

ARAGON-XL

COMPACT DISC HARROW



ISO 9001:2008



En

USER MANUAL
&
SPARE PART LIST

ILGI

For Better Farming



DEAR CLIENT

We thank you for choosing İLGİ TARIM MAKİNA, which is in service for more than 45 years without sacrificing its quality.

You have bought one of our products by choosing it from our wide product range. First of all, enjoy your new product; we are sure it will contribute to your agricultural activities. Control the machine you received basing on the dispatch note and receive it in full.

Before the first use, please pay attention to the warnings and instructions specified in this manual. Demand your spare parts from the spare parts list by its part number. Make your machine's maintenances regularly as it is specified in the manual.

Dear client; our manuals are being updated regularly. Please make contributions by your proposals. You can convey us all kind of suggestions and complaints by mail, fax etc. May you have wide crop.

İLGİ TARIM

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1. SECURITY MEASURES

1.1 Before starting to use

Learn what all the warning and information signs mean on the machine. Read and learn carefully the maintenance instructions manual. Dangerous consequences may occur in case of false and inattentive use of the equipment..



READ AND CARRY OUT CAREFULLY THE SECTIONS WHERE THIS SIGN IS AVAILABLE



**Read the manual carefully and make sure you understand it! Do not stand between the equipment and the tractor.
Wear suitable working clothes.**

1.2 Warning signs

Machine's Serial Number Label



İLG 210



Before starting to use the machine,
read the maintenance instructions
manual carefully

ILG 203

The CE Mark, indicates that the machine is in accordance with the EU legislations.



ILG 207



The risk to squeeze your hand or foot between the parts.

Don't put any of your organs between shearing moving parts in the signed area.

ILG 205

The risk to get squeezed between the tractor and the equipment

Don't enter between the tractor and the equipment.



ILG 208



The risk of slipping and falling from the chassis of the machine.

Please don't step up onto the machine or to use as a platform.

ILG 209

The risk of hit of the turning, folding that is to say moving parts. This danger may result in injuring or death risk.

Don't enter the movement area of the parts during the running of the machine



ILG 206



In case of spotting oil leakage on the hydraulic components the power source must be stopped

Control and prevent all the leakages in the hydraulic circuit.

ILG 204

The oil leakages on the hydraulic circuit must be controlled carefully as there is high pressure in that circuit. The pressurized oil may harm your body or skin. Don't try to control and to close the oil leakages manually. Prevent the leakage by carefully reading the instruction manual. Appeal to a health organization in case of any injures.



ILG 201



Obey all the work safety rules and take precautions during all your installations and repair works. Otherwise there is the risk of injury and death.

Take precautions against the slipping and starting to work by itself. Read the relevant sections on the instructions manual and pay attention to the warnings.

ILG 202

The maximum working pressure of the hydraulic system is 200 bars.



ILG212



The pieces (stone, clay, machine piece etc.) which can pop out from the machine can cause to injuries.

Don't get to the machine much closer than the safety distance.

ILG 211

During the machine's embarkation or transportation, it must be elevated from the points where there are this sign.



1.3 Safety rules during working

Before Working

- Read carefully all instructions if you're going to use the machine for the first time. Refer to manufacturer company for the matters if you have any suspect.
- The valid rules for safety and protecting against accidents of vocational chambers must be taken into consideration right alongside the instructions of this user manual that belongs to the machine.
- Use appropriate working clothes. Never use hanging clothes. These clothes can be caught by turning and moving machine parts.
- Be careful to lift the machine balanced from indicated points on the machine during transporting the machine to another place.
- Ensure that the person who will operate the tractor which the machine is mounted on must have a driver license, must be an experienced and trained driver.
- Be sure that there aren't other people especially children and pets around the machine before operating the machine, the tractor. Take necessary measures in order to see the environment easily.
- The exhaust gas is poisonous. Therefore the tractor shouldn't be operated in inconvenient and closed areas.
- Front and rear weights for the tractor must be mounted if necessary in the event of any equipment to be installed on the tractor.
- Ensure that the system isn't under pressure before detaching hydraulic hoses and pipes.
- An oil leakage that is under pressure may be dangerous. Shield, protective goggles and gloves must be worn while searching the leakages in order to prevent serious injuries. The oil pressure must be reduced before starting to work with hydraulic system. Ensure that the hydraulic hoses are fastened to proper outputs.
- Please note that the machine mounted on the tractor will change some functions (brake distance, steering wheel control, center of gravity) of the tractor.
- Pressure of the wheels must be checked before outgoing.
- Mount your machine to a tractor which has an appropriate pulling and hydraulically lifting system.
- Apply the parking brake and shift the gear into neutral of the tractor before mounting the machine on the tractor.
- Ensure that there is nobody between the machine and the tractor during the machine is being mounted on and detached from the tractor.
- Start to work with your machine and tractor after all safety measures are taken.
- Special pulling pins must be used while mounting the machine to the tractor; those can endure machine strength and have appropriate thickness.
- Waste materials such as nylon, clothe and obstacles such as tree roots must be cleaned, obstacles (irrigation sets etc.) in the field must be smoothed.
- Never operate in fields with plenty of stones.
- Be careful for the operating area of hydraulic lifting wings. There is a risk of crushing and squeezing.
- It is necessary to be sure about all systems and operating components as well as their functions before starting to work.
- Warning and explanatory signs (labels) on the machine set forth important explanations in order to provide an operation free from danger. It is important to observe these warnings on the signs for your safety. Replace right away the warnings and explanatory labels in case of being damaged.

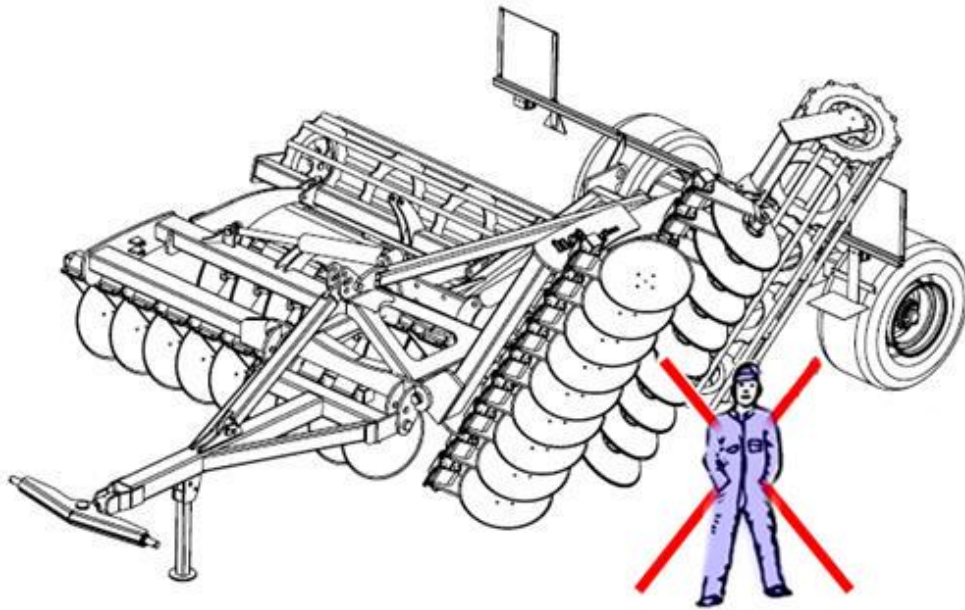
- Moving direction of the machine parts which operates hydraulically or by spring force must be taken into account. There is a risk of striking, crushing and squeezing.
- All adjustments explained in the machine manual must be set before starting to operation.

During Operation

- The machine must be stopped in case of an abnormal voice is heard while running of the machine.
- The tractor must be set into motion by softly clutching. Sudden and strong movements may cause dangerous jumping up and rearing up especially while going upwards and pulling loads.
- One or a few passenger never being carried during the tractor in motion except the person who drives the tractor unless the tractor sitting areas are equipped properly.
- Never try to run the tractor or execute maneuvers before the driver sits its chair.
- Never permit anybody to climb on the machine during operation in the field as well as going and coming back from the field.
- Comply with required traffic rules; take safety measures when you go to traffic with your tractor mounted with the machine. Completely comply with instructions for protecting against accidents and safely usage.
- Moving and turning parts never handled.
- Before handling the machinery components, wait them until stop entirely.
- Do not enter between the tractor and the machine while the tractor operating unless the park brake engaged and the wheels hindered with wedges.
- Never put weights on, never permit people climb on, never insert your hands into the machine during operation.
- Never leave the driver sitting area if the tractor is running.
- Be careful of the danger of overthrowing while working in sloping fields.
- Shouldn't go backwards during the operation.
- Never approach the machine, never let people to approach the machine during the operation
- Proper plowing must be performed against the danger of erosion.
- During operation, never insert your arms and feet between the tractor and the machine or never hold the machine.

After finishing of the operation

- Before leaving the tractor, take down the machine mounted on the hydraulic. Apply parking brake, take the engine key after turning off the engine.
- Ensure that it must be taken down the ground completely before leaving the equipment mounted on rear side of the tractor at the end of the operation.
- If it is possible, the tractor must be parked on a smooth place and in this position be shifted in any of the gears and be applied the park brake. If it is to be parked on a sloping field, must be shifted in 1. Gear for uphill, rear gear for downhill and park brake must be applied for both of these situations.
- The machine must be kept clean against the danger of fire.
- The machine will be ready for operation after equipped with all protective systems and taken into safety condition.
- Never stand within the turning and swaying area of the machine.
- Never climb on; never crawl under the machine while the machine mounted on the tractor. Because the machine can bring down at any moment and severe injuries may occur.
- The hydraulic system must be in neutral position while leaving the tractor.



Do not enter into the parts' movement area during folding and opening of the wings.

2. INTRODUCTION OF THE MACHINE

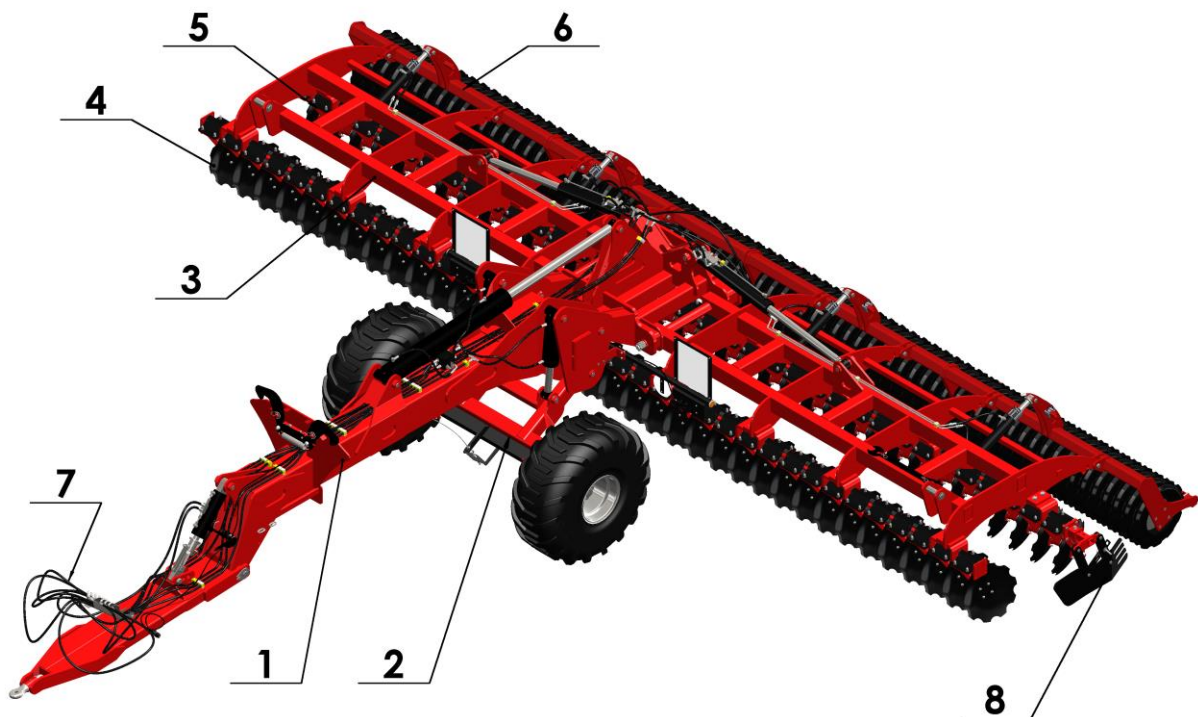
2.1 Introductory and basic information related with the properties of the machine

- It provides mixing by processing the soil with certain depth through going directly into the field or after plowing in order to prepare the soil to be planting.
- It blends the plant stems and remnants into the soil by tearing them into pieces which are left in the field after the harvest. Creates mulch.
- It comminutes the soil and crumbles the clods formed in the field after usage of tools such as plow, chisel and cultivator.
- Enables the preparation of seed beds and seedling beds.
- It is effective in struggle for the weeds, comminutes the herbs, blends them into the soil and so enables them to be removed and to be dried.
- Enables the blending of organic and inorganic fertilizers into the soil by taking them under the earth.
- It can operate faster than the other disc soil processing machines. Its' processing quality increases depending on the soil characteristic and humidity condition upon climbing up to 15 km / h speed. Comminuting and blending affects are greater because of vibratory running of the discs. Less need for tractor power. It is more economical than other soil processing machines because of it has greater running speed. Fuel-oil, time, labor and maintenance, spare parts costs are smaller.
- Enables the aeration, fluffing of the soil by stirring and mixing the soil, enables the balance of water and temperature environment.
- It can be used easily and without being forced in every kind of soil.

2.2 General structure and parts of the machine

Each of front – rear disc groups consist of separate bedded discs. The discs are connected to battery profile with rubber springs at an angle of 14 degrees if it is in perpendicular direction and at an angle of 18 degrees depending on the direction of flow. Spaces between the discs are 24.5 cm. The disc groups are placed as the rear discs operate through the front discs. Front – rear disc trace adjustment is made by moving front battery towards right - left. (See adjustments)

The folding models are manufactured as towed-type. The wings are taken as folded by hydraulic cylinders depending on the working condition to road condition. It can be used as a suspended type if desired when tractor properties are suitable. The wings are automatically locked for safety during road condition, and automatically opened by hydraulic cylinder when they are being opened.

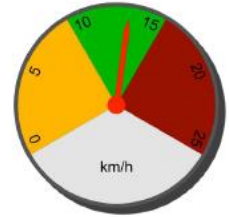


MODEL : ARG9 – 72-80-96

FIGURE 1

- 1- Tow part and the arrow
- 2- Axle
- 3- Main frame and wings
- 4- Front disc group
- 5- Rear disc group
- 6- Roller group
- 7- Hydraulic system
- 8- Trace remover

3. USAGE INFORMATION AND ADJUSTMENTS



3.1 Machinery tractor compliance

The tractor and the machine should be;

- Connecting rods measuring compliance must be (2. Or 3. Category).
- It must have towing-power compliance: Towing power needs determined for Aragon models explained in the table of technical properties. Model selecting must be made by soil characteristic taken into account. Example: 96-disc (12 m work width) is recommended for a 400 HP tractor. This selection must be considered as 72 disc (9 m work width) if soil condition is hard. Otherwise it can't operate under the condition of normal work width and running speed required to be (10-16 km/h).
- Tractor front rear load balance must be provided for suspended type machinery. Additional weight must be put in front of the tractor if the tractor rearing up in case of removing the machine.



Select a Aragon model appropriate with the power of your tractor. Ensure the equipment – tractor weight balance with tractor front weights. Otherwise your driving safety will be risky, you can't utilize entirely tow-power of your tractor.

Tractor upper connecting rods direction must be towards about tractor transmission, machinery upper connecting alternative holes must be used if (A) direction is not suitable. **FIGURE 2**

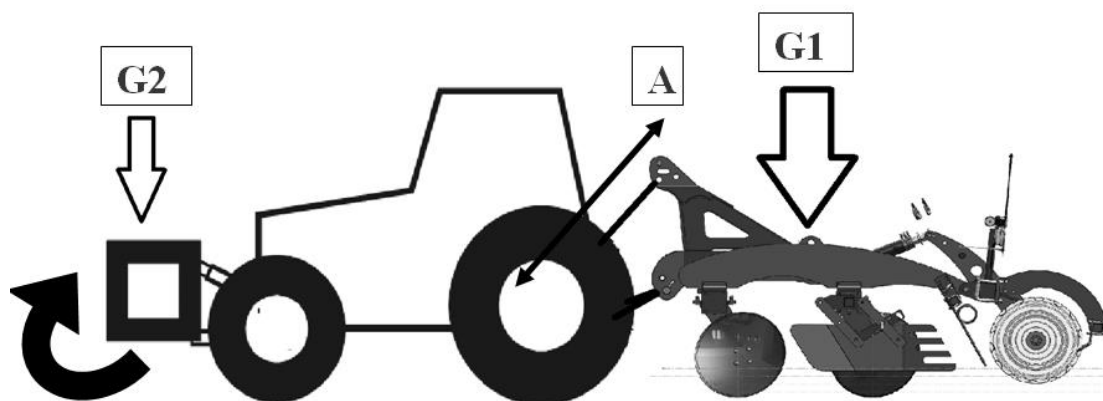


FIGURE 2



**G 2 WEIGHT TOGETHER WITH G 1 WEIGHT MUST CREATE SCALES BALANCE
And FRONT WEIGHT BALANCE MUST BE OVER BY 10-20%
G2 WEIGHT AMOUNT THAT WILL BE USED IN THE FRONT MUST BE DETERMINED
ACCORDING TO THIS
AFTERWARDS THIS WEIGHT MUST BE ATTACHED**

3.2 To mount and detach it from the tractor

Our trailed-type models are mounted to the tractor with a special tow-mechanism at lower suspension arms, the tow which can rotate to horizontal and perpendicular axis together with tow arrow with adequate length, enables easy rotations in narrow areas. Height from the ground of lower connecting rods is adjusted according to the machine front-rear parallelism. The tractor hydraulic front selecting rod must be at check position.

Towed type disc cultivator also can be used as a suspended type by detaching front arrow and rear carrying mechanism. In case of getting and using as a suspended type, tractor weight balance must be ensured correctly, adequate weight addition must be put in front of the tractor.

Three pairs of hydraulic hoses connected to hydraulic systems, of rear carrying mechanism and wing chassis folding mechanism and roller depth adjustment mechanism, are connected separately to hydraulic outputs of the tractor.

At the end of the operation, the hydraulic lock is checked if it operates automatically, afterwards can be taken the road. The chassis of the wings are lowered, front arrow support is opened, and it is taken down onto carrying wheels and front rear support on a smooth ground. First hydraulic fast connections are detached, then lower connecting-rods are detached.

3.3 Preliminary preparations and the rules that must be complied for the usage

Take into working and road condition this folding towed type machine can be switched to working condition from road condition by opening hydraulically of wing chassis.

Taking into working condition: (FIGURE 3: Procedure 1 -4)

1. Process: The machine is placed on a smooth area when entering into the field.
2. Process: The wings are fully opened by moving wing cylinders at the hydraulic control center of the tractor.
3. Process: By opening the master cylinder it becomes parallel to the field.
4. Process: The machine is taken down the ground by wheel cylinder and tractor three point suspension hydraulic and starts to cultivate the soil.

Taking into road condition: (FIGURE 3: Procedure 4-1): The opposite of the taking into working condition is performed.

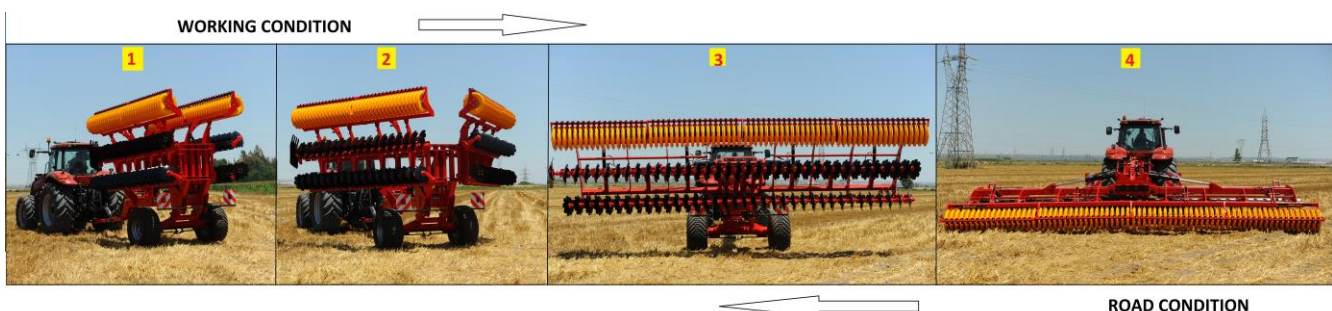


FIGURE 3



Check for the locking of automatic hydraulic road lock while in road condition.

3.4 Working depth adjustment

The working depth hydraulic adjustment system;

- The working depth (a) is adjusted at the roller depth hydraulic cylinder (A) (Figure 5.b)
- The working depth decreases upon the hydraulic cylinder is lengthened.
- 10, 20 and 40 mm clips are used in order to ensure stable adjustment of working depth at hydraulic cylinder adjustment. Each clip with a thickness of 10 mm creates 13 mm working depth.
- It must be taken into consideration that the clips numbers which are attached to right and left wing cylinder must be equal for the folding models.

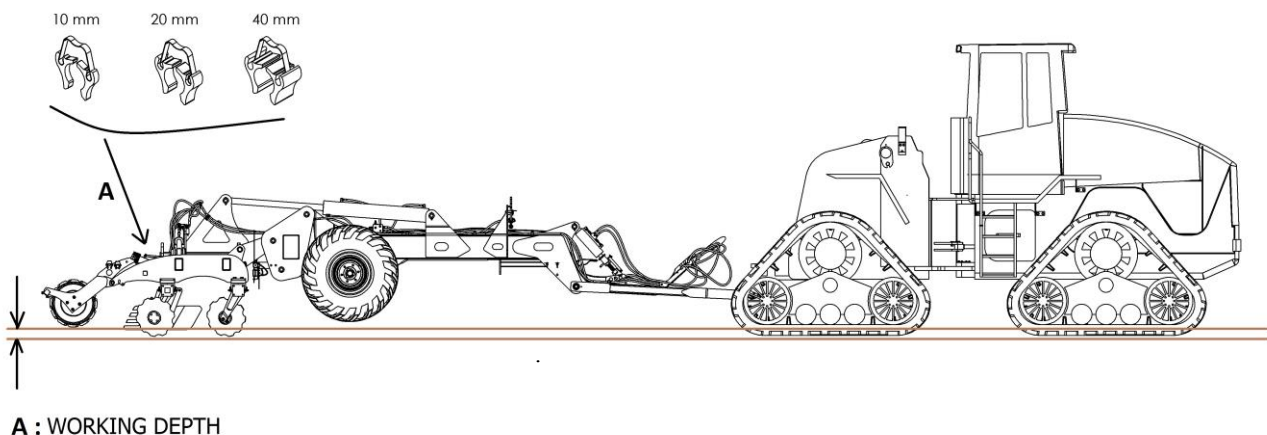


FIGURE 4



Always check and adjust the working depth of the discs as required before starting the operation and after operating a while.



These working depth values indicated above may vary depending on the soil characteristic in the field conditions.

3.5 Parallelism adjustment of the wing

- The chassis must be in same direction and parallel to ground surface when the wings opened at folding models. (Figure 5)
- If this parallelism is out of order, the screwed tuning on the connections of wing-side of hydraulic cylinders are lengthened or shortened by loosening the counter nuts up to ensure the parallelism.
- The counter nuts are tightened again after the parallelism ensured.

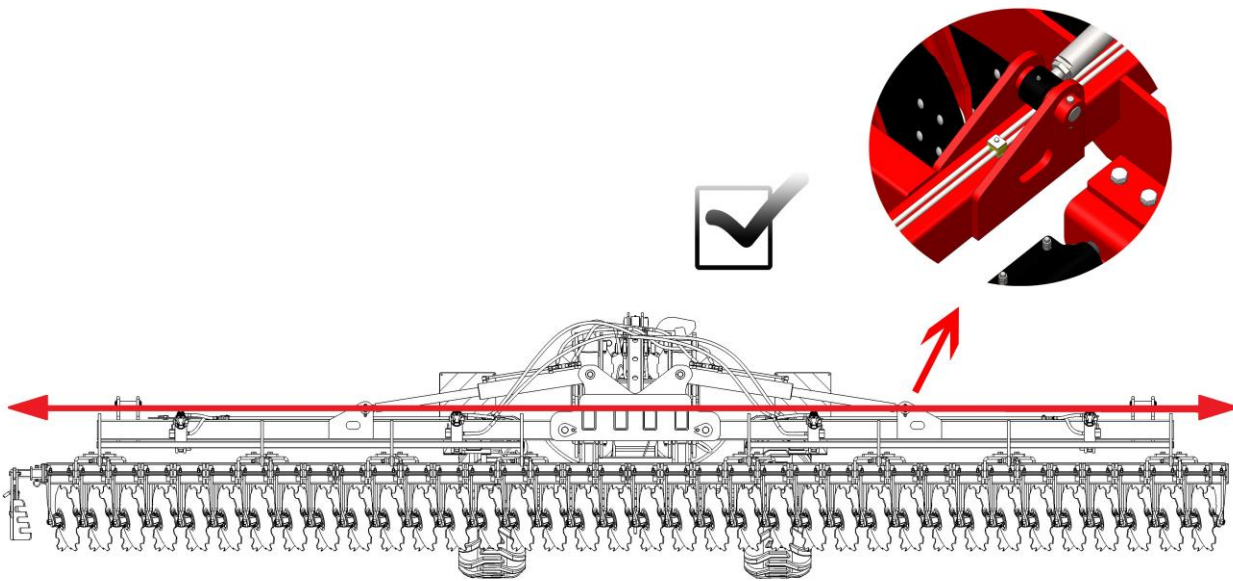
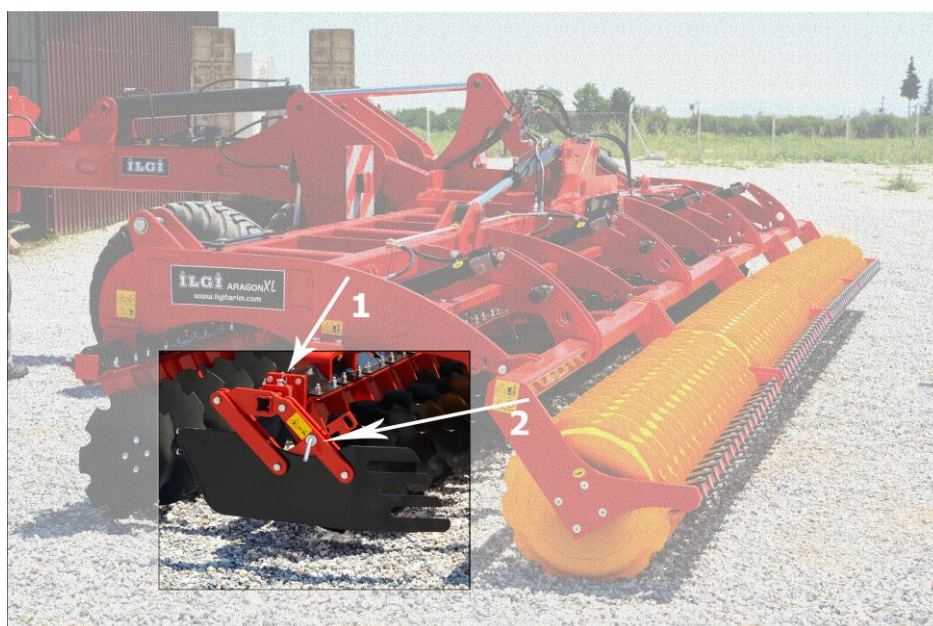


FIGURE 5

3.6 Flank furrow concealing adjustment

- The furrow concealing plate, which serves the concealing of open furrow caused by the discs at the left side in the soil, may be adjusted in two-ways as down-up and taking away from – drawing near to the discs. The smoothing of the field is preserved.
- The adjustment is made in the direction of inside and outside by removing no. 1 pin, it is tuned at hole-level that prevents the occurring of furrow depending on the operation working depth.
- Down-up adjustment is made by selecting one of the four levels after removing no. 2 pin. This adjustment depends on the working depth; the adjustment must be made again in case of working depth change. The furrow closer has a play towards down and up; this property provides flexibility in field undulations, prevents deformation.
- Appropriate adjustment is made as to ensure concealing the open furrow by striking to the plate of the soil scattered by last-disc depending on the condition of cultivated soil.



3.7 Disc roller scraper adjustment

- Scrapers are set in factory .
- After process in field need to check and correct the adjustments.
- Scraper point is adjustable with up and down directions. With the correct adjustment there should be 5 mm space between scraper and discs.
- Scraper plates should not touch to discs. If yes it can be shifted left or right by loosening the U-Bolt .

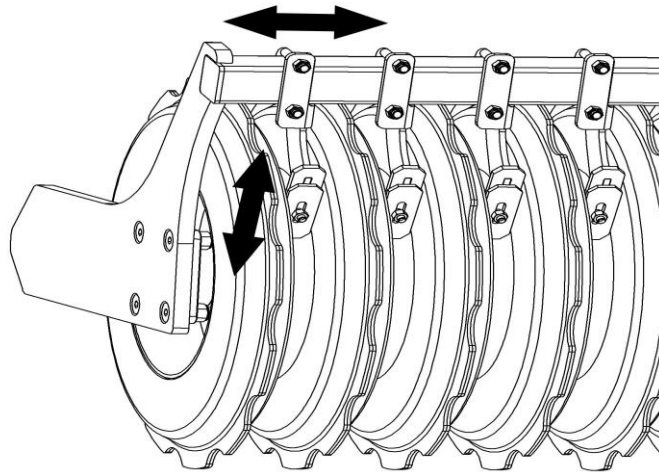


FIGURE 7

3.8 Brake Mechanism

- Brake mechanism is for using during parking position.
- As seen on Figure 8 there is brake system on wheels (A) .
- You can apply brake by pulling the lever over the tow bar (B).

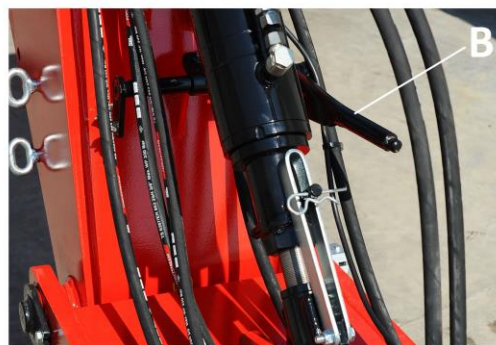


FIGURE 8

3.9 General Principles of Work

- By opening the wings machine becomes parallel to the field .
- Working depth will be adjusted by the clips over the roller cylinders .
- Optimum speed of the machine will be 10-16 km/h .
- Preferred tillage techniques are applied. (Figure 10)
- Frond discs mulches and transfers the soil to rear discs. Rear discs crumbles the soil again and the roller pushes down.

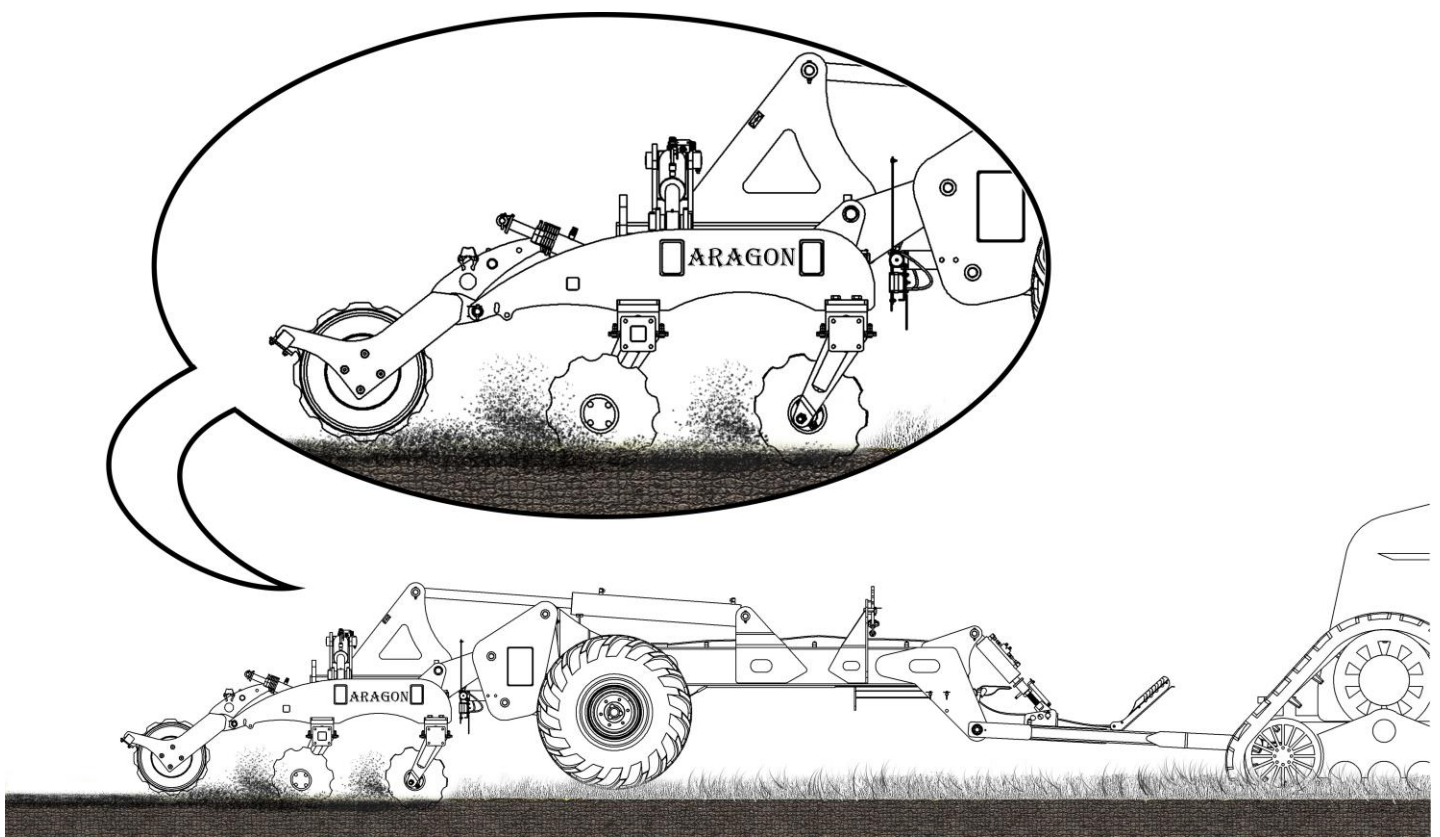


FIGURE 9

4. TILLAGE TECHNIQUE WITH THE CULTIVATOR



Required working depth may not be obtained with one crossing for deep processing in hard earths,

For this situations;

- **Tractor towing power may be inadequate,**
- **Fuel consumption increases,**
- **Your machine may be damaged,**
- **It won't be an economical operation,**
- **Desired working depth is obtained by increasing gradually with a second time plowing.**



Working Speed is 10-16 km/h depending on the soil conditions.

Those are recommended in order to increase operation achievement and to reduce the cost at soil cultivating with the cultivator;

Order of the procedure:

1. Being entered from one side according to plowing direction of the field (1)
2. The area which the maneuvers performed at the head of the fields should be left as 7-10 m (according to tractor + machinery rotating diameter), this returning should be made at one time without any maneuver,
3. The plowing is continued on its side by taking a furrow at each 15-30 meters, these distances are important in terms of decreasing the wasted times at least during turnings, the distance may be adjusted according to your own conditions,
4. (2) entrance is performed by taking into account of working depth right next to the previous, and being continued the plowing with (3.) entrance, (figure cross plowing)
5. If the stubble is being processed; it is recommended that first layer crossing should be made as creating a 30-40 degree cross angle (figure cross plowing) towards the direction of harvest lines unless the field surface is not rough. Because; field smoothing will be better, cutting of the stubble and weeds will be more effective,
6. Straight plowing is recommended in terms of running easily of the sowing machine that will operate afterwards for the second layer crossing.
7. Finally head of the field returning areas are plowed after the field plowed entirely. (4)

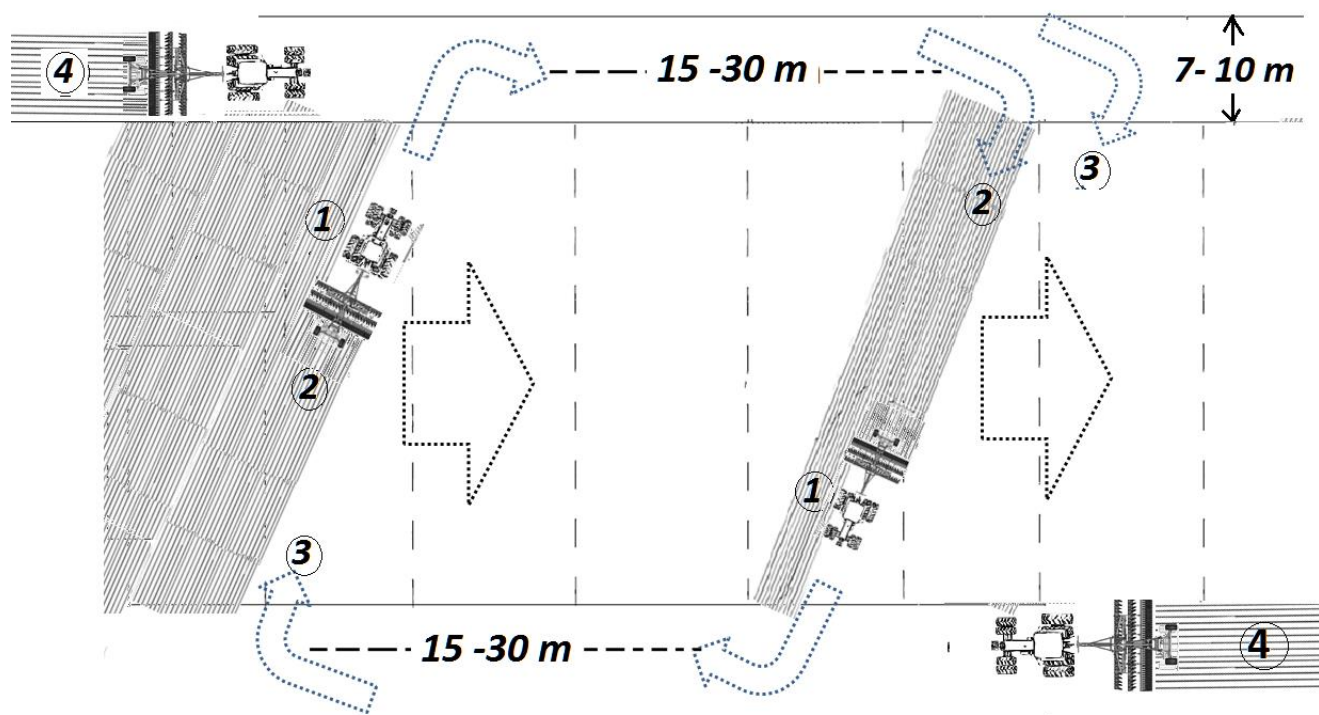


The feet must be taken out from the earth at the field heads, and never turn with the feet inside the earth.



The furrow distance must be about an exact multiple of the machinery working width, Example: 6m x 6 = 36 m

Cross Tillage



Straight Tillage

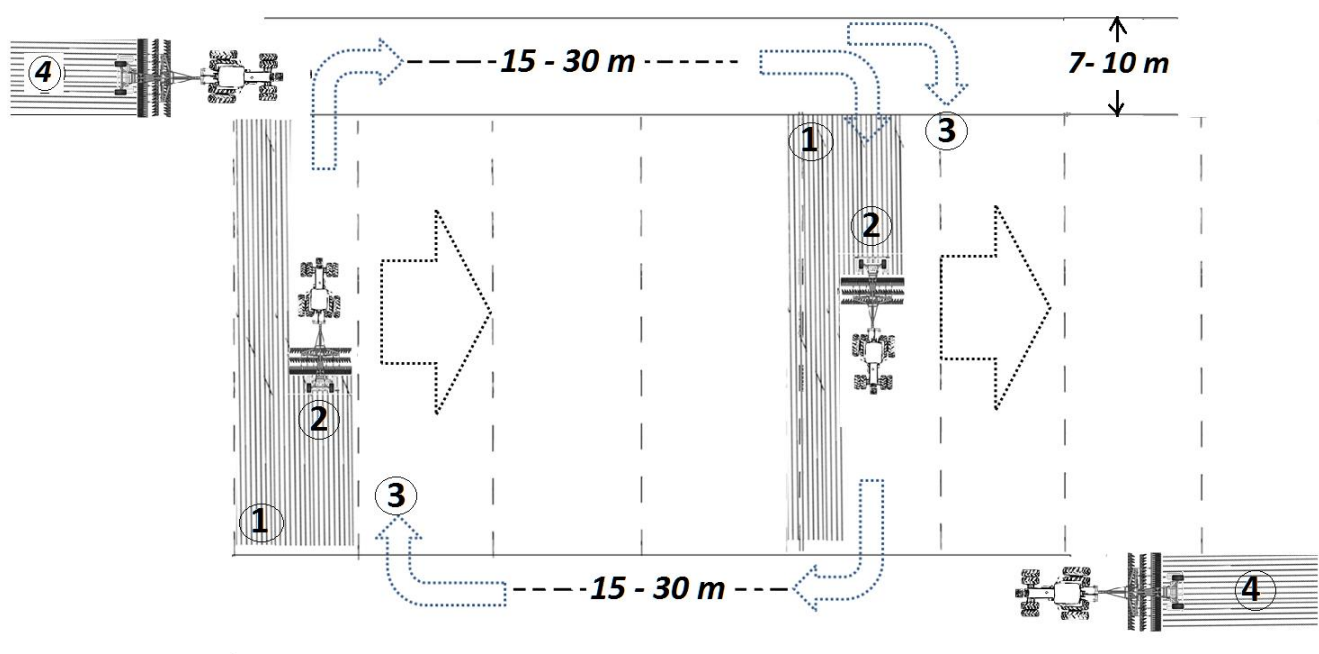


FIGURE 10

5. MAINTENANCE and REPAIR



While performing repairs and maintenance over the machinery

- Tractor must be stopped and park brake must be applied.
- Precautions must be taken against the slipping and falling risk of the machine.
- Appropriate wrenches and tools must be used for repairs.
- Disconnect the alternator and accumulator cables of the tractor in case of welding process.
- The spare parts to be used must be original ILGI parts.

5.1 Maintenance-repair which can be done by user and the rules that must be complied

- Machinery greasing points must be lubricated periodically and after each pressurized-washing. It is very important in terms of an uninterrupted operation without any failure and in order to reduce repair costs.
- The frequency of periodic maintenance may vary depending on the factors such as working conditions, soil characteristic, and working speed.
- Greasing process must be performed sequentially without skipping according to lubricating grease schematic.
- Tightness of all bolts and nuts must be checked at regular intervals and tightened with proper torque during all the season and after first working hour.
- Carrying wheels lug nuts must be checked after first outgoing for towed models. Tightening torque for lug nut is 320 Nm.
- Hydraulic cylinders and bearing beds must be cleaned with high-pressurized water. Otherwise the felts may be damaged.
- If the machine won't be used for a long time, it must be kept in a covered place.

5.2 Lubrication - grease fitting schematic



Grease fitting points on the machine are marked with this label, pump grease to these points according to lubrication table.

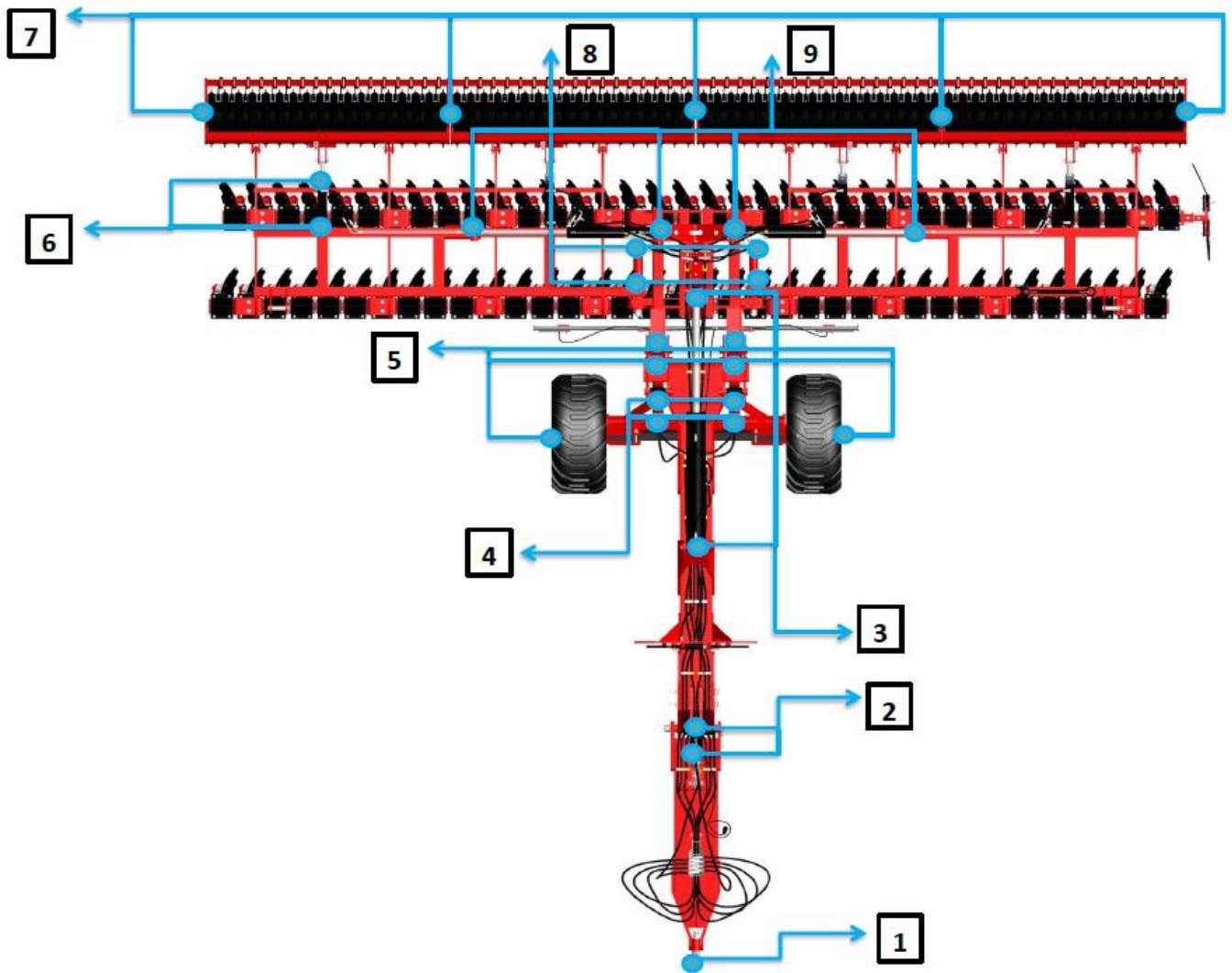


FIGURE 11

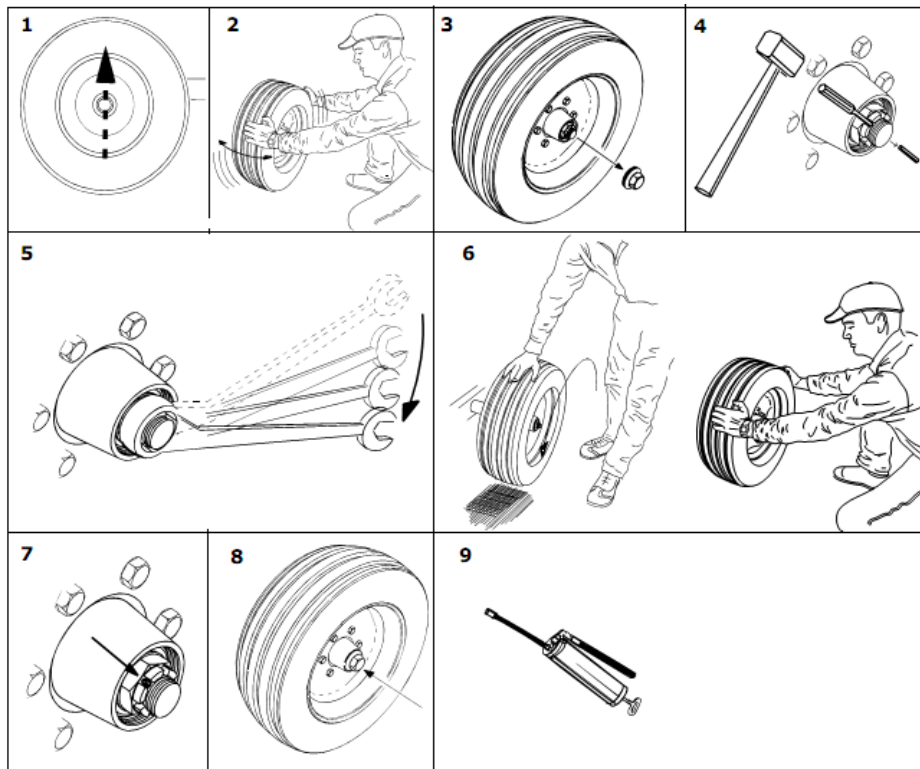
MODEL : ARG – 72-80-96

Figure no	Lubrication point	Lubrication frequency	Used oil	Number of grease fittings
1	Drawbar Neck Cat Eye	50 hours	Grease oil	1
2	Draw Horizontal Join Pin and Drawbar Cylinder	50 hours	Grease oil	2
3	Hydraulic Cylinder Main	50 hours	Grease oil	2
4	Axle Cylinder	50 hours	Grease oil	4
5	Axle – Wing Connection Bushing	50 hours	Grease oil	4
6	Roller Pin Bearings	50 hours	Grease oil	8
7	Roller Bearings	2 times in a season	Grease oil	8
8	Wing and Main Frame Connection Bushing	50 hours	Grease oil	4

5.3 Space control for carrying system wheels and their adjustment

Space control at wheel bearings and their adjustment must be made at regular intervals and after first working hours.

Size of the wheels	Tire pressure psi (bar)
550/60-22,5	38



Operating Sequence

1. Lift up the wheel from the ground till it rotates freely,
2. Check the play by holding at right and left; if there's a play, in order to adjust;
3. Remove the hub cover.
4. Detach crowned nut fixing cleft pin,
5. Tighten the crowned nut with a special wrench up to the firm-rotating point of the wheel and take it back a half-turn or full-turn, then repeat these procedure until you determine non-playing and the free-rotating adjustment for the wheel by re-checking the play,
6. Twist the ends by attaching crowned nut fixing cleft pin,
7. Install the protective cover again
8. Pump the grease oil until clean oil comes from the oil drainage hole of the hub.

5.4 End of season maintenance

Connection components; Check the tightness. Tighten all bolts. Fasten new bolts in place of missing bolts.

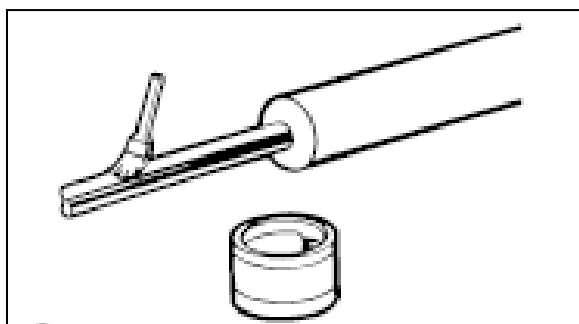
Grease fittings; Pump grease oil into the grease fittings on the machine according to the instructions. Replace the grease fittings which pulled out or can't be pumped by grease oil.

Operating components; lubricate the operating parts of the machine with protective oil.

Other; Replace the worn or broken parts with the original ones. Keep the machinery in a closed and dry environment, on a block after fulfilling general cleaning of the machinery.

Disconnect the tire wheels from the ground by placing wedges under the chassis.

Cover the surfaces of the hydraulic cylinder piston levels with protective grease against the rust in winter term, out of the season.



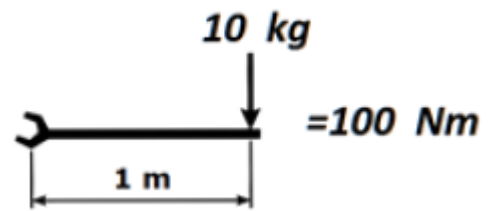
You can always apply to iLGi for assistance in case of problems encountered related with the maintenance, repair and usage by giving the information below.

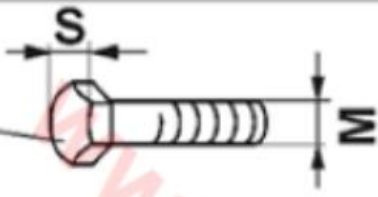

- Customer name and address
- Model of the machinery
- Purchasing date and the amount of the operation space (decares)
- Detail of the encountered problem

5.5 Values for bolt torque



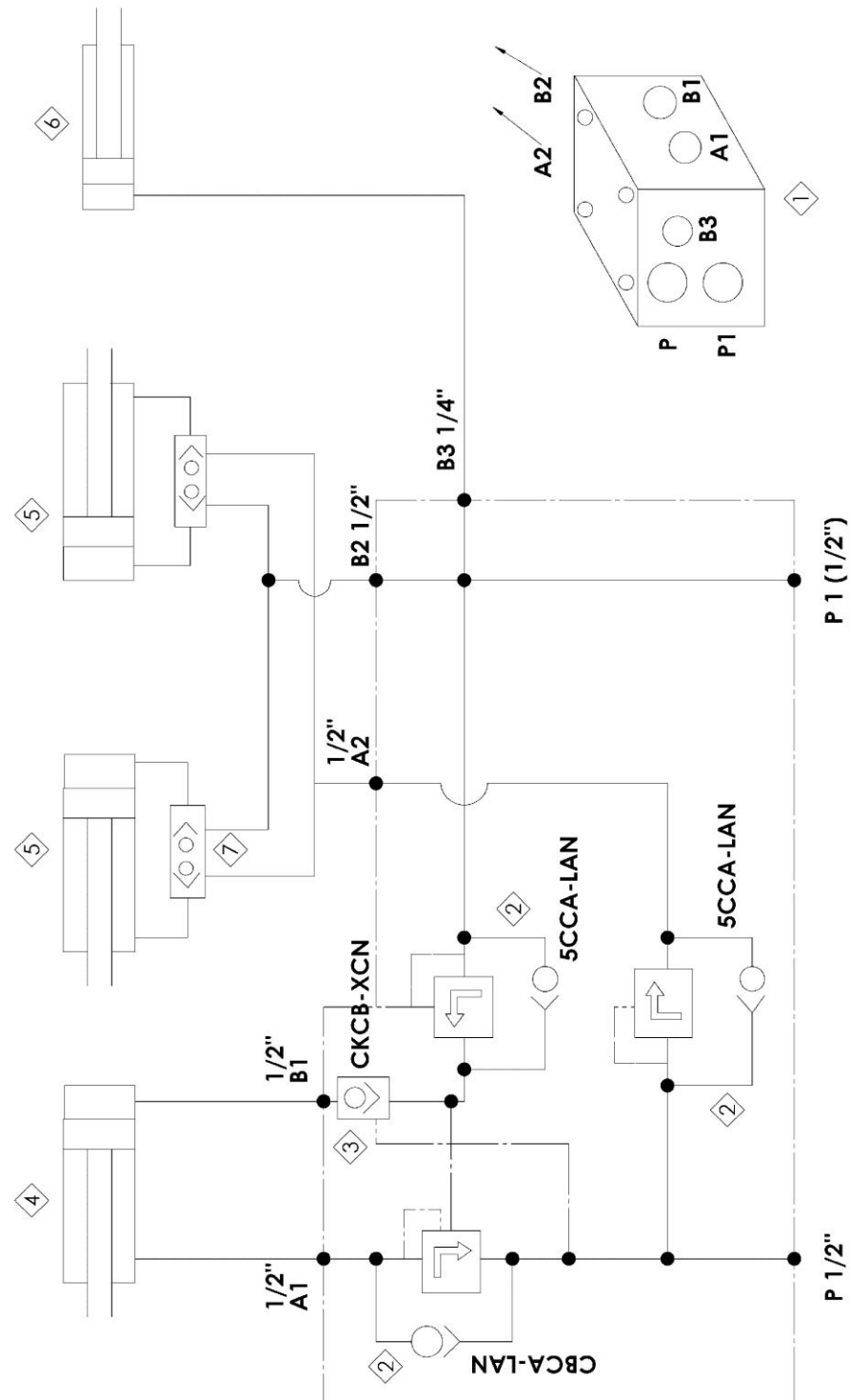
The meanings of torque values:
We would have applied 100 Nm torque if we tighten by applying 10 kg strength with a 1 meter-long wrench.



<div style="display: flex; align-items: center;"> <div style="border: 1px solid black; padding: 5px; margin-right: 10px;"> 8.8 10.9 12.9 </div>  </div>				
M	S	Nm 		
		8.8	10.9	12.9
M 8	13	25	35	41
M 8x1		27	38	41
M 10	16 (17)	49	69	83
M 10x1		52	73	88
M 12	18 (19)	86	120	145
M 12x1,5		90	125	150
M 14	22	135	190	230
M 14x1,5		150	210	250
M 16	24	210	300	355
M 16x1,5		225	315	380
M 18	27	290	405	485
M 18x1,5		325	460	550
M 20	30	410	580	690
M 20x1,5		460	640	770
M 22	32	550	780	930
M 22x1,5		610	860	1050
M 24	36	710	1000	1200
M 24x2		780	1100	1300
M 27	41	1050	1500	1800
M 27x2		1150	1600	1950
M 30	46	1450	2000	2400
M 30x2		1600	2250	2700

6. CIRCUIT SCHEMATICS

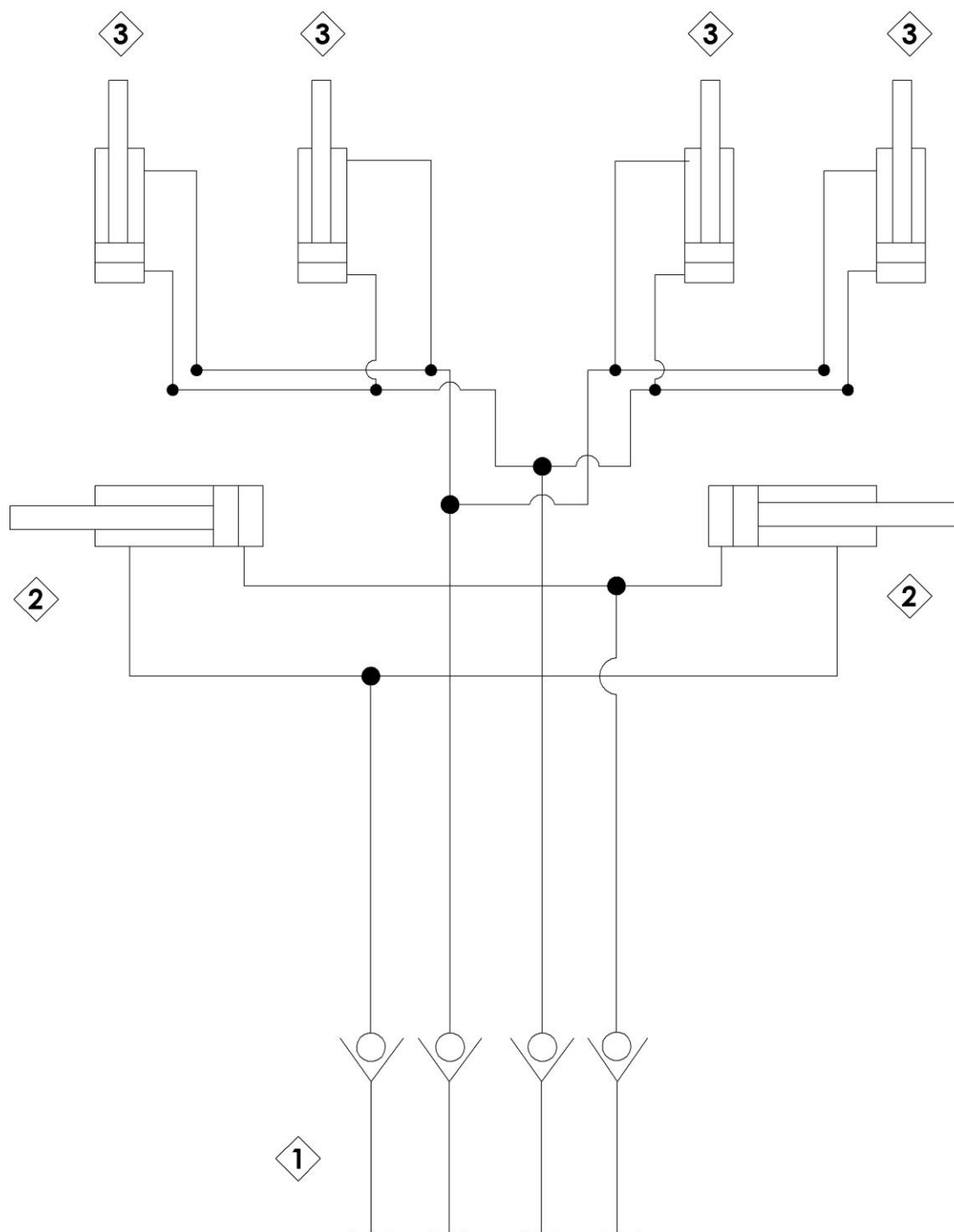
6.1 Lock – folding hydraulic circuit schematic



1. Hydraulic Block (3D)
2. Hydraulic Block
3. Valve
4. Folding Cylinder

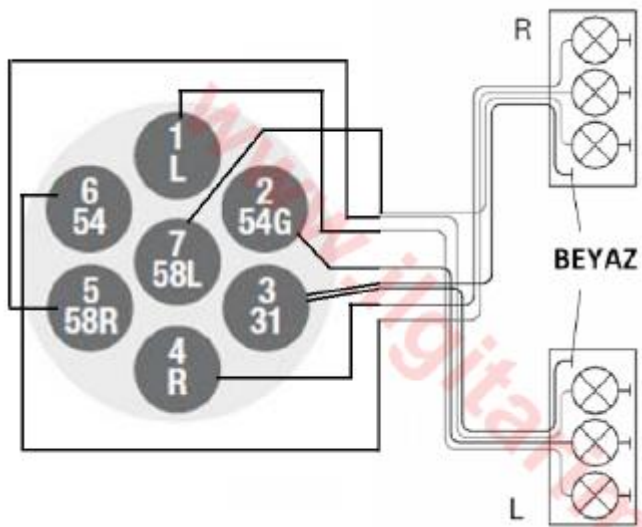
5. Wing Cylinder
6. Locking Cylinder
7. Twin Locking Valve

6.2 Rear axle – roller hydraulic circuit schematic



1. Tractor Quick Connection
2. Axle Hydraulic Cylinder
3. Roller Hydraulic Cylinder

6.3 Rear traffic warning system electrical circuit schematic



GREEN RIGHT SIGNAL
RED BRAKE LAMP
BLACK LEFT PARKING LAMP

WHITE CHASSIS

BROWN RIGHT PARKING LAMP
BLUE FOG LAMP
YELLOW LEFT SIGNAL

L	YELLOW	LEFT SIGNAL
54G	BLUE	FOG LAMP
31	WHITE	CHASSIS
R	GREEN	RIGHT SIGNAL
58R	BROWN	RIGHT PARKING LAMP
54	RED	PARKING LAMP
58L	BLACK	LEFT PARKING LAMP



Frequently check the traffic warning lamps (signal – parking and brake lamps)
Replace the non-functioning lamps.
Otherwise there is a greater risk in terms of road safety when going out traffic.

7. POSSIBLE FAILURES AND TROUBLESHOOTING

FAILURE	CAUSE	TROUBLESHOOTING
<i>The machine lean towards right or left</i>	<i>Front and rear disc groups may be operating at different work depths</i>	<i>Make the adjustment of the machine front rear parallelism at the upper connection of the tractor</i>
<i>Front and rear batteries operate at different working depths</i>	<i>Front rear parallelism adjustment was not done</i>	<i>The chassis parallelism adjustment must be made at stretcher lever attached to axle and arrow</i>
<i>The wheels are swaying and rotating under strained</i>	<ul style="list-style-type: none"> <i>* There's congestion in the bearings, adequate lubrication wasn't done</i> <i>* Broken cracking at hub bearings</i> 	<i>Bearings are examined by detaching the hub, deformed ones replaced. Lubrication is made.</i>
<i>Hydraulic system doesn't lift</i>	<ul style="list-style-type: none"> <i>* Oil is reduced in tractor hydraulic oil reservoir</i> <i>* Leakage may be in the hydraulic circuit</i> <i>* Hydraulic cylinder felt may be burst.</i> 	<ul style="list-style-type: none"> <i>* Hydraulic oil level must be checked</i> <i>* Entire hydraulic circuit must be checked, the leakages must be repaired.</i> <i>* Hydraulic cylinders must be checked by detaching.</i>
<i>The wings vibrates while lowering</i>	<i>* Oil speed reducing setting is wrong</i>	<i>* It is adjusted as reducing the descent speed of the speed-reducer wing on the wing hydraulic circuit</i>

8. TECHNICAL FEATURES

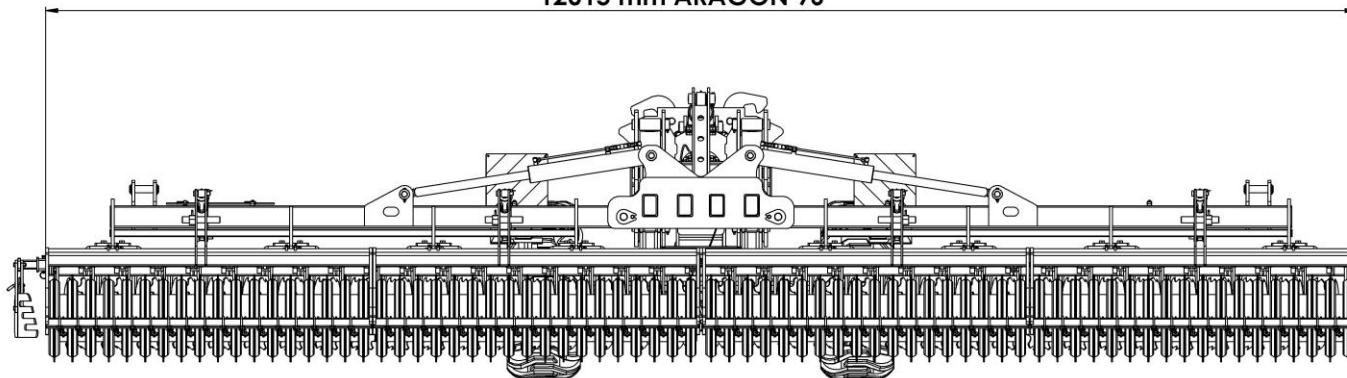
Machine model	ARG 72	ARG 80	ARG 96
Working width (m)	9,015	10,015	12,015
Transport width (m)	3,044	3,044	3,044
Weight (kg)	7050	7370	8010
Weight with Disc roller(kg)	9480	9800	10440
Weight with helix roller (kg)	8645	8968	9605
Weight with tube roller (kg)	8078	8398	9038
Weight with cage roller (kg)	8198	8518	9158
Number of disk	72	80	96
**Power requirements (HP) (Approximate)	360-400	380-420	420-460

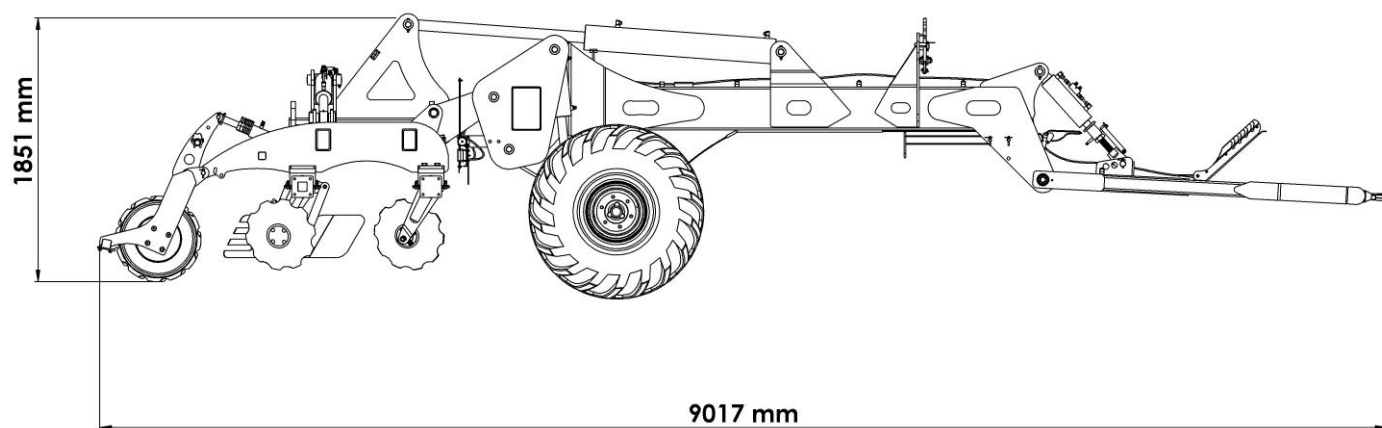
(*)Our company may change technical specifications of the models without notifying.

(**)Machinery power requirements may vary depending on the characteristic of cultivated soil.

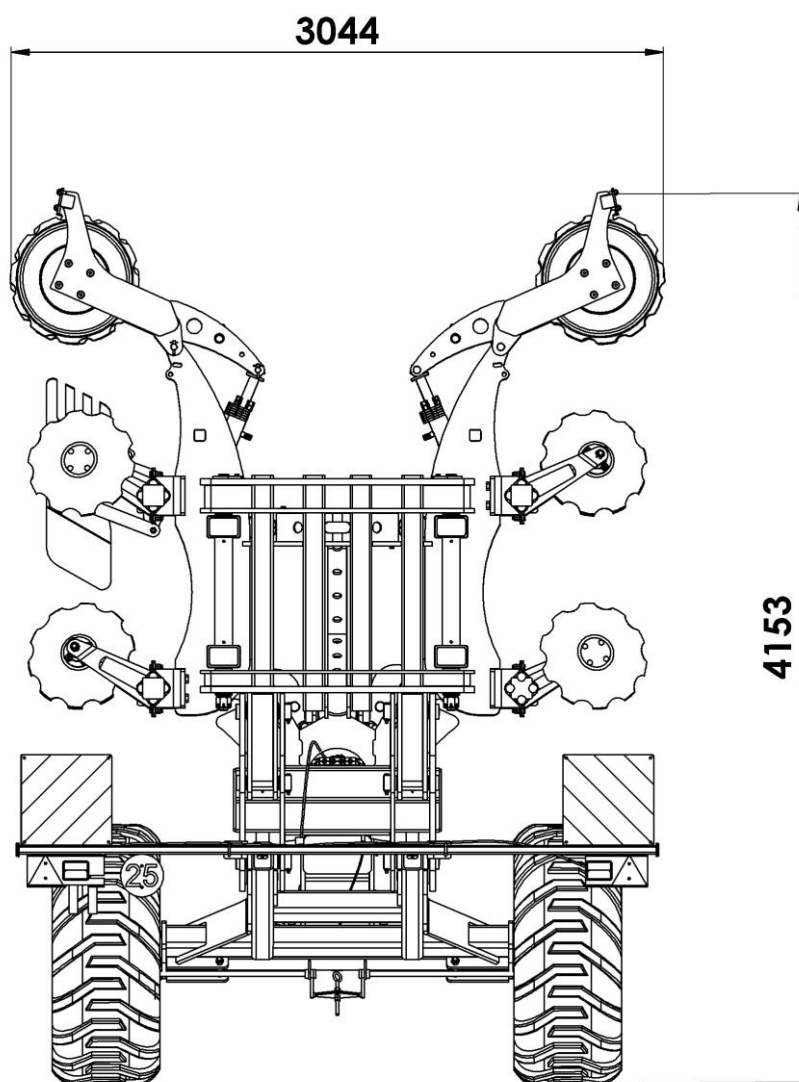
Working width

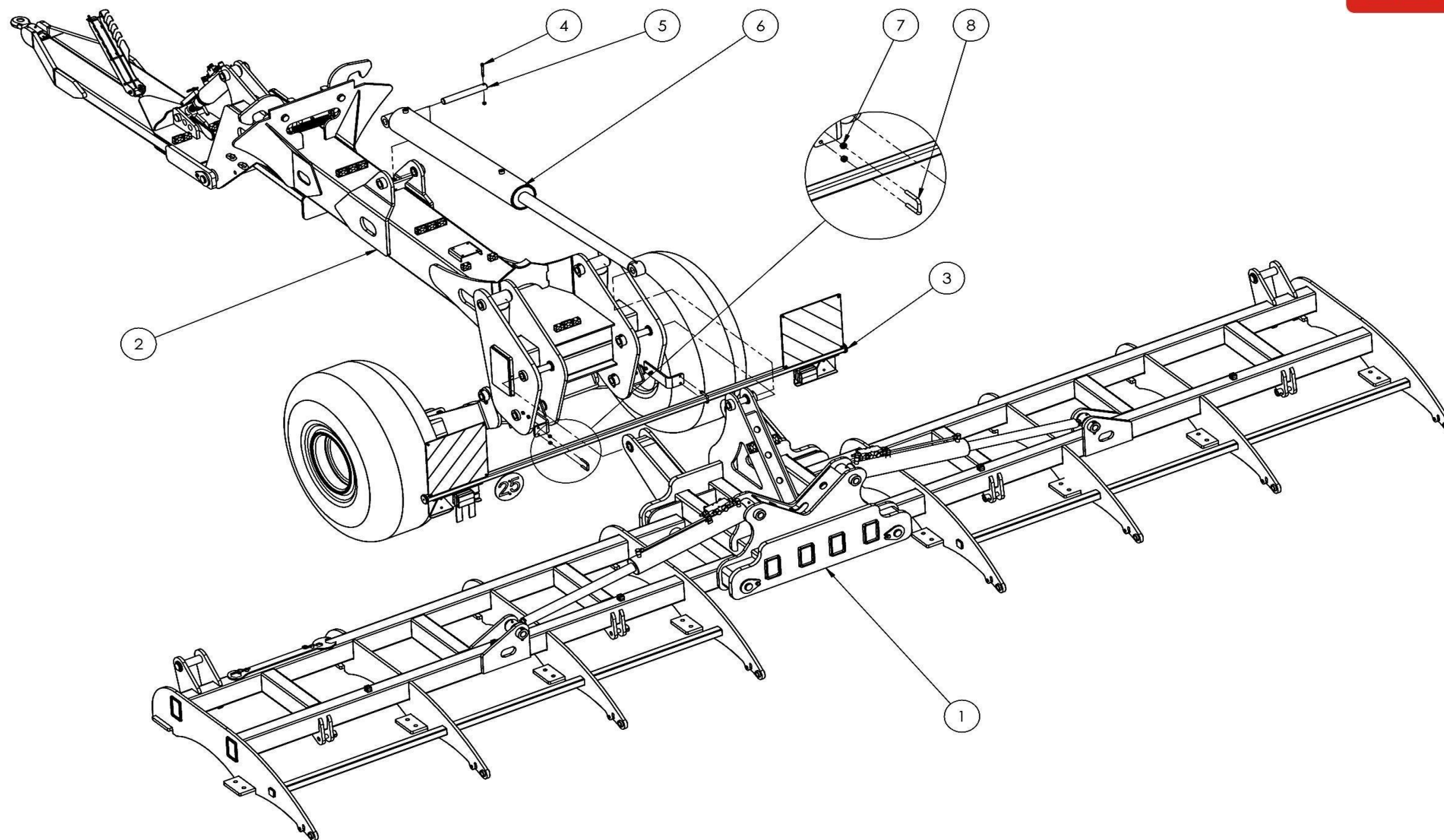
9015 mm ARAGON 72
10015 mm ARAGON 80
12015 mm ARAGON 96





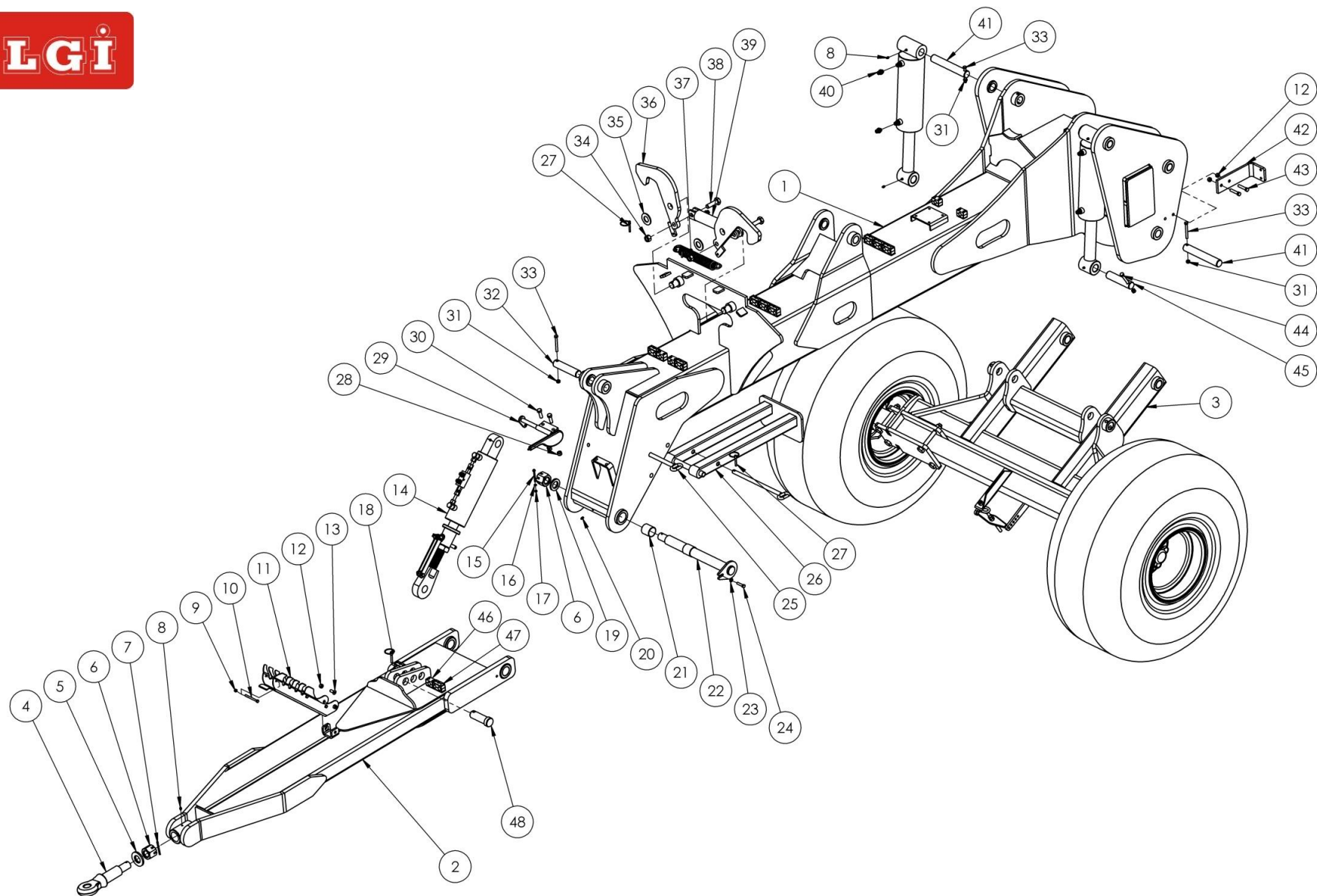
Transport width



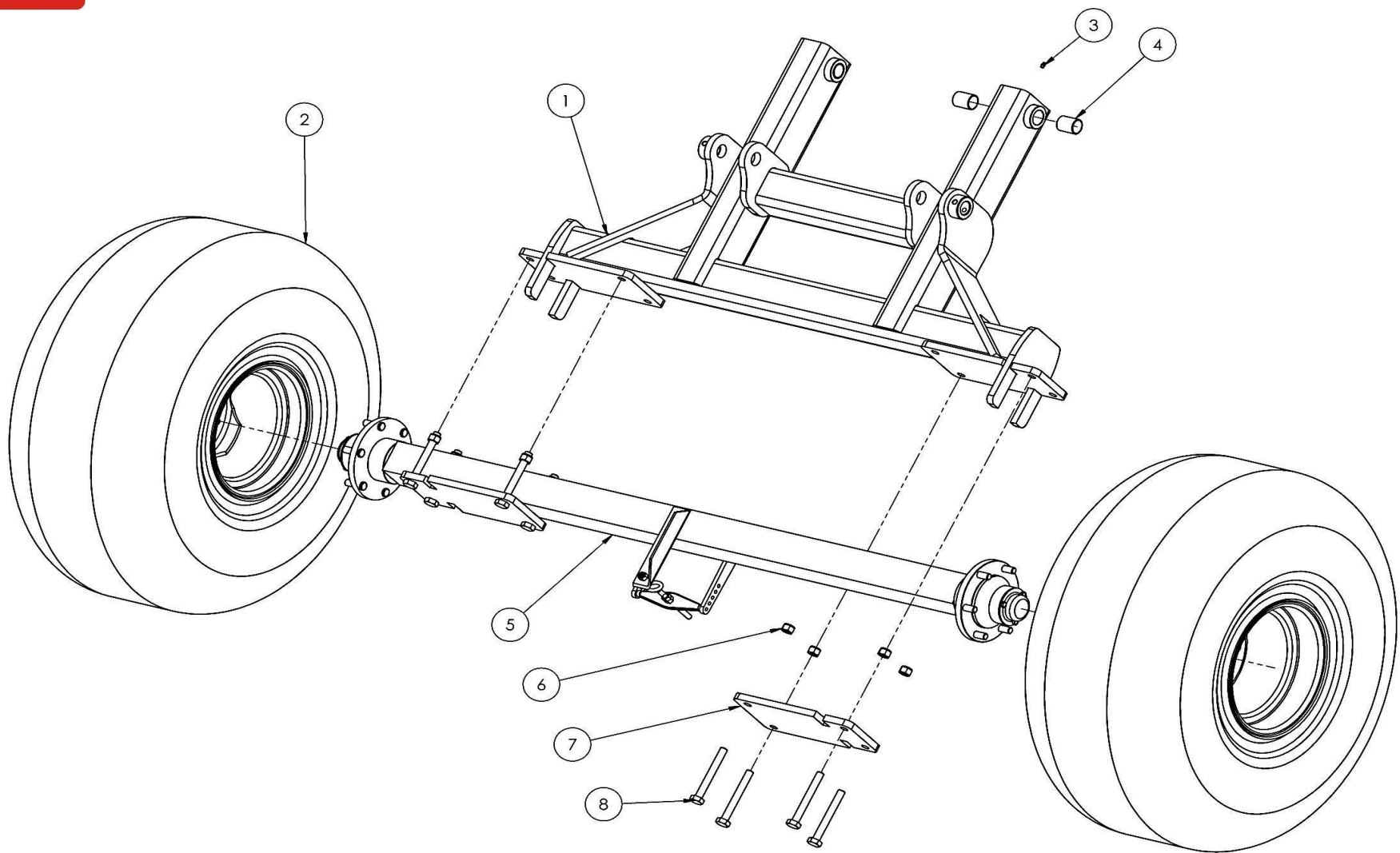


MAIN FRAME GROUP 9-10-12M

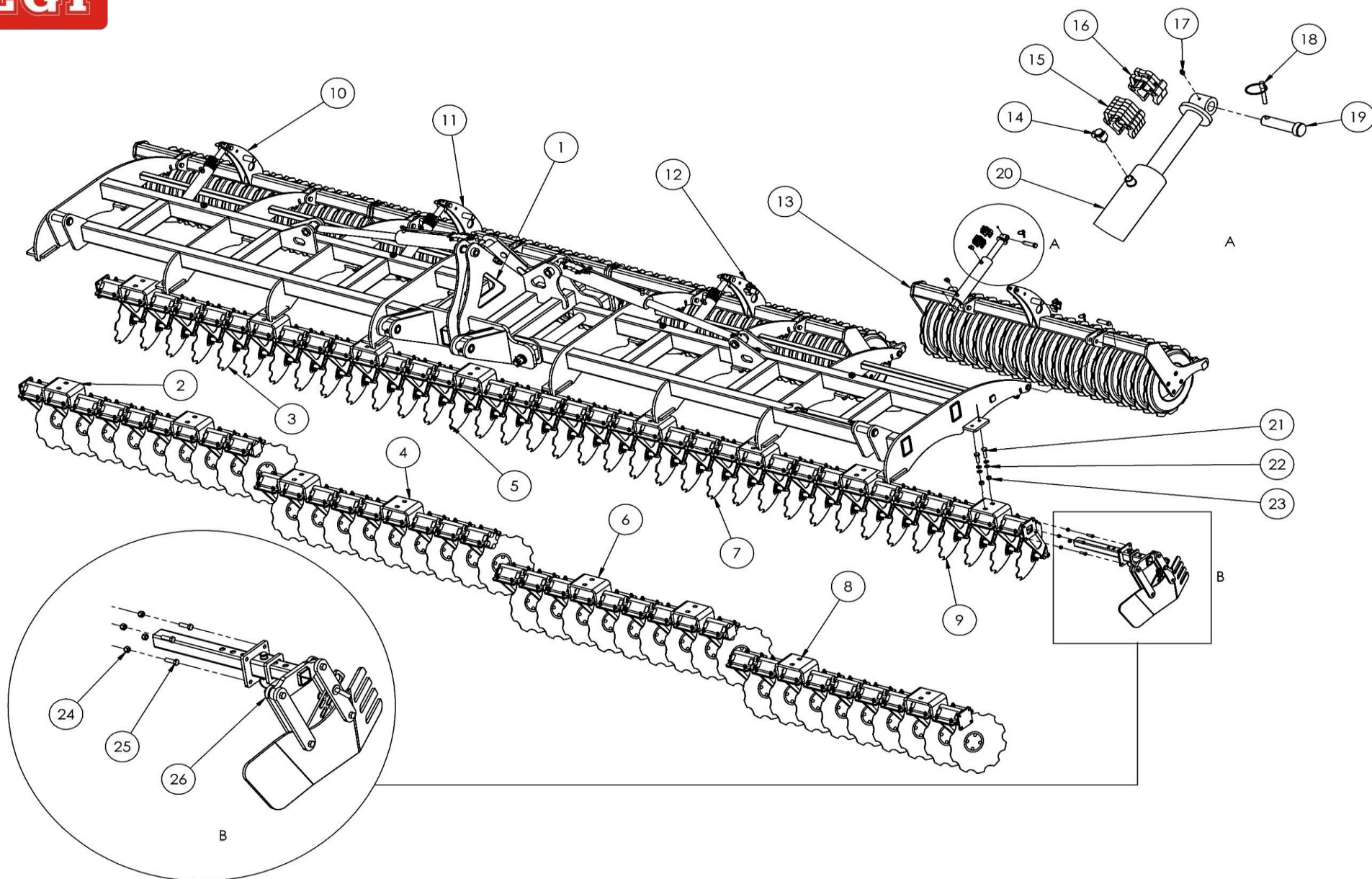
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.200.00.000.0	MAIN & WING FRAME
2	2.ARG9.100.00.000.0	MAIN FRAME 72-80-96
3	2.APL.112.00.000.0	TRAFFIC PLATE GROUP
4	7.4.18.1106	BOLD M10x90 DIN 931
5	2.ARG9.100.00.004.0	MAIN CYLINDER REAR PIN
6	7.4.3.1076	HYDRAULIC CYLINDER MAIN
7	7.4.23.1036	NUT M10 DIN 985
8	7.4.18.2236	BOLD.U.M10 (45x65)



MAIN FRAME 72-80-96		
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.101.00.000.0	DRAWBAR FRAME 72-80-96
2	2.ARG9.102.00.000.0	DRAWBAR 72-80-96
3	2.ARG9.103.00.000.0	AXLE 72-80-96
4	7.2.2.1599	DRAWBAR NECT CAT EYE
5	2.AGBK.103.00.018.0	WASHER Ø40XØ90
6	7.4.23.1075	NUT SLOTTED.M38X3,5
7	7.4.19.1069	SPLIT PIN 6X60 DIN94
8	7.4.38.1003	GREASE NIPPLE M6
9	7.4.23.1035	NUT M8 DIN985
10	7.4.18.1081	BOLT M8x90
11	2.TGB.104.00.010.0	HYDRAULIC PIPE HOLDER
12	7.4.23.1037	NUT M12 DIN985
13	7.4.18.1766	BOLT HEX SOCKETM12x30
14	2.ARG9.100.03.000.0	DRAWBAR CYLINDER
15	7.4.18.1042	BOLTM6x70 DIN931
16	7.4.20.1004	WASHER M6 DIN126
17	7.4.23.1033	NUT M6 DIN985
18	7.4.28.1001	PIN SPRING Ø10
19	2.AGB.104.00.028.0	WASHER M40
20	7.4.38.1005	GREASE NIPPLE 5/16H1
21	7.2.4.1021	BUSHING 55 X 50 X55
22	2.ARG9.100.01.000.0	DRAW HORIZONTAL JOINPIN
23	7.4.20.1006	WASHER M10 DIN126
24	7.4.18.1098	BOLT M10x45 DIN931
25	2.ARG9.100.02.000.0	SUPPORT TINE JOINPINE
26	2.ARG9.104.00.000.0	SUPPORT TINE
27	7.4.28.1002	PIN SPRING Ø8
28	7.4.23.1038	NUTM14 DIN985
29	7.2.2.1612-1	BRAKE HANDLEVER
30	7.4.18.1145	BOLT M14x45
31	7.4.23.1036	NUT M10 DIN 985
32	2.ARG9.100.00.002.0	DRAWBAR CYLINDER TOP PIN
33	7.4.18.1106	BOLT M10x90 DIN931
34	7.4.23.1041	NUT M20 DIN985
35	7.4.20.1017	WASHER Ø66x34x4
36	2.ARG9.105.00.000.0	LOCK PLATE
37	7.4.12.ARG9.0001	LOCK SPRING Ø7
38	7.4.18.1216	BOLT M20x70 DIN931
39	7.4.3.1074	LOCK CYLINDER
40	7.4.2.1087	UNION.3/8.12L
41	2.ARG9.100.00.007.0	MAIN FRAME BACK JOINPIN
42	2.ARG9.101.00.018.0	TRAFFIC PLATE GROUP JOIN
43	7.4.18.1124	BOLT M12x60 DIN931
44	7.4.18.1129	BOLT M12x90 DIN931
45	2.ARG9.100.00.009.0	AXLE CYLINDER BOTTOM JOIN PIN
46	7.4.1.1006	SINGLE TWIN CLAMP Ø20
47	7.4.1.1010	DOUBLE TWIN CLAMP Ø20
48	2.ARG9.100.00.001.0	DRAWBAR CYLINDER BOTTOM PIN

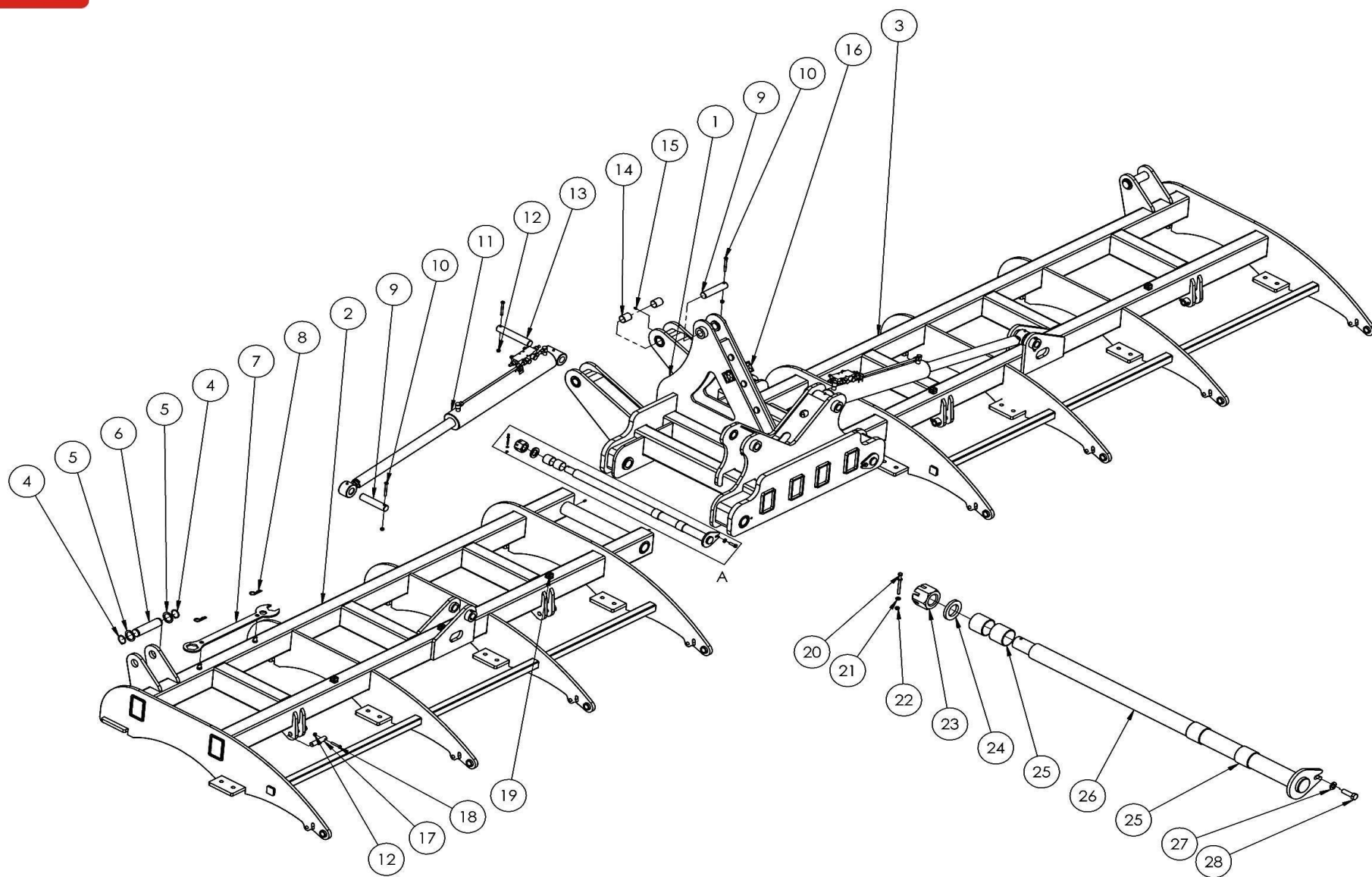


AXLE		
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.103.01.000.0	AXLE FRAME
2	7.4.13.1013	TIRE 550/60x22,5
3	7.4.38.1005	GREASE NIPPLE 5/16 H1
4	7.2.4.1007	BUSHING 45 X 40 X 55 MM
5	7.2.2.1612-2	AXLE BRAKE 100x100 13/17
6	7.4.23.1041	NUTM20 DIN 985
7	2.ARG9.103.00.001.0	AXLE PLATE JOIN
8	7.4.18.1227	BOLT M20x170 DIN 931

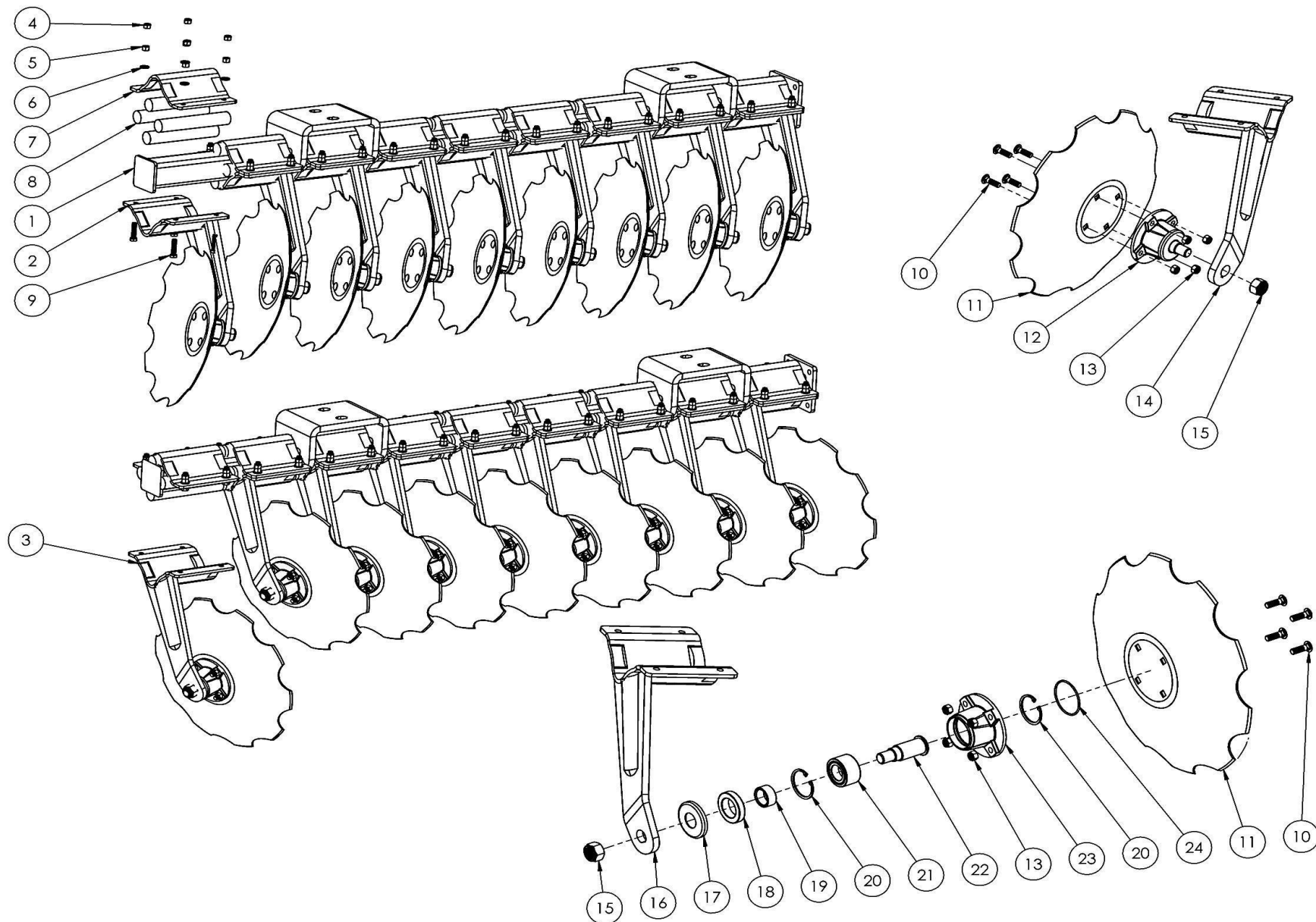


GANG & ROLLER GROUP		
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.200.00.000.0	MAIN & WING FRAME
2	2.ARG9.305.00.000.0	FRONT GANG RIGHT OUTWARD 72 DISC
	2.ARG9.605.00.000.0	FRONT GANG RIGHT OUTWARD 80 DISC
	2.ARG9.705.00.000.0	FRONT GANG RIGHT OUTWARD 96 DISC
3	2.ARG9.301.00.000.0	BACK GANG RIGHT OUTWARD 72 DISC
	2.ARG9.601.00.000.0	BACK GANG RIGHT OUTWARD 80 DISC
	2.ARG9.701.00.000.0	BACK GANG RIGHT OUTWARD 96 DISC
4	2.ARG9.306.00.000.0	FRONT GANG RIGHT INWARD 72 DISC
	2.ARG9.606.00.000.0	FRONT GANG RIGHT INWARD 80 DISC
	2.ARG9.706.00.000.0	FRONT GANG RIGHT INWARD 96 DISC
5	2.ARG9.302.00.000.0	BACK GANG RIGHT INWARD 72 DISC
	2.ARG9.602.00.000.0	BACK GANG RIGHT INWARD 80 DISC
	2.ARG9.702.00.000.0	BACK GANG RIGHT INWARD 96 DISC
6	2.ARG9.308.00.000.0	FRONT GANG LEFT INWARD 72 DISC
	2.ARG9.608.00.000.0	FRONT GANG LEFT INWARD 80 DISC
	2.ARG9.708.00.000.0	FRONT GANG LEFT INWARD 96 DISC
7	2.ARG9.304.00.000.0	BACK GANG LEFT INWARD 72 DISC
	2.ARG9.604.00.000.0	BACK GANG LEFT INWARD 80 DISC
	2.ARG9.704.00.000.0	BACK GANG LEFT INWARD 96 DISC
8	2.ARG9.307.00.000.0	FRONT GANG LEFT OUTWARD 72 DISC
	2.ARG9.607.00.000.0	FRONT GANG LEFT OUTWARD 80 DISC
	2.ARG9.707.00.000.0	FRONT GANG LEFT OUTWARD 96 DISC
9	2.ARG9.303.00.000.0	BACK GANG LEFT OUTWARD 72 DISC
	2.ARG9.603.00.000.0	BACK GANG LEFT OUTWARD 80 DISC
	2.ARG9.703.00.000.0	BACK GANG LEFT OUTWARD 96 DISC
10	2.ARG9.414.00.000.0	CRACKER ROLLER RIGHT OUTWARD 9M
	2.ARG9.614.00.000.0	CRACKER ROLLER RIGHT OUTWARD 10M
	2.ARG9.714.00.000.0	CRACKER ROLLER RIGHT OUTWARD 12M
	2.ARG9.424.00.000.0	NOTCHED ROLLER RIGHT OUTWARD 9M
	2.ARG9.624.00.000.0	NOTCHED ROLLER RIGHT OUTWARD 10M
	2.ARG9.724.00.000.0	NOTCHED ROLLER RIGHT OUTWARD 12M
	2.ARG9.434.00.000.0	TUBE ROLLER RIGHT OUTWARD 9M
	2.ARG9.634.00.000.0	TUBE ROLLER RIGHT OUTWARD 10M
	2.ARG9.734.00.000.0	TUBE ROLLER RIGHT OUTWARD 12M
	2.ARG9.444.00.000.0	HELIX ROLLER RIGHT OUTWARD 9M
	2.ARG9.644.00.000.0	HELIX ROLLER RIGHT OUTWARD 10M
	2.ARG9.744.00.000.0	HELIX ROLLER RIGHT OUTWARD 12M
11	2.ARG9.415.00.000.0	CRACKER ROLLER RIGHT INWARD 9M
	2.ARG9.615.00.000.0	CRACKER ROLLER RIGHT INWARD 10M
	2.ARG9.715.00.000.0	CRACKER ROLLER RIGHT INWARD 12M

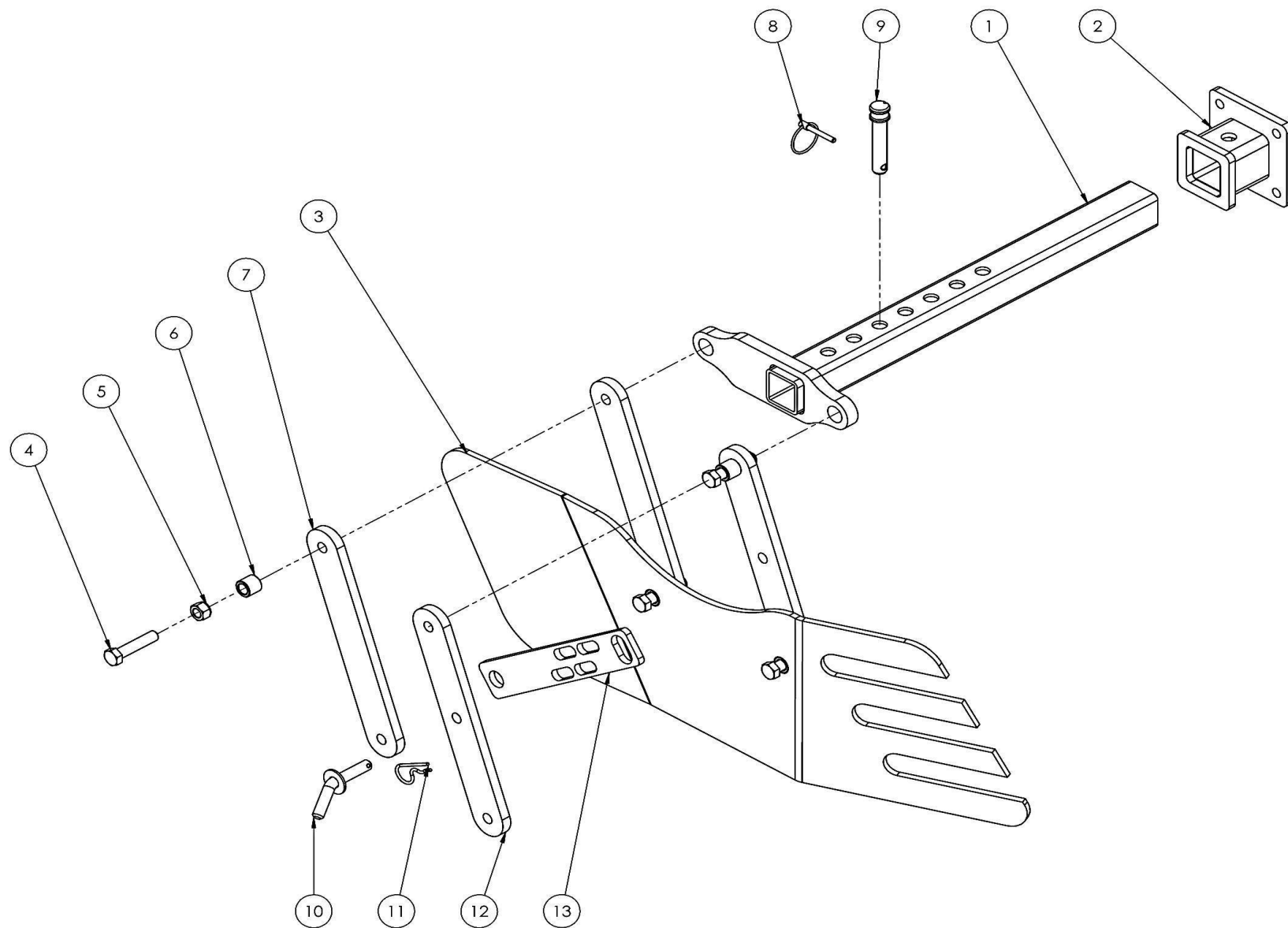
	2.ARG9.425.00.000.0	NOTCHED ROLLER RIGHT INWARD 9M
	2.ARG9.625.00.000.0	NOTCHED ROLLER RIGHT INWARD 10M
	2.ARG9.725.00.000.0	NOTCHED ROLLER RIGHT INWARD 12M
	2.ARG9.435.00.000.0	TUBE ROLLER RIGHT INWARD 9M
	2.ARG9.635.00.000.0	TUBE ROLLER RIGHT INWARD 10M
	2.ARG9.735.00.000.0	TUBE ROLLER RIGHT INWARD 12M
	2.ARG9.445.00.000.0	HELIX ROLLER RIGHT INWARD 9M
	2.ARG9.645.00.000.0	HELIX ROLLER RIGHT INWARD 10M
	2.ARG9.745.00.000.0	HELIX ROLLER RIGHT INWARD 12M
12	2.ARG9.412.00.000.0	CRACKER ROLLER LEFT INWARD 9M
	2.ARG9.612.00.000.0	CRACKER ROLLER LEFT INWARD 10M
	2.ARG9.712.00.000.0	CRACKER ROLLER LEFT INWARD 12M
	2.ARG9.422.00.000.0	NOTCHED ROLLER LEFT INWARD 9M
	2.ARG9.622.00.000.0	NOTCHED ROLLER LEFT INWARD 10M
	2.ARG9.722.00.000.0	NOTCHED ROLLER LEFT INWARD 12M
	2.ARG9.432.00.000.0	TUBE ROLLER LEFT INWARD 9M
	2.ARG9.632.00.000.0	TUBE ROLLER LEFT INWARD 10M
	2.ARG9.732.00.000.0	TUBE ROLLER LEFT INWARD 12M
	2.ARG9.442.00.000.0	HELIX ROLLER LEFT INWARD 9M
	2.ARG9.642.00.000.0	HELIX ROLLER LEFT INWARD 10M
	2.ARG9.742.00.000.0	HELIX ROLLER LEFT INWARD 12M
13	2.ARG9.413.00.000.0	CRACKER ROLLER LEFT OUTWARD 9M
	2.ARG9.613.00.000.0	CRACKER ROLLER LEFT OUTWARD 10M
	2.ARG9.713.00.000.0	CRACKER ROLLER LEFT OUTWARD 12M
	2.ARG9.423.00.000.0	NOTCHED ROLLER LEFT OUTWARD 9M
	2.ARG9.623.00.000.0	NOTCHED ROLLER LEFT OUTWARD 10M
	2.ARG9.723.00.000.0	NOTCHED ROLLER LEFT OUTWARD 12M
	2.ARG9.433.00.000.0	TUBE ROLLER LEFT OUTWARD 9M
	2.ARG9.633.00.000.0	TUBE ROLLER LEFT OUTWARD 10M
	2.ARG9.733.00.000.0	TUBE ROLLER LEFT OUTWARD 12M
	2.ARG9.443.00.000.0	HELIX ROLLER LEFT OUTWARD 9M
	2.ARG9.643.00.000.0	HELIX ROLLER LEFT OUTWARD 10M
	2.ARG9.743.00.000.0	HELIX ROLLER LEFT OUTWARD 12M
14	7.4.2.1111	1/4 SWIVELLING ELBOW 12L
15	2.MX.100.04.000.0	HYD. CLIPS 10 MM
16	2.MX.100.05.000.0	HYD. CLIPS 20 MM
17	7.4.38.1003	GREASE NIPPLE M6 H1
18	7.4.28.1001	SPRING PIN Ø10
19	7.2.5.MX.0007	ROLLER CYLINDER JOIN PIN
20	7.4.3.1018	ROLLER CYLINDER
21	7.4.18.1216	BOLT M20x70 DIN 931
22	7.4.20.1011	WASHER M20 DIN 126
23	7.4.23.1041	NUT M20 DIN 985
24	7.4.23.1038	NUT M14 DIN 985
25	7.4.18.1145	BOLT M14x45
26	2.MX.100.00.000.0	MARKER GROUP



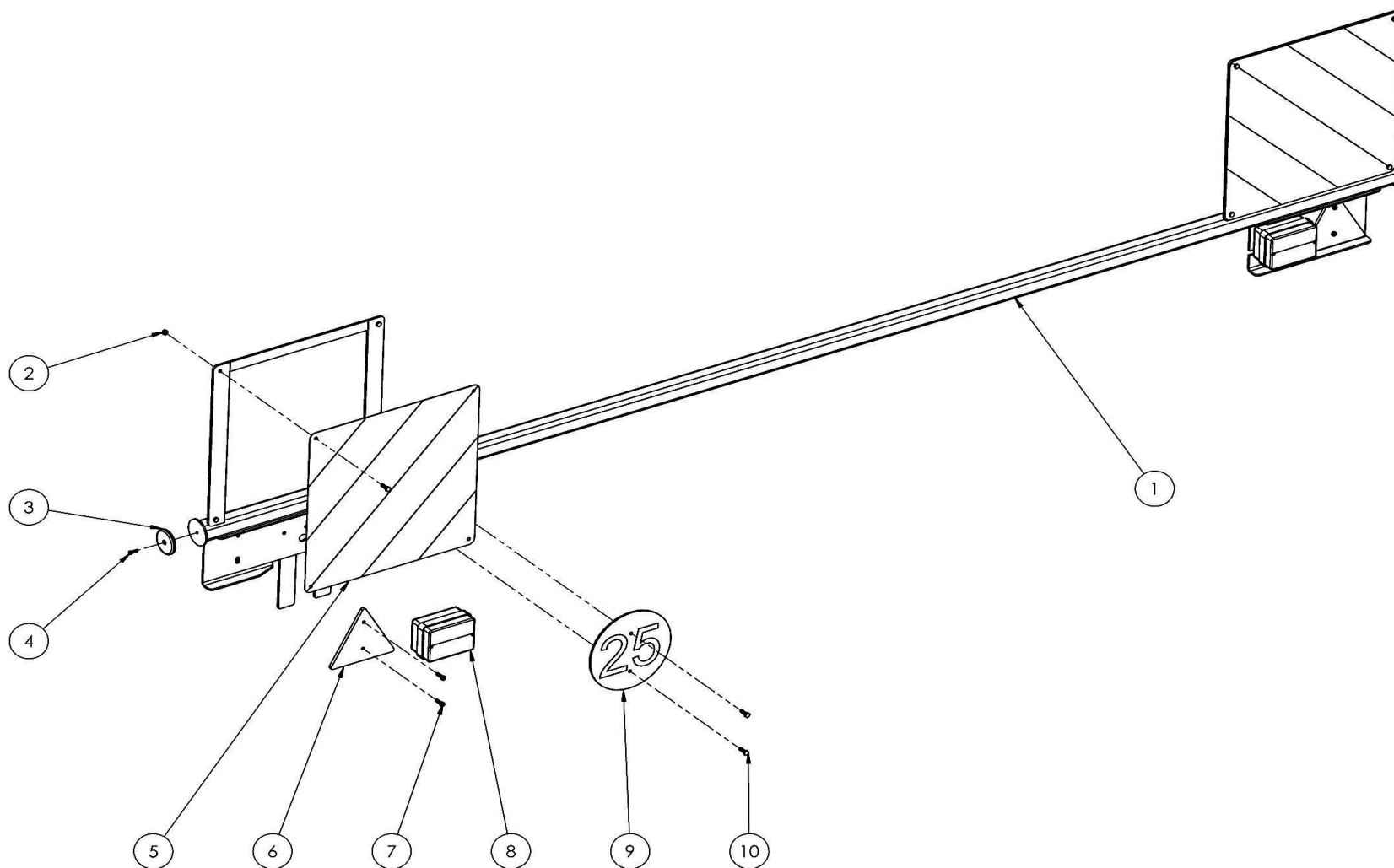
MAIN & WING FRAME		
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.201.00.000.0	MAIN FRAME
2	2.ARG9.202.00.000.0	WING FRAME LEFT 72-80-96
3	2.ARG9.203.00.000.0	WING FRAME RIGHT 72-80-96
4	7.4.4.1022	RING DIN 471 Ø50
5	2.ARG9.200.00.001.0	WASHER Ø70x50,5x4
6	2.ARG9.100.00.003.0	LOCK JOIN PIN
7	2.ARG9.100.00.008.0	ADJUST WRENCH
8	7.4.28.1005	R PIN Ø4
9	2.ARG9.100.00.005.0	WING FRAME FRONT JOIN PIN
10	7.4.18.1106	BOLT M10x90 DIN 931
11	2.ARG9.200.02.000.0	WING FRAME CYLINDER
12	7.4.23.1036	NUT M10 DIN 985
13	2.ARG9.100.00.006.0	WING FRAME BACK JOIN PIN
14	7.2.4.1007	BUSHING 45 X 40 X 55
15	7.4.38.1005	GREASE NIPPLE 5/16 H1
16	7.4.1.1010	TWIN CLAMP Ø20 DOUBLE
17	2.ARG9.200.00.002.0	ROLLER FRAME JOIN PIN
18	7.4.18.1101	BOLT M10x60 DIN 931
19	7.4.1.1005	TWIN CLAMP Ø12 DOUBLE
20	7.4.18.1042	BOLT M6x70 DIN 931
21	7.4.20.1004	WASHER M6 DIN 126
22	7.4.23.1033	NUT M6 DIN 985
23	7.4.23.1075	NUT SLOTTED M38X3,5 GOBLE
24	2.AGB.104.00.028.0	WASHER M40
25	7.2.4.1003	BUSHING 55 X 50 X 50 MM
26	2.ARG9.200.01.000.0	WING FRAME JOIN PIN
27	7.4.20.1007	WASHER M12 DIN 126
28	7.4.18.1120	BOLT M12x40 DIN 933



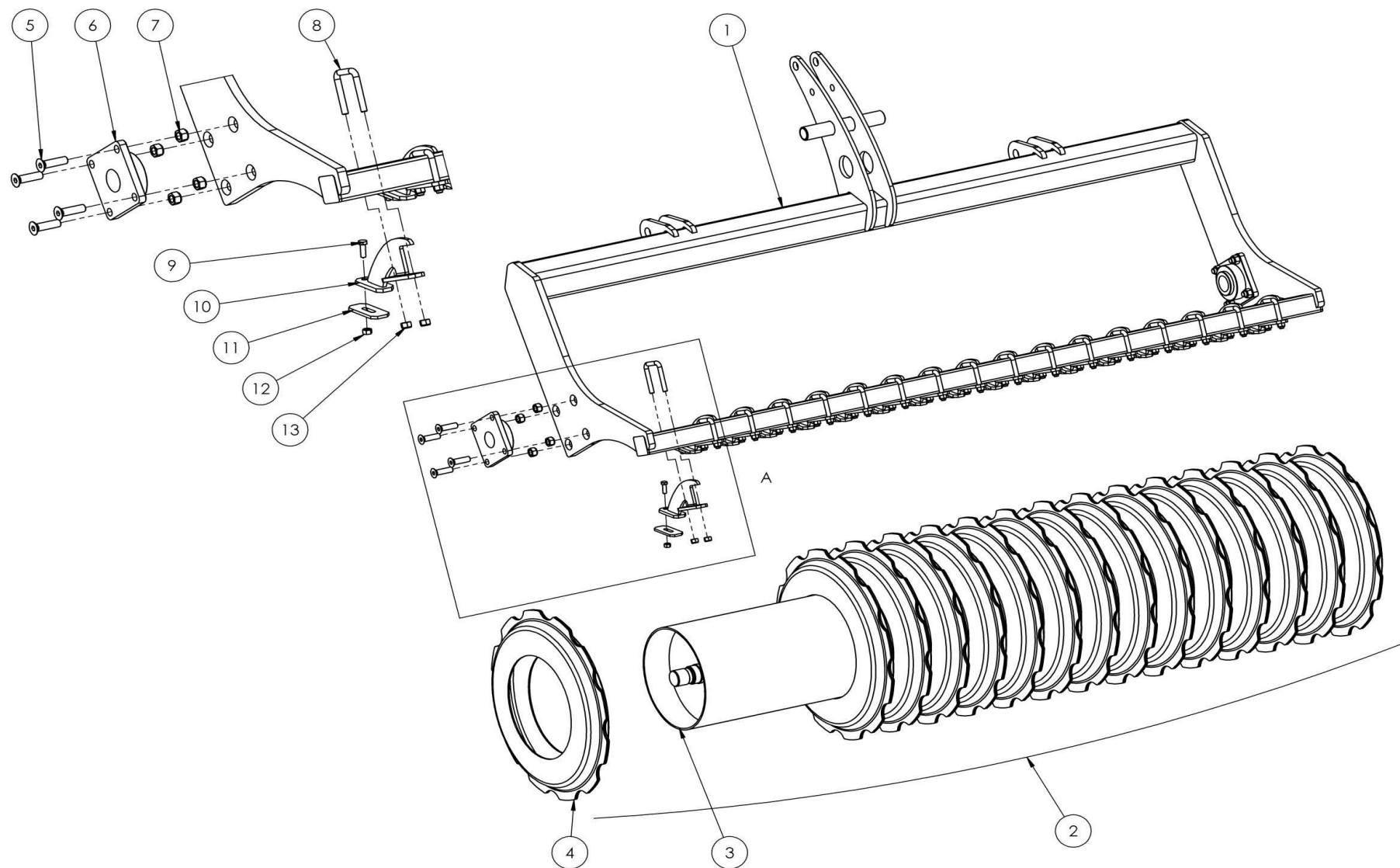
GANGS GROUP		
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.305.01.000.0	FRONT GANG FRAME OUTWARD 72 DISC
	2.ARG9.605.01.000.0	FRONT GANG FRAME OUTWARD 80 DISC
	2.ARG9.705.01.000.0	FRONT GANG FRAME OUTWARD 96 DISC
	2.ARG9.302.01.000.0	FRONT & BACK GANG FRAME INWARD 72 DISC
	2.ARG9.602.01.000.0	FRONT & BACK GANG FRAME INWARD 80 DISC
	2.ARG9.702.01.000.0	FRONT & BACK GANG FRAME INWARD 96 DISC
	2.ARG9.301.01.000.0	BACK GANG FRAME OUTWARD 72 DISC
	2.ARG9.601.01.000.0	BACK GANG FRAME OUTWARD 80 DISC
	2.ARG9.701.01.000.0	BACK GANG FRAME OUTWARD 96 DISC
2	2.MX.150.02.000.0	FRONT DISC TINE GROUP
3	2.MX.160.02.000.0	BACK DISC TINE GROUP
4	7.4.23.1037	NUT M12 DIN 985
5	7.4.23.1011	NUT M12 DIN 934
6	7.4.20.1007	WASHER M12 DIN 126
7	2.MX.150.02.002.0	CLAMP SHEET
8	7.2.2.1020	SPRING RUBBER 235MM
9	7.4.18.1122	BOLT 12x50 DIN 933
10	7.4.18.2194	BOLT M12x40 DIN 603
11	7.4.17.1026	DISC Ø 510
	7.4.17.1027	DISC Ø 560
12	2.MX.400.00.000.0	DISC HUB GROUP
13	7.4.23.1037	NUT M12 DIN 985
14	2.MX.150.02.005.0	FRONT DISC TINE
15	7.4.23.1080	NUT M24x1,5 DIN 985
16	2.MX.160.02.003.0	BACK DISC TINE
17	2.MX.150.02.006.0	SEAL SUPPORT CAP
18	7.4.16.1024	SEAL 45 X 70 X 14 / 17
19	2.MX.150.02.004.0	SEAL SUPPORT BUSHING
20	7.4.4.1014	CIRCLIP DIN 472 Ø65
21	7.4.15.1025	BEARING DAC 356535
22	7.2.5.1028	DISC TINE AXIS
23	7.2.7.1002	DISC HUB
24	7.2.1.1066	O RING 74x3



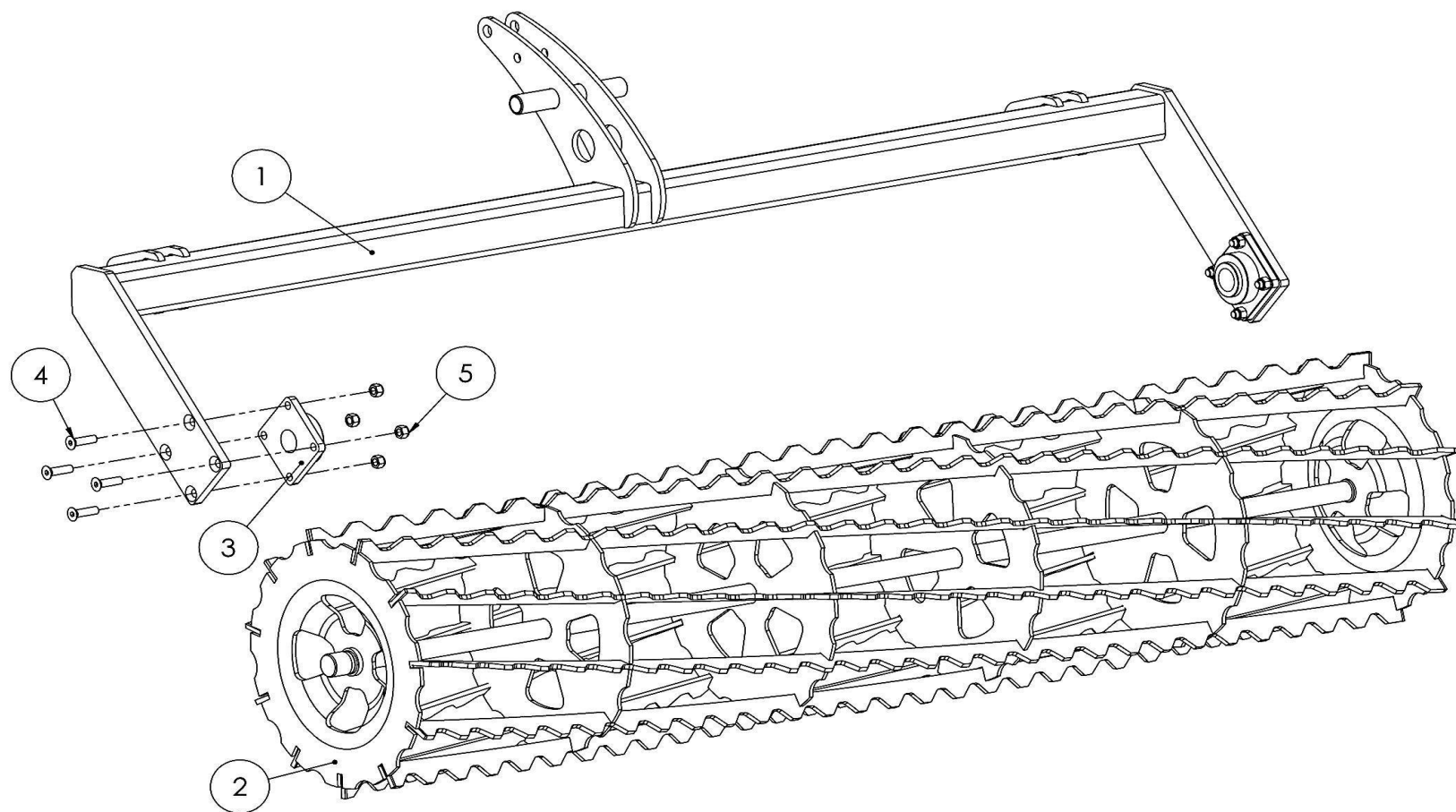
MARKER GROUP		
NO	PART CODE	NAME & DESCRIPTION
1	2.MX.100.01.000.0	MARKER JOIN BAR
2	2.MX.100.02.000.0	MARKER JOIN TUBE
3	2.MX.100.01.003.0	MARKER
4	7.4.18.1175	BOLT M16x75 DIN 931
5	7.4.23.1039	NUT M16 DIN 985
6	2.MX.100.01.008.0	PARALLEL BAR BUSHING
7	2.MX.100.01.001.0	PARALLEL FLAT BAR 2 HOLE
8	7.4.28.1002	SPRING PIN Ø8
9	7.2.5.PM.0009	SIDE DISC & MARKER JOIN PIN
10	7.2.5.MX.0005	MARKER PIN
11	7.4.28.1005	R PIN Ø4
12	2.MX.100.01.002.0	PARALLEL FLAT BAR 3 HOLE
13	2.MX.100.01.006.0	MARKER DEPTH ADJUST



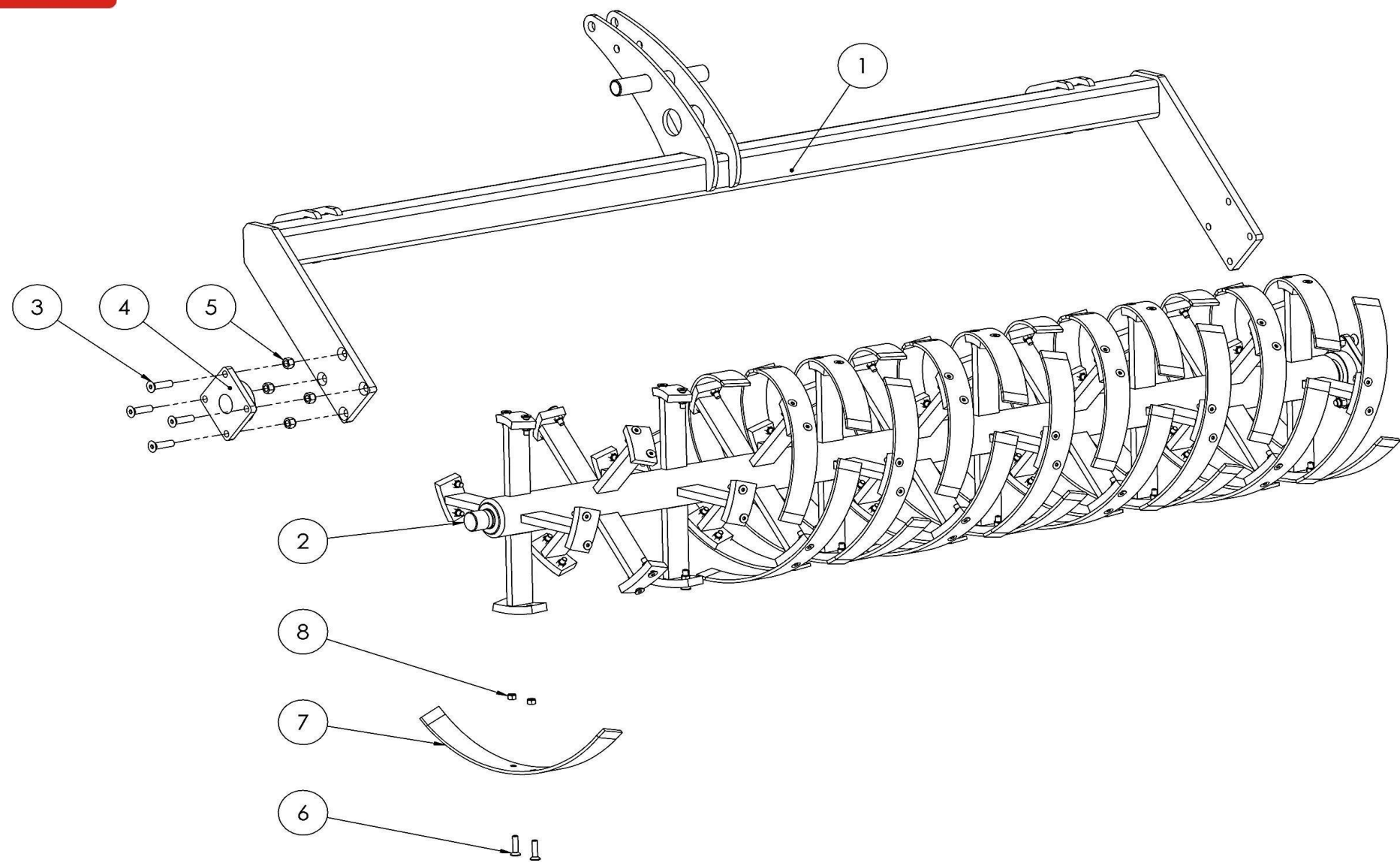
TRAFFIC PLATE GROUP		
NO	PART CODE	NAME & DESCRIPTION
1	2.APL.112.01.000.0	TRAFFIC PLATE FRAME JOIN
2	7.4.23.1033	NUT M6 DIN 985
3	7.4.29.1002	REFLECTOR SIDE
4	7.4.18.2224	BOLT M6X16 DIN 84
5	7.4.29.1001	TRAFFIC PLATE
6	7.4.29.1003	REFLECTOR TRIANGLE
7	7.4.18.2225	BOLT M6X20 DIN 84
8	7.4.27.1001	SIGNAL STOP LAMB
9	2.APL.112.00.005.0	25KM SPEED PLATE
10	7.4.18.1032	BOLT M6x20



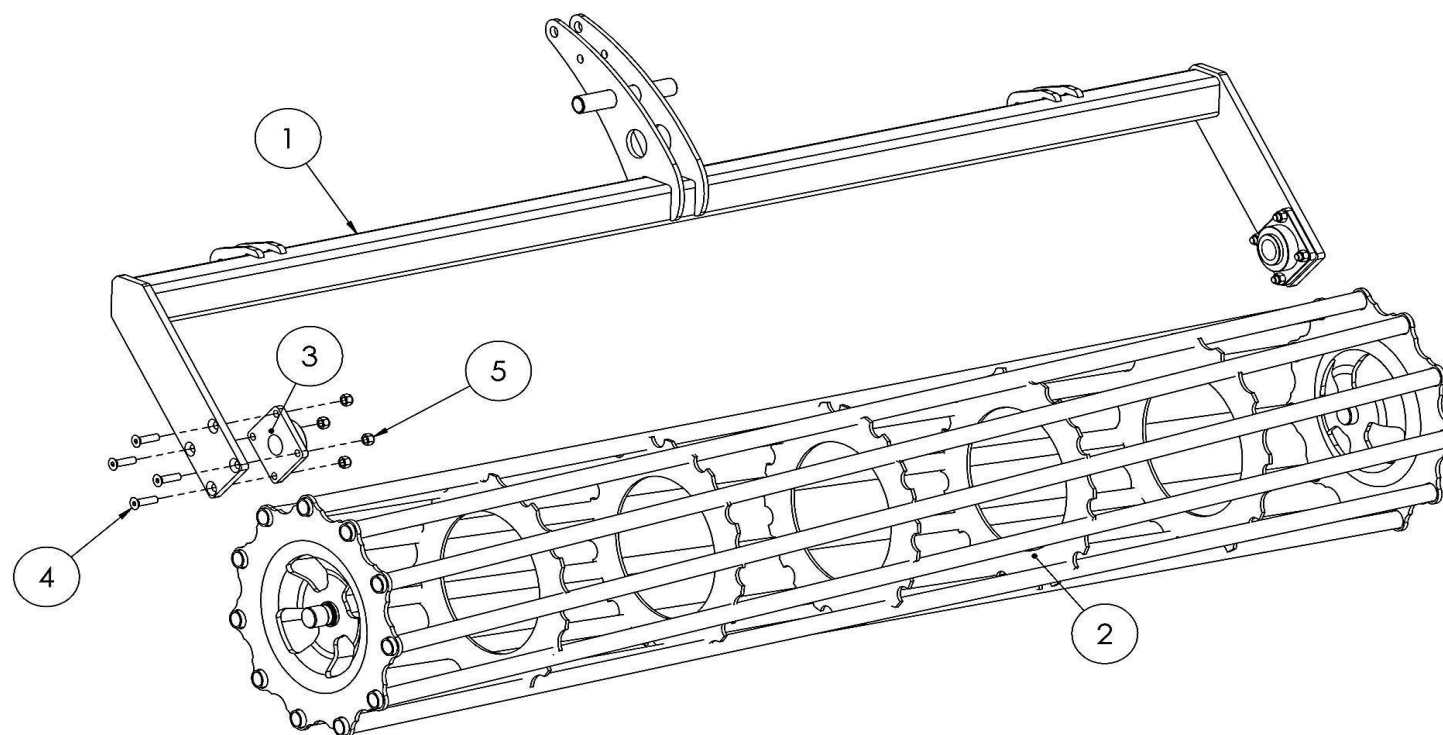
CRACKER ROLLER GROUP		
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.402.00.000.0	SCRAPER FRAME LEFT INWARD 9M
	2.ARG9.403.00.000.0	SCRAPER FRAME LEFT OUTWARD 9M
	2.ARG9.404.00.000.0	SCRAPER FRAME RIGHT OUTWARD 9M
	2.ARG9.405.00.000.0	SCRAPER FRAME RIGHT INWARD 9M
	2.ARG9.652.00.000.0	SCRAPER FRAME LEFT INWARD 10M
	2.ARG9.653.00.000.0	SCRAPER FRAME LEFT OUTWARD 10M
	2.ARG9.654.00.000.0	SCRAPER FRAME RIGHT OUTWARD 10M
	2.ARG9.655.00.000.0	SCRAPER FRAME RIGHT INWARD 10M
	2.ARG9.752.00.000.0	SCRAPER FRAME LEFT INWARD 12M
	2.ARG9.753.00.000.0	SCRAPER FRAME LEFT OUTWARD 12M
	2.ARG9.754.00.000.0	SCRAPER FRAME RIGHT OUTWARD 12M
	2.ARG9.755.00.000.0	SCRAPER FRAME RIGHT INWARD 12M
2	2.ARG9.406.00.000.0	CRACKER ROLLER 2,25M
	2.PM.731.00.000.0	CRACKER ROLLER 2,5M
	2.PM.710.00.000.0	CRACKER ROLLER 3M
3	2.ARG9.406.01.000.0	ROLLER PIPE GROUP 2,25M
	2.PM.730.01.000.0	ROLLER PIPE GROUP 2,5M
	2.PM.710.01.000.0	ROLLER PIPE GROUP 3M
4	2.PM.710.03.000.0	ROLLER MIDDLE GROUP
5	7.4.18.1796	BOLT M16X60 10.9 DIN 7991
6	7.4.15.1005	BEARING UCF 210
7	7.4.23.1039	NUT M16 DIN 985
8	7.4.18.2228	BOLT U M12 (60x60)
9	7.4.18.1095	BOLT M10x30 DIN 933
10	2.PM.711.01.000.0	SCRAPER GROUP
11	7.2.2.PM.0089	SCRAPER BIT
12	7.4.23.1010	NUT M10 DIN 934
13	7.4.23.1037	NUT M12 DIN 985



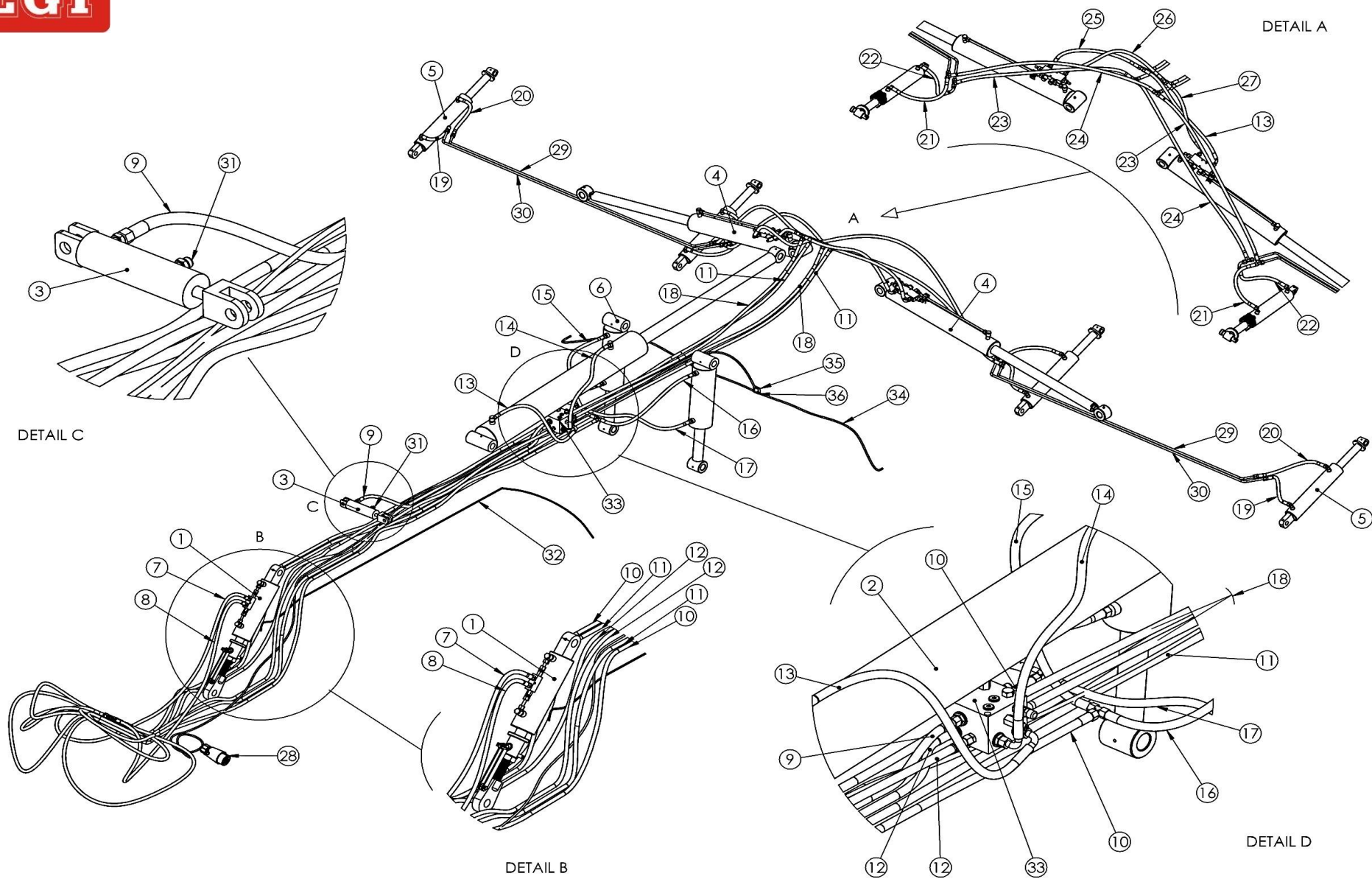
NOTCHED CAGE ROLLER GROUP		
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.502.00.000.0	ROLLER FRAME LEFT INWARD 9M
	2.ARG9.503.00.000.0	ROLLER FRAME LEFT OUTWARD 9M
	2.ARG9.504.00.000.0	ROLLER FRAME RIGHT OUTWARD 9M
	2.ARG9.505.00.000.0	ROLLER FRAME RIGHT INWARD 9M
	2.ARG9.662.00.000.0	ROLLER FRAME LEFT INWARD 10M
	2.ARG9.663.00.000.0	ROLLER FRAME LEFT OUTWARD 10M
	2.ARG9.664.00.000.0	ROLLER FRAME RIGHT OUTWARD 10M
	2.ARG9.665.00.000.0	ROLLER FRAME RIGHT INWARD 10M
	2.ARG9.762.00.000.0	ROLLER FRAME LEFT INWARD 12M
	2.ARG9.763.00.000.0	ROLLER FRAME LEFT OUTWARD 12M
	2.ARG9.764.00.000.0	ROLLER FRAME RIGHT OUTWARD 12M
	2.ARG9.765.00.000.0	ROLLER FRAME RIGHT INWARD 12M
2	2.ARG9.501.00.000.0	NOTCHED CAGE ROLLER 2,25 MT
	2.MXK.201.00.000.0	NOTCHED CAGE ROLLER 2,5 MT
	2.ARG.122.00.000.0	NOTCHED CAGE ROLLER 3 MT
3	7.4.15.1005	BEARING UCF 210
4	7.4.18.1796	BOLT M16X60 10.9 DIN 7991
5	7.4.23.1039	NUT M16 DIN 985



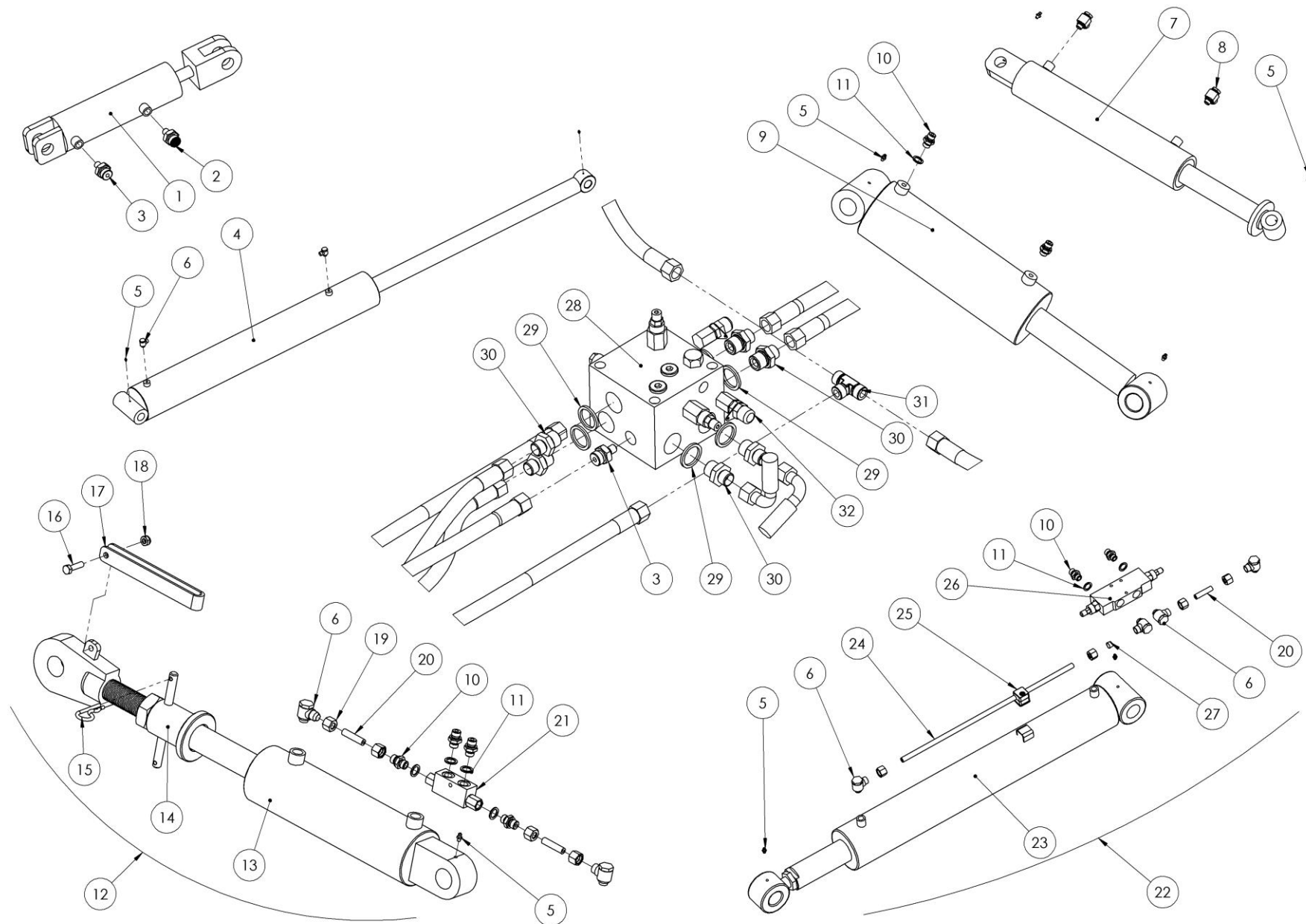
HELIX ROLLER GROUP		
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.502.00.000.0	ROLLER FRAME LEFT INWARD 9M
	2.ARG9.503.00.000.0	ROLLER FRAME LEFT OUTWARD 9M
	2.ARG9.504.00.000.0	ROLLER FRAME RIGHT OUTWARD 9M
	2.ARG9.505.00.000.0	ROLLER FRAME RIGHT INWARD 9M
	2.ARG9.662.00.000.0	ROLLER FRAME LEFT INWARD 10M
	2.ARG9.663.00.000.0	ROLLER FRAME LEFT OUTWARD 10M
	2.ARG9.664.00.000.0	ROLLER FRAME RIGHT OUTWARD 10M
	2.ARG9.665.00.000.0	ROLLER FRAME RIGHT INWARD 10M
	2.ARG9.762.00.000.0	ROLLER FRAME LEFT INWARD 12M
	2.ARG9.763.00.000.0	ROLLER FRAME LEFT OUTWARD 12M
	2.ARG9.764.00.000.0	ROLLER FRAME RIGHT OUTWARD 12M
	2.ARG9.765.00.000.0	ROLLER FRAME RIGHT INWARD 12M
2	2.MX.196.00.000.0	HELIX ROLLER 2,25M
	2.MX.112.00.000.0	HELIX ROLLER 2,5M
	2.MX.116.00.000.0	HELIX ROLLER 3M
3	7.4.18.1796	BOLT M16X60 10.9 DIN 7991
4	7.4.15.1005	BEARING UCF 210
5	7.4.23.1039	NUT M16 DIN 985
6	7.4.18.1769	BOLT M12x50 10.9 DIN 7991
7	7.2.2.1044	HELIX SPRING
8	7.4.23.1037	NUT M12 DIN 985



TUBE ROLLER GROUP		
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.502.00.000.0	ROLLER FRAME LEFT INWARD 9M
	2.ARG9.503.00.000.0	ROLLER FRAME LEFT OUTWARD 9M
	2.ARG9.504.00.000.0	ROLLER FRAME RIGHT OUTWARD 9M
	2.ARG9.505.00.000.0	ROLLER FRAME RIGHT INWARD 9M
	2.ARG9.662.00.000.0	ROLLER FRAME LEFT INWARD 10M
	2.ARG9.663.00.000.0	ROLLER FRAME LEFT OUTWARD 10M
	2.ARG9.664.00.000.0	ROLLER FRAME RIGHT OUTWARD 10M
	2.ARG9.665.00.000.0	ROLLER FRAME RIGHT INWARD 10M
	2.ARG9.762.00.000.0	ROLLER FRAME LEFT INWARD 12M
	2.ARG9.763.00.000.0	ROLLER FRAME LEFT OUTWARD 12M
	2.ARG9.764.00.000.0	ROLLER FRAME RIGHT OUTWARD 12M
	2.ARG9.765.00.000.0	ROLLER FRAME RIGHT INWARD 12M
2	2.MX.196.00.000.0	TUBE ROLLER 2,25M
	2.MX.114.00.000.0	TUBE ROLLER 2,5M
	2.MX.118.00.000.0	TUBE ROLLER 3M
3	7.4.15.1005	BEARING UCF 210
4	7.4.18.1796	BOLT M16X60 10.9 DIN 7991
5	7.4.23.1039	NUT M16 DIN 985



HYDRAULIC SYSTEM		
NO	PART CODE	NAME & DESCRIPTION
1	2.ARG9.100.03.000.0	DRAWBAR CYLINDER
2	7.4.3.1076	MAIN CYLINDER
3	7.4.3.1074	LOCK CYLINDER
4	2.ARG9.200.02.000.0	WING CYLINDER
5	7.4.3.1018	ROLLER CYLINDER
6	7.4.3.1075	AXLE CYLINDER
7	7.4.2.1544	3/8" R2 L375CM M18*1,5 R1/2 MALE CAPLIN
8	7.4.2.1545	3/8" R2 L365CM M18*1,5 R1/2 MALE CAPLIN
9	7.4.2.1533	3/8" R2 L165CM M18*1,5 HOSE
10	7.4.2.1532	3/8" R2 L665CM M18*1,5 R1/2 MALE CAPLIN
11	7.4.2.1534	3/8" R2 L890CM M18*1,5 R1/2 MALE CAPLIN
12	7.4.2.1535	3/8" R2 L640CM M18*1,5 R1/2 MALE CAPLIN
13	7.4.2.1537	3/8" R2 L85CM M18*1,5 90 HOSE
14	7.4.2.1547	3/8" R2 L95CM M18*1,5 90 HOSE
15	7.4.2.1543	3/8" R2 L85CM M18*1,5 HOSE
16	7.4.2.1211	3/8" R2 L75CM M18*1,5 HOSE
17	7.4.2.1361	3/8" R2 L90 CM M18*1,5 HOSE
18	7.4.2.1536	3/8" R2 L245CM M18*1,5 HOSE
19	7.4.2.1538	3/8" R2 L35CM M18*1,5 HOSE
20	7.4.2.1539	3/8" R2 L50CM M18*1,5 HOSE
21	7.4.2.1541	3/8" R2 L35CM M18*1,5 HOSE
22	7.4.2.1542	3/8" R2 L30CM M18*1,5 HOSE
23	7.4.2.1540	3/8" R2 L142CM M18*1,5 HOSE
24	7.4.2.1402	3/8" R2 L150CM M18*1,5 HOSE
25	7.4.2.1548	3/8" R2 L70CM M18*1,5 90 HOSE
26	7.4.2.1546	3/8" R2 L75CM M18*1,5 90 HOSE
27	7.4.2.1089	3/8" R2 L60CM M18*1,5 90 HOSE
28	7.4.29.1004	PLASTIC TRAILER JACK 14-002 7 PINS
29	7.4.2.1608	Ø12x1,5 207CM 2 BEND PIPE
30	7.4.2.1609	Ø12x1,5 220CM 2 BEND PIPE
31	7.4.2.1607	HYD.1/4 UNION
32	7.2.2.1602	HAND BRAKE
33	7.4.2.1528	PLATE CBCA-LHN+CKCB-XCN+2 adSCCA-LAN
34	7.4.27.1002	CABLE.7 X 1 MM2 YSLY-JZ
35	7.4.29.1006	FEMALE CONNECTOR
36	7.4.29.1005	MALE CONNECTOR



PISTONS & BLOCK

NO	PART CODE	NAME & DESCRIPTION
1	7.4.3.1074	LOCK CYLINDER
2	7.4.2.1607	HYD.1/4 UNION
3	7.4.2.1220	UNION R1/4 M18x1,5 12L
4	7.4.3.1076	MAIN CYLINDER
5	7.4.38.1003	GREASE NIPPLE M6 H1
6	7.4.2.1007	3/8.SWIVELLING ELBOW.12L
7	7.4.3.1018	ROLLER CYLINDER
8	7.4.2.1111	1/4 SWIVELLING ELBOW 12L
9	7.4.3.1075	AXLE CYLINDER
10	7.4.2.1087	UNION 3/8.12L
11	7.4.2.1194	WASHER 3/8"
12	2.ARG9.100.03.000.0	DRAWBAR CYLINDER GROUP
13	7.4.3.1077	DRAWBAR CYLINDER
14	2.ARG9.100.04.000.0	DRAWBAR CYLINDER ADJUSTING HIVE
15	7.4.28.1007	R PIN Ø6
16	7.4.18.1097	BOLT M10x40
17	2.ARG9.100.03.001.0	DRAWBAR CYLINDER LOCK SETTING
18	7.4.23.1036	NUT M10 DIN 985
19	7.4.2.1030	HYD. NUT 12L M18x1,5
20	7.4.2.1251	HYD.PIPE.Ø12X1,5 50mm
21	7.4.2.1011	LOCK VALVE 3/8 L VBPDE
22	2.ARG9.200.02.000.0	WING CYLINDER GROUP
23	7.4.3.1073	WING CYLINDER
24	7.4.2.1251	HYD.PIPE.Ø12X1,5 530mm
25	7.4.1.1004	TWIN CLAMP Ø12 SINGLE
26	7.4.2.1529	OVERCENTER LOCK VALVE VBCD 3/8" DE A
27	7.4.2.1038	FERRULE 12L
28	7.4.2.1528	PLATE CBCA-LHN+CKCB-XCN+2 ad SCCA-LAN
29	7.4.2.1192	WASHER 1/2"
30	7.4.2.1272	UNION R1/2 M18x1,5 12L
31	7.4.2.1276	UNION T M18x1,5 12L
32	7.4.2.1530	TWIST 1/8"-1/4"

NOT:

Lined area for writing notes.



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