCRIPCIÓN
60000021	TORN.EXAG.C/LAR.1"* 85 SAE 12.9
60000101	TORN.EXAG.DIN-931 20* 80 10.9 ZINC.
60000102	TORN.EXAG.DIN-931 20* 80 8.8
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE
60000209	TORN.EXAG.C/LAR.16* 70 12.9 GEOMET
60000308	TORN.EXAG.C/LAR.12* 70 12.9
60000338	TORN.EXAG.DIN-931 12* 65 10.9 ZINC.
60000385	TORN.ARADO DIN-608 12*85 12.9
60000442	TORN.ARADO DIN-608 12*75 12.9
61000010	ARAND.DIN-125 16 ZINC.
61000011	ARAND.DIN-125 20 ZINC.
64000324	ALA LATERAL D VB 34060857N
64000325	ALA LATERAL I VB 34060856N
64000327	DEFLECTOR D VB 34060859N
64000328	DEFLECTOR I VB 34060858N
64000501	ALA DCH.VB (350x60x20) C/TUNGSTENO
64000502	ALA IZQD.VB (350x60x20) C/TUNGSTENO
64000577	PUNTA VERSATILL 2/A
64000581	PUNTA VERSATILL 2/A C/TUNGSTENO Y APORTE
64000619	DEFLECTOR D VB 34182600
64000620	DEFLECTOR I VB 34182700
64000735	PROTECTOR RECTO BRAZO VERSATILL
70007918	CAMBA VHC
85016930	PORTABALLESTAS VHC



# VHC BODY FINISHING



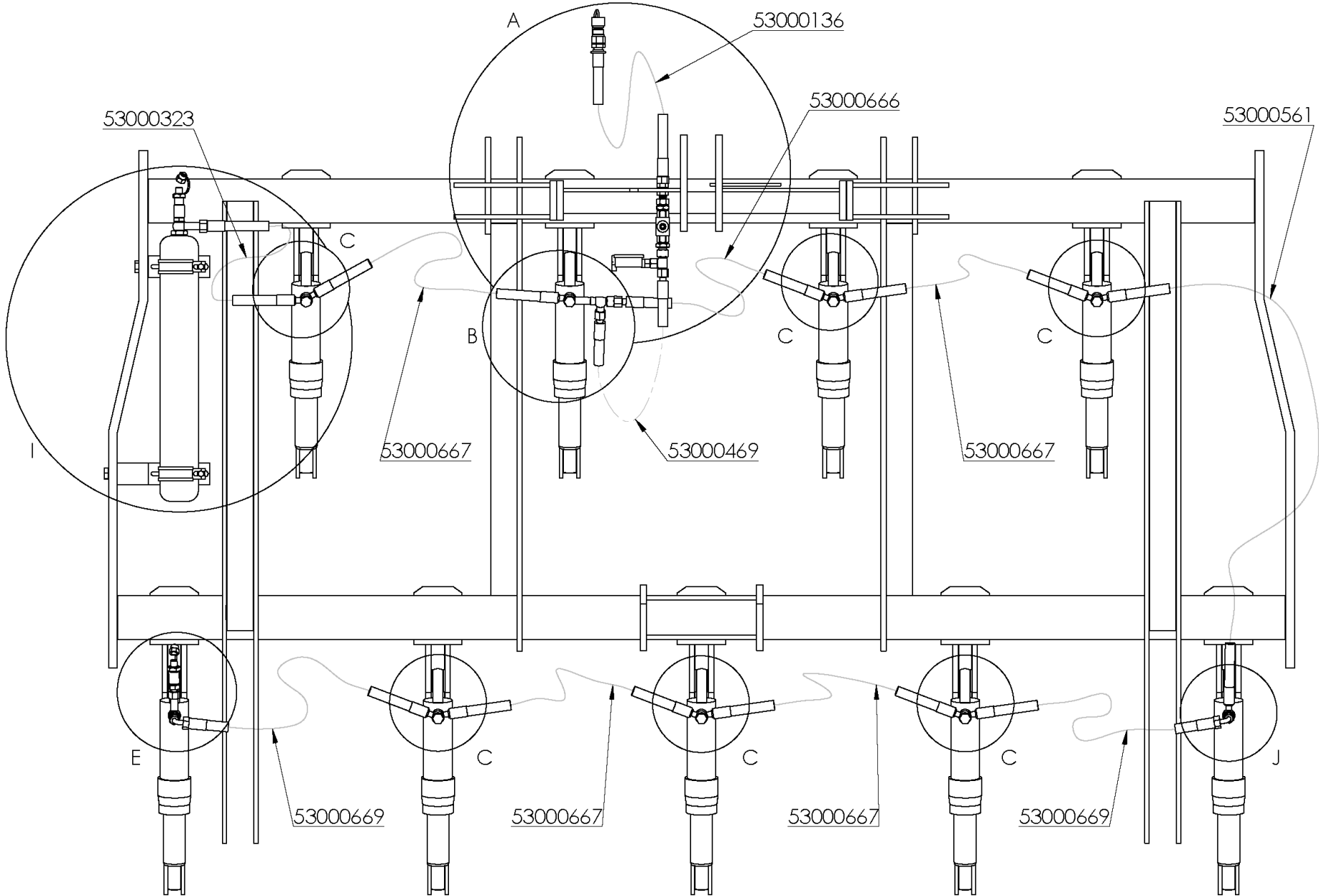


## VHC BODY FINISHING

REFERENCIA	DESCRIPCIÓN
51000277	CILIND.COMPRESION S.E. 50-65-125 ROT./CASQ.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000209	TORN.EXAG.C/LAR.16* 70 12.9 GEOMET
60000478	TORN.EXAG.C/LAR.16* 75 10.9 ZINC.
61000010	ARAND.DIN-125 16 ZINC.
85016933	ARANDELA NYLON 50*25*3mm
85016935	CASQ.D= 24,9/16,5*31mm.CILINDRO VHC



# HYDRAULIC VHC-2-9

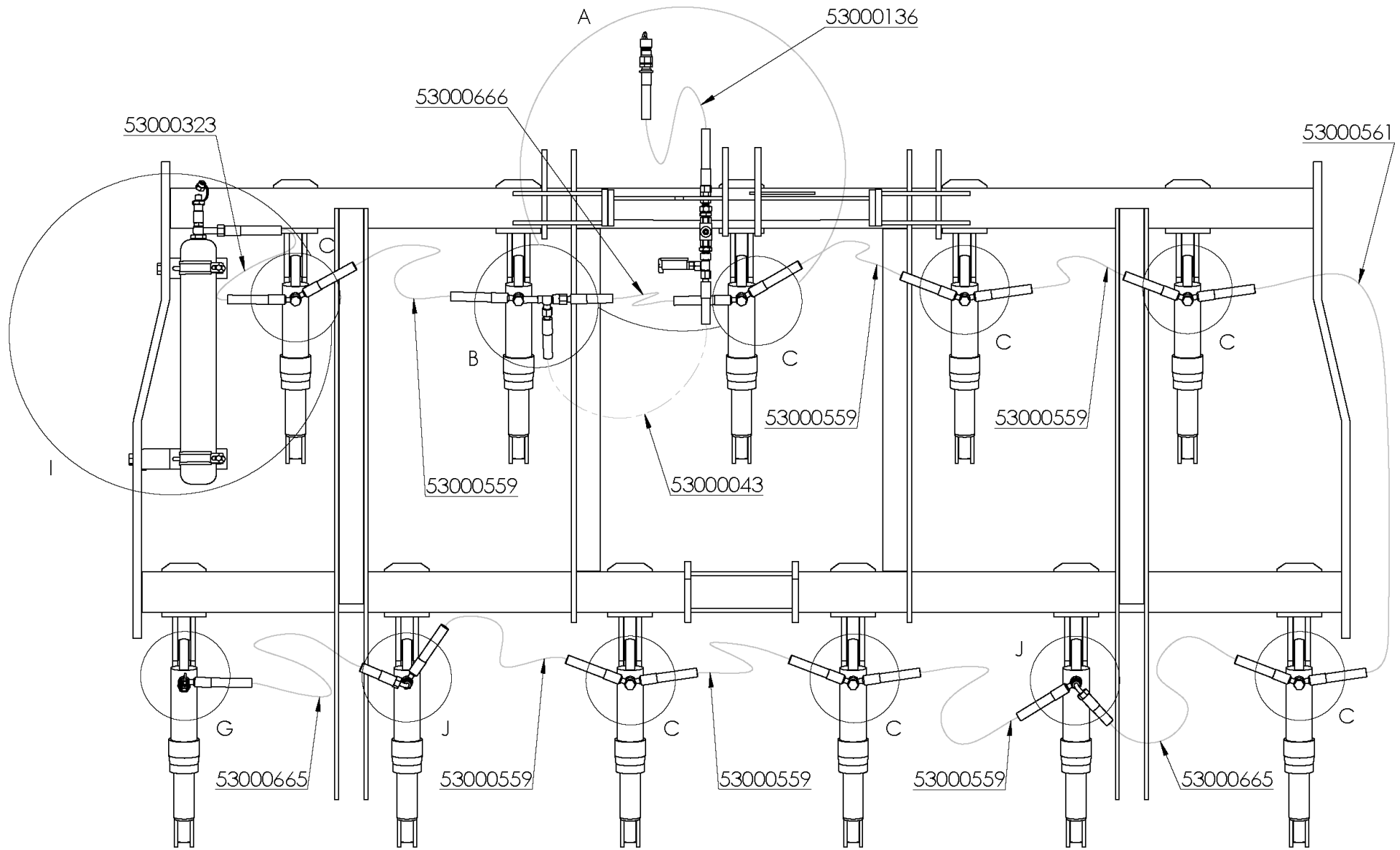


## HYDRAULIC VHC-2-9

REFERENCIA	DESCRIPCIÓN
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000323	LATIG.R2-3/8* 500mm.OR-3/8/TL-18
53000469	LATIG.R2-3/8* 613mm.TL-18/TL-18
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000666	LATIG.R2-3/8* 640mm.OR-3/8/TL-18
53000667	LATIG.R2-3/8*700mm.OR/OR-3/8
53000669	LATIG.R2-3/8*700mm.OR/CTL-3/8



# HYDRAULIC VHC-2-11

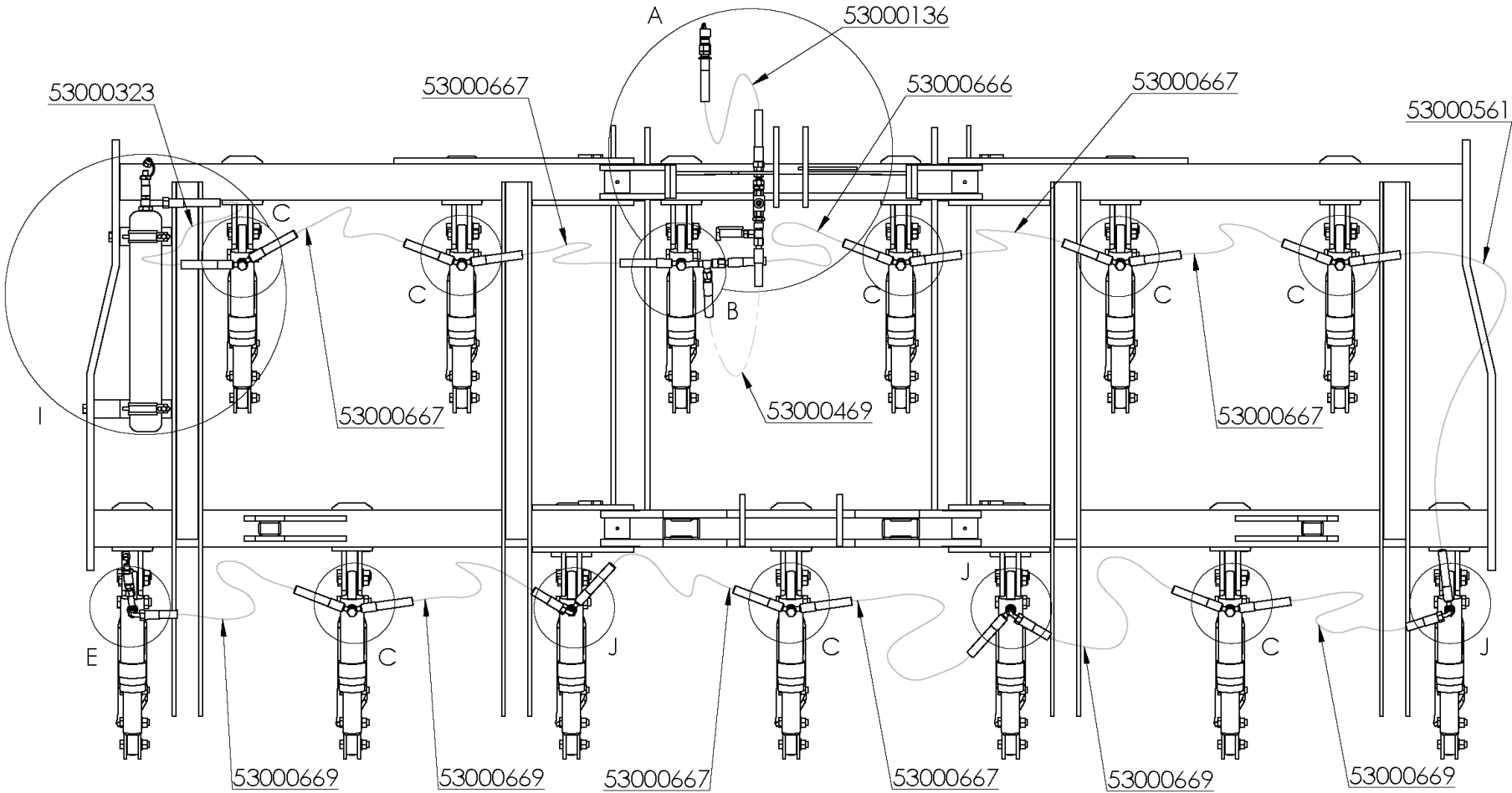


## HYDRAULIC VHC-2-11

REFERENCIA	DESCRIPCIÓN
53000043	LATIG.R2-3/8* 830mm.TL-18/TL-18
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000323	LATIG.R2-3/8* 500mm.OR-3/8/TL-18
53000559	LATIG.R2-3/8*680mm.OR/OR-3/8
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000665	LATIG.R2-3/8*680mm.OR/CTL-3/8
53000666	LATIG.R2-3/8* 640mm.OR-3/8/TL-18



# HYDRAULIC VHC-2-13-P

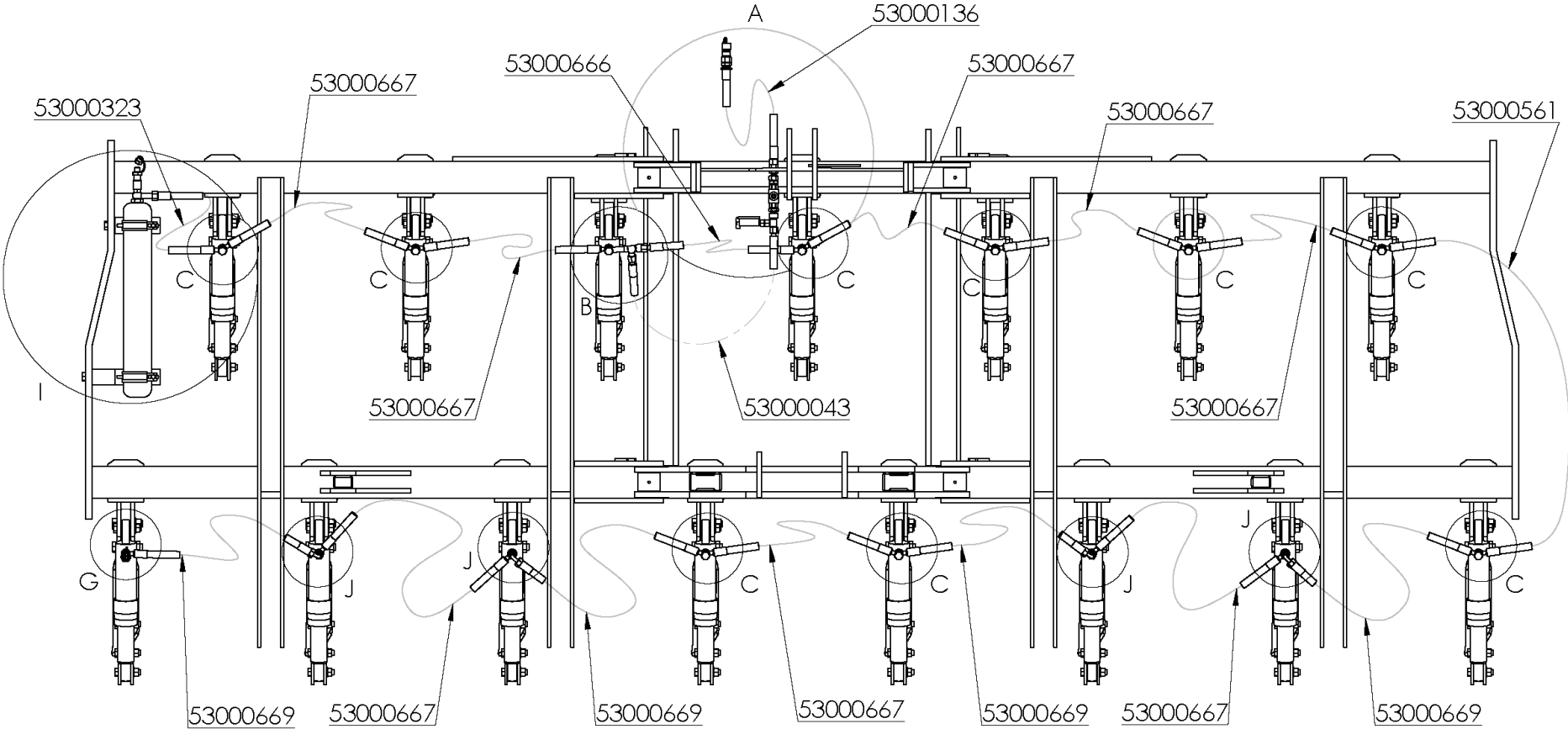


## HYDRAULIC VHC-2-13-P

REFERENCIA	DESCRIPCIÓN
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000323	LATIG.R2-3/8* 500mm.OR-3/8/TL-18
53000469	LATIG.R2-3/8* 613mm.TL-18/TL-18
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000666	LATIG.R2-3/8* 640mm.OR-3/8/TL-18
53000667	LATIG.R2-3/8*700mm.OR/OR-3/8
53000669	LATIG.R2-3/8*700mm.OR/CTL-3/8



HYDRAULIC VHC-2-15-P



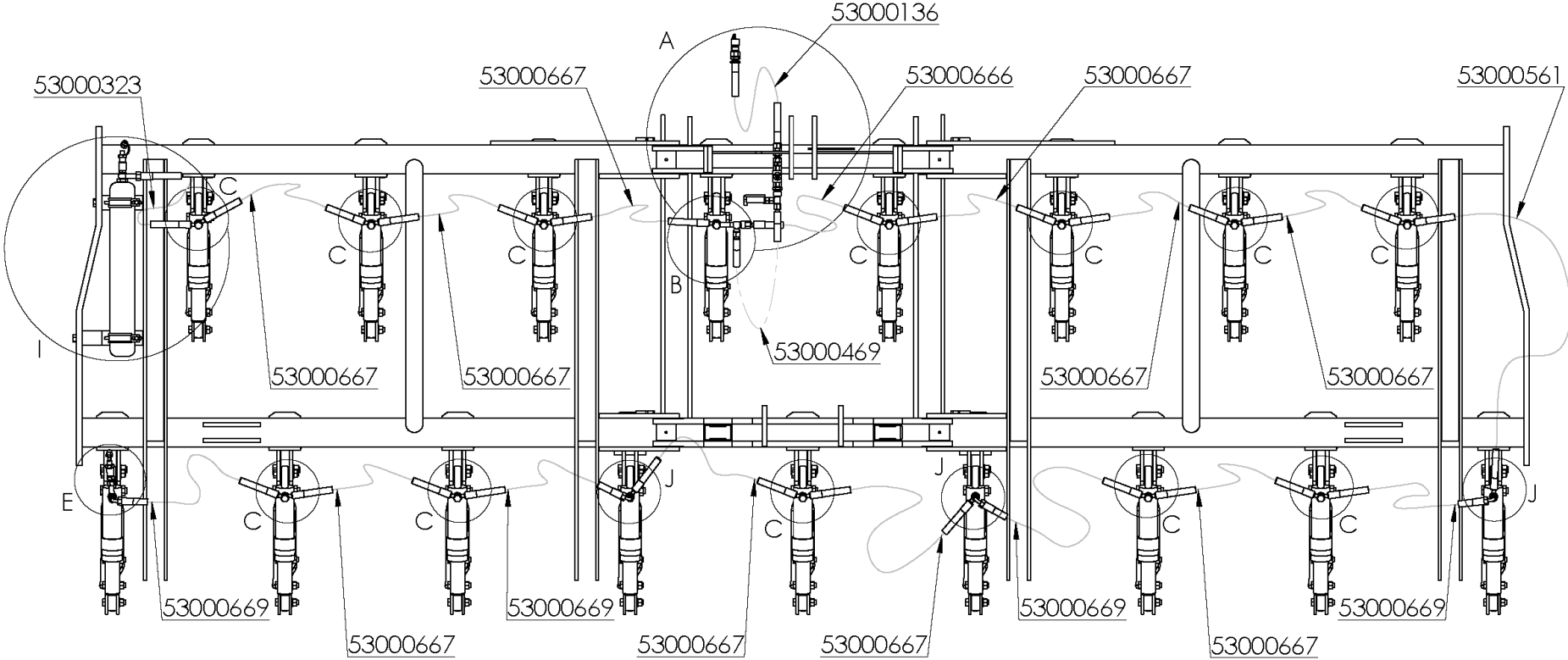


## HYDRAULIC VHC-2-15-P

REFERENCIA	DESCRIPCIÓN
53000043	LATIG.R2-3/8* 830mm.TL-18/TL-18
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000323	LATIG.R2-3/8* 500mm.OR-3/8/TL-18
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000666	LATIG.R2-3/8* 640mm.OR-3/8/TL-18
53000667	LATIG.R2-3/8*700mm.OR/OR-3/8
53000669	LATIG.R2-3/8*700mm.OR/CTL-3/8



# HYDRAULIC VHC-2-17-P

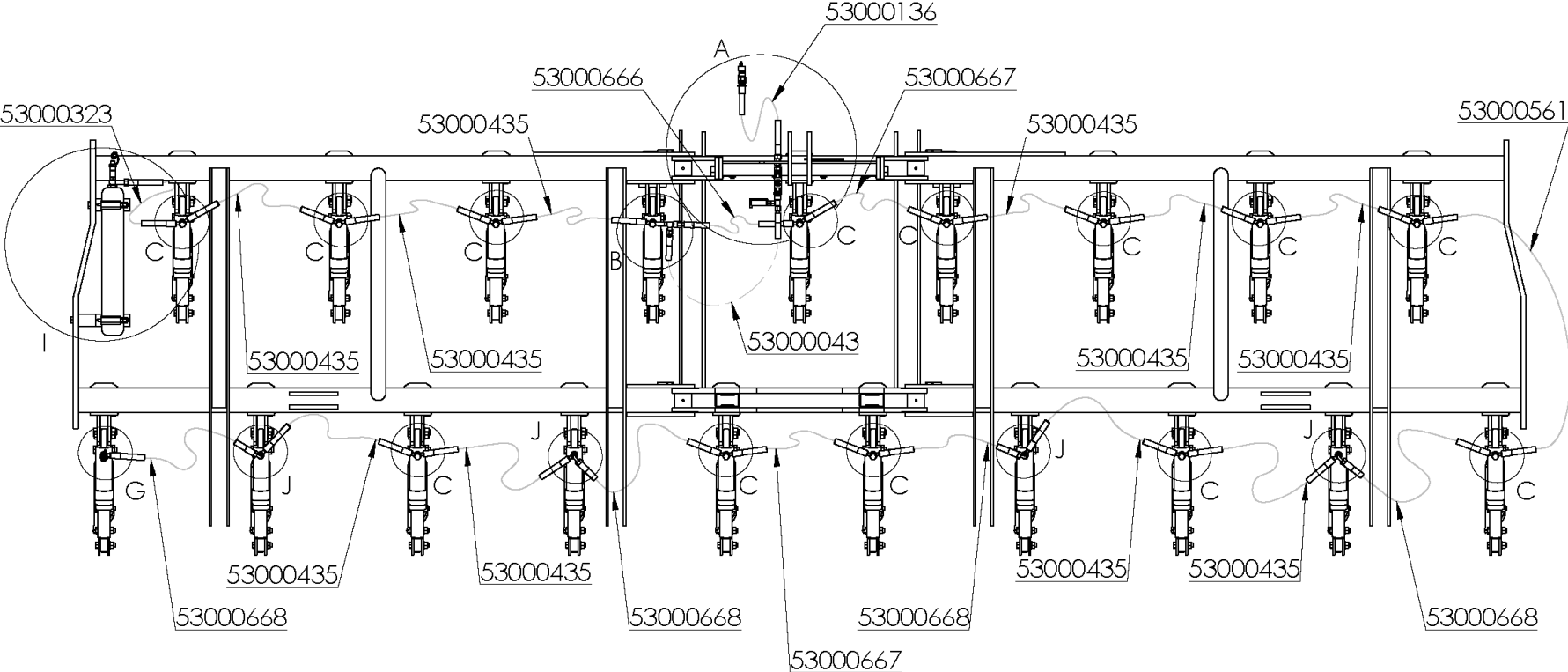


## HYDRAULIC VHC-2-17-P

REFERENCIA	DESCRIPCIÓN
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000323	LATIG.R2-3/8* 500mm.OR-3/8/TL-18
53000469	LATIG.R2-3/8* 613mm.TL-18/TL-18
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000666	LATIG.R2-3/8* 640mm.OR-3/8/TL-18
53000667	LATIG.R2-3/8*700mm.OR/OR-3/8
53000669	LATIG.R2-3/8*700mm.OR/CTL-3/8



HYDRAULIC VHC-2-19-P

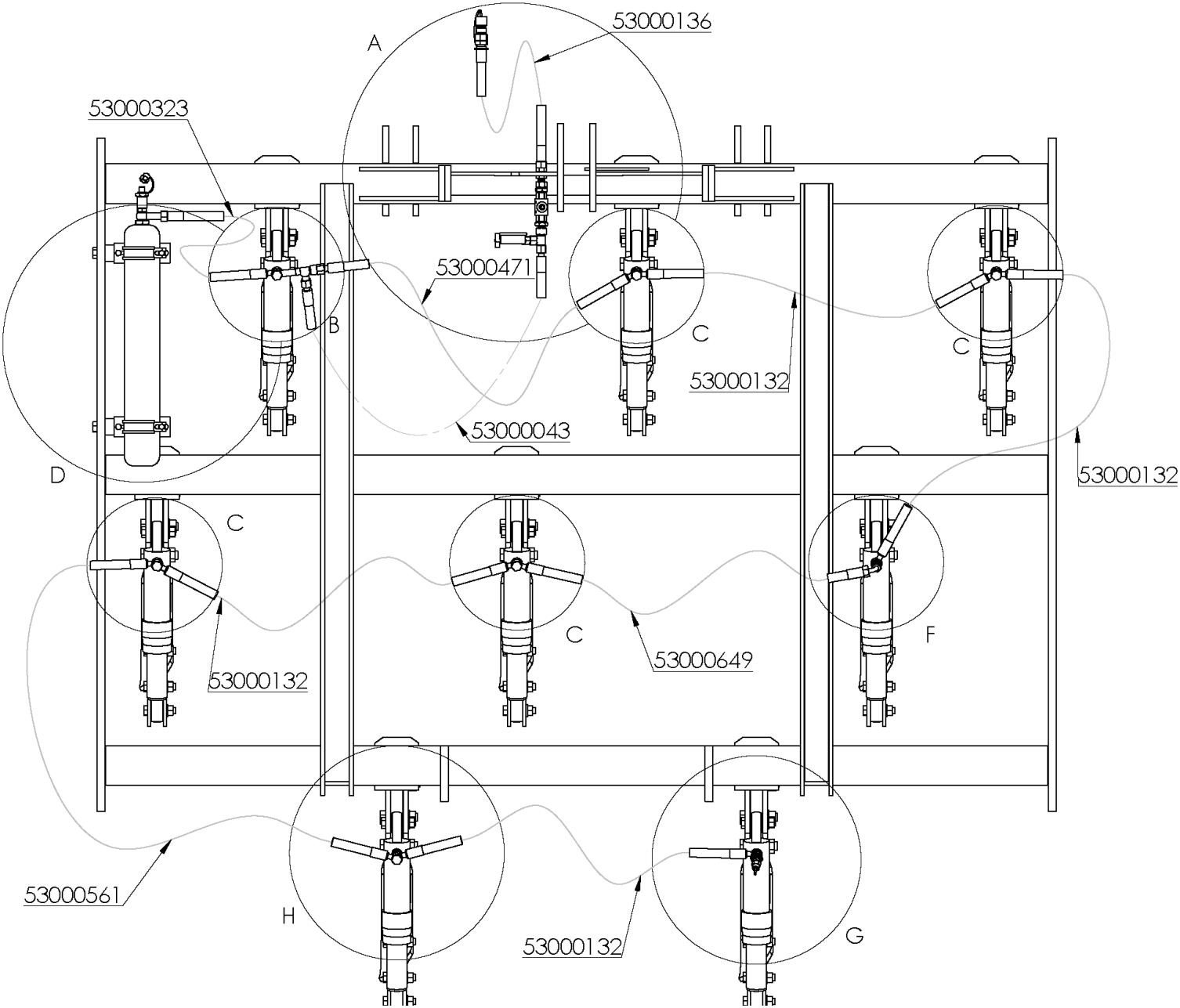


## HYDRAULIC VHC-2-19-P

REFERENCIA	DESCRIPCIÓN
53000043	LATIG.R2-3/8* 830mm.TL-18/TL-18
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000323	LATIG.R2-3/8* 500mm.OR-3/8/TL-18
53000435	LATIG.R2-3/8* 750mm.OR/OR-3/8
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000666	LATIG.R2-3/8* 640mm.OR-3/8/TL-18
53000667	LATIG.R2-3/8* 700mm.OR/OR-3/8
53000668	LATIG.R2-3/8*730mm.OR/CTL-3/8



HYDRAULIC VHC-3-8

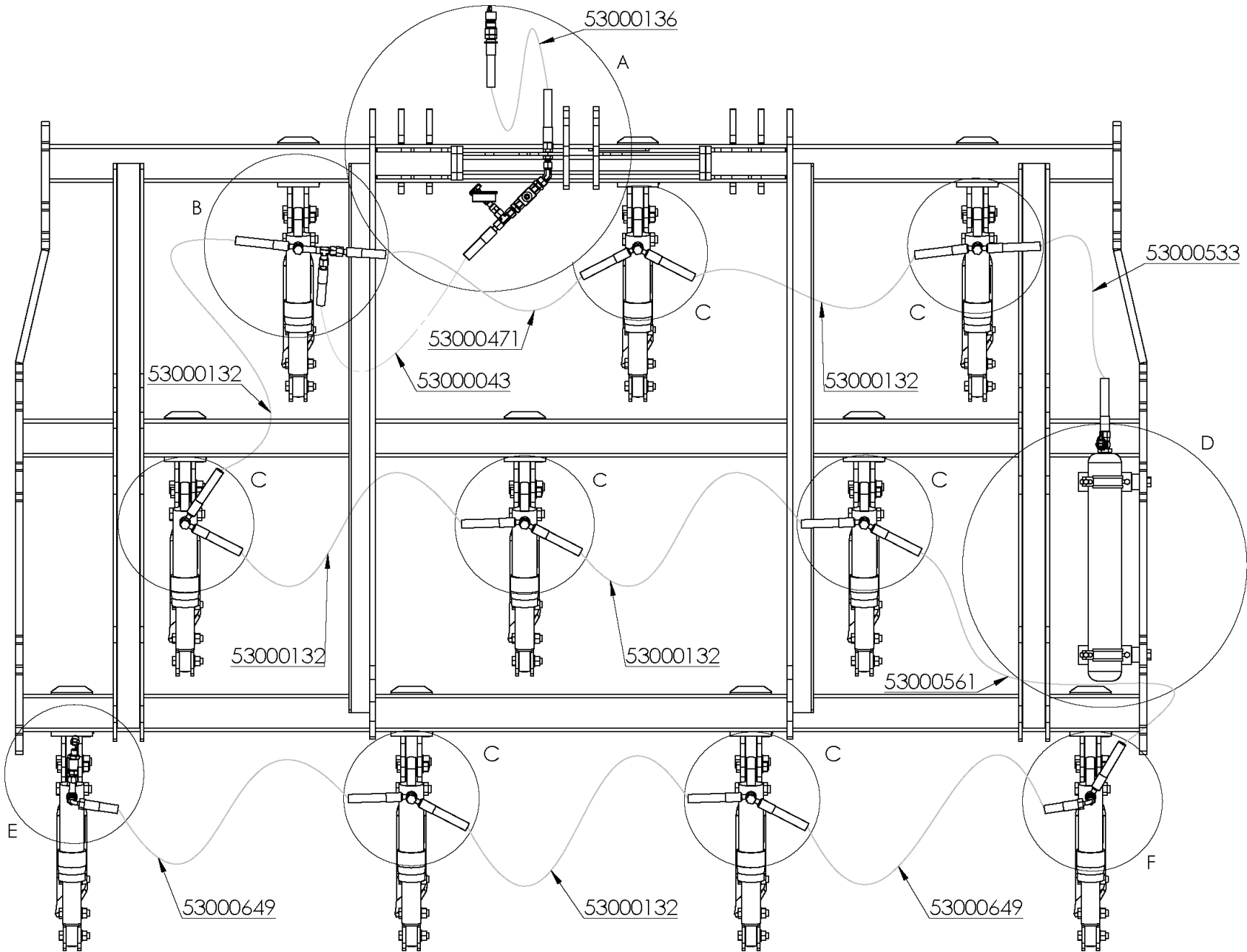


## HYDRAULIC VHC-3-8

REFERENCIA	DESCRIPCIÓN
53000043	LATIG.R2-3/8* 830mm.TL-18/TL-18
53000132	LATIG.R2-3/8*1000mm.OR/OR-3/8
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000323	LATIG.R2-3/8* 500mm.OR-3/8/TL-18
53000471	LATIG.R2-3/8* 970mm.OR-3/8/TL-18
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000649	LATIG.R2-3/8*1000mm.OR-3/8/CTL-3/8



# HYDRAULIC VHC-3-10



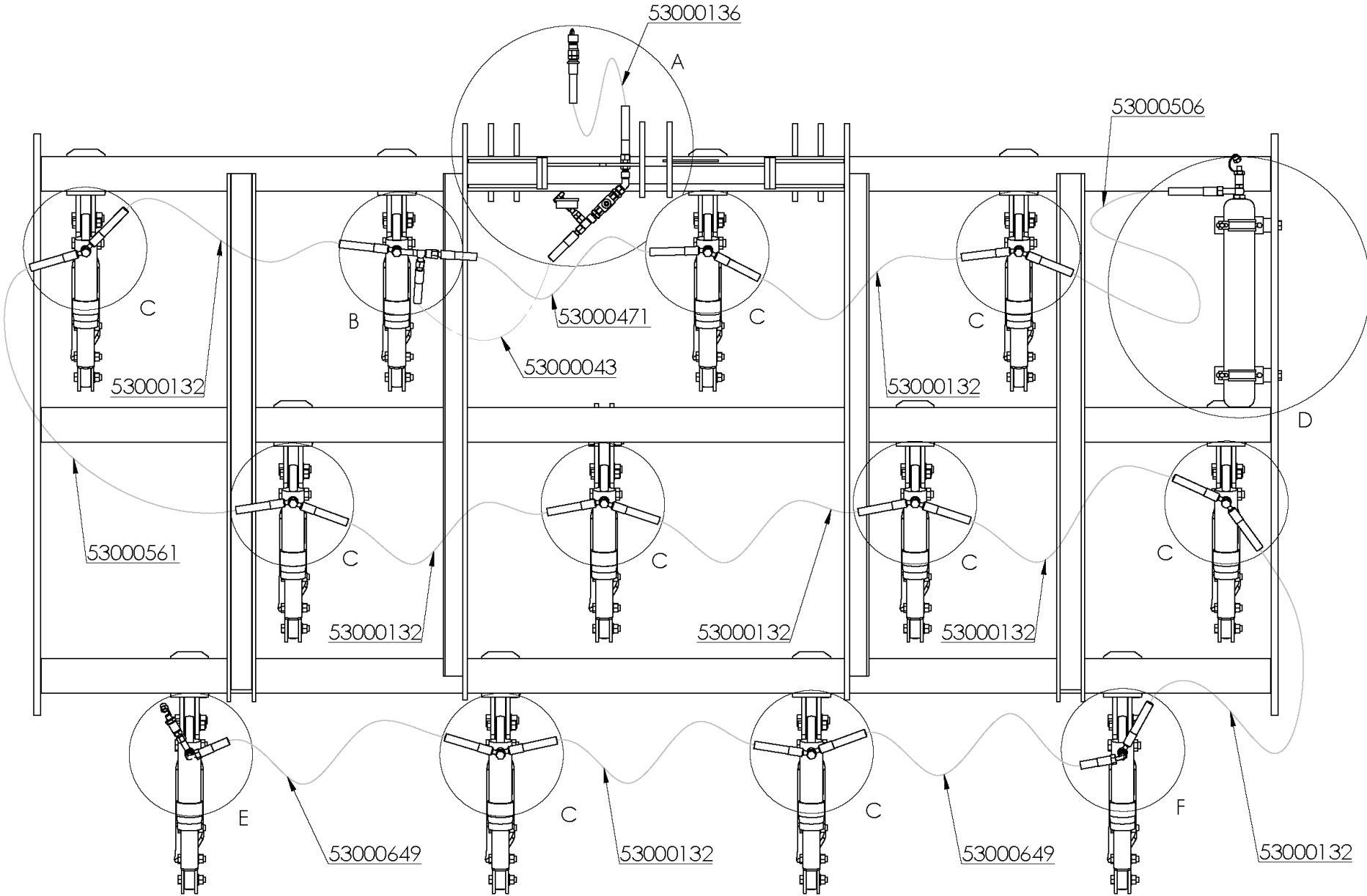


## HYDRAULIC VHC-3-10

REFERENCIA	DESCRIPCIÓN
53000043	LATIG.R2-3/8* 830mm.TL-18/TL-18
53000132	LATIG.R2-3/8*1000mm.OR/OR-3/8
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000471	LATIG.R2-3/8* 970mm.OR-3/8/TL-18
53000533	LATIG.R2-3/8* 750mm.OR-3/8/TL-3/8
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000649	LATIG.R2-3/8*1000mm.OR-3/8/CTL-3/8



# HYDRAULIC VHC-3-12

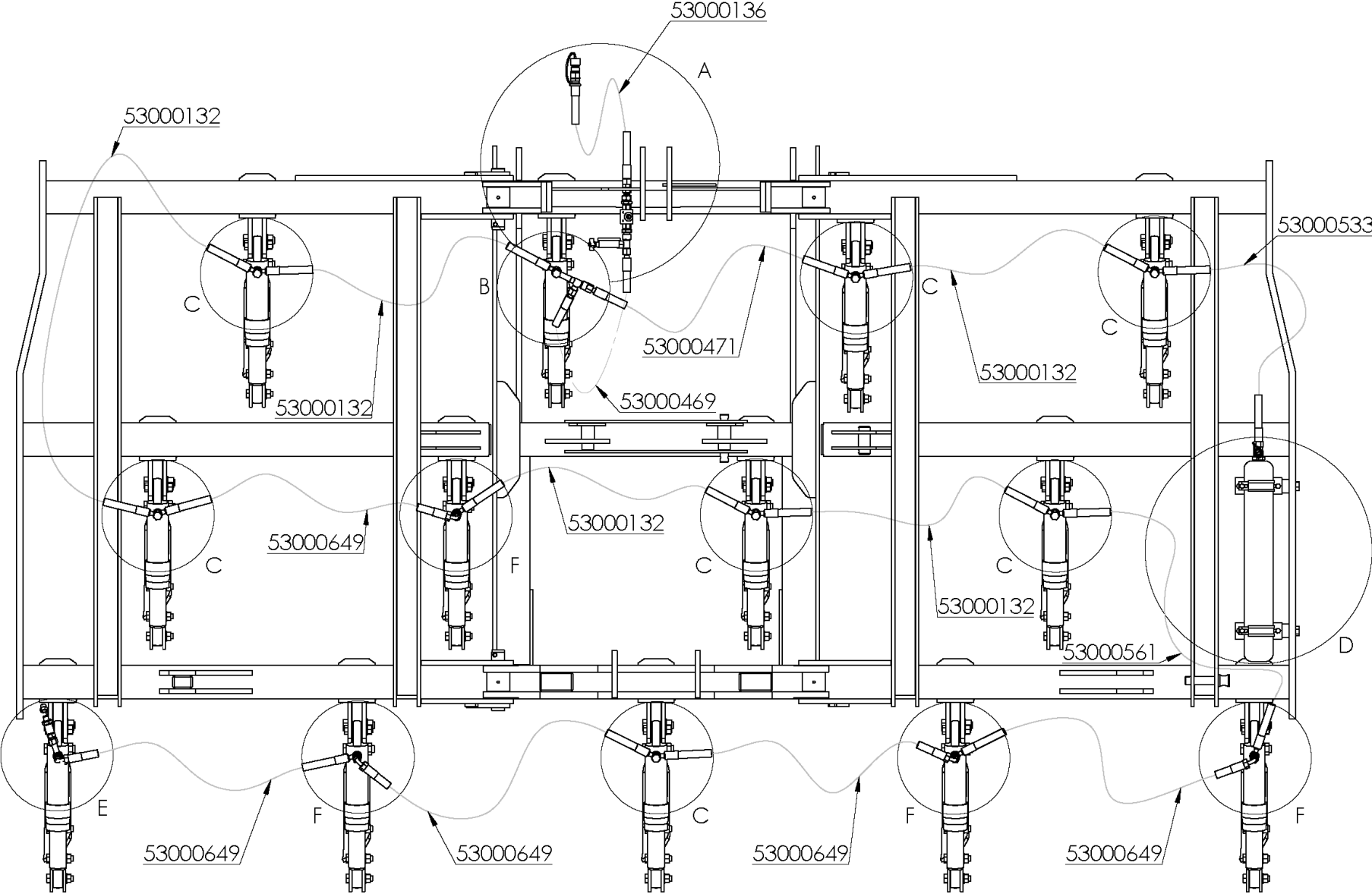


## HYDRAULIC VHC-3-12

REFERENCIA	DESCRIPCIÓN
53000132	LATIG.R2-3/8*1000mm.OR/OR-3/8
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000043	LATIG.R2-3/8* 830mm.TL-18/TL-18
53000471	LATIG.R2-3/8* 970mm.OR-3/8/TL-18
53000506	LATIG.R2-3/8* 800mm.OR-3/8/TL-18
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000649	LATIG.R2-3/8*1000mm.OR-3/8/CTL-3/8



# HYDRAULIC VHC-3-13-P

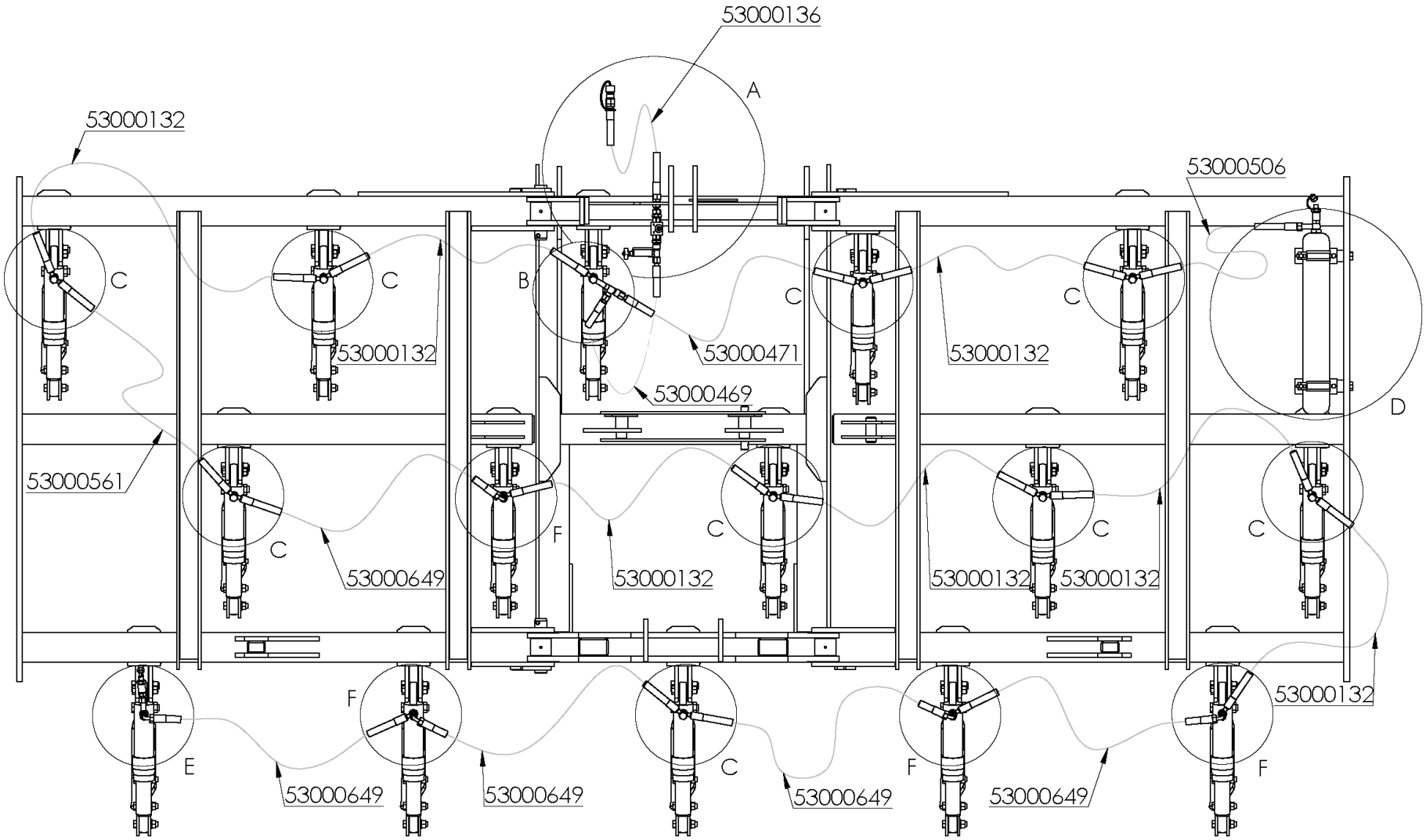


## HYDRAULIC VHC-3-13-P

REFERENCIA	DESCRIPCIÓN
53000132	LATIG.R2-3/8*1000mm.OR/OR-3/8
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000469	LATIG.R2-3/8* 613mm.TL-18/TL-18
53000471	LATIG.R2-3/8* 970mm.OR-3/8/TL-18
53000533	LATIG.R2-3/8* 750mm.OR-3/8/TL-3/8
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000649	LATIG.R2-3/8*1000mm.OR-3/8/CTL-3/8



HYDRAULIC VHC-3-15-P

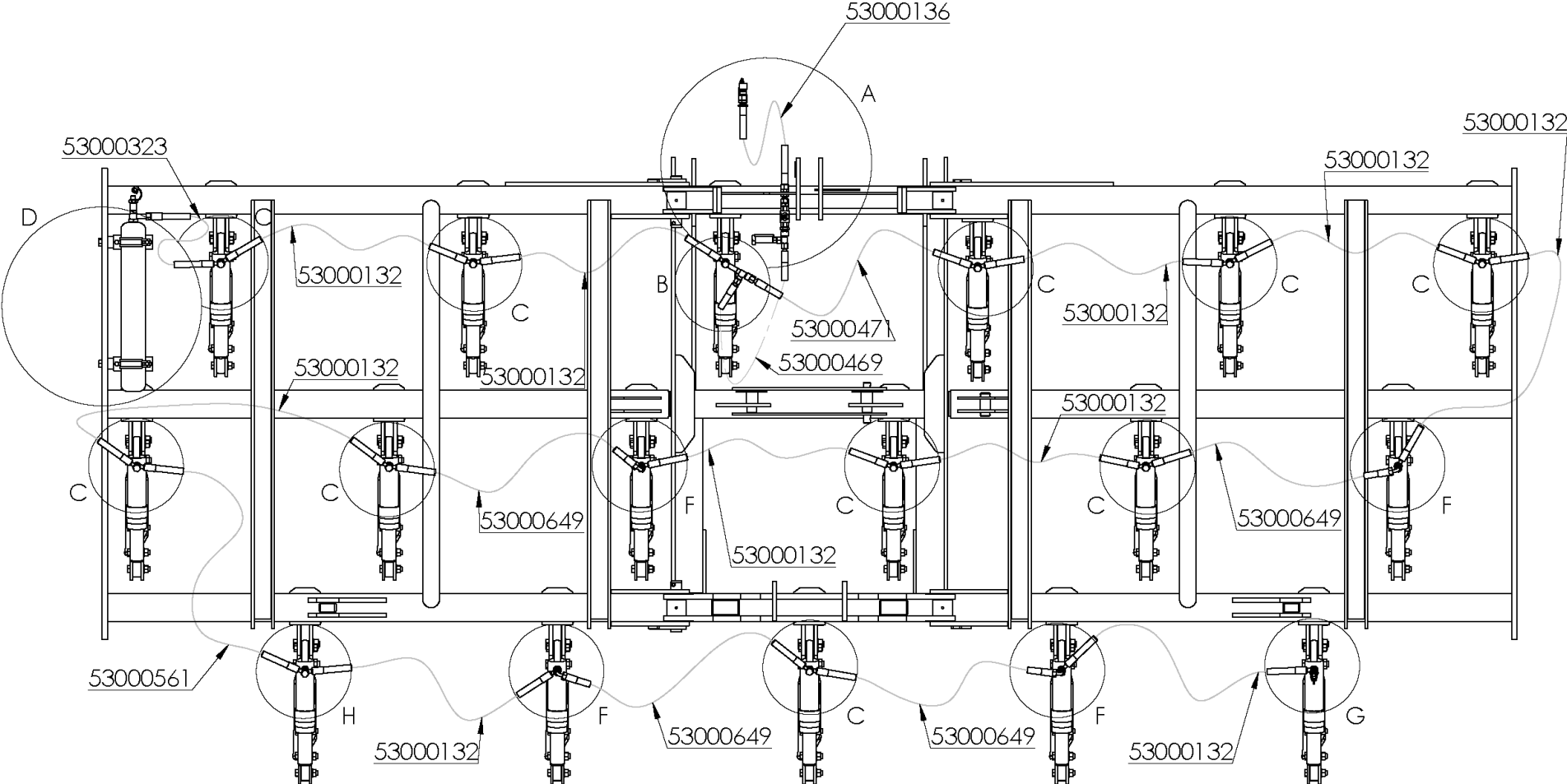


## HYDRAULIC VHC-3-15-P

REFERENCIA	DESCRIPCIÓN
53000132	LATIG.R2-3/8*1000mm.OR/OR-3/8
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000469	LATIG.R2-3/8* 613mm.TL-18/TL-18
53000471	LATIG.R2-3/8* 970mm.OR-3/8/TL-18
53000506	LATIG.R2-3/8* 800mm.OR-3/8/TL-18
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000649	LATIG.R2-3/8*1000mm.OR-3/8/CTL-3/8



# HYDRAULIC VHC-3-17-P



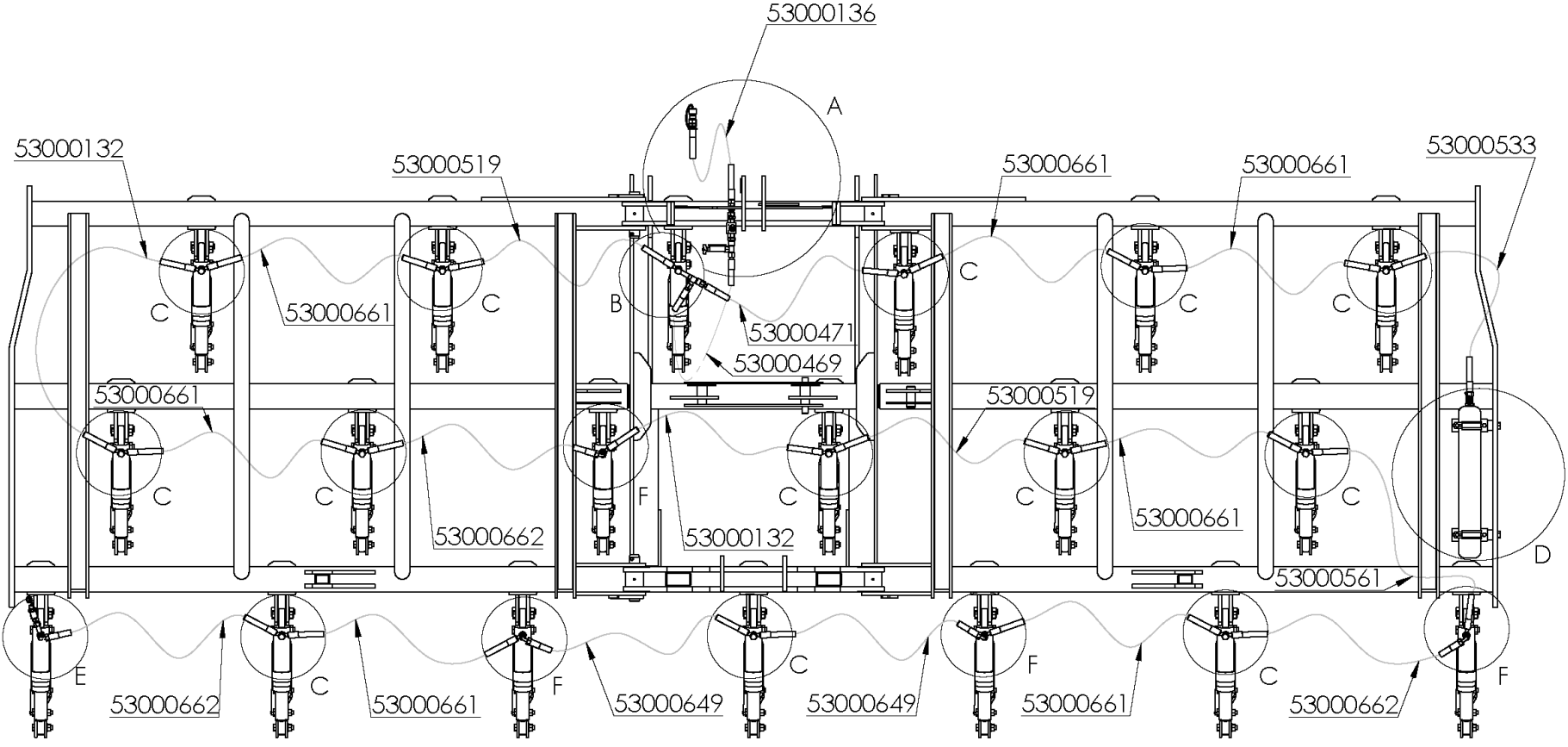


## HYDRAULIC VHC-3-17-P

REFERENCIA	DESCRIPCIÓN
53000132	LATIG.R2-3/8*1000mm.OR/OR-3/8
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000469	LATIG.R2-3/8* 613mm.TL-18/TL-18
53000471	LATIG.R2-3/8* 970mm.OR-3/8/TL-18
53000323	LATIG.R2-3/8* 500mm.OR-3/8/TL-18
53000649	LATIG.R2-3/8*1000mm.OR-3/8/CTL-3/8



# HYDRAULIC VHC-3-19-P



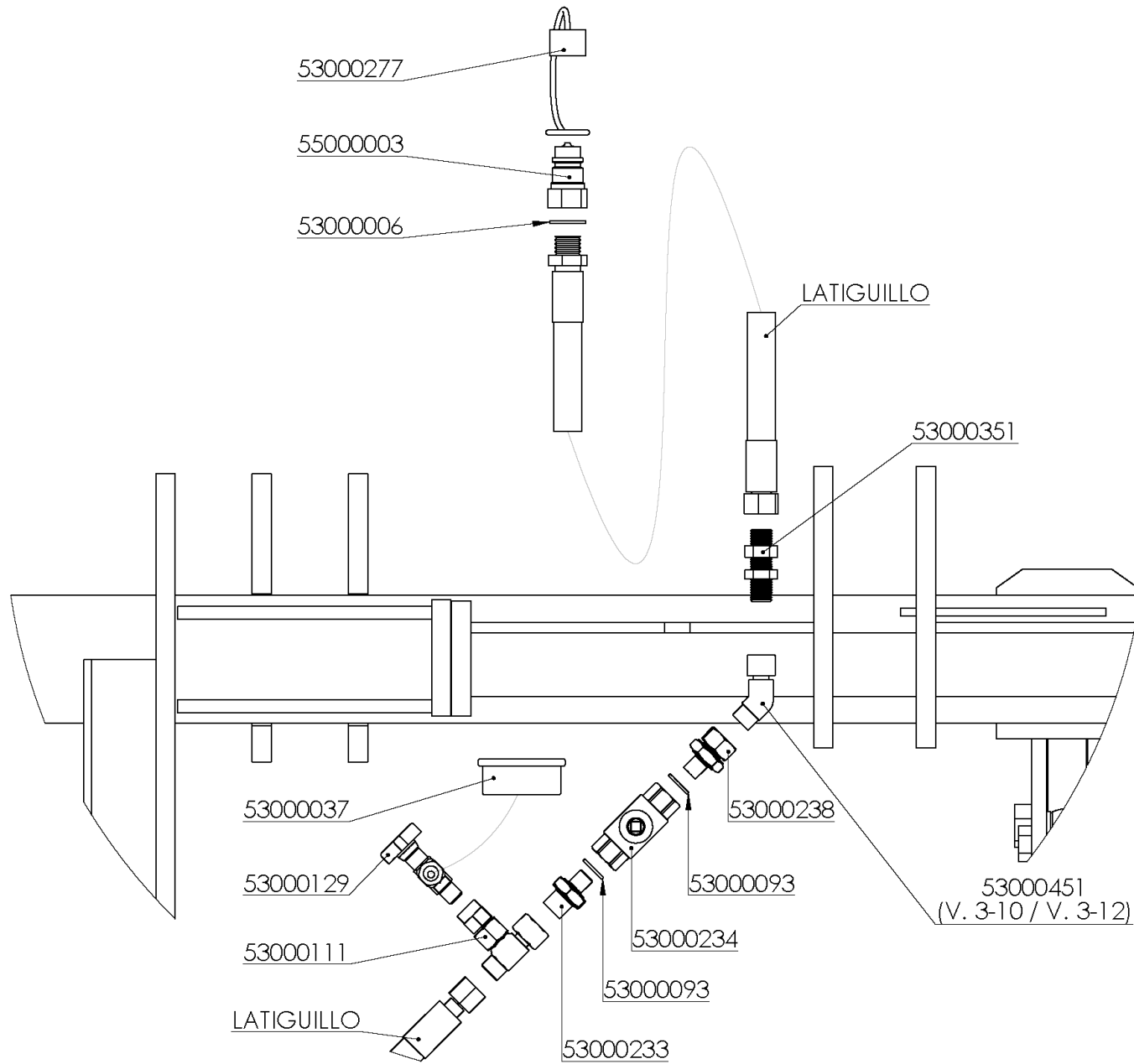
## HYDRAULIC VHC-3-19-P

REFERENCIA	DESCRIPCIÓN
53000132	LATIG.R2-3/8*1000mm.OR/OR-3/8
53000136	LATIG.R2-3/8*1400mm.MF-1/2/TL-3/8
53000469	LATIG.R2-3/8* 613mm.TL-18/TL-18
53000471	LATIG.R2-3/8* 970mm.OR-3/8/TL-18
53000519	LATIG.R2-3/8*1040mm.OR/OR-3/8
53000533	LATIG.R2-3/8* 750mm.OR-3/8/TL-3/8
53000561	LATIG.R2-3/8*1200mm.OR/OR-3/8
53000649	LATIG.R2-3/8*1000mm.OR-3/8/CTL-3/8
53000661	LATIG.R2-3/8*1060mm.OR/OR-3/8
53000662	LATIG.R2-3/8*1060mm.OR-3/8/CTL-3/8



# DETAIL-A

DETALLE A  
ESCALA 1 : 4



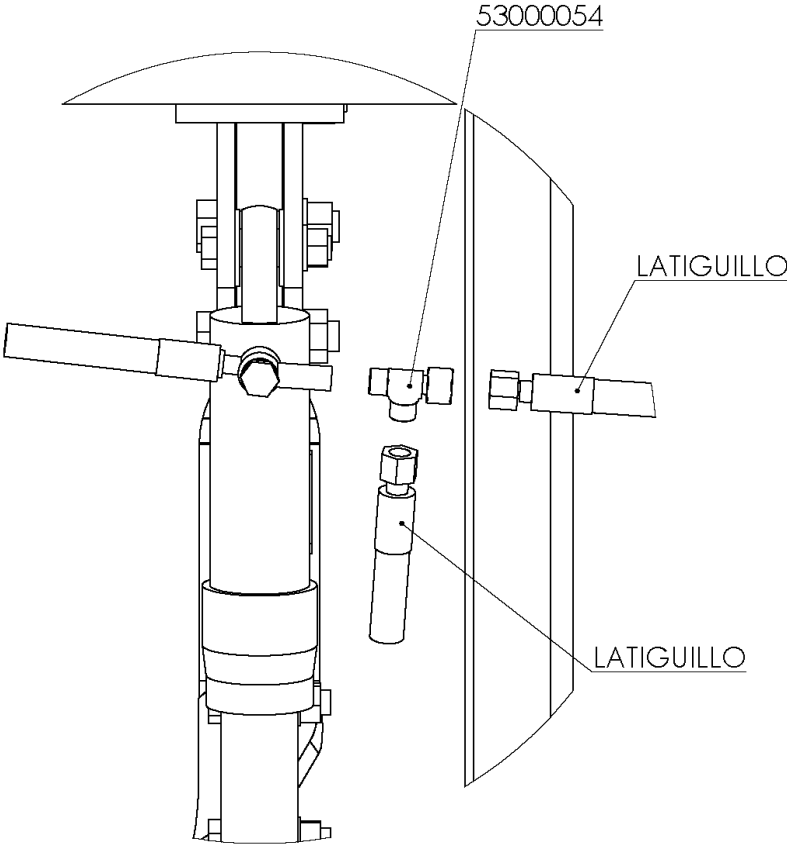
## DETAIL -A

REFERENCIA	DESCRIPCIÓN
53000006	JUNTA METAL/GOMA 1/2" 11603
53000037	MANOM.GLIC.63 0-315 (MOD.OVLAC) 263R0-315
53000093	JUNTA METAL GOMA 1/4" 11601
53000111	UNION HEMBRA MANOMETRO MAVE12-L
53000129	PROTECTOR MANOMETRO CODO 1/4 FT-291
53000233	UNION MACHO BSP 12-1/4 GE12-L1/4
53000234	VALV.ESFERA 2/2 1/4 GE2 DN6
53000238	REDUCCION MACHO-TUERCA LOCA 1/4-3/8 4322
53000277	PROTECTOR E.R.MACHO 1/2" AZUL 5029-4PB
53000351	PASATABIQUES 3/8 C/TUERCA
53000451	CODO 45° C/TCA.LOCA 3/8 S952-17
55000003	ADAPTADOR E.R.FASTER 1/2" 30410108



DETAIL -B

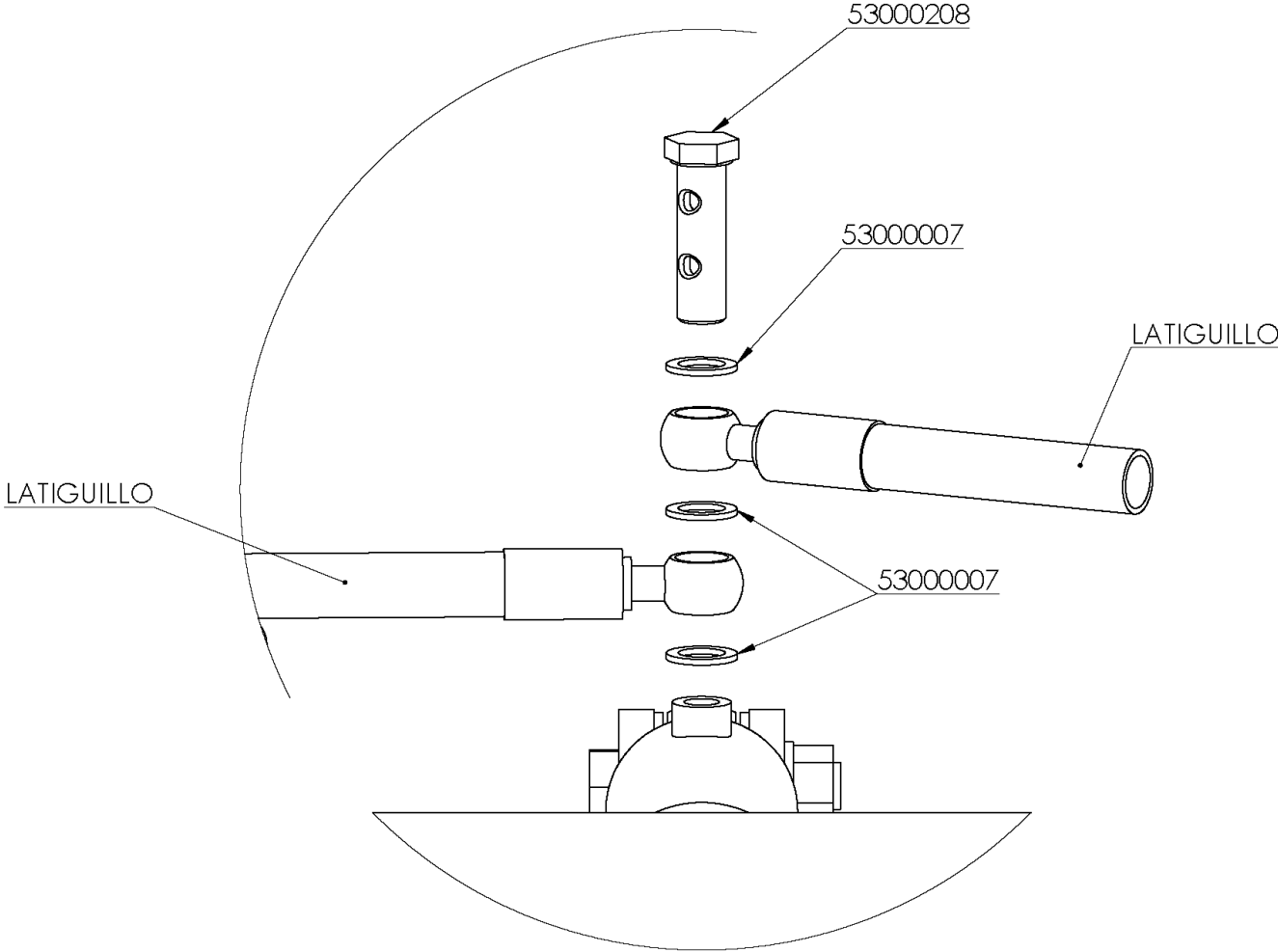
DETALLE B  
ESCALA 1 : 4



## DETAIL -B

REFERENCIA	DESCRIPCIÓN
53000054	TE C/TCA.LOCA LATERAL 12      EVL12-PL







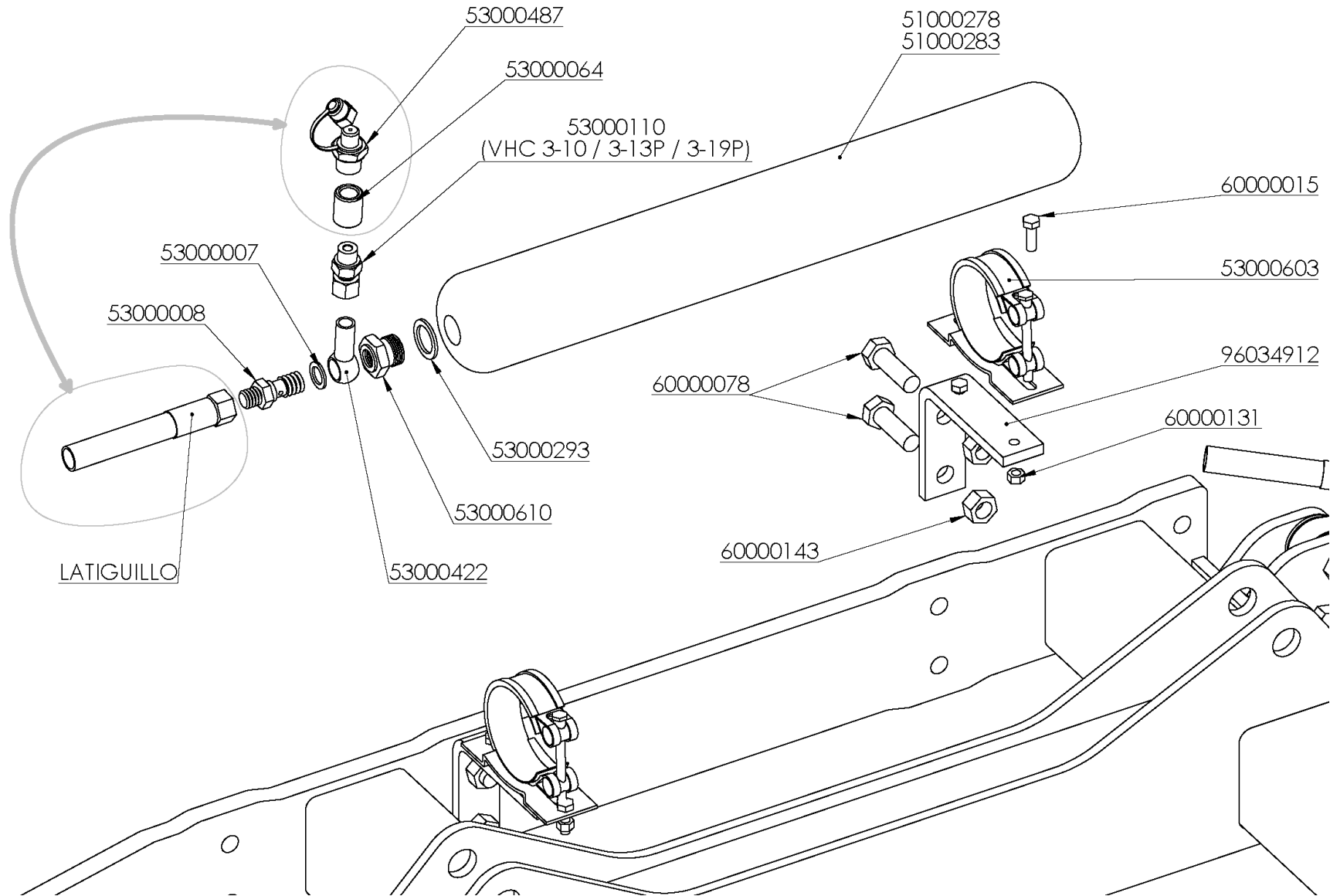
## DETAIL -C

REFERENCIA	DESCRIPCIÓN
53000007	JUNTA METAL/GOMA 3/8" 11602
53000208	TORNILLO DOBLE 3/8" 4032



DETAIL -D

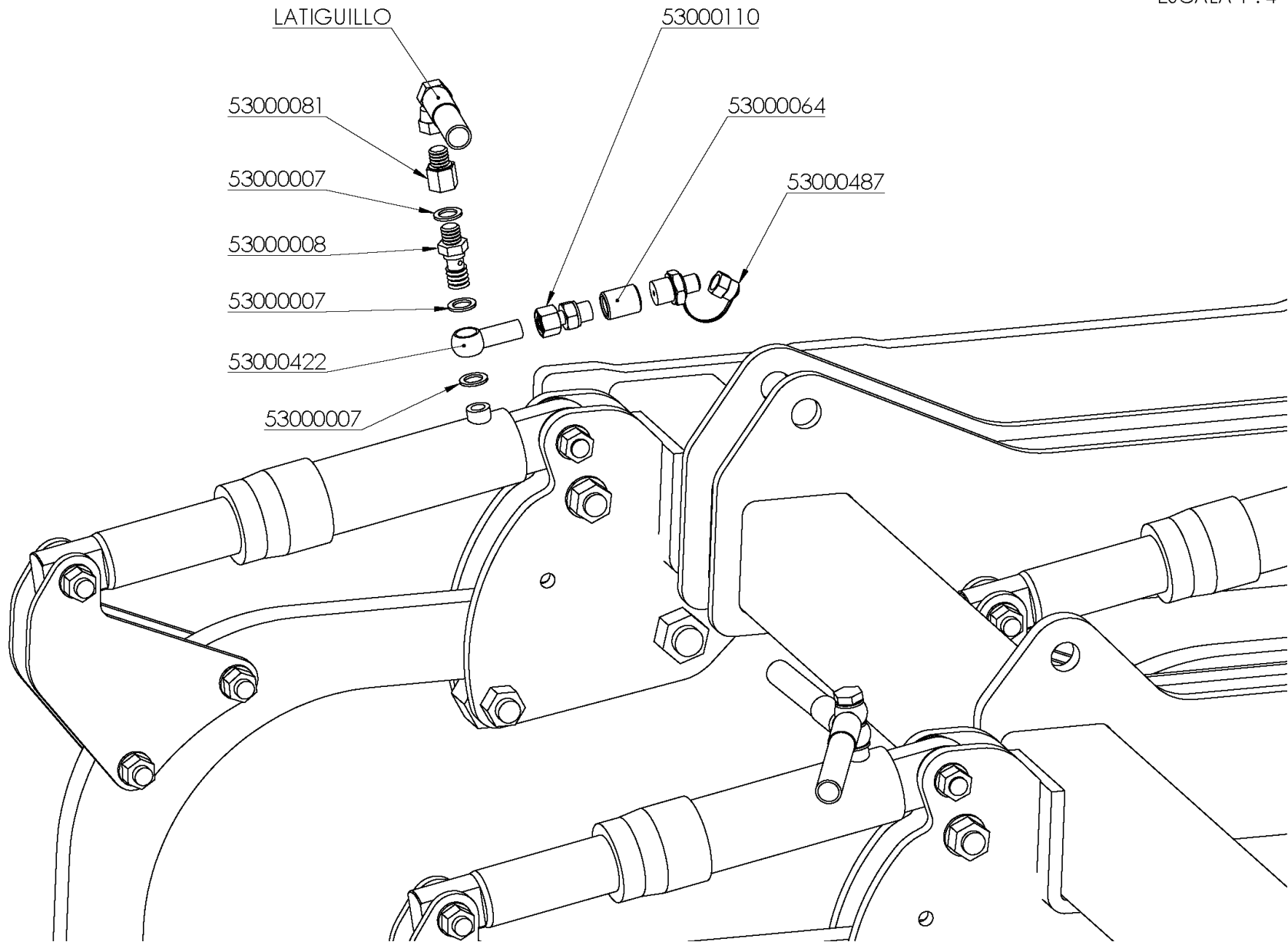
DETALLE D  
ESCALA 1 : 4



## DETAIL -D

REFERENCIA	DESCRIPCIÓN
51000278	ACUMULADOR 2 L. SK280-2/3218U-280AAE-VB-08-120 RAL 7047
51000283	ACUMULADOR 3 L. SK280-3/3218U-280AAE-VB-08-120 RAL 7047
53000007	JUNTA METAL/GOMA 3/8" 11602
53000008	TORNILLO PROLONGACION 3/8 4182
53000064	MANGUITO UNION 3/8 4132
53000110	MACHO BSP 3/8 TUERCA LOCA 12 EVGE12-L
53000293	JUNTA METAL/GOMA 3/4" 11604
53000422	ESFERICO 3/8" + UNION TUBO/TUBO 12 4002E+12L
53000487	ADAPTADOR M.TOMA PRESION 3/8-16x200 MH191606
53000603	ABRAZ.ACUM.SK280-3L. PISTON 80MM. HRGKSM 0 R 92-95/96 ST
53000610	REDUCCION MACHO-HEMBRA 3/4"-3/8" ROSCA BSP 4162
60000015	TORN.EXAG.DIN-933 8* 25 8.8 ZINC.
60000078	TORN.EXAG.DIN-933 16* 50 8.8 ZINC.
60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
96034912	SOP.ACUMULADOR VHC





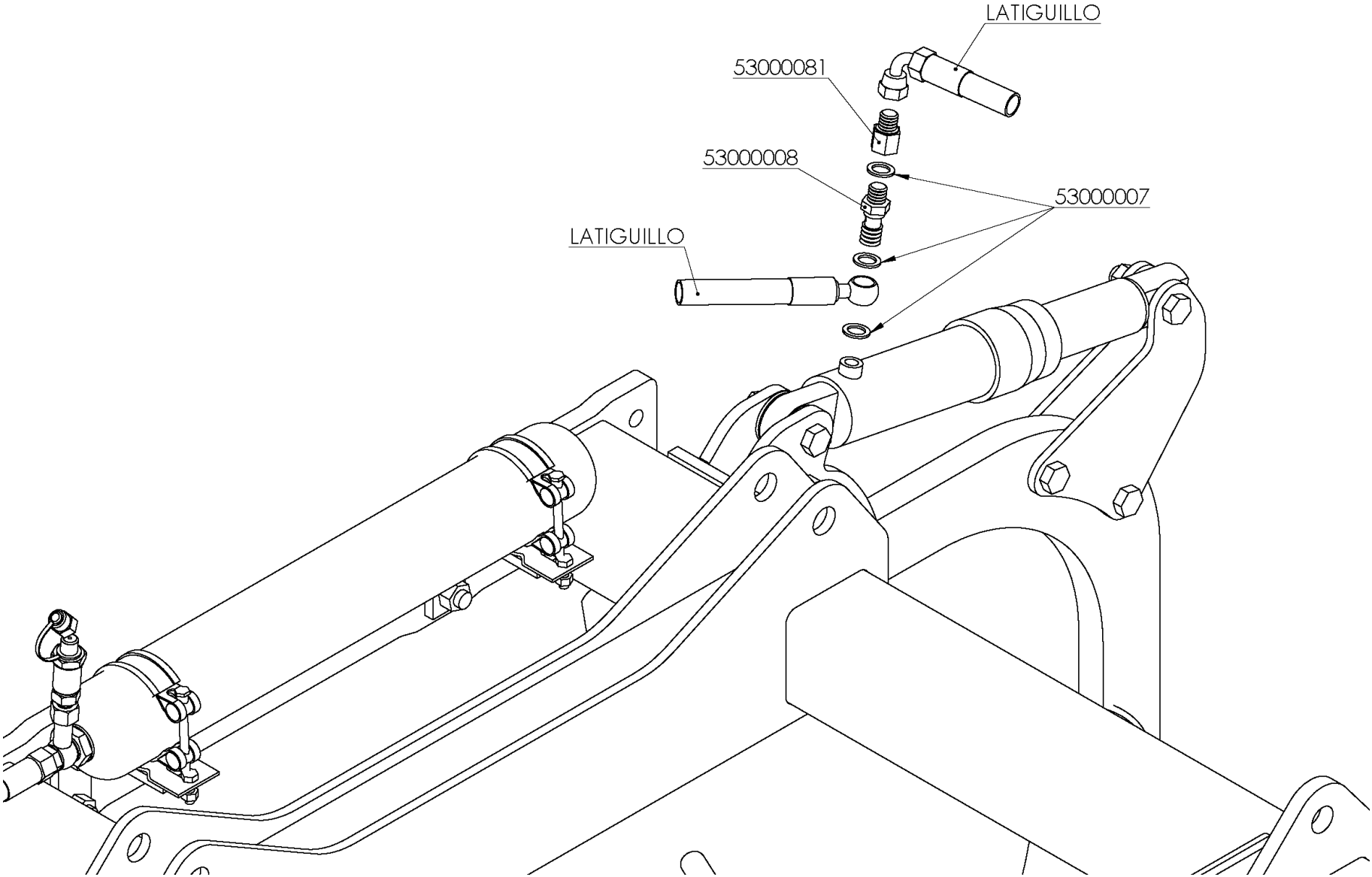
## DETAIL -E

REFERENCIA	DESCRIPCIÓN
53000007	JUNTA METAL/GOMA 3/8" 11602
53000008	TORNILLO PROLONGACION 3/8 4182
53000064	MANGUITO UNION 3/8 4132
53000081	SUPLEMENTO 3/8" 4092
53000110	MACHO BSP 3/8 TUERCA LOCA 12 EVGE12-L
53000422	ESFERICO 3/8" + UNION TUBO/TUBO 12 4002E+12L
53000487	ADAPTADOR M.TOMA PRESION 3/8-16x200 MH191606



DETAIL -F

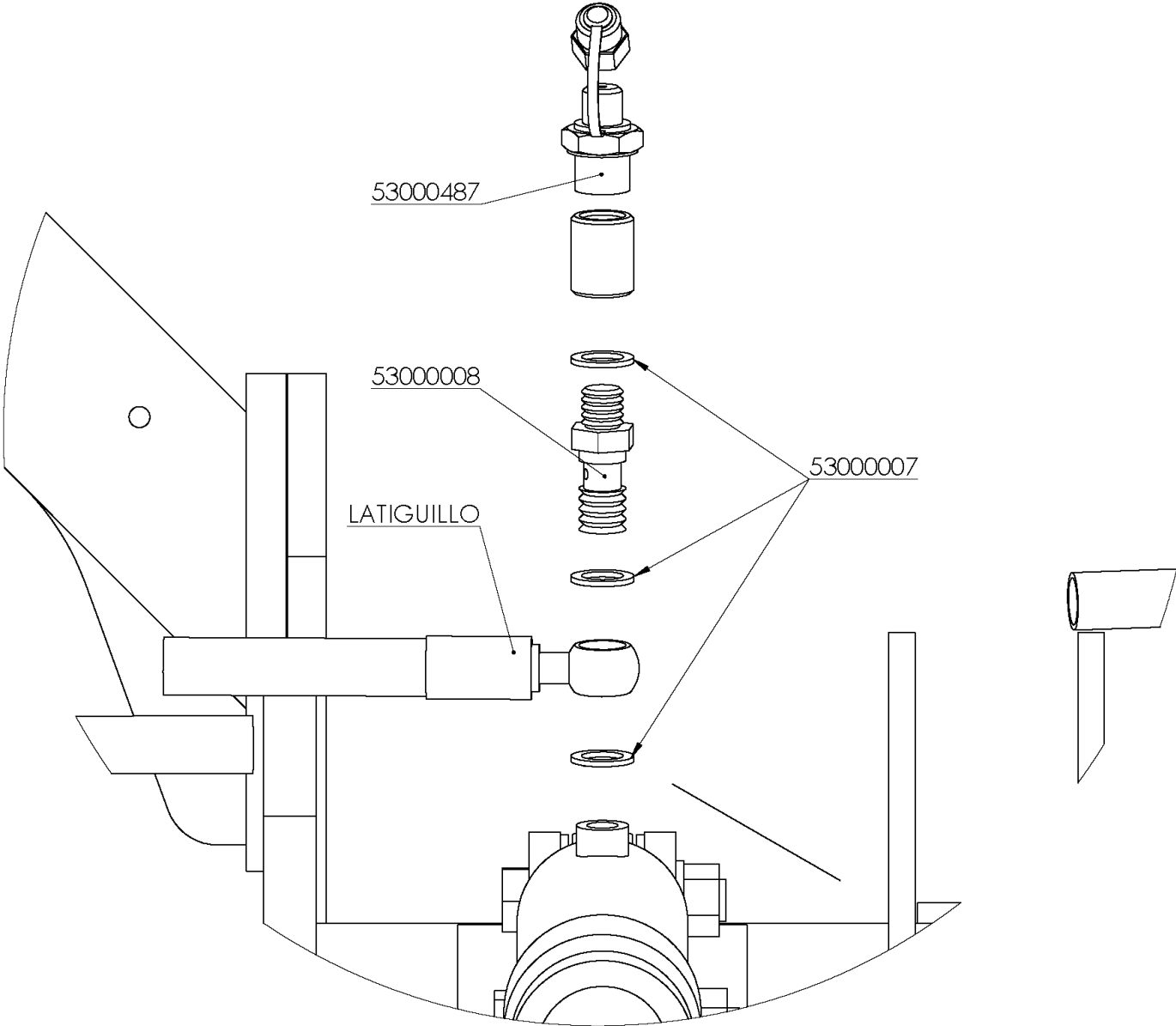
DETALLE F  
ESCALA 1 : 4



## DETAIL -F

REFERENCIA	DESCRIPCIÓN
53000007	JUNTA METAL/GOMA 3/8" 11602
53000008	TORNILLO PROLONGACION 3/8 4182
53000081	SUPLEMENTO 3/8" 4092







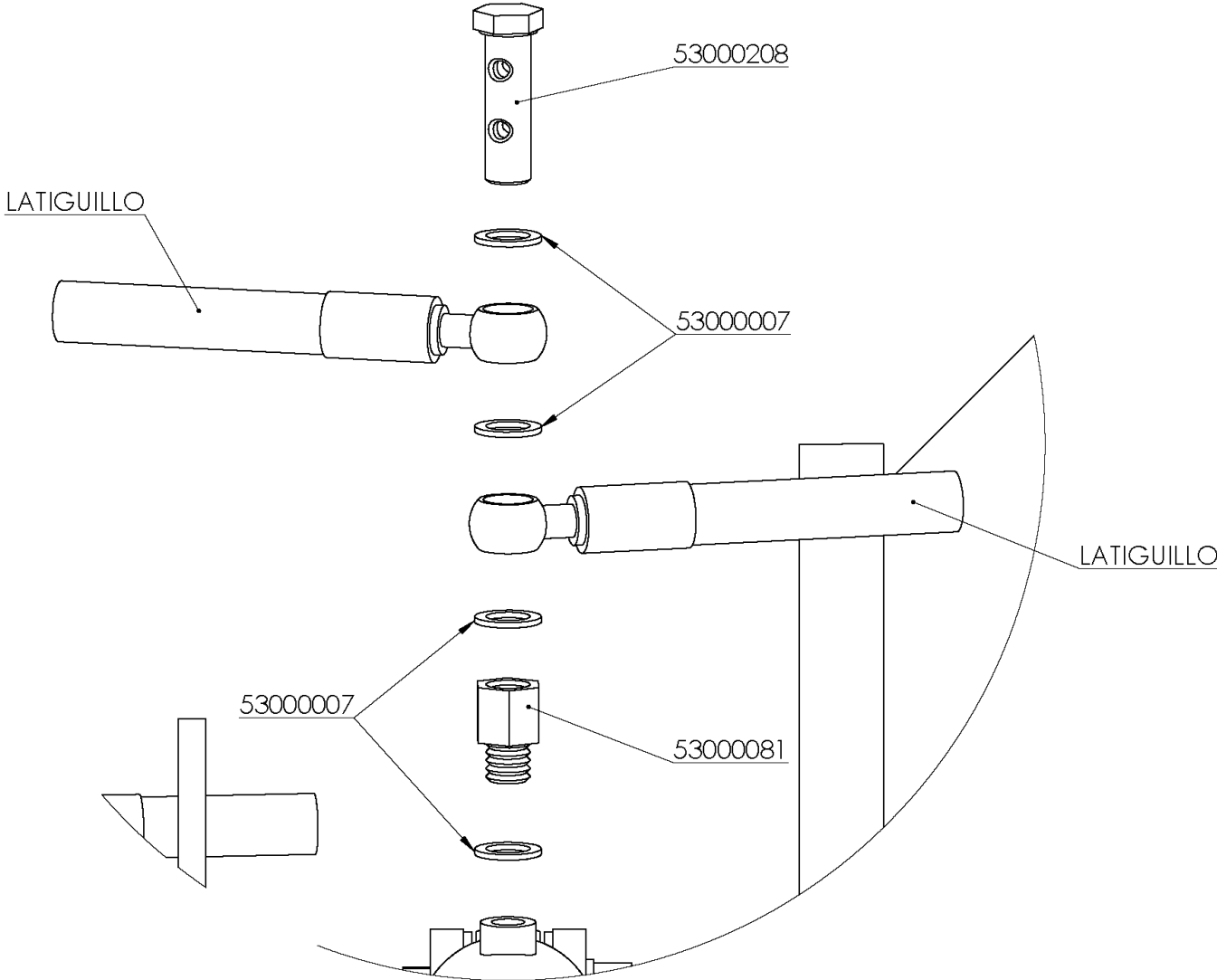
## DETAIL -G

REFERENCIA	DESCRIPCIÓN
53000007	JUNTA METAL/GOMA 3/8" 11602
53000008	TORNILLO PROLONGACION 3/8 4182
53000487	ADAPTADOR M.TOMA PRESION 3/8-16x200 MH191606



DETAIL -H

DETALLE H  
ESCALA 1 : 2



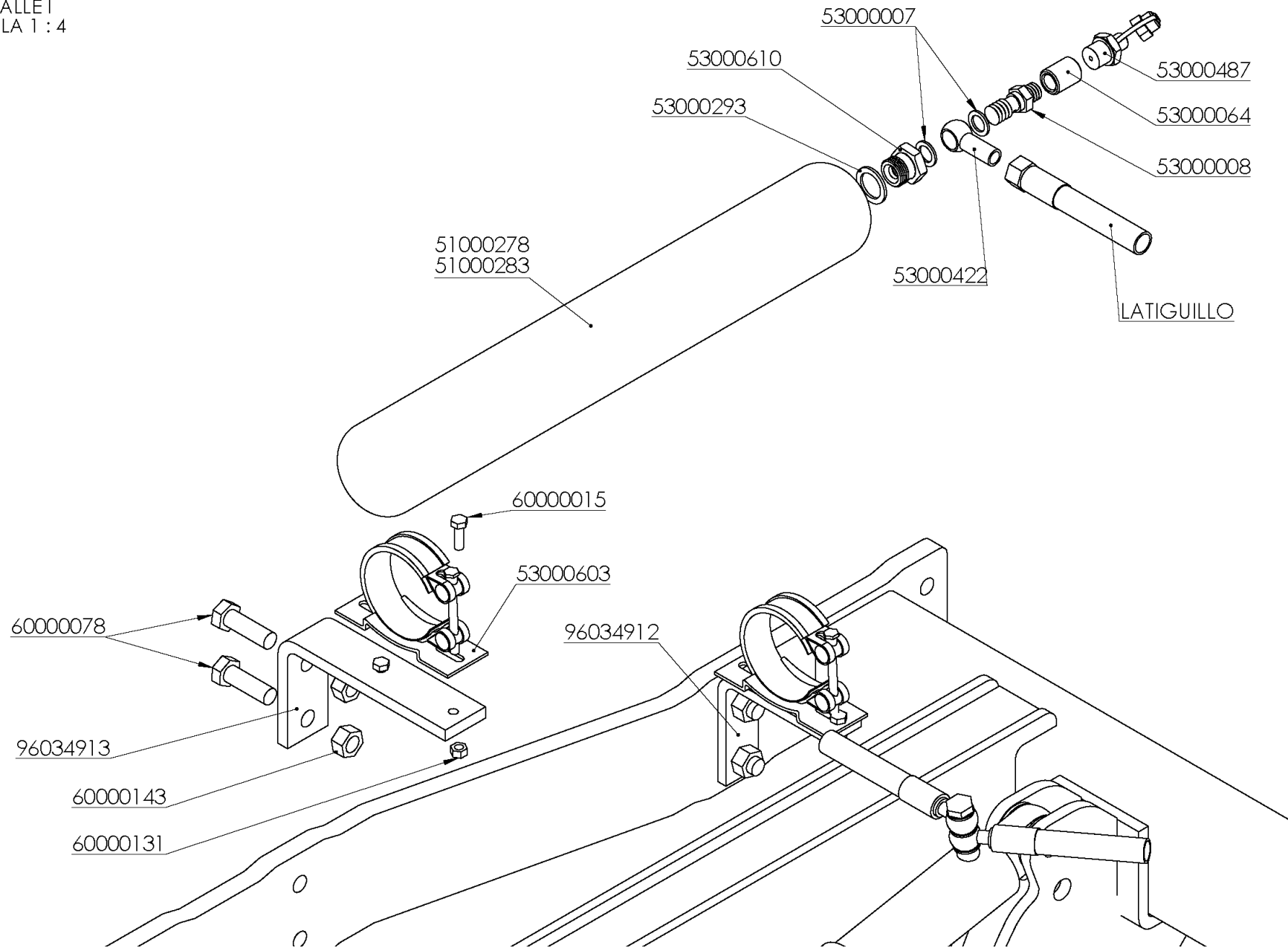
## DETAIL -H

REFERENCIA	DESCRIPCIÓN
53000007	JUNTA METAL/GOMA 3/8" 11602
53000081	SUPLEMENTO 3/8" 4092
53000208	TORNILLO DOBLE 3/8" 4032



# DETAIL -I

DETALLE I  
ESCALA 1 : 4



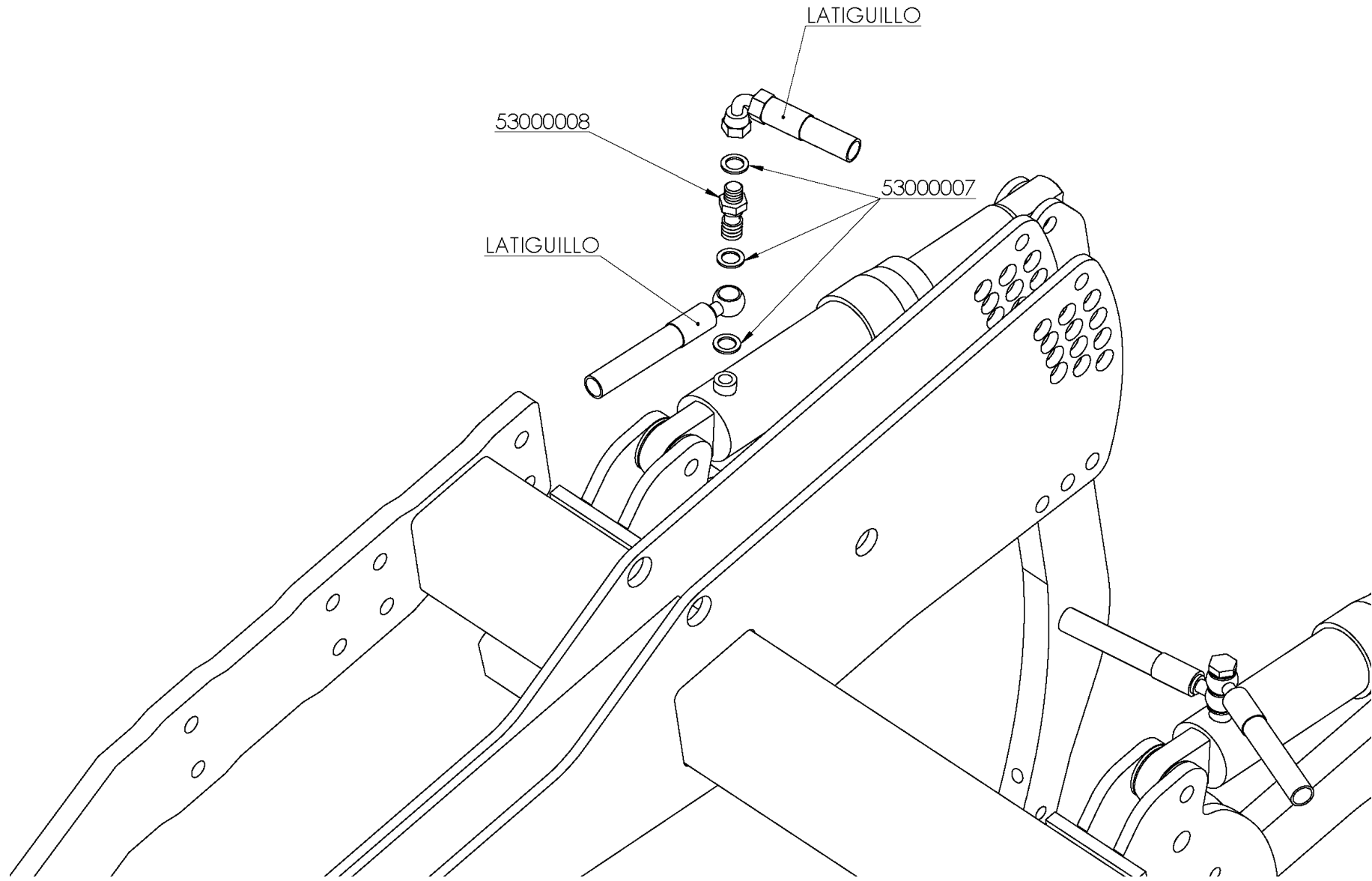
## DETAIL -I

REFERENCIA	DESCRIPCIÓN
51000278	ACUMULADOR 2 L. SK280-2/3218U-280AAE-VB-08-120 RAL 7047
51000283	ACUMULADOR 3 L. SK280-3/3218U-280AAE-VB-08-120 RAL 7047
53000007	JUNTA METAL/GOMA 3/8" 11602
53000008	TORNILLO PROLONGACION 3/8 4182
53000064	MANGUITO UNION 3/8 4132
53000293	JUNTA METAL/GOMA 3/4" 11604
53000422	ESFERICO 3/8" + UNION TUBO/TUBO 12 4002E+12L
53000487	ADAPTADOR M.TOMA PRESION 3/8-16x200 MH191606
53000603	ABRAZ.ACUM.SK280-3L. PISTON 80MM. HRGKSM 0 R 92-95/96 ST
53000610	REDUCCION MACHO-HEMBRA 3/4"-3/8" ROSCA BSP 4162
60000015	TORN.EXAG.DIN-933 8* 25 8.8 ZINC.
60000078	TORN.EXAG.DIN-933 16* 50 8.8 ZINC.
60000131	TUER.AUTO.DIN-980 8 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
96034912	SOP.ACUMULADOR VHC
96034913	SOP.ACUMULADOR VHC-2



# DETAIL -J

DETALLE J  
ESCALA 1 : 4

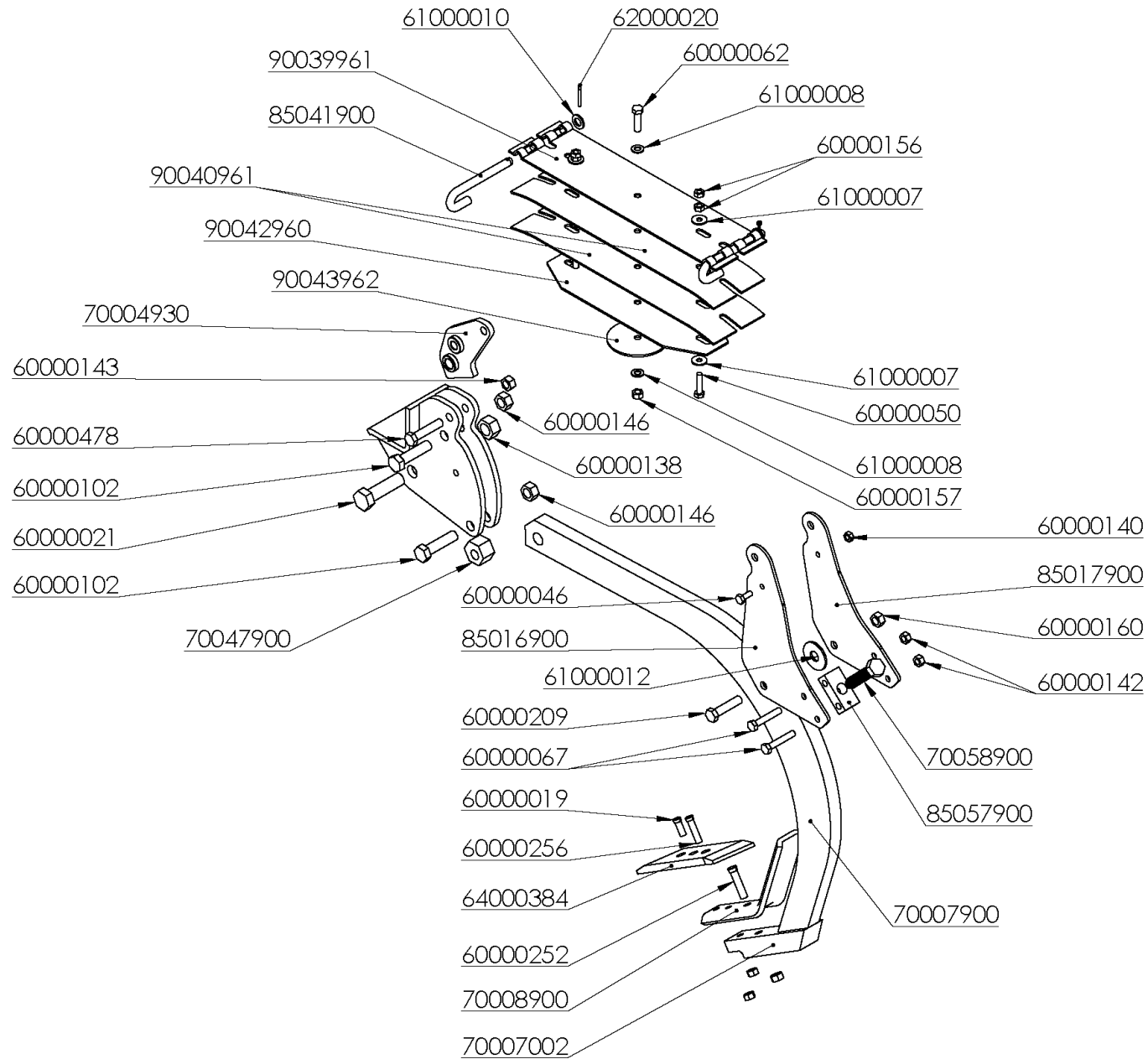


## DETAIL -J

REFERENCIA	DESCRIPCIÓN
53000007	JUNTA METAL/GOMA 3/8" 11602
53000008	TORNILLO PROLONGACION 3/8 4182



# BODY VHB



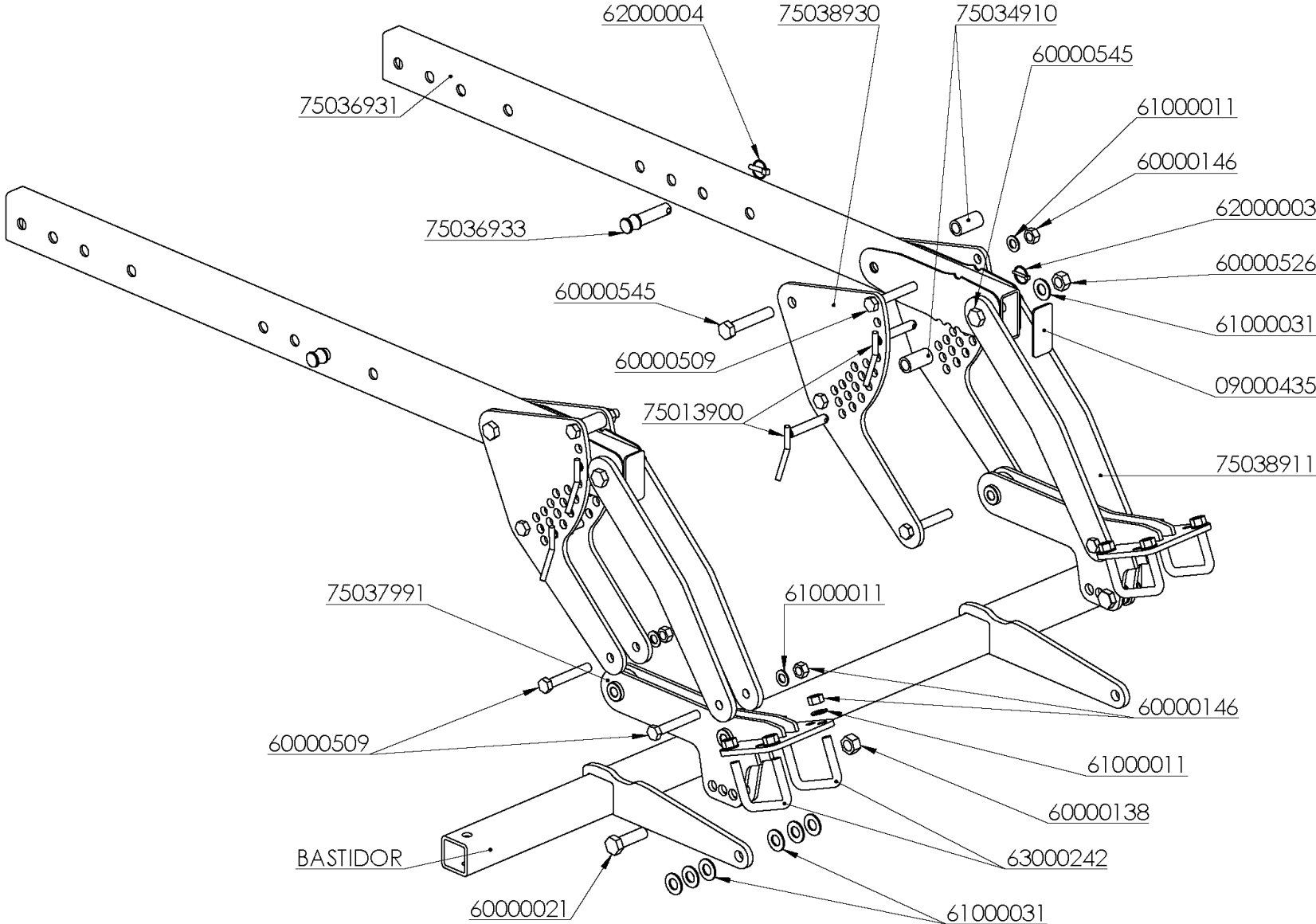


# BODY VHB

REFERENCIA	DESCRIPCIÓN	REFERENCIA	DESCRIPCIÓN
60000019	TORN.ARADO C/OV/934 12*36 12.9	61000007	ARAND.DIN-9021 10 ZINC.
60000021	TORN.EXAG.C/LAR.1"* 85 SAE 12.9	61000008	ARAND.DIN-125 12 ZINC.
60000046	TORN.EXAG.DIN-933 10* 25 8.8 ZINC.	61000010	ARAND.DIN-125 16 ZINC.
60000050	TORN.EXAG.DIN-931 10* 45 10.9 ZINC.	61000012	ARAND.DIN-9021 20 ZINC.
60000062	TORN.EXAG.DIN-931 12* 45 10.9 ZINC.	62000020	PASADOR MED.CAÑA DIN-94 4*40 ZINC.
60000067	TORN.EXAG.DIN-931 12* 70 8.8 ZINC.	64000384	PUNTA CH-OVLAC D 75x15mm./3A
60000102	TORN.EXAG.DIN-931 20* 80 8.8	70004930	PORTABALLESTA ANTER VHB
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.	70007900	CAMBA CH 30/40mm
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.	70008900	PORTA-PUNTAS CH
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.	70047900	SEP.HEXAG.REGULAC.CH
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.	70058900	TORNILLO REGULACION BALLESTA CHISEL (22*100)
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE	85016900	PORTABALLESTA LARGA IZQD.
60000156	TUER.EXAG.DIN-934 10 8.8 ZINC.	85017900	PORTABALLESTA LARGA DCH.
60000157	TUER.EXAG.DIN-934 12 8.8 ZINC	85041900	PASADOR CACHABA BALLESTA GEOMET
60000160	TUER.EXAG.DIN-934 16 8.8 ZINC.	85057900	SOP.REGULACION BALLESTA ZINC.
60000209	TORN.EXAG.C/LAR.16* 70 12.9 GEOMET	90039961	BALLESTA MAESTRA CORTA BLANCO RAL-7047
60000252	TORN.ARADO C/OV/934 14*65 12.9	90040961	BALLESTA 1er.RFZO.CORTO BLANCO RAL-7047
60000256	TORN.ARADO C/OV/934 12*60 12.9	90042960	BALLESTA 3er.RFZO.BLANCO RAL-7047
60000478	TORN.EXAG.C/LAR.16* 75 10.9 ZINC.	90043962	BALLESTA BOTON CH BLANCO RAL-7047



# PARALLELOGRAM ASSEMBLY



# PARALLELOGRAM ASSEMBLY

REFERENCIA	DESCRIPCIÓN
09000435	TAPON GOMA 120* 60* 6mm.
60000021	TORN.EXAG.C/LAR.1"* 85 SAE 12.9
60000138	TUER.AUTO.DIN-980 1"SAE 10.9 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE
60000509	TORN.EXAG.DIN-931 20*130 12.9 ZINC.
60000526	TUER.AUTO.DIN-985 M-24 8.8 ZN.
60000545	TORN.EXAG.C/LARGA 24*130 10.9 ZINC.
61000011	ARAND.DIN-125 20 ZINC.
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
62000003	PASADOR ANILLA 6 ZINC.
62000004	PASADOR ANILLA 10 ZINC.
63000242	ABARCON RODILLO 122x98 M-20 10.9 ZINC.
75013900	BULON D=20*118mm.REG.RODILLO ZINC.
75034910	SEP.B.P.36/25* 70mm.ZINC.
75036931	BRAZO SOP.DISCOS/RODILLO VBC (D/14)
75036933	BULON BRAZO RODILLO VHC
75037991	BRAZO.SOP.RODILLO C/DISCOS (D/20)
75038911	BIELA BRAZO DISCOS/RODILLO VBC
75038930	ABANICO BRAZO DISCOS/RODILLO VBC (D/20)



## DISC-LEVELLING FRAME

<b>BASTIDOR DISCOS NIVELADORES</b>		
<b>MODELO</b>	<b>REFERENCIA</b>	<b>DESCRIPCION</b>
VERSATILL 3-8	75043908	BAST.DISCOS VBC 2,145m.(D/20)
VERSATILL 3-10	75043910	BAST.DISCOS VBC 2,745m.(D/20)
VERSATILL 3-12	75043912	BAST.DISCOS VBC 3,385m.(D/20)
VERSATILL 3-13-P	75043923	BAST.DISCOS VBC 1,550m.DCHO.(D/20)
	75043922	BAST.DISCOS VBC 1,550m.IZQDO.(D/20)
VERSATILL 3-15-P	75043925	BAST.DISCOS VBC 1,870m.DCHO.(D/20)
	75043924	BAST.DISCOS VBC 1,870m.IZQDO.(D/20)
VERSATILL 3-17-P	75043927	BAST.DISCOS VBC 2,150m.DCHO.(D/20)
	75043926	BAST.DISCOS VBC 2,150m.IZQDO.(D/20)
VERSATILL 3-19-P	75043931	BAST.DISCOS VBC 2,590m.DCHO.(D/20)
	75043930	BAST.DISCOS VBC 2,590m.IZQDO.(D/20)



## DISC-LEVELLING FRAME NON-STOP

<b>BASTIDOR DISCOS NIVELADORES NON-STOP</b>		
<b>MODELO</b>	<b>REFERENCIA</b>	<b>DESCRIPCION</b>
VERSATILL 3-8		
VERSATILL 3-10	75044910	BAST.DISCOS VHC NON-STOP 2,650m.
VERSATILL 3-12		
VERSATILL 3-13-P	75044923	BAST.DISCOS VHC NON-STOP DCHO. 1,520m.
	75044922	BAST.DISCOS VHC NON-STOP IZQDO. 1,520m.
VERSATILL 3-15-P	75044925	BAST.DISCOS VHC NON-STOP DCHO. 2,010m.
	75044924	BAST.DISCOS VHC NON-STOP IZQDO. 2,010m.
VERSATILL 3-17-P	75044927	BAST.DISCOS VHC NON-STOP DCHO. 2,120m.
	75044926	BAST.DISCOS VHC NON-STOP IZQDO. 2,120m.
VERSATILL 3-19-P	75044931	BAST.DISCOS VHC NON-STOP DCHO. 2,550m.
	75044930	BAST.DISCOS VHC NON-STOP IZQDO. 2,550m.



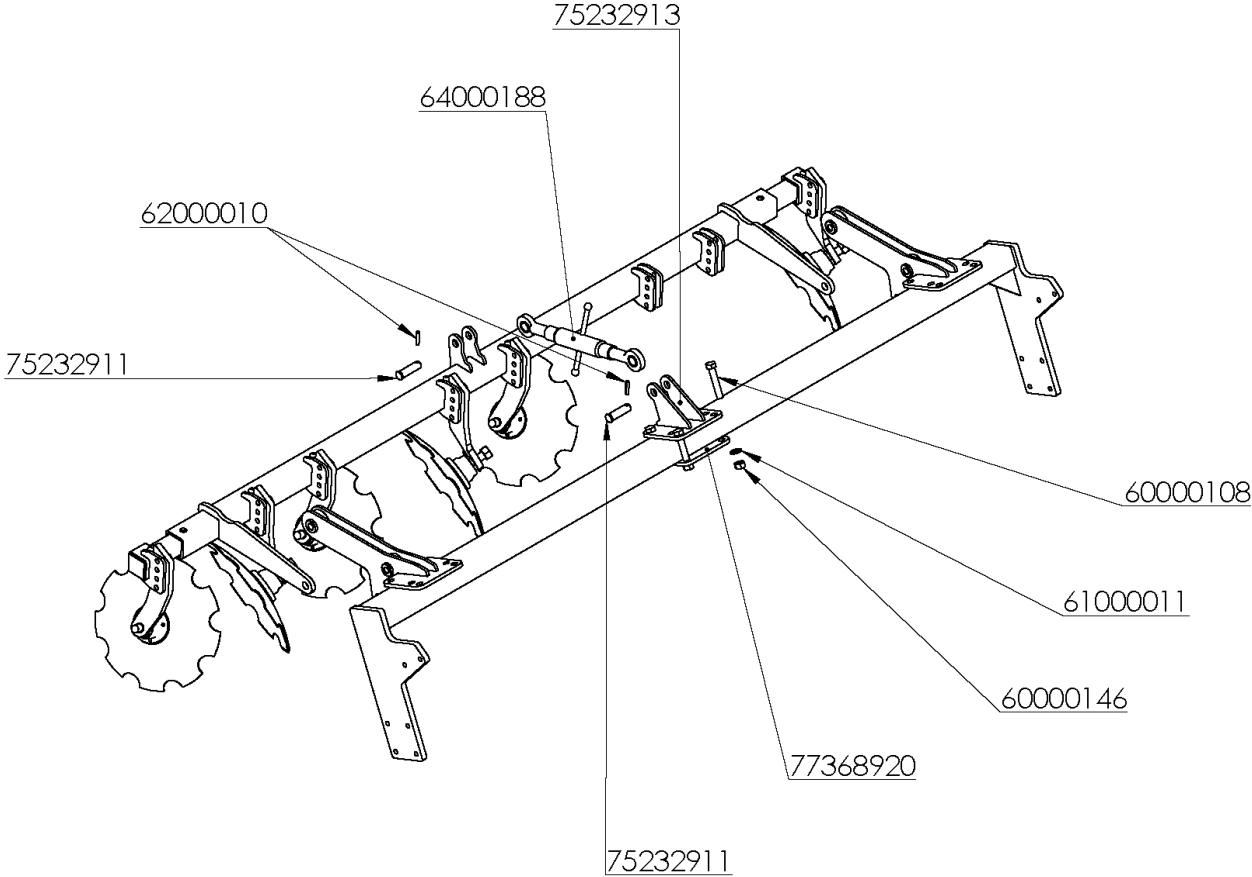
# LEVELLERS FRAME

<b>BASTIDOR NIVELADORES</b>		
<b>MODELO</b>	<b>REFERENCIA</b>	<b>DESCRIPCION</b>
VERSATILL 3-8		
VERSATILL 3-10	75045910	BAST.NIVELADORES VHC 2,650m.
VERSATILL 3-12		
VERSATILL 3-13-P		
VERSATILL 3-15-P		
VERSATILL 3-17-P	75045927	BAST.NIVELADORES VHC DCHO. 2,120m.
	75045926	BAST.NIVELADORES VHC IZQDO. 2,120m.
VERSATILL 3-19-P		





# TENSIONER ASSEMBLY



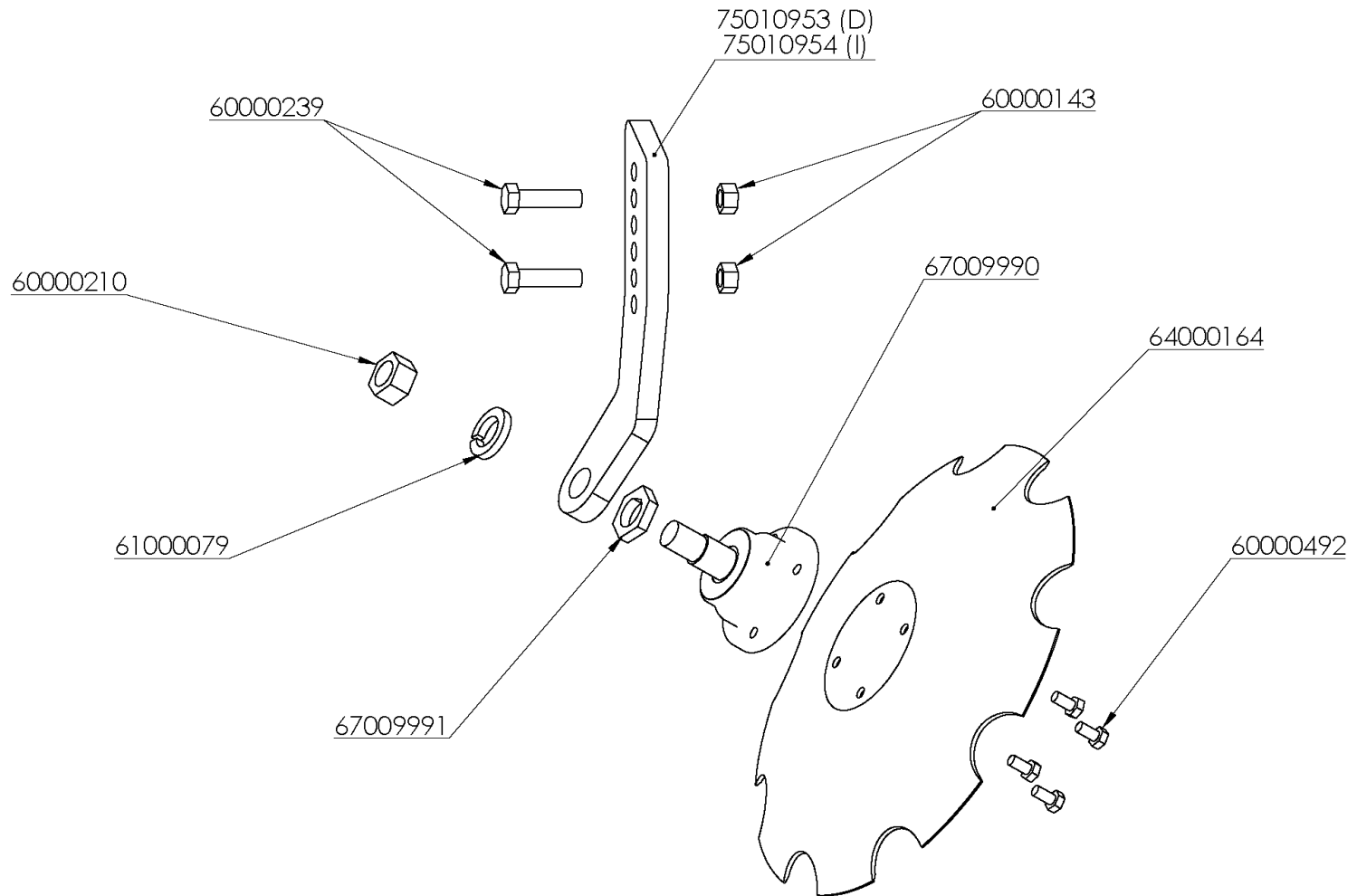


## TENSIONER ASSEMBLY

REFERENCIA	DESCRIPCIÓN
60000108	TORN.EXAG.DIN-931 20*110 8.8 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE
61000011	ARAND.DIN-125 20 ZINC.
62000010	PASADOR ELAST.DIN-1481 8* 40 ZINC.
64000188	TENSOR C/ROT.D=26 30360 ZINC.
75232911	BULON D=30/25,5*93mm.TENSOR DISCOS VBC
75232913	SOP.TENSOR BAST.DISCOS VBC (D/20)
77368920	PLACA AMARRE RODILLO MAXIDISC-II/VBC



# DISC ARM

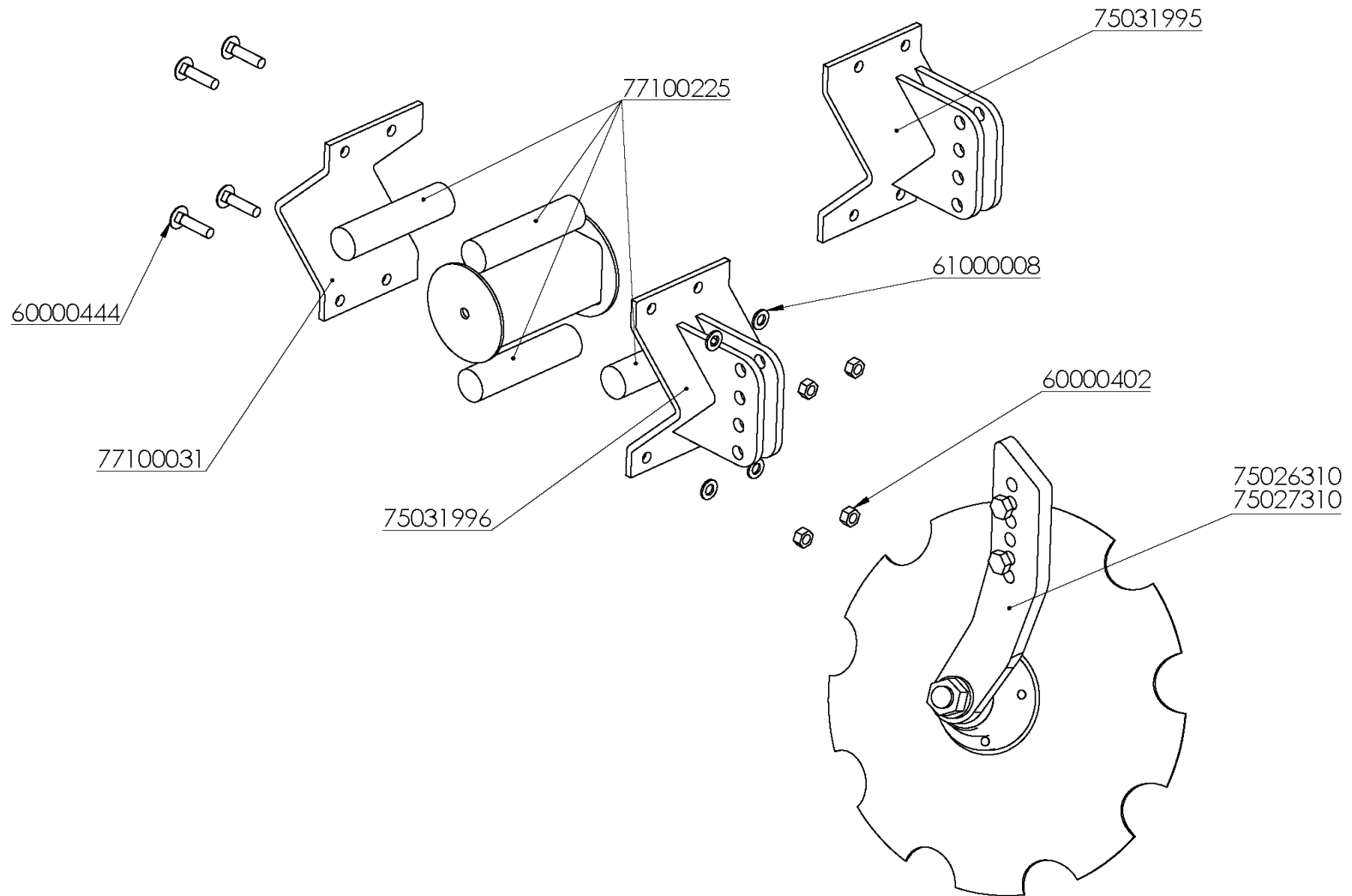


## DISC ARM

REFERENCIA	DESCRIPCIÓN
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000210	TUER.AUTO.DIN-985 1" SAE 8.8 ZN.
60000239	TORN.EXAG.DIN-931 16* 60 10.9 ZINC.
60000492	TORN.EXAG.DIN-933 10* 20 10.9 ZINC.
61000079	ARAND.DIN-127 30 ZINC.
64000164	DISCO CONCAVO MUESCADO VBC 18" 4mm.
67009990	CONJ.BUJE + EJE DISCOS 20" (D/16)
67009991	ARANDELA FRENO BUJE DISCOS
75010953 (D)	SOP.DISCOS VBC DCHO.(D/19)
75010954 (I)	SOP.DISCOS VBC IZQDO.(D/19)



# NON-STOP DISCS 2

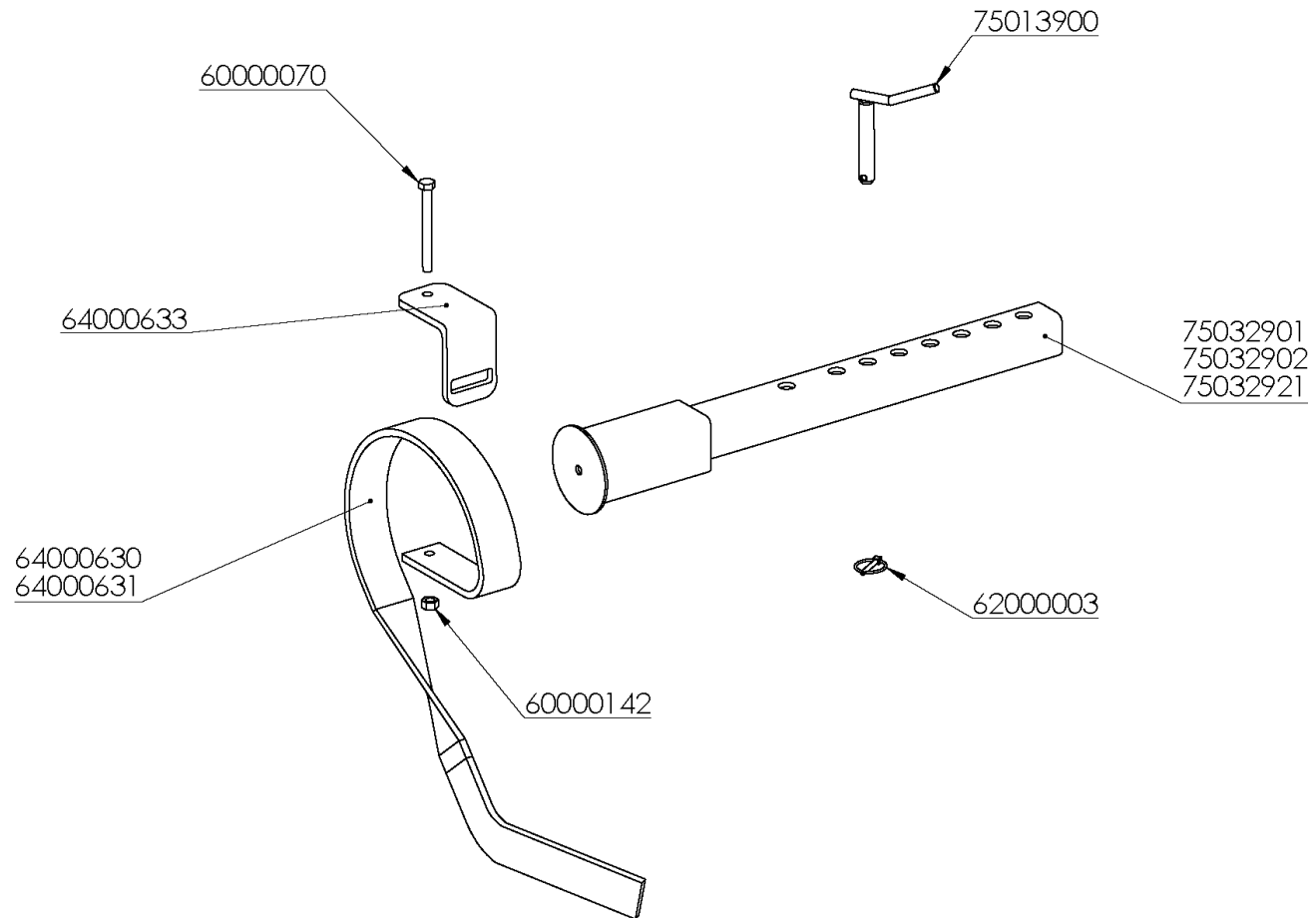


## NON-STOP DISCS 2

REFERENCIA	DESCRIPCIÓN
60000402	TUER.EXAG.DIN-934 12 10.9 ZINC.
60000444	TORN.ARADO DIN-603 12*50 10.9 ZINC.
61000008	ARAND.DIN-125 12 ZINC.
75026310	CONJ.DISCO VBC IZQD.(D/19)
75027310	CONJ.DISCO VBC DCHO.(D/19)
75031995	SOP.DISCO NON-STOP VBC DESCENTRADO (D/19)
75031996	SOP.DISCO NON-STOP VBC CENTRADO (D/19)
77100031	LLANTA AMARRE DISCO NON-STOP VBC
77100225	SUSPENSION ELASTICA D=40*160mm.



# LEVELLING ARM ASSEMBLY

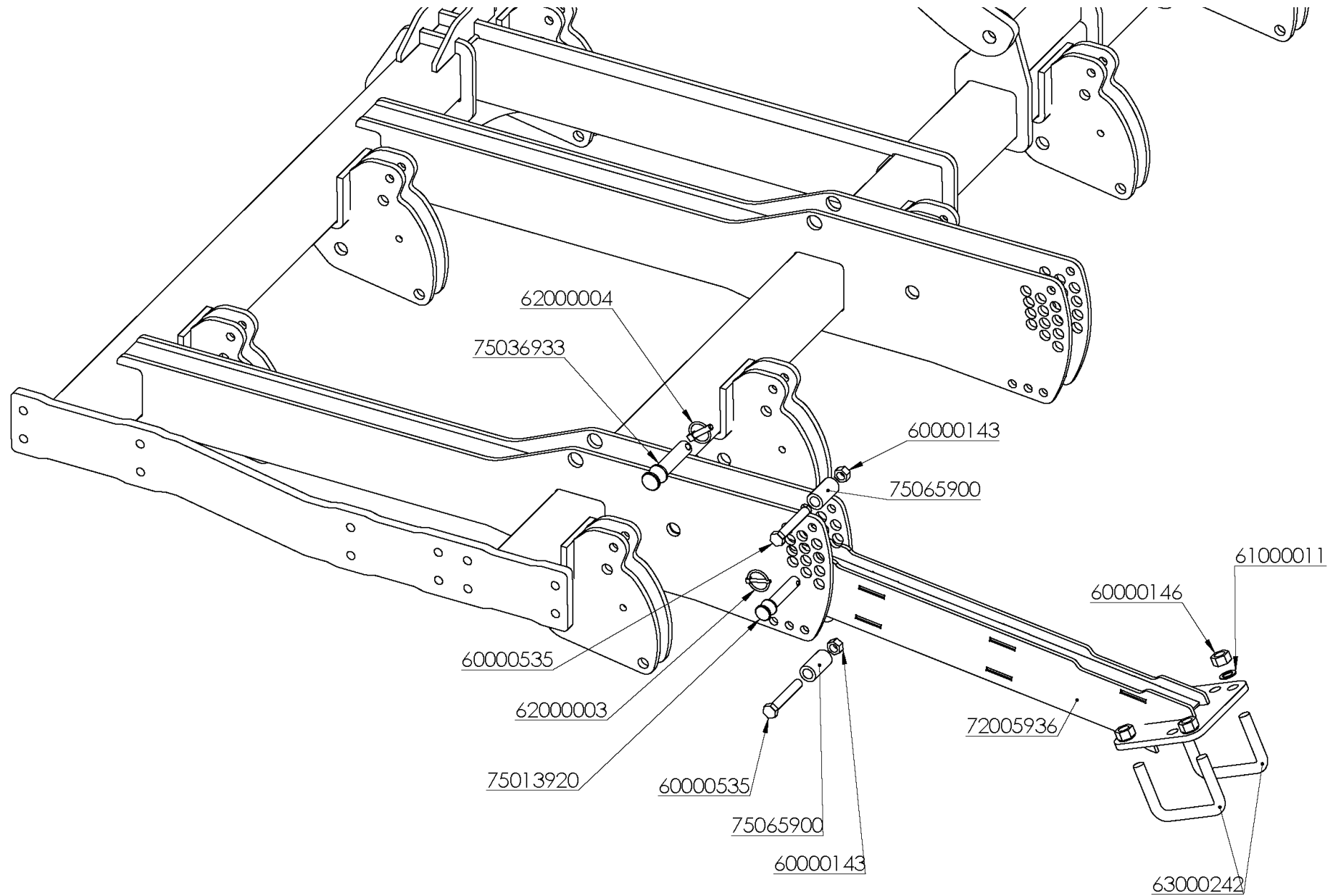


## LEVELLING ARM ASSEMBLY

REFERENCIA	DESCRIPCIÓN
60000070	TORN.EXAG.DIN-931 12*120 8.8 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
62000003	PASADOR ANILLA 6 ZINC.
64000630	BRAZO BORRAHUELLAS D 60x10 1A M-12
64000631	BRAZO BORRAHUELLAS I 60x10 1A M-12
64000633	AMARRE BRAZO DEFLECTOR 60*10 P/CHASIS 80*80
75013900	BULON D=20*118mm.REG.RODILLO ZINC.
75032901	BAST.DISCOS VBC CIERRE IZQDO.
75032902	BAST.DISCOS VBC CIERRE DCHO.
75032921	BAST.DISCOS NON-STOP VBC CIERRE



# ROLLER ARM ASSEMBLY VHC-2



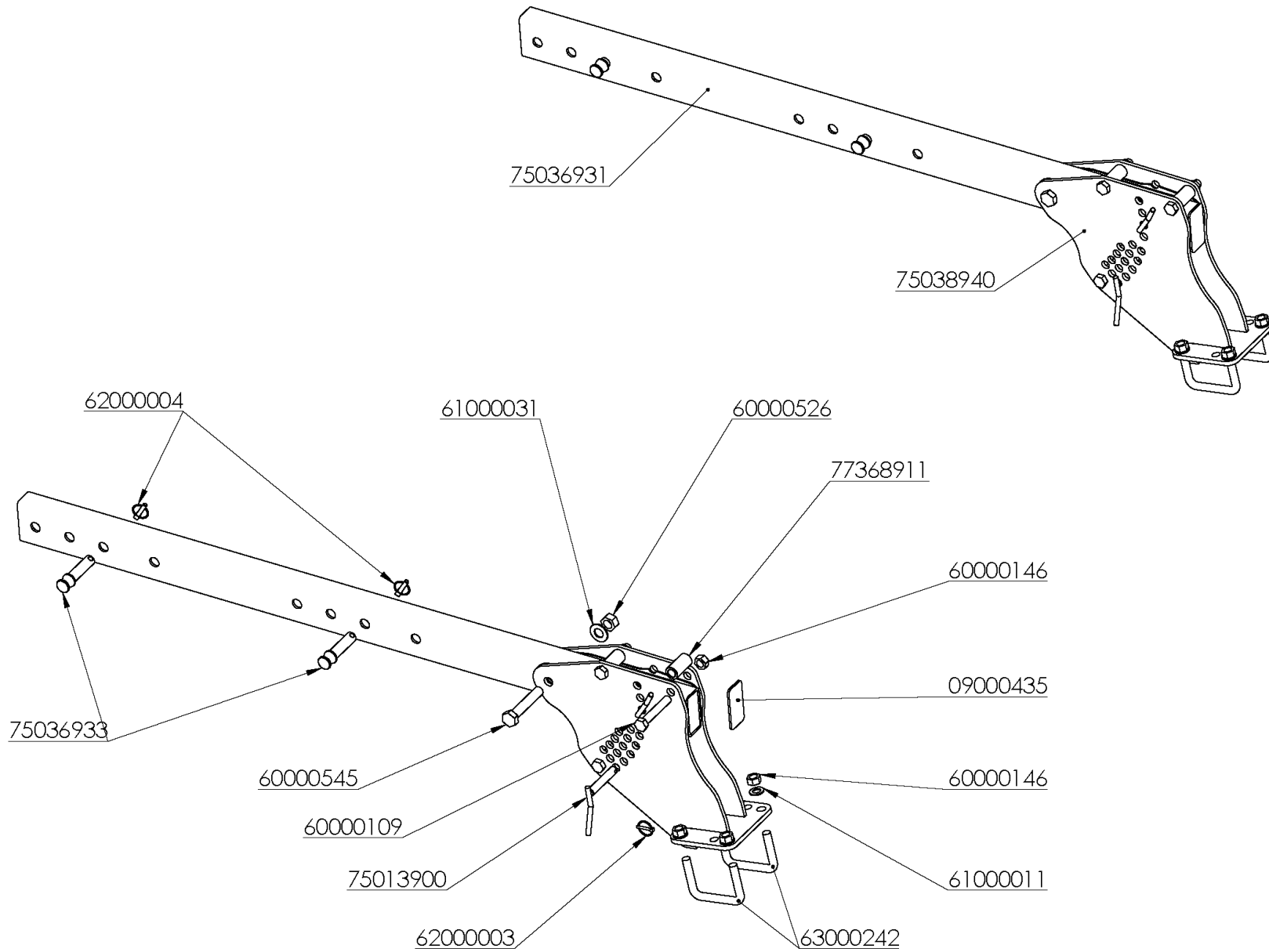


## ROLLER ARM ASSEMBLY VHC-2

REFERENCIA	DESCRIPCIÓN
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE
60000535	TORN.EXAG.DIN-931 16*100 8.8 ZN.
61000011	ARAND.DIN-125 20 ZINC.
62000003	PASADOR ANILLA 6 ZINC.
62000004	PASADOR ANILLA 10 ZINC.
63000242	ABARCON RODILLO 122x98 M-20 10.9 ZINC.
72005936	BRAZO SOP.RODILLO CH/EURODISC (D/20)
75013920	BULON D=20*126mm.REG.RODILLO ZINC.
75036933	BULON BRAZO RODILLO VHC
75065900	SEP.B.P.32/20* 62mm.



# ROLLER ARM ASSEMBLY VHC-3

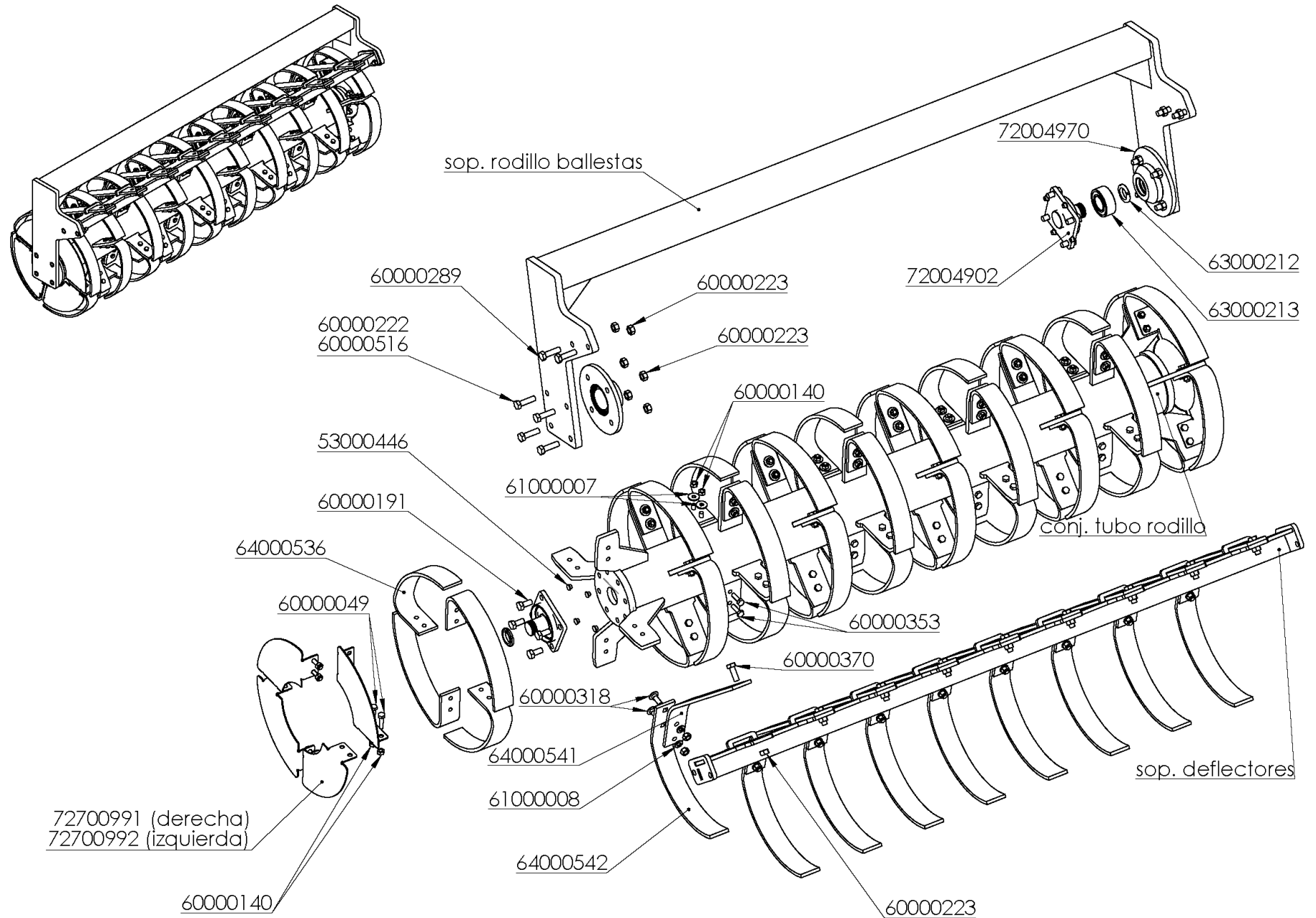


## ROLLER ARM ASSEMBLY VHC-3

REFERENCIA	DESCRIPCIÓN
9000435	TAPON GOMA 120* 60* 6mm.
60000109	TORN.EXAG.DIN-931 20*120 8.8
60000146	TUER.AUTO.DIN-980 20 10.9 ZINC. CON SOBREGOLPE
60000526	TUER.AUTO.DIN-985 M-24 8.8 ZN.
60000545	TORN.EXAG.C/LARGA 24*130 10.9 ZINC.
61000011	ARAND.DIN-125 20 ZINC.
61000031	ARAND.STANDAR S/BISEL CL-26 ZINC.(50x27x3)
62000003	PASADOR ANILLA 6 ZINC.
62000004	PASADOR ANILLA 10 ZINC.
63000242	ABARCON RODILLO 122x98 M-20 10.9 ZINC.
75013900	BULON D=20*118mm.REG.RODILLO ZINC.
75036931	BRAZO SOP.DISCOS/RODILLO VBC (D/14)
75036933	BULON BRAZO RODILLO VHC
75038940	SOP.REGULACION RODILLO VHCH
77368911	CASQ.D=35/21*71mm.SEP.RODILLO MAXIDISC-II



# LEAF SPRING ROLLER



## LEAF SPRING ROLLER

REFERENCIA	DESCRIPCIÓN
53000446	TAPON PVC NEGRO 12,3mm.
60000049	TORN.EXAG.DIN-931 10* 40 10.9 ZINC.
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.
60000191	TORN.EXAG.DIN-933 14* 30 8.8 ZINC.
60000222	TORN.EXAG.DIN-931/933 14* 40 8.8
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.
60000289	TORN.EXAG.DIN-931 14* 40 12.9 ZINC.
60000318	TORN.ARADO DIN-603/934 12*35 8.8 ZINC.
60000353	TORN.EXAG.DIN-931 10* 35 10.9 ZINC.
60000370	TORN.EXAG.DIN-933 14* 35 8.8 ZINC.
60000516	TORN.EXAG.DIN-933 14* 45 8.8
61000007	ARAND.DIN-9021 10 ZINC.
61000008	ARAND.DIN-125 12 ZINC.
63000212	TUERCA FIJACION KMA 8
63000213	RODAM.ENT-140225-308E BUJE RODILLO MCH
64000536	BALLESTA RODILLO 60*9
64000541	SOP.DEFLECTOR ROD.BALLESTA 60*9
64000542	DEFLECTOR ROD.BALLESTA
72004902	EJE RODILLO CIERRE ESFERICO (OJO PEDIR RODAM.63000213)
72004970	BUJE C/BRIDA RODILLO MCH (D/14)
72004974	CONJ.RODAMIENTO RODILLO REDONDO (BALLESTAS-"T"- "U")
72004999	CALZO BUJE RODILLO
72700920	CONJUNTO TUBO RODILLO BALLESTAS 2,00m.
72700991	CHAPA PLEGADA DCHA. ROD. BALL.
72700992	CHAPA PLEGADA IZQ. ROD. BALL.
72702920	SOP.DEFLECTORES RODILLO BALLESTAS 2,00m.
72703920	SOP.RODILLO BALLESTAS 2,00m. (D/14)



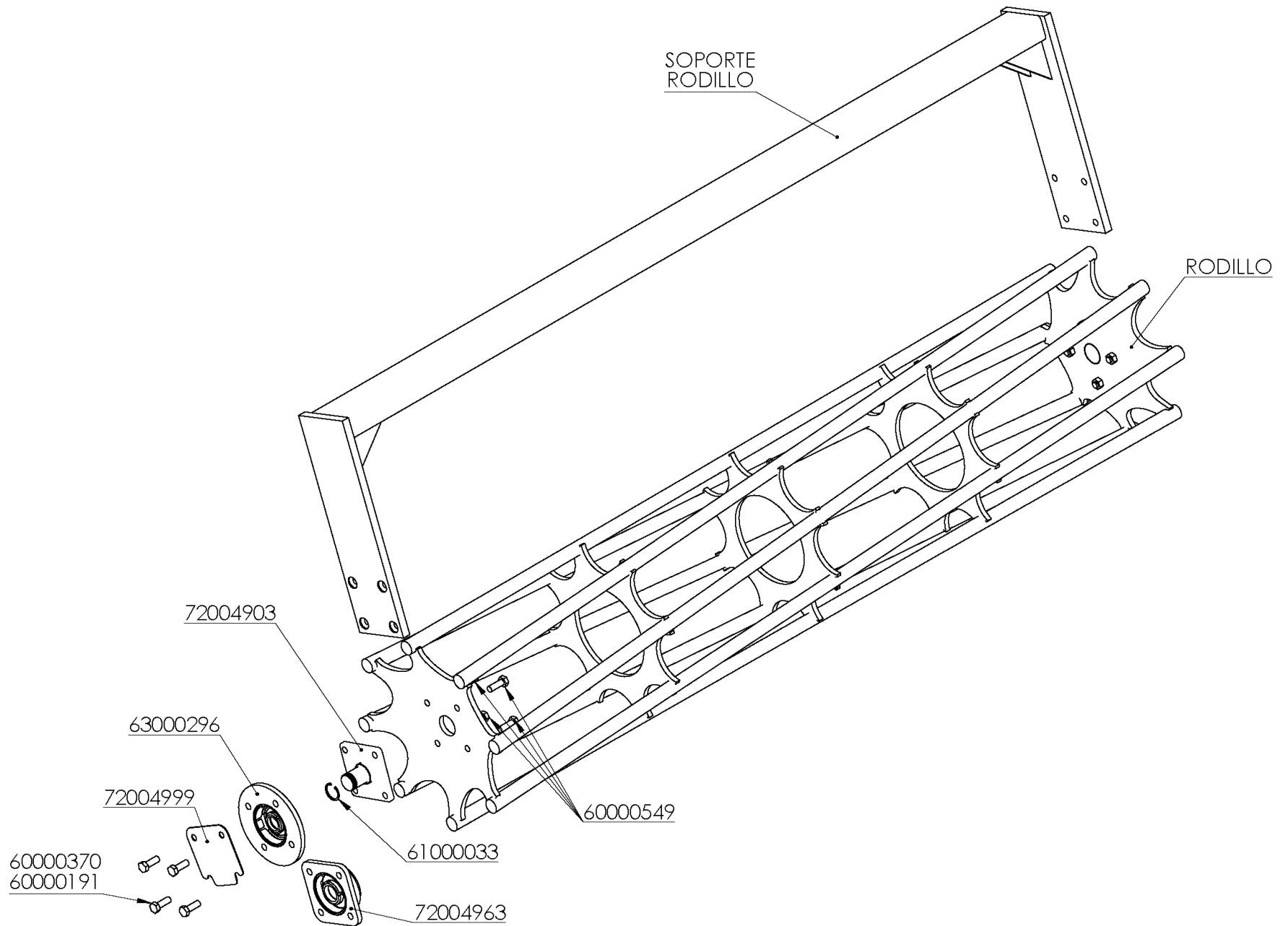
# CLASSIFICATION OF LEAF SPRING ROLLERS VHC

BALLESTAS						
VERSATILL	METROS	SOPORTE BALLESTAS	SOPORTE DEFLECTORES	CONJ. TUBO RODILLO BALLESTAS	CONJ. TUBO RODILLO "T-RING"	CONJ. TUBO RODILLO "U-RING"
3-8	2,40	72703926	72702924	72700924	72730924	
2-9	2,80	72703928	72702928	72700928		
3-10 2-11	3,00	72703930	72702930	72700930	72730930	72740930
3-12	3,60	72703936	72702936	72700936		72740936
3-13-P 2-13-P	2 x 2,00	72703920	72702920	72700920	72730920	72740920
3-15-P 2-15-P	1 x 2,20 + 1 x 2,40	72703922 + 72703924	72702922 + 72702924	72700922 + 72700924	72730922 + 72730924	
3-17-P 2-17-P	2 x 2,60	72703926	72702926	72700926	72730926	
3-19-P 2-19-P	2 x 3,00	72703930	72702930	72700930	72730930	72740930





# ROLLERS





# ROLLERS

REFERENCIA	DESCRIPCIÓN
60000191	TORN.EXAG.DIN-933 14* 30 8.8 ZINC.
60000370	TORN.EXAG.DIN-933 14* 35 8.8 ZINC.
60000549	TORN.EXAG.DIN-933 14*25 8.8
61000033	ANILLO ELASTICO DIN-471 40
63000296	RODAMIENTO C/BRIDA REDONDO (D/20)
72004903	EJE RODILLO RODILLO (FKL)
72004963	RODAMIENTO C/BRIDA CUADRADO (D/18)
72004999	CALZO BUJE RODILLO



# CLASSIFICATION OF ROLLERS VHC

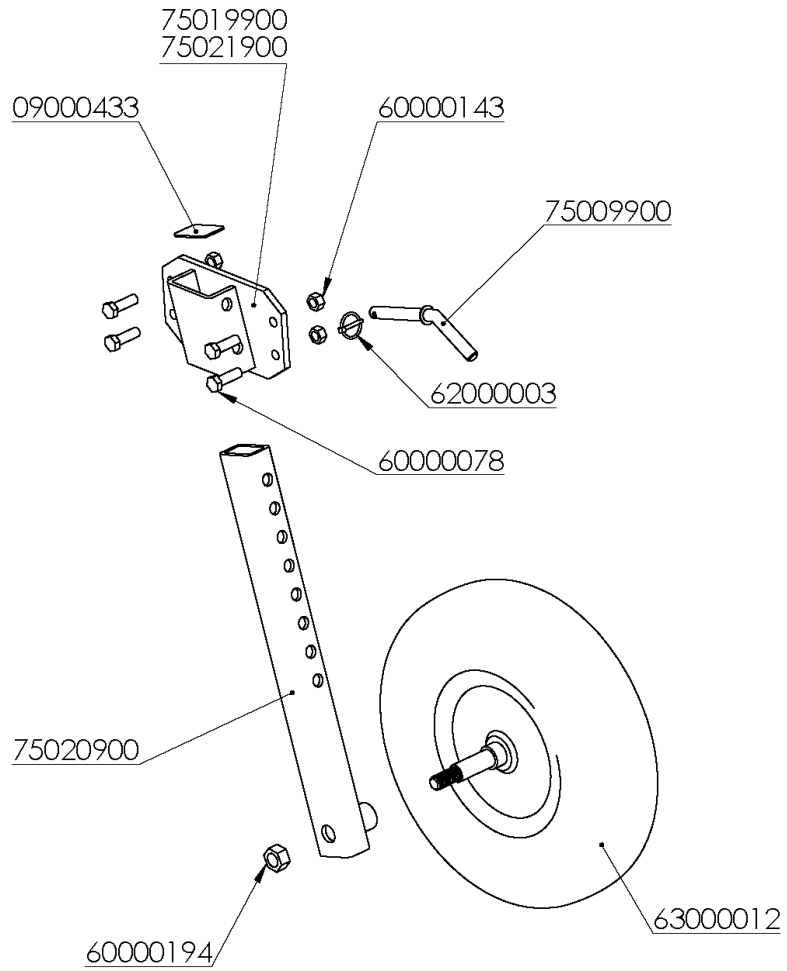
RODILLOS							
VERSATILL	METROS	8 BARRAS	10 BARRAS	8 MUESCAS	10 MUESCAS	SOPORTE RODILLOS	SOPORTE RODILLOS DOBLE
3-8	2,55	72001926	72011926	72602925	72151926	72021925	72053925
2-9	2,70	72001925	72011925	72602926	72151925	72021927	72053927
3-10 2-11	3,00	72001931	72011931	72602930	72151931	72021930	72053931
3-12	3,60	72001936	72011936	72602935	72151936	72021936	
3-13-P 2-13-P	2 x 1,95	72001919	72011919	72602920	72151919	72021919	72053919
3-15-P 2-15-P	2 x 2,20	72001920	7201920	72602920	72151920	72021922	72053922
3-17-P 2-17-P	2 x 2,55	72001926	72011926	72602925	72151926	72021925	72053925
3-19-P 2-19-P	2 x 3,00	72001931	72011931	72602926	72151931	72021930	72053931



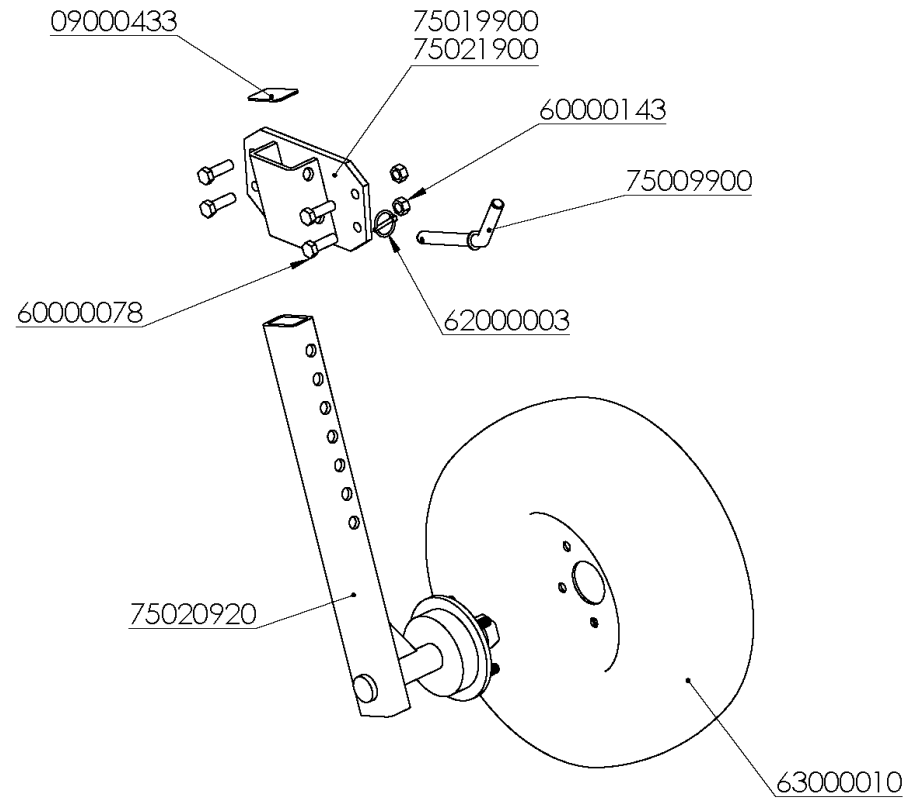


# LATERAL WHEELS

PAREJA RUEDAS NEUMÁTICAS 6.00\*9"



PAREJA RUEDAS NEUMÁTICAS 200\*14.5"

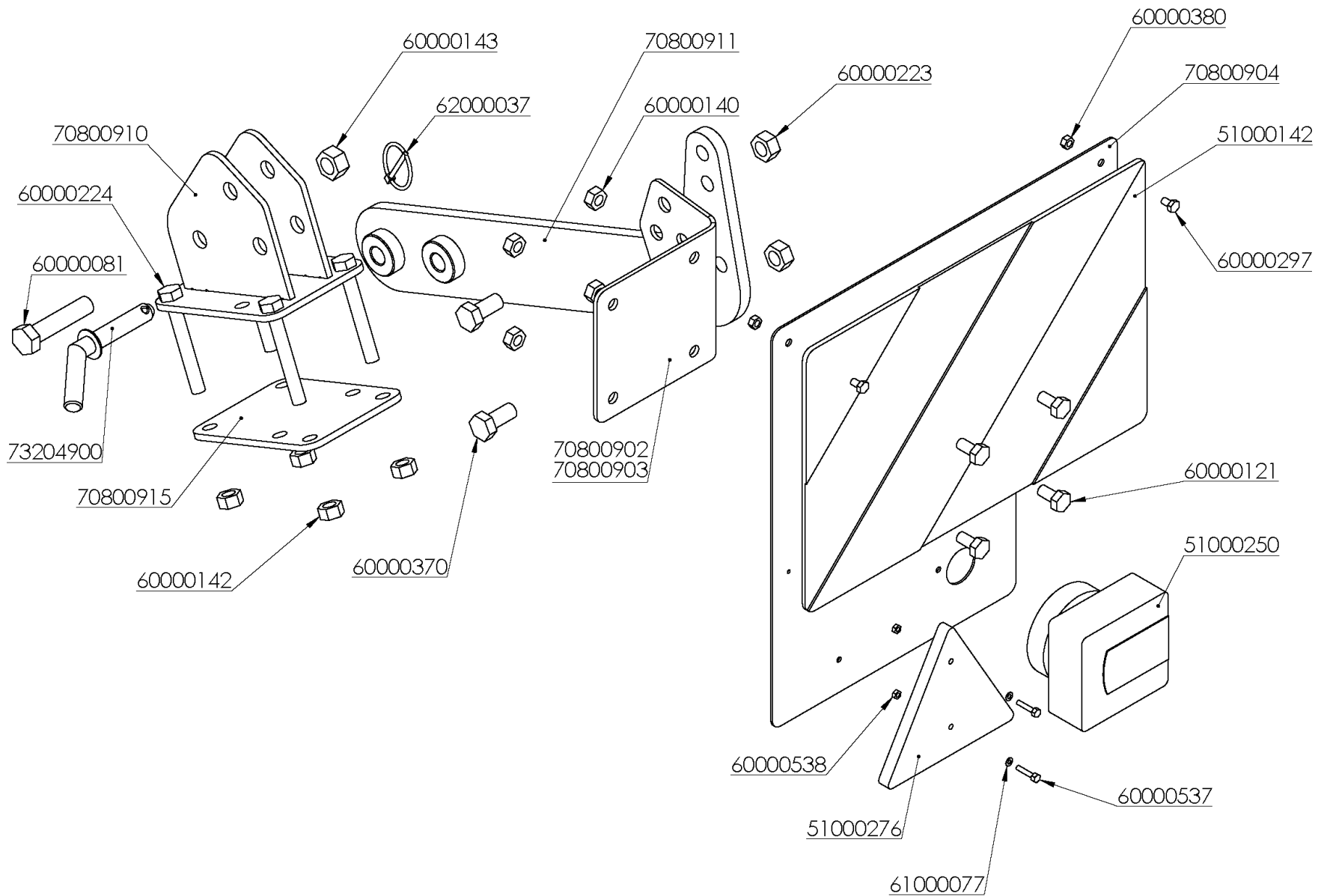


## LATERAL WHEELS

REFERENCIA	DESCRIPCIÓN
9000433	TAPON GOMA 80* 50* 8mm.
60000078	TORN.EXAG.DIN-933 16* 50 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000194	TUER.AUTO.DIN-985 24/200 8.8
62000003	PASADOR ANILLA 6 ZINC.
63000010	R.N.C/ATAQUE 200/60*14,5"-10PR RAL-6029
63000012	R.N.C/EJE 6.00*9"-10PR V50 RAL-6029
75009900	BULON D=20*255mm.REG.RDA.CH ZINC.
75019900	SOP.RDA.CHISEL DCH.
75020900	BRAZO RDA.CHISEL
75020920	BRAZO RDA.NEUM.(608*205) CHISEL
75021900	SOP.RDA.CHISEL IZQD.



# ROAD & LIGHTS SIGNS VHC FIX

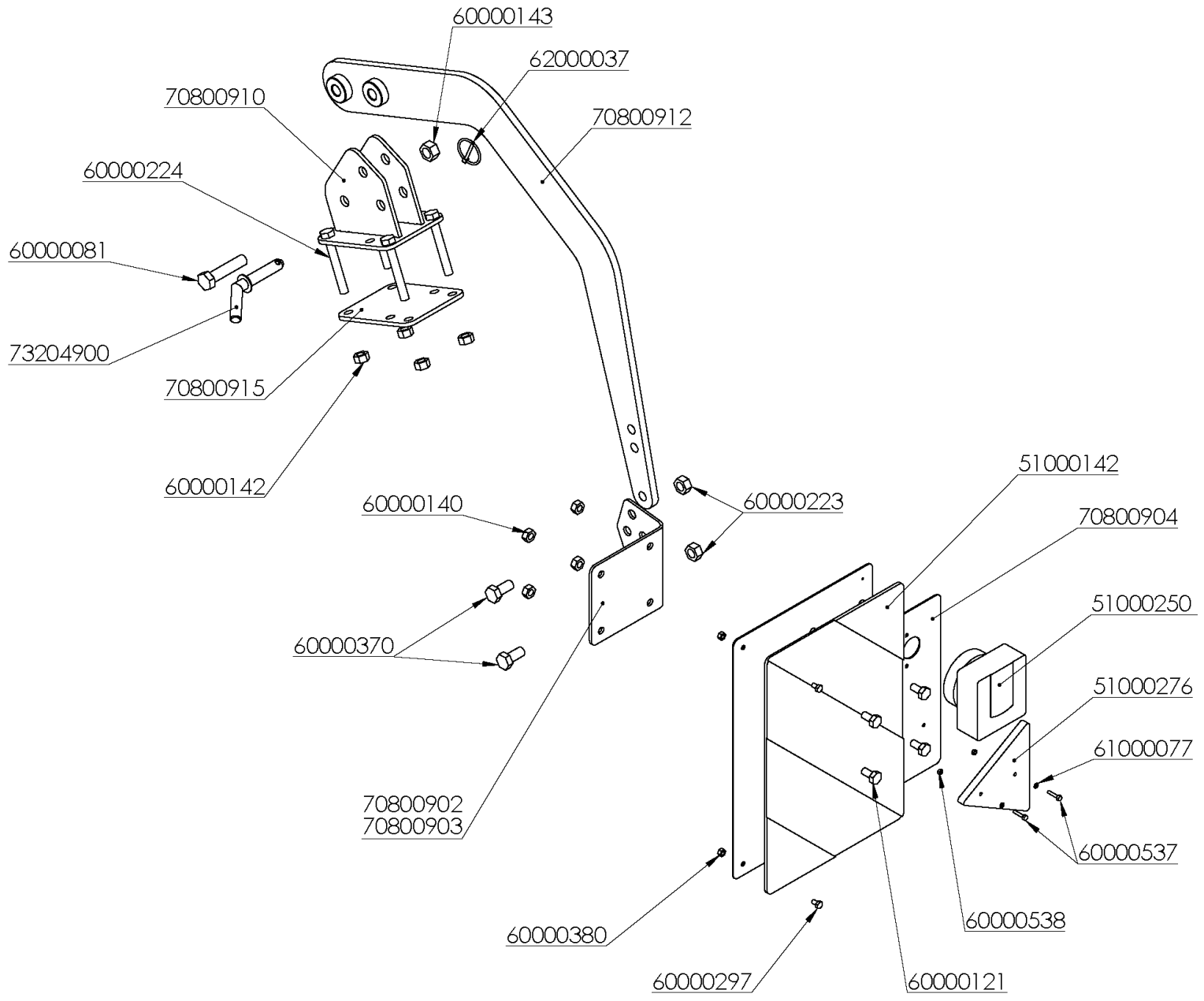


## ROAD & LIGHTS SIGNS VHC FIX

REFERENCIAS	DESCRIPCIÓN
51000142	PAREJA PANEL PLACA 423x282 239909
51000250	KIT LUCES MAGNETICAS LED INALAMBRICAS 1216802
51000276	TRIANGULO ROJO 04010
60000081	TORN.EXAG.DIN-931 16* 70 8.8 ZINC.
60000121	TORN.EXAG.DIN-933 10* 20 8.8 ZINC.
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.
60000224	TORN.EXAG.DIN-931 12* 90 10.9 ZINC.
60000297	TORN.EXAG.DIN-931 6* 10 8.8 ZINC.
60000370	TORN.EXAG.DIN-933 14* 35 8.8 ZINC.
60000380	TUER.AUTO.DIN-985 6 8.8 ZINC.
60000537	TORN.EXAG.DIN-933 4* 20 8.8 ZINC.
60000538	TUER.AUTO.DIN-985 4 8.8 ZINC.
61000077	ARAND.DIN-125 4 ZINC.
62000037	PASADOR ANILLA 4,5 ZINC.
70800902	PLACA SOP.IZQDA.SEÑALIZACION MULTIPLE
70800903	PLACA SOP.DCHA.SEÑALIZACION MULTIPLE
70800904	PLACA SEÑALIZACION MULTIPLE
70800910	SOP.SEÑAL.VBC/MAXIDISC
70800911	BRAZO SEÑAL.VBC/MAXIDISC FIJA
70800915	PLACA AMARRE.SOP.SEÑAL.VBC/MAXIDISC
73204900	BULON D=16*150mm.REG.RDA.DOBLE



# ROAD & LIGHTS SIGNS VHC FOLDABLE



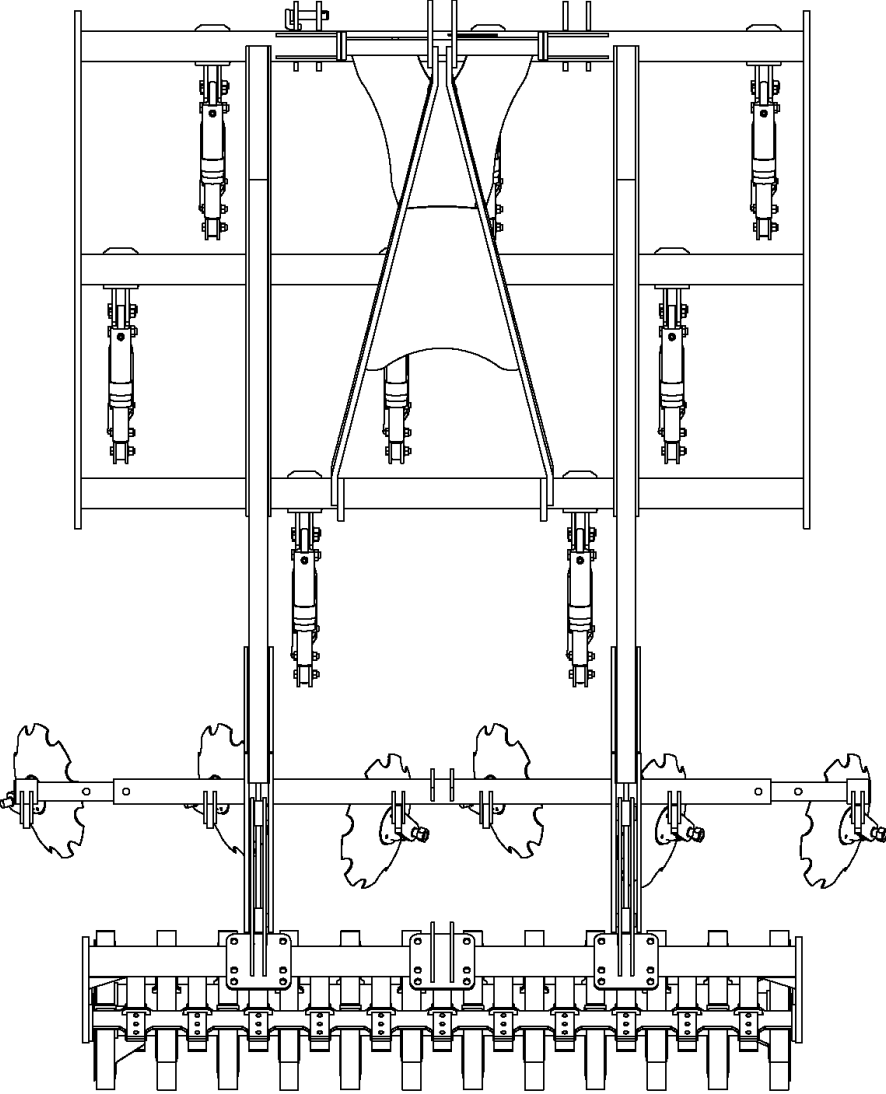


## ROAD & LIGHTS SIGNS VHC FOLDABLE

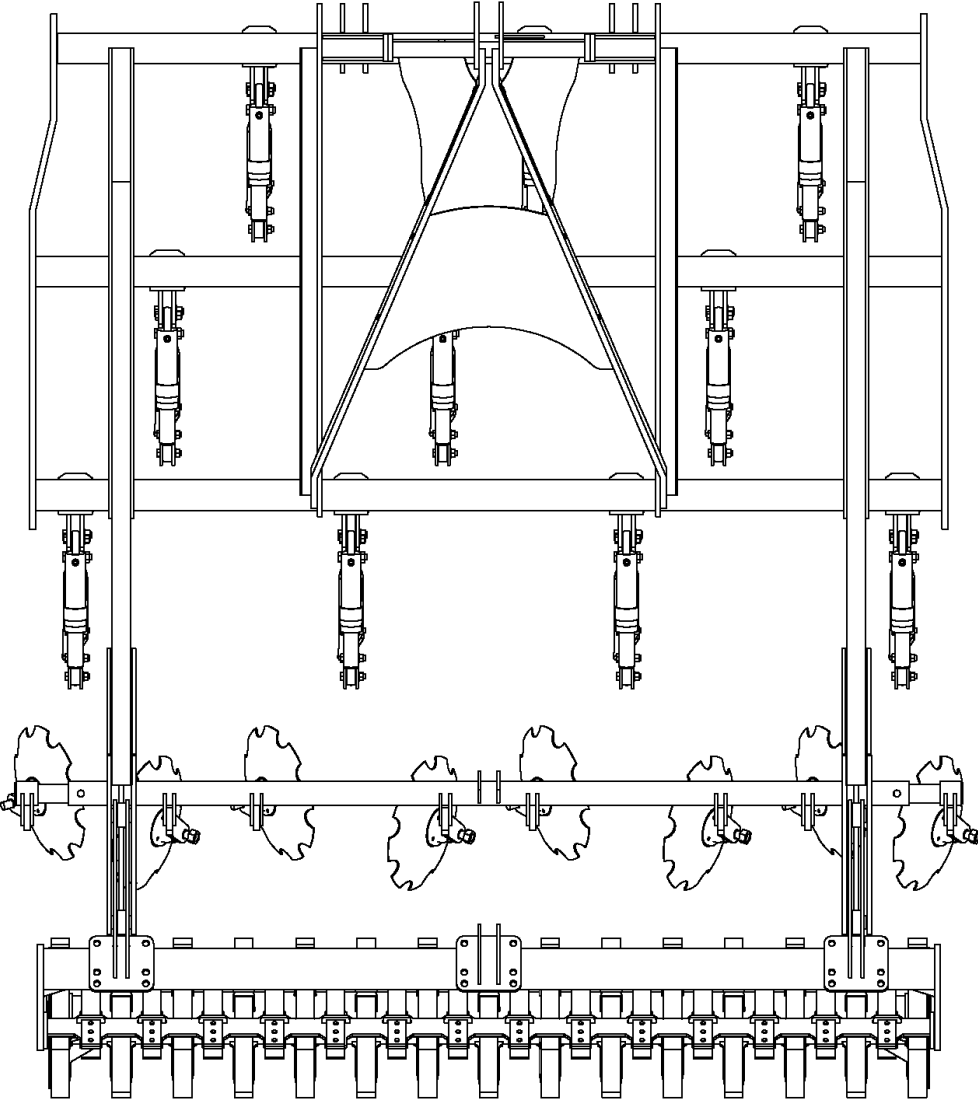
REFERENCIAS	DESCRIPCIÓN
51000142	PAREJA PANEL PLACA 423x282 239909
51000250	KIT LUCES MAGNETICAS LED INALAMBRICAS 1216802
51000276	TRIANGULO ROJO 04010
60000081	TORN.EXAG.DIN-931 16* 70 8.8 ZINC.
60000121	TORN.EXAG.DIN-933 10* 20 8.8 ZINC.
60000140	TUER.AUTO.DIN-980 10 8.8 ZINC.
60000142	TUER.AUTO.DIN-980 12 8.8 ZINC.
60000143	TUER.AUTO.DIN-980 16 8.8 ZINC.
60000223	TUER.AUTO.DIN-980 14 8.8 ZINC.
60000224	TORN.EXAG.DIN-931 12* 90 10.9 ZINC.
60000297	TORN.EXAG.DIN-931 6* 10 8.8 ZINC.
60000370	TORN.EXAG.DIN-933 14* 35 8.8 ZINC.
60000380	TUER.AUTO.DIN-985 6 8.8 ZINC.
60000537	TORN.EXAG.DIN-933 4* 20 8.8 ZINC.
60000538	TUER.AUTO.DIN-985 4 8.8 ZINC.
61000077	ARAND.DIN-125 4 ZINC.
62000037	PASADOR ANILLA 4,5 ZINC.
70800902	PLACA SOP.IZQDA.SEÑALIZACION MULTIPLE
70800903	PLACA SOP.DCHA.SEÑALIZACION MULTIPLE
70800904	PLACA SEÑALIZACION MULTIPLE
70800910	SOP.SEÑAL.VBC/MAXIDISC
70800912	BRAZO SEÑAL.VBC/MAXIDISC PLEG.
70800915	PLACA AMARRE.SOP.SEÑAL.VBC/MAXIDISC
73204900	BULON D=16*150mm.REG.RDA.DOBLE



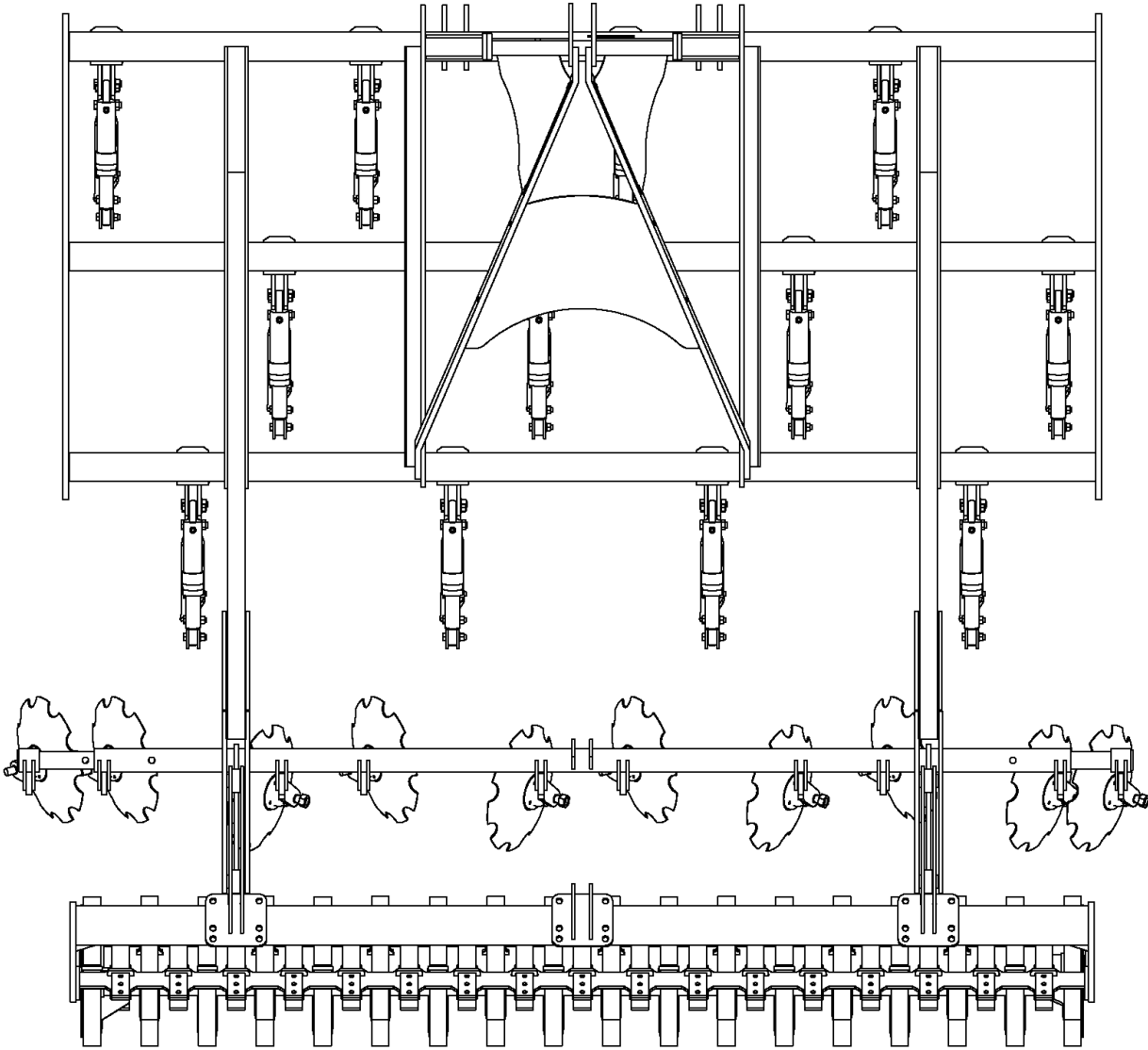
VERSATILL 3-8



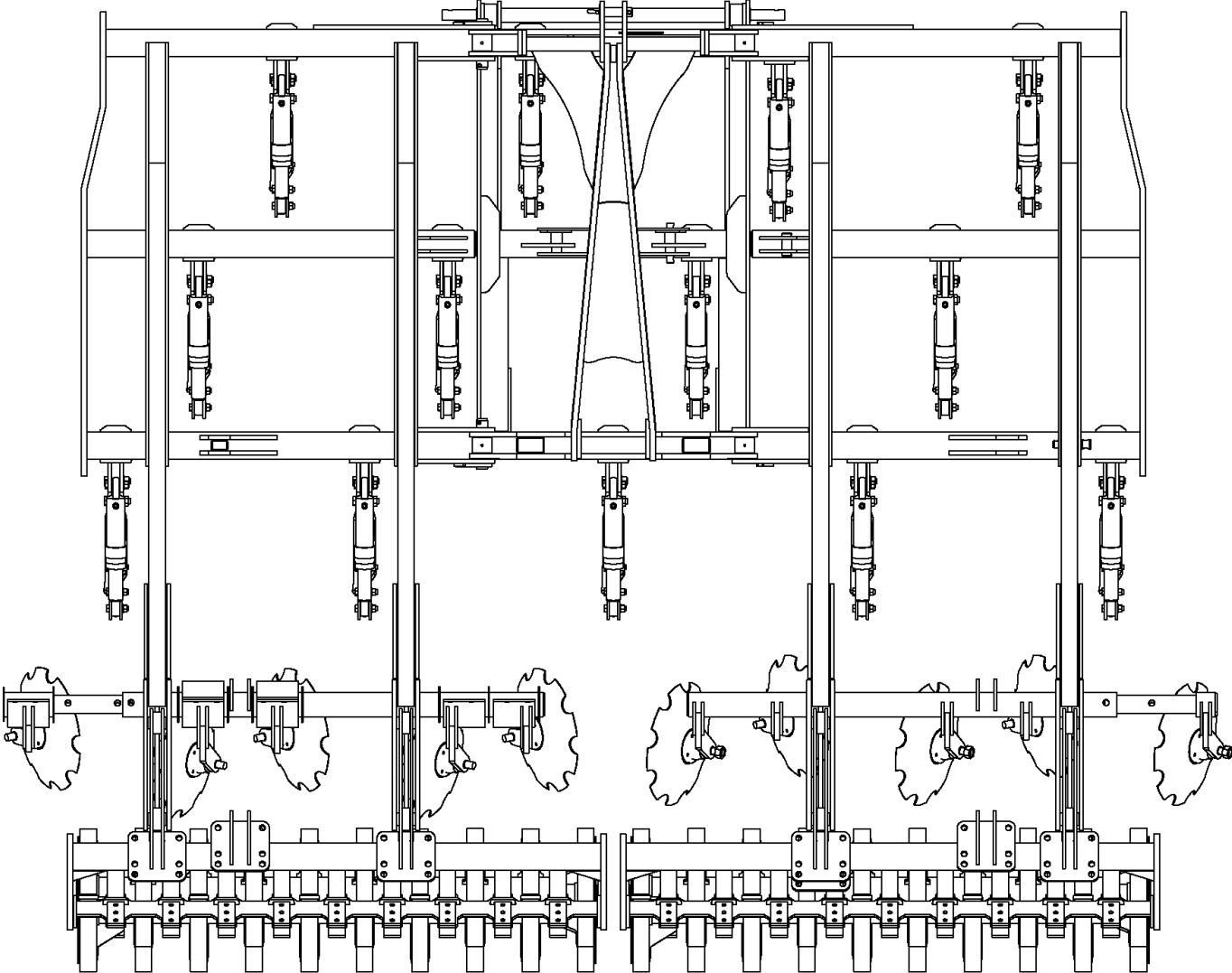
VERSATILL 3-10



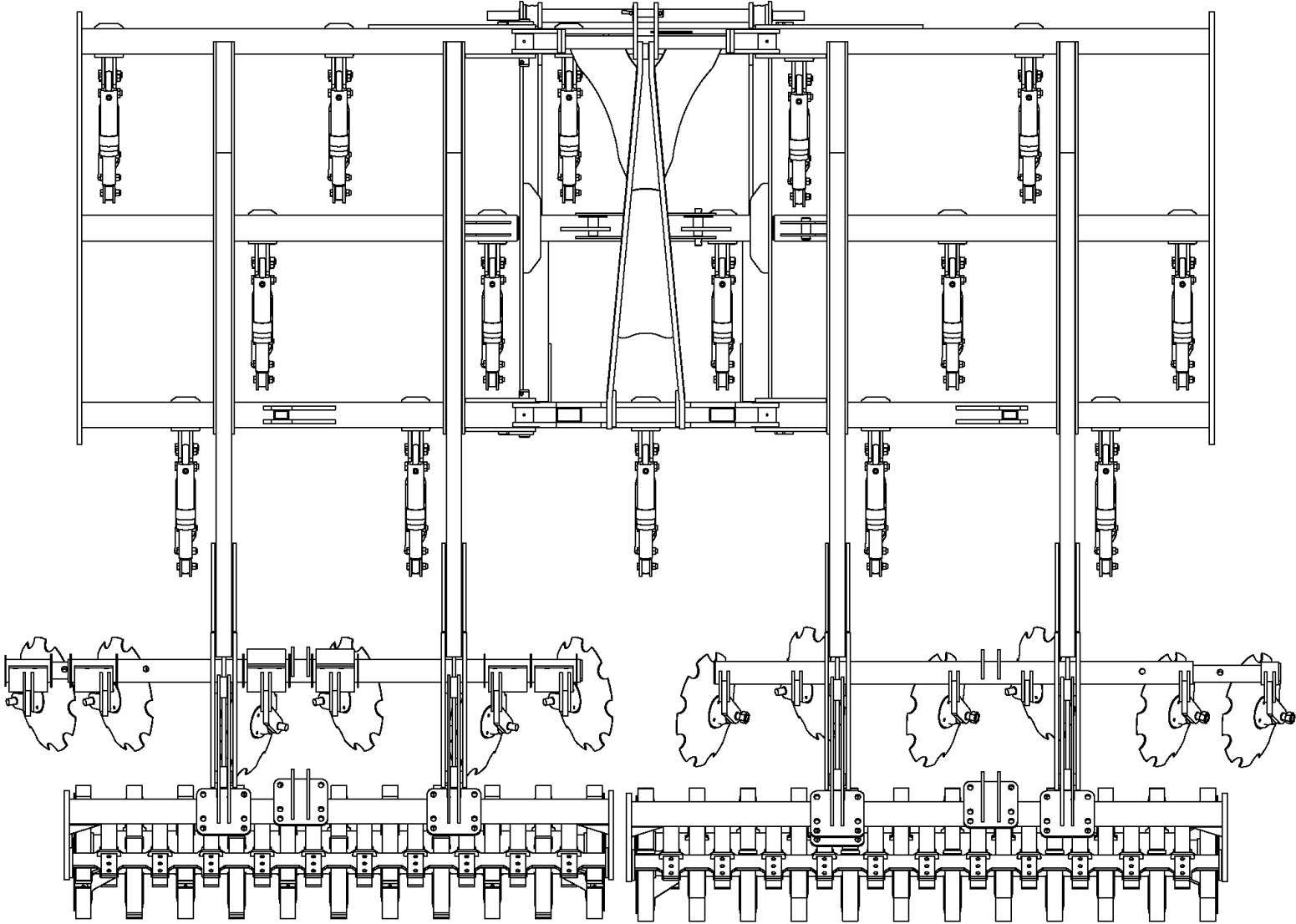
VERSATILL 3-12



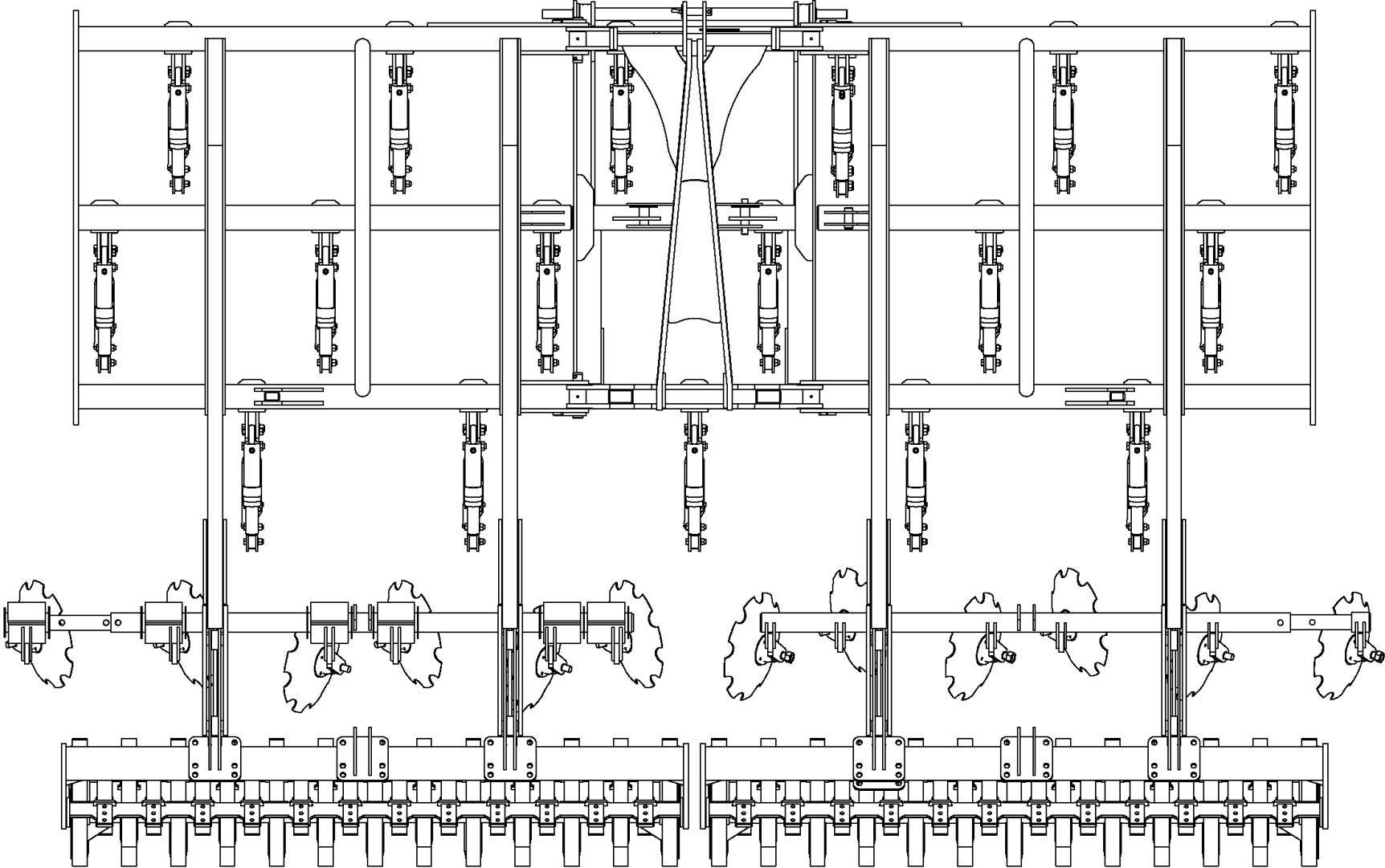
VERSATILL 3-13-P



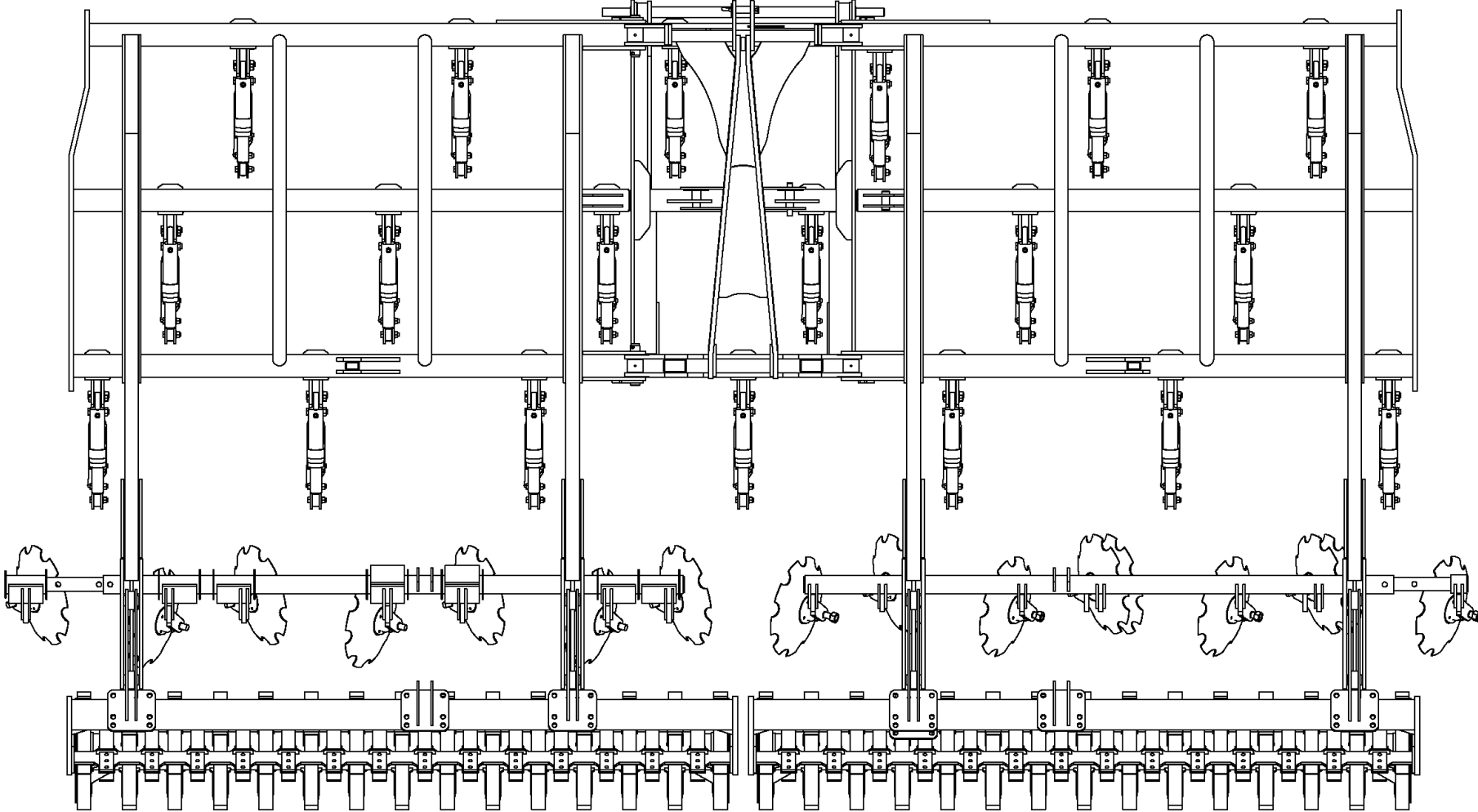
VERSATILL 3-15-P



VERSATILL 3-17-P



VERSATILL 3-19-P









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