

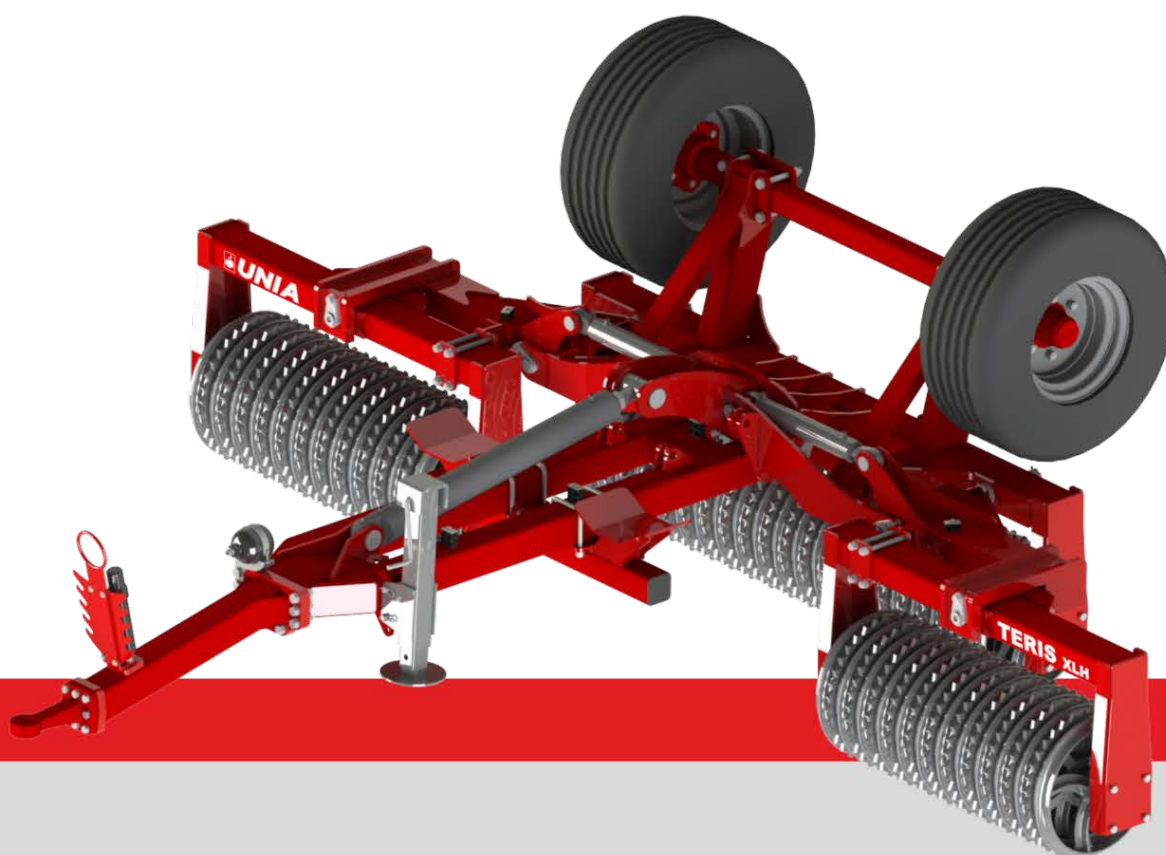


UNIA

OPERATING AND MAINTENANCE MANUAL

SECONDARY TILLAGE ROLLER

TERIS XLH / XXLH



UNIA Sp. z o.o.

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Before starting machine read the operating manual and follow the safety instructions contained in it.

**VERSION
ENG 01/2018**

CE Declaration of Conformity

CE Declaration of Conformity

UNIA Sp. z o.o.

st. Szosa Torunska 32/38
86 – 300 Grudziadz, Poland

Herewith declare with full responsibility that our product:
cultivating roller

TERIS XL H / TERIS XXL H

type / model :

manufacturing year :

serial no. :

is in compliance with the Ordinance of the Minister of Economy of October 21, 2008 (Journal of Laws No. 199, item 1228) and the EU Directive 2006/42/EC of May 17, 2006 and the Ordinance of the Minister of Infrastructure of May 4, 2009 (Journal of Laws No. 75/2009, item 639) and the following standards:

PN-EN ISO 12100:2012

PN-EN-ISO 13857:2010

PN-ISO 3600:1998

PN-EN-ISO 4413:2011

PN-ISO 11684:1998

PN-EN 349+A1:2010

PN-EN ISO 11688-1:2010

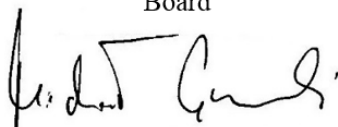
PN-EN 14017+A2:2009

PN-EN ISO 4254-1:2016-02

PN-EN 13739-1:2012

This CE Declaration of Conformity is no longer valid if the machine has been modified or reconstructed without the manufacturer's consent.

Member of the Management
Board


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Grudziadz, 05.12.2017

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TERIS XL H / TERIS XXL H

MAINTENANCE AND OPERATING MANUAL

Machine identification data:

Type	
Production year	
Serial no.	



This maintenance and operating manual is an integral part of the machine. It is important that the manual is always in the possession of the machine user. Access to the manual should be provided to machine operators and cooperating persons while operation, regulation, repairs and renovations.



Before starting the machine please read the operating manual and follow the recommendations and instructions regarding safety and proper usage of the machine.

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PREFACE:

When buying the machine, check completeness of its accessories that include the following components:

- Operating Manual
- Warranty Card

1. Precautions

1.1 Before you Begin to Use Your Machine



- Read the instruction manual.
- Pay always special attention to the text and illustrations marked with this symbol!
- These machines are intended for agricultural use only. Any use outside of this purpose shall be considered as not intended use and will result in the loss of warranty. Learn how to use your machine correctly and carefully!
- The machine may be dangerous when operated by not authorized individual or when operated carelessly.

1.2 Health and safety regulations

- Before each start, check whether the tractor and machine are safe for road traffic and operation!
- The tractor working with the machine must be equipped with the weights on the front axis! Balance of the tractor with the attached machine, its steerability and braking ability must always be kept.
- When connecting and disconnecting the machine to/from the tractor, its lifting and lowering on the hydraulic lift of the tractor, setting the machine in the transport and working positions and on the headlands, ensure that no bystanders and in particular children are present in the vicinity of the machine. Perform these operations slowly, without sudden jerks!
- Never stay between the tractor and the machine when the tractor's engine is running!
- The machine may only be operated, maintained and repaired by the personnel who know its construction and are aware of the existing hazards!
- There are some places where crushing or cutting may occur on the parts actuated by the forces other than the human force (e.g. the hydraulic system). When connecting the hydraulic hoses to the hydraulic system of the tractor, always ensure that the hydraulics is depressurized! Check positions of the control levers of the tractor hydraulic system. Only actuate the hydraulically operated attachments when there is nobody present within their range of operation! Check the hydraulic hoses on regular basis and replace them with new items when damaged or worn!

- When driving on highways with the machine attached, lock the operating lever against its lowering!
- The attached warning and indicating signs contain information on safe work: they are intended for your safety!
- Before you start work, learn thoroughly operation of all devices and actuators and functions of the machine. It is too late for this after you start work!
- Avoid wearing any loose clothing, which could be caught by rotating components of the machine.
- Always keep the machine clean in order to reduce the danger of fire!
- Always check the surroundings before you start operation. Make sure that you have sufficient visibility!!
- Never back or reverse the tractor when the machine is lowered to the working position. When reversing, pay attention to the components that protrude far away and do not use the independent brakes of the tractor!
- Check air pressure in the wheels of the tractor and the machine regularly.
- Never transport people on the machine and load it with any additional weights when operating the machine or transporting it!
- Check and attach the traffic equipment, such as lighting, warning devices and possible protective devices.
- Observe the admissible axial loads, total weights and transport dimensions.
- Check tightness of screws and nuts on regular basis and tighten them if required.
- Always use appropriate tools and wear safety gloves when changing tools.
- The spare parts must be conforming to the revisions specified by the manufacturer. This may only be provided by the genuine spare parts. Use typical protection devices and pins for securing all bolts of the machines (tractor + machine). Never use any temporary means of protection, such as screws, bars, and wires etc., which can cause damage to the machine or tractor during transport and cause a safety hazard for other road users!
- Attach and disconnect the machine to/from the tractor after having parked the machine on a flat and hardened surface and with the tractor engine stopped. Store the machines unfolded.
- Store the machine in the locations inaccessible for unauthorized people or animals when not in use.
- Besides the above guidelines, follow the general safety rules.

1.3 Servicing



- Service the machine when it is lowered onto the ground! If the machine is coupled with the tractor, engine of the tractor must be off and brakes on!
- Use only tools in good technical condition and genuine materials and spare parts for servicing.
- Always protect the machine with appropriate supports when performing any maintenance or repair work on the machine lifted up.

1.4 Transport on highways



- Never exceed the speed limits allowed on highways and follow traffic regulations of the respective country!
- Pay special attention when passing and overtaking other vehicles and on curves (the unit is pivotally connected to the tractor)!
- The machine, as the part of the vehicle that protrudes outside the rear side outline of the tractor covering the rear lamps of the tractor, poses a threat for other vehicles in the traffic.
- When transporting the machine on highways, always use warning lights, distinguishing plate and side reflectors.
- Maximum width of the machine, which can be moved on highways is specified in the detailed regulations of the country of use. They should be observed.

1.5 Safety Symbols

A		Read through the Operating Manual thoroughly before operating the machine
B		Stop the tractor engine and take away the ignition key before any servicing and repair work
C		Keep safe distance off the machine
D		Never reach into the crushing area as long as the components can move
E		Stay away of the machine tilting area
F		Points of attaching hooks of the lifting equipment
H	<div> <p>UWAGA PROSIMY O REGULARNE SMAROWANIE PUNKTÓW SMARNYCH</p> <p>ATTENTION PLEASE OIL REGULARLY LUBRICATION POINTS UNDER THE OPERATING MANUAL</p> <p>ACHTUNG WIR BITTEN REGELMÄßIG DIE SCHMEIRSTELLEN LAUT BEDIENUNGSANLEITUNG ZU SCHMIEREN</p> </div>	Lubricate the machine on regular basis
G		Speed limit sign

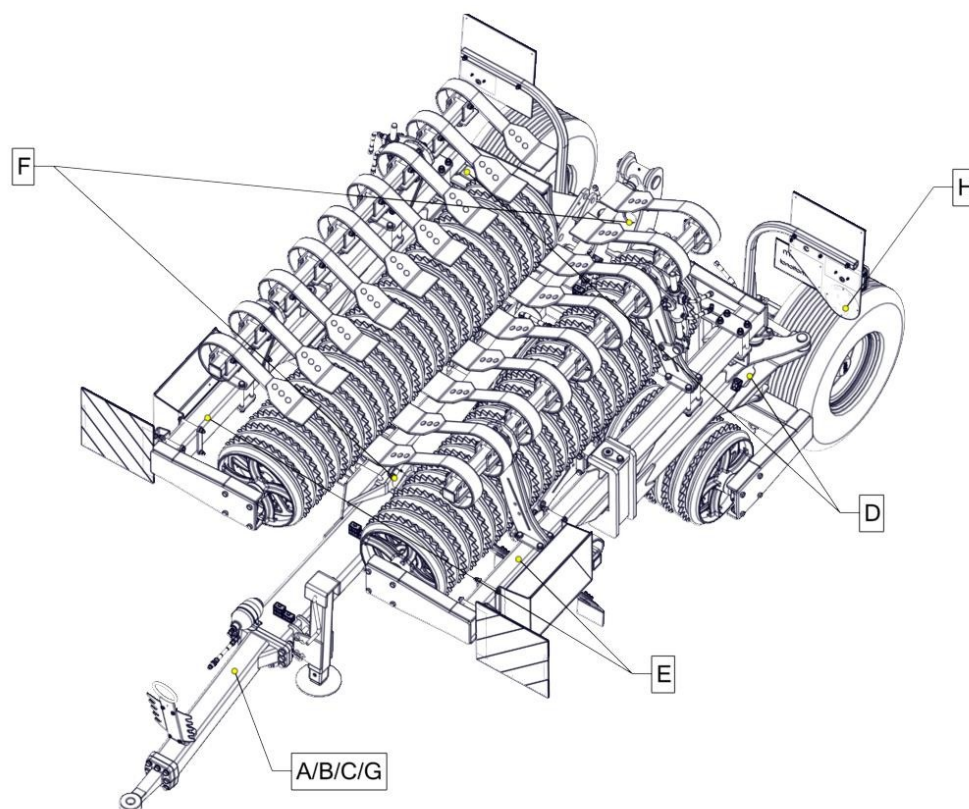


Fig 1: Location of the safety symbols - TERIS XL H/ XXLH



Safety signs and inscriptions should be protected against damage, dirt and overpainting.

Replace any damaged or illegible signs and inscriptions with new ones that are available from the manufacturer or vendor of the machines.

1.6 Nameplate

For the machine data, see the type plate that is attached to the main frame of the machine, in its front section on the left.



2. Technical and Identification Data

TERIS XL H / XXL H – cultivating roller of compact design. It is available in drawn and semi-mounted versions, equipped with drawbar, ring shaft and chassis

- hydraulically foldable roller
- hitch axle
- chassis with wheels size 360/55-16 (XL H), and 480/45-17 (XXL H)
- three sections of Cambridge rollers with ring diameters of 520mm and 505 mm alternately
- three sections of Cambridge F rollers with ring diameters of 520 mm and 520 mm alternately
- three sections of 530 mm Crosskill rollers

The machines are available in the following three options of operating widths: 4.3 m; 5.3m; 6.3 m (XL H) and 7.3 m; 8.3 m; and 9.5 m (XXL H)

Optional accessories:

- front drag, hydraulically adjustable
- front skid with screw adjustment
- Ø40/Ø50 HITCH
- set of warning signs with lighting
- air brake (XL H)
- small stone container (trough)

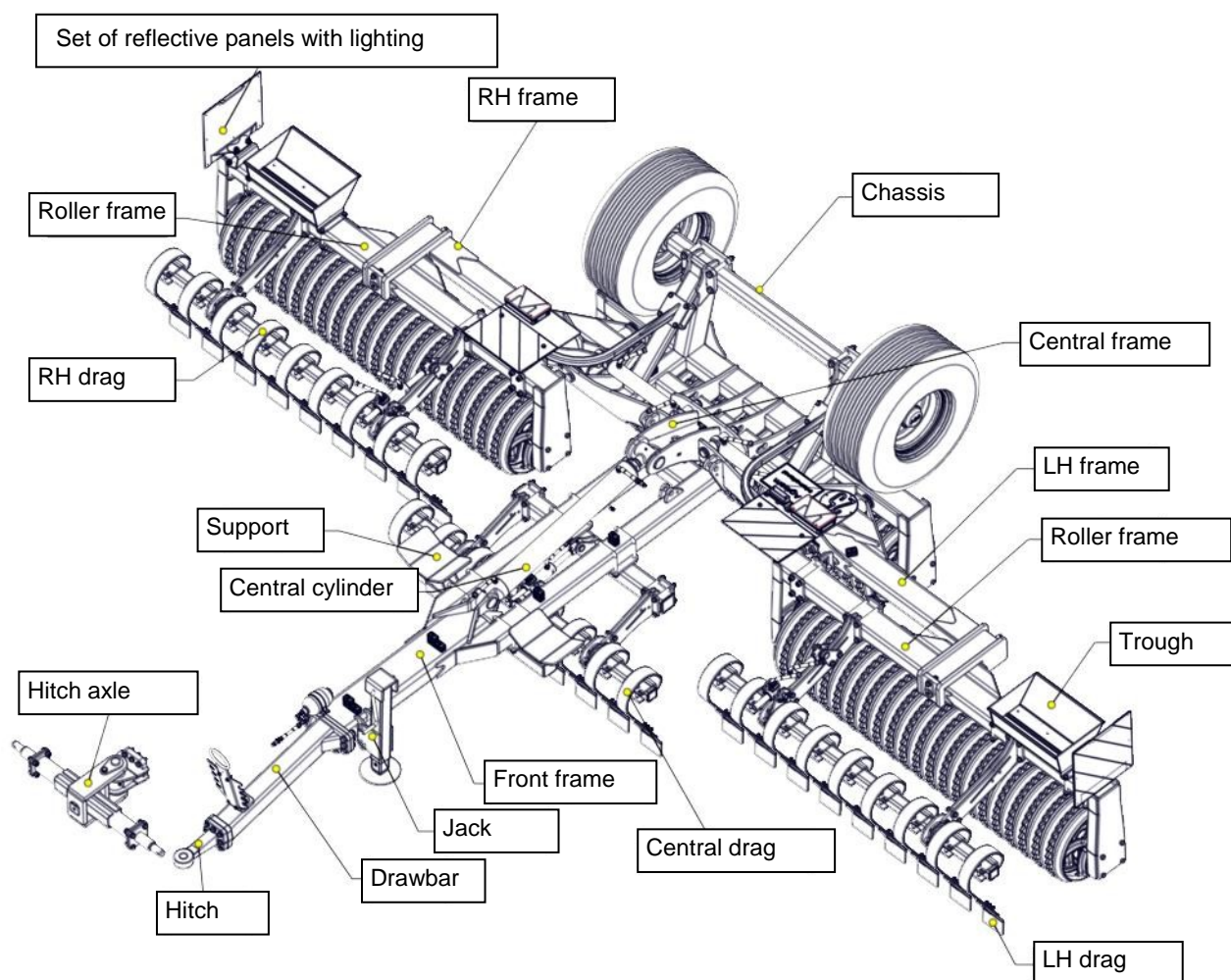


Fig. 2. Construction of TERIS XL H / XXL H

2.1 TERIS XL specification

Item	Parameters		U/m	Type of machine		
				TERIS XL H 4,3	TERIS XL H 5,3	TERIS XL H 6,3
1	Type of machine		-	semi-mounted		
2	Working width		m	4,3	5,3	6,3
3	No. of sections / rings	Cambridge - ø 505	pc.	3/87	3/107	3/127
4		Cambridge F - ø 520	pc.	3/87	3/107	3/127
5		Crosskill - ø 530	pc.	3/45	3/55	3/65
6	Working speed		km/h	10÷15	10÷15	10÷15
7	Effective capacity		ha/h	4,3÷6,5	5,3÷8	6,3÷9,5
8	Power demand		HP	80÷110 (90-140 w. drag)	90÷120 (100-150 w. drag)	100÷130 (110-160 w. drag)
9	Operators		No.	one		
10	Dimensions for transport	L	cm	420	490	540
		W		240	240	240
		H		160 (220 w. drag)	160 (220 w. drag)	160 (220 w. drag)
11	Weight	Cambridge roller	kg	2900	3300	3690
		Cambridge F roller		3030	3450	3860
		Crosskill roller		3170	3710	3940
		hydraulic drag		380	480	530
		mechanically-adjustable drag		330	355	380
12	No. of springs in the drag		pc.	18	22	26
13	Spring pitch		mm	243	243	243

2.2 TERIS XXL specification

Item	Parameters		U/m	Type of machine		
				TERIS XXL H 7,3	TERIS XXL H 8,3	TERIS XXL H 9,5
1	Type of machine		-	semi-mounted		
2	Working width		m	7,3	8,3	9,5
3	No. of sections / rings	ø 505 Cambridge roller	pc.	3/145	3/165	3/189
4		ø 520 Cambridge F roller	pc.	3/145	3/165	3/189
5		ø 530 Crosskill roller	pc.	3/75	3/85	3/97
6	Working speed		km/h	10÷15	10÷15	10÷15
7	Effective capacity		ha/h	7,3÷11	8,3÷12,5	9,5÷14,3
8	Power demand		HP	125÷150 (135-180 w. drag)	130÷160 (140-190 w. drag)	140÷170 (150-170 w. drag)
9	Operators		No.	one		
10	Dimensions for transport	L	cm	590	610	670
		W		240	240	240
		H		180 (230 w. drag)	180 (230 w. drag)	180 (230 w. drag)
11	Weight	Cambridge roller	kg	4700	5050	5550
		Cambridge F roller		4980	5360	5900
		Crosskill roller		5000	5370	5920
		hydraulic drag		660	710	770
		mechanically-adjustable drag		540	560	590
12	No. of springs in the drag		pc.	30	34	38
13	Spring pitch		mm	243	243	243

3. Operating Manual

3.1 First Start

Before the first start of the machine:

- read the Operating Manual thoroughly
- check technical condition of the machine, and in particular, condition of its working parts and the hydraulic system. When finding any damaged or worn parts, replace them with new ones
- check tightening of all screws, bolts and nuts. Tighten any loose nuts especially at the beginning of operation of the machine
- check fitting of the quick-connectors of the hydraulic hoses of the machine to the sockets on the tractor
- check, whether the rollers can rotate without any jams
- check the pressure in tyres acc. to the manufacturer's recommendations
- check, whether the components requiring lubrication are lubricated
- check, whether the machine attachment system fits the tractor attachment system

3.2 Preparation of the Machine

- pressure in the tractor wheels must be equal on the same axle in order to provide uniform working depth of the machine
- the tractor lower links [C] must be stiffened (lock the oblong holes) and at the same height above the ground level
- set the lifting rods of the tractor links [W] so that you can pull down the lower links to the height equal 15 cm below the hitch axle in order to achieve the required working depth, while obtaining sufficient lifting height of the links for transport
- mount the front axle weights in order to keep balance of the tractor and the machine
- quick-connectors of the machine hydraulic hoses must fit the sockets on the tractor
- the hitch axle should be in the middle of the machine
- category of the lower articulated joint of the hitch axle must be the same on both the tractor and the machine sides!

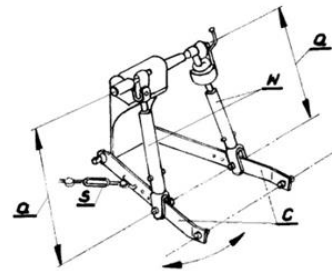


Fig. 3: Tractor lifting rod

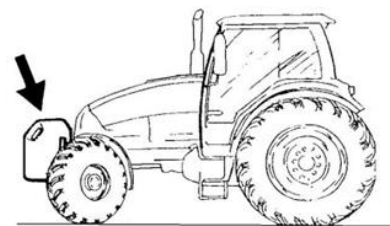


Fig. 4: Front axle weight

3.3 Mounting and Disconnection of machines

The tractor should stand on a firm and level ground in order to connect the machine to it in a safe and correct manner.

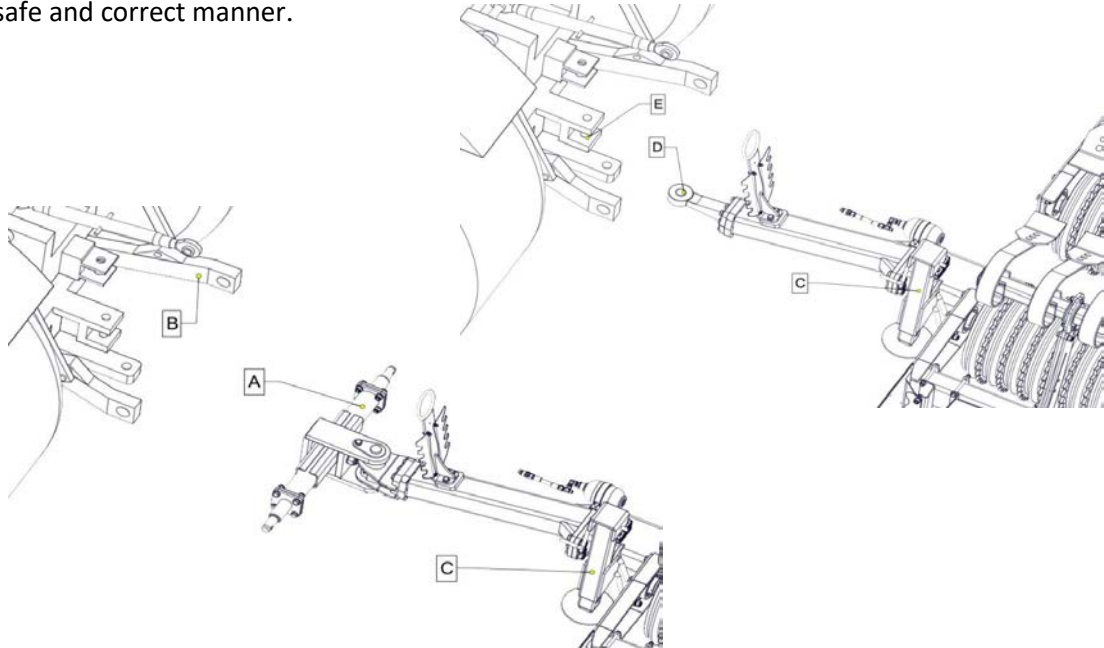


Fig. 5. Connecting the machine

a) Mounting

- shift the tractor hydraulics to the position control
- back the tractor to a distance that allows connection of the hitch axle [A] to the tractor lower links [B] or to the tractor coupling [E] to the drawbar hitch [D]
- secure the hitch axle [A] in the tractor links [B] or the tractor coupling [E] in the drawbar hitch [D] with bolts and cotter pins
- connect the machine hydraulic hoses to the tractor external hydraulic system and check the hoses for tightness. Check lifting, lowering and unfolding of the machine. Remember to connect all hoses to all tractor 2-way hydraulic connectors in pairs
- lift and secure the support [C]

b) Disconnecting

- lower and secure the drawbar support [C]
- lower the machine onto a flat and hard surface
- depressurize the machine hydraulic system by shifting the tractor hydraulic levers to their free (floating) position
- disconnect the hydraulic hoses
- disconnect the hitch axle [A] (hitch [E])

3.4 Transport

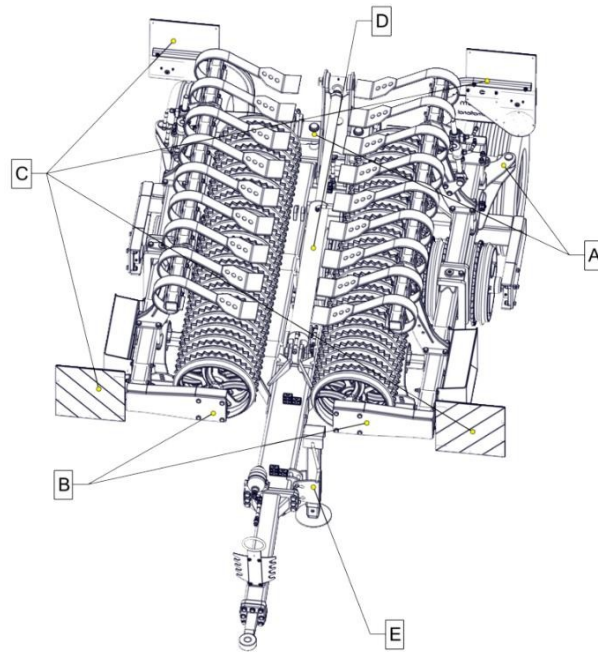


Fig. 6. Access to the field – transport

- to transport the machine, fold the machine side sections **[B]** to the transport position with the tractor hydraulic system **[A/D]**
- clean the machine from soil and other contaminants after finishing work
- clean the warning components (lighting) **[C]** (optional) from dirt
- the unit (i.e. tractor + cultivating roller) is not permitted to be driven on highways without proper marking **[C]**
- the unit consisting of a tractor and agricultural machine connected to it must meet the same requirements as the tractor alone
- adjust the chains tensioning the tractor side links (stabilizer arms) accordingly before driving; they should limit the excessive side movements of the machine
- Always comply with the 'Traffic Act' when driving on highways

Adjusting the Machine

3.5.1 Hydraulic Unfolding/Folding of the Machine

There is an adjustable flow choke installed downstream the hydraulic quick coupler. Use it to adjust the speed of unfolding and folding of the roller to eliminate side frame jerks in extreme positions

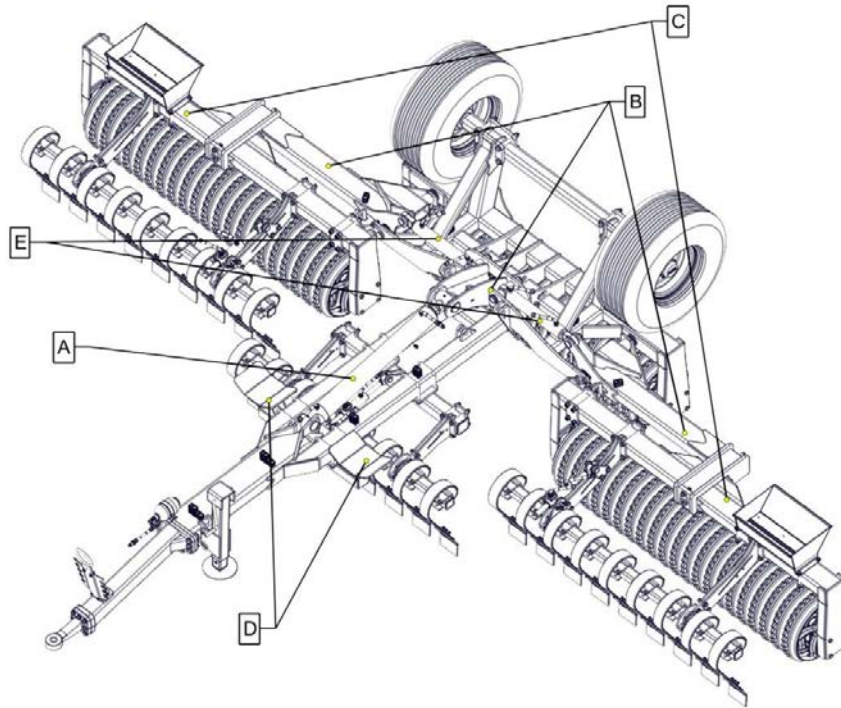


Fig. 7. The machine unfolding/folding hydraulics

- lift the roller section **[B]** slightly by means of the cylinder **[A]** so that the roller arms **[C]** are outside of the lock **[D]**
- tilt the side frames **[C]** using the cylinders **[E]**
- retract the cylinder **[A]**, causing the lowering (i.e. tilting of the frames **[B]** to the front of the machine)

When folding the machine, do the above steps in reverse order.

3.5.2 Adjusting the Drag

3.5.2.1 Hydraulic Adjustment

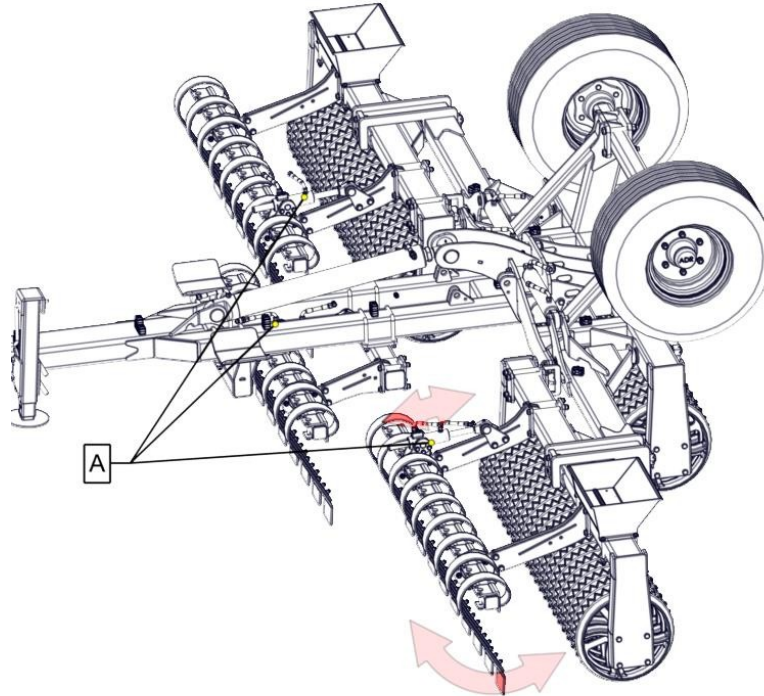


Fig. 8. Hydraulic adjustment of the drag working depth

Hydraulic adjustment involves pressurizing the cylinders [A] from the tractor cab causing them to be extended / retracted depending on the required working depth of the drag. Do not set the hydraulic system in the floating position.

In order to align the position of the individual sections of the drag, unload all its working components (by lifting the drag above the ground by means of the tractor suspension or the machine chassis) and apply pressure to the cylinders several times to maximize their retraction and extension. Always set the working depth by extending the cylinder.

Each time after finishing work and before transporting the machine, set the drag in its extreme position in relation to the roller (i.e. extend the cylinders.)

3.5.2.2 Screw Adjustment

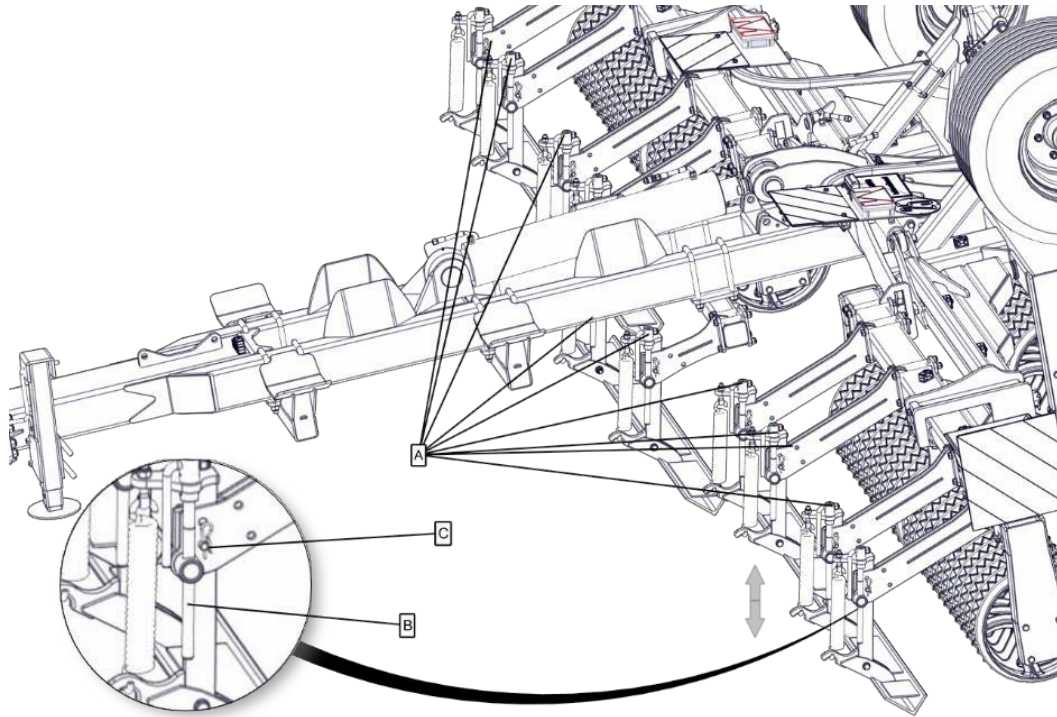


Fig. 9. Screw adjustment of the mechanically-adjustable skid

Screw adjustment is done with spindles **[A]** (6 pc.- XL: 10 pc.- XXL.)

Before adjustment, release the bolt **[C]**, and replace it in its place after adjusting the spindle. To adjust the skid, rotate the spindle **[B]** clockwise or anti-clockwise in order to lift or lower it.

4. Operation

Always operate the machine in the forward direction (do not reverse with the machine operating components lowered.)

Set the machine to work on the working rollers, parallel to the ground. Machine rollers must be evenly loaded.

It is possible to operate the machine equipped with hydraulic drag inoperative (i.e. with the rollers only); for this purpose, set the drag to its maximum height by means of the hydraulic system, **see [A] in Fig. 8.**

Operating a roller equipped with a mechanically-adjustable skid inoperative (i.e. with the rollers only) can be troublesome due to its adjustment, and therefore, it should be dismantled.

Secure or dismantle the lighting system during operation of the machine.

Operation of the roller on stony soils is not permitted

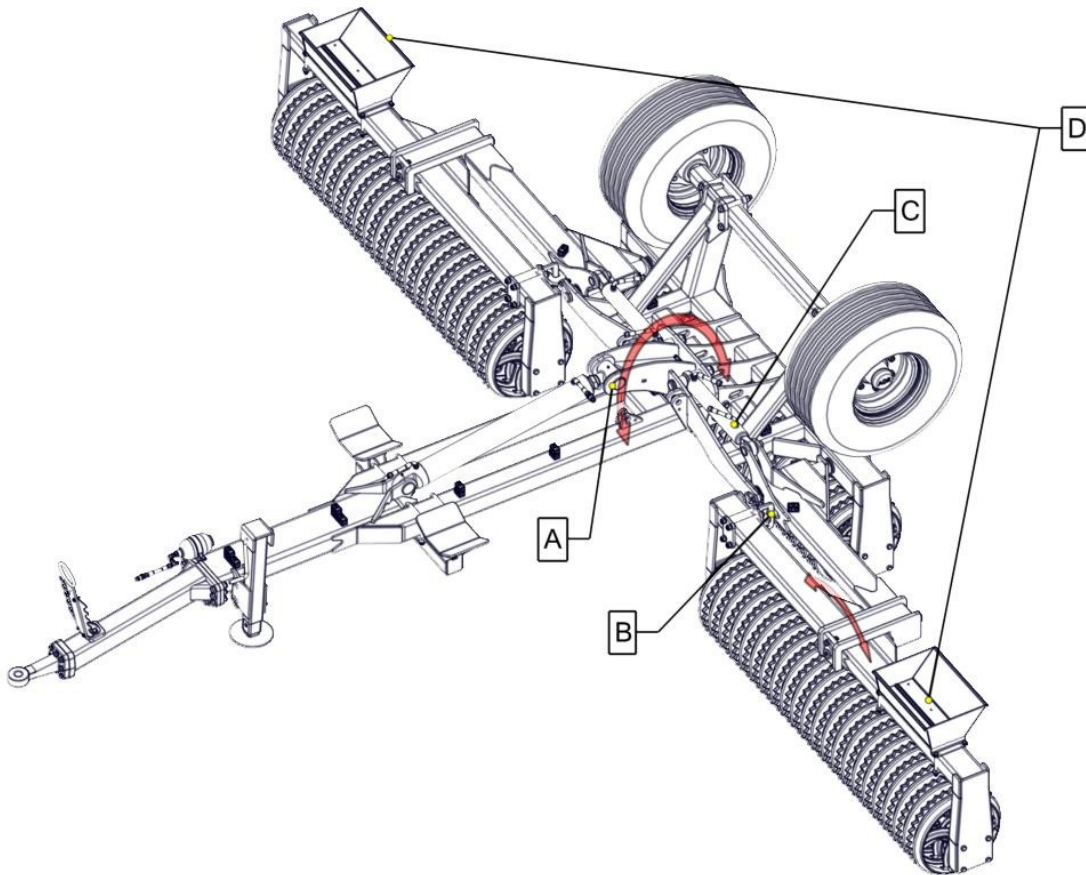


Fig. 10. Machine operation

- Place the central cylinder in the centre of the slot **[A]** after unfolding and set the hydraulic system in floating position, which improves machine operation on transverse bumps.
- Set the unfolding hydraulics **[C]** also in floating position, which improves operation on longitudinal unevenness

The shackle **[B]** restricts the swing of the frame on its axis of rotation and protects the joint against damage and allows the shaft to be folded.

Do not dismantle the shackle

Troughs for small stones **[D]** are available as an option. They allow the transport of foreign matter in the field in the unfolded position of the machine. They must be removed after finishing work and before folding the machine.

5. Servicing and Maintenance

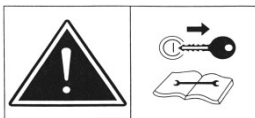
5.1 General



- Always use the genuine spare parts since they are of the proper quality and fit the machine correctly. Besides, it is one of the warranty conditions.
- Always set the machine on a hard and equal surface, supported on its wheels and supports before beginning any work at it. Also, disconnect the machine from the tractor.

CAUTION! THE HYDRAULIC SYSTEM IS PRESSURIZED!
CAUTION! THE LIGHTING SYSTEM IS LIVE!

5.2 Replacement of the Machine Components



Replace all working parts (wearing parts) in due time to protect the other, more expensive assemblies against wear.



Contact the manufacturer's service department in order to replace any component of the hydraulic system.

5.3 Hydraulic System

- Drain all oil remaining in the hydraulic system before first start and fill the system with oil recommended and used in the tractor connected to the machine.
- Check the hydraulic system and cylinders for leaks every day and remove any leakages as soon as possible.
- Take care of the cleanliness of the cylinders and especially their piston rods.
- Set the machine in the parking position, and depressurize the system before beginning any work at the hydraulic system.
- Only connect and disconnect the hoses to and from the tractor when the hydraulic system is depressurized.
- Replace the hydraulic hoses not later than every five years of operation of the machine.

5.4 Lighting

- Check the correct connection of the 7-pin plug outputs before the first start.
- Check the lighting, plug, wiring and lamps every day.
- Check cleanliness of the reflector plates.

5.5 Brakes

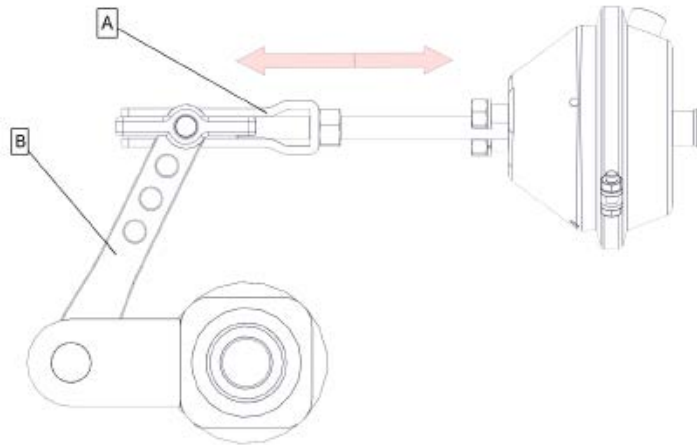


Fig. 11. Air brake

- Inspection and adjustment of the air brake system is to be carried out 2 times a year before commencement of field work (machine operation) or after the operator has determined that the braking force has been reduced
- Adjust the braking force by reducing the cylinder idle stroke. Remove the pressure from the brake system before proceeding, then disengage the fork [A] from the arm [B]. Unscrew the fork [A] towards the arm [B]. Reconnect the system.

CAUTION! THE SYSTEM IS PRESSURIZED

- Perform any operations on a depressurized system.
- Everyday maintenance consists of checking the air system tightness and visual inspection of the air lines.
- Replace any damaged components with new ones immediately.
- Drain condensate from the air system at least 2 times a year, and especially before winter. To do this, unscrew the drain plug [1] located at the bottom of the air tank [2]. Replace the plug after draining condensate, and check the system tightness.
- Clean the system filter as required, however at least once a year.

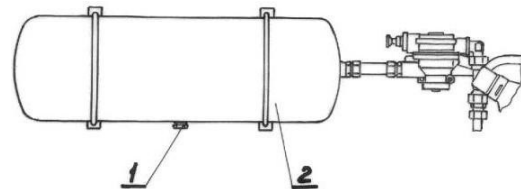


Fig. 12. Draining the system

- For the safe operation of the compressed air valves, it is required that an anti-freeze agent should be added to the system. Observe the tractor manufacturer's recommendations.
- Release the brake, and depressurize and drain the system before the winter storage.

5.6 Bolt, screw and nut tightening torques (Nm)

Table 3

Strength class of bolts					
size	pitch	6.8	8.8	10.9	12.9
M4	0,7	2,4	3,2	4,5	
M5	0,8	4,5	6	8,4	10
M6	1	8	11	15	17
M8	1,25	18	27	34	40
	1	16	21	30	35
M10	1,5	35	46	65	76
	1,25	31	41	57	67
	1	27	36	50	59
M12	1,75	59	79	111	129
	1,25	49	65	91	107
M14	2	92	124	174	203
	1,5	76	104	143	167
M16	2	127	170	237	277
	1,5	104	139	196	228
M18	2	194	258	363	422
	1,5	135	180	254	296
M20	2,5	250	332	469	546
	1,5	172	229	322	375
M22	2,5	307	415	584	682
	1,5	212	282	397	463
M24	3	432	576	809	942
	2	322	430	603	706
M27	3	640	740	1050	1250
	2	480	552	783	933
M30	3,5	755	1000	1450	1700
	2	560	745	1080	1270
M36	4	980	1290	1790	2020
	2	730	960	1340	1500

5.7 Lubrication

Use mineral oils for lubrication. Clean the lubrication points before lubricant injection. Lubricate at the marked points. If the machine worked less number of hectares, please lubricate it before starting work and after its completion, and at all lubrication points.

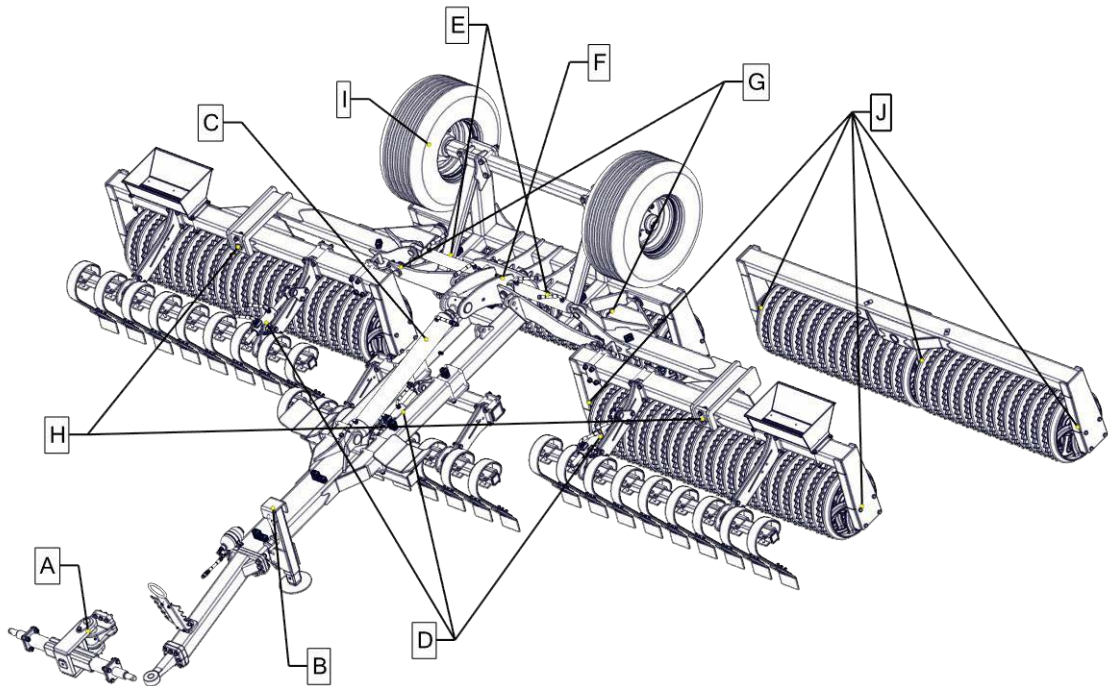


Fig. 13. Lubrication points

Table 4

Item	Designation	Specification	Lubricant grade	Lubrication interval (h)
1	A	Hitch axle joints (2 pc.)	ŁT-4S-3 grease	200
2	B	Support leg	-II-	200
3	C	Central cylinder pin eyes and clevises	-II-	200
4	D	Drag cylinder pin eyes and clevises	-II-	200
5	E	Side cylinder pin eyes and clevises	-II-	200
6	F	Central frame bolts	-II-	50
7	G	Side frame bolts	-II-	50
8	H	Roller frame bolts	-II-	50
9	I	Wheel hubs	-II-	200
10	J	Axle bearings (6 pc.-XL H, 8 pc. XXL H)	-II-	20

5.8 Storage of the Machine

Clean the machine from soil each time after finishing work and then inspect all parts and assemblies. Replace any worn or damaged parts with new ones. Tighten any loosen screw connections. Store the machine on hardened surfaces.

After the season:

- clean the machine thoroughly
- lubricate the machine at the lubrication points specified in the Table 4
- wash faces of the tines cultivator points, rollers and hitch axle pivots with kerosene and protect them against corrosion applying grease with brush
- repair spot defects of the paintwork by repainting
- when the machine is to be stored outdoors in winter – disassembly the hydraulic cylinder together with the hoses and keep them in a dry, well ventilated and possibly darkened room

5.9 Disassembly and Disposal

After its working life, the cultivator is to be scrapped. Disassembly should be performed by a specialized company.

5.10 Warranty Conditions and Warranty Services

Agricultural machinery is warranted to the provisions specified in the Instruction Manual for proper operation and maintenance. Under the warranty period, only the genuine parts made by 'UNIA' Grudziądz may be used.



Any modifications or repairs made by the user are not allowed in the warranty period. This may lead to loss of warranty. For more detailed information on how to file a complaint, see the Warranty Card attached to each machine together with its Operating Manual.

The warranty services are performed by: the supplier (dealer) entered to the Warranty Card when buying the machine.

[illegible]

[illegible]

UNIA Sp. z o.o.

st. Szosa Torunska 32/38, 86-300 Grudziadz

QUESTIONNAIRE

Please read the entire questionnaire and write a short answer:

1. Machine serial number
received on.....
2. Have any deficiencies or damages occurred during the transport? If so, please specify what :
.....
.....
3. When did you start work with the machine.....
4. How many [ha] have you worked with the machin.....
5. Tractor power (HP).....
6. Which damages occurred.....
.....
.....
7. What is your general opinion about machine's work
.....
.....
8. What difficulties occur during the operation of the machine
.....
.....
.....
9. Your comments regarding changes, improvements of construction and machine operation
.....
.....
.....
.....
10. Your remarks concerning this manual.....
.....
.....
.....

User address : Name & surname
 Place
 Postal code
 Province

.....
Date

.....
Signature



UNIA Sp. z o.o.

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