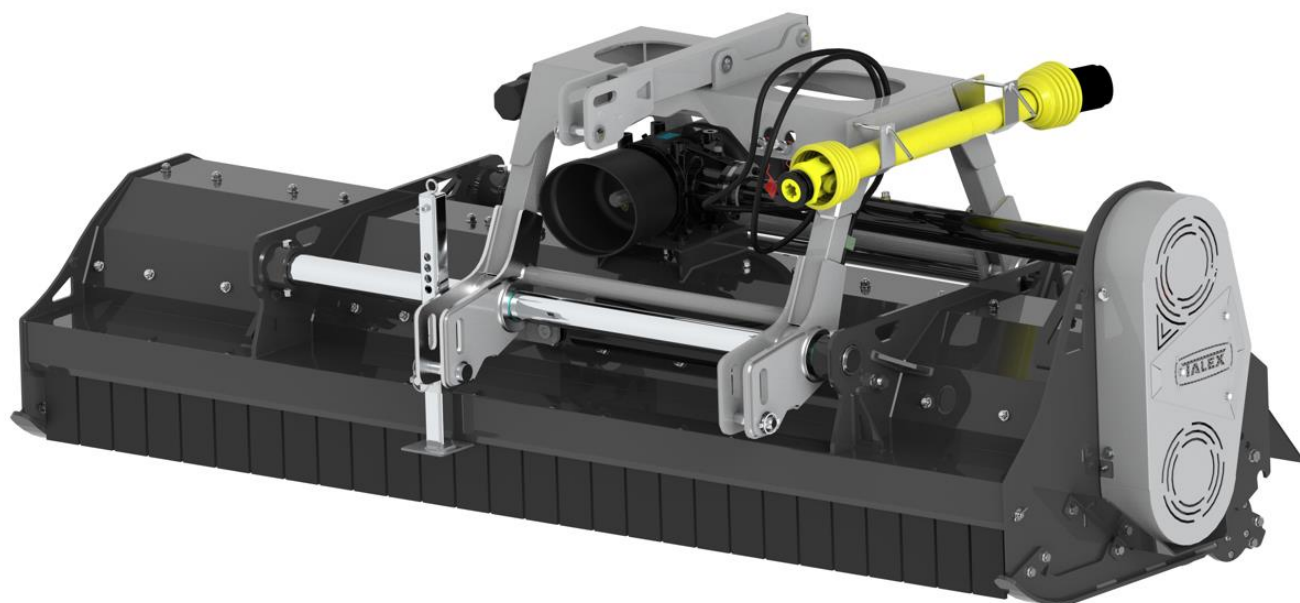




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INSTRUCTIONS MANUAL SPARE PARTS CATALOGUE WARRANTY



FLAIL MOWER TIGER



Borzytuchom 2024 – Revision 03

TRANSLATION OF THE ORIGINAL INSTRUCTION



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CAUTION!

Before using the machine, please read thoroughly this User Manual and observe the safety instructions contained herein.

The instructions manual is a part of the basic equipment of the machine!

Keep the manual in a safe place, where it is available to the user and service technician through the entire life cycle of the machine.

In the event of its loss or damage, the user must acquire a new copy from the machine dealer or manufacturer.

In the event the machine is sold or made available to another user, the Instructions Manual must be attached with the declaration of conformity for the machine.

The manufacturer reserves its copyrights to the Instructions Manual.

Copying, processing of the Instructions Manual and its parts without the manufacturer's permission is strictly prohibited



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The manufacturer guarantees efficient operation of the machine, provided it is used in accordance with the technical and operating conditions specified in this INSTRUCTIONS MANUAL.

All faults revealed during the warranty period will be repaired by the Warranty Repairs Service. The expiration date of the warranty period is specified in the WARRANTY CARD.

The warranty does not cover parts and components of the machine subjected to wear and tear under normal operating conditions regardless of the warranty period, i.e.: bearings, cutting blades/hammers, aprons/protective covers, hydraulic hoses, etc.

The Warranty Service covers only instances such as: mechanical damage not caused by a fault of the user, production defects, etc.

If any damage results from:

- mechanical damage caused by a fault of the user or a traffic accident,
- improper use, adjustment and maintenance, use of the machine for a purpose other than intended,
- operating a damaged machine,
- repairs conducted by unauthorised persons or improper repairs,
- unauthorised changes to the machine structure,

the user may invalidate its rights to the In-Warranty Services.

The user is obliged to immediately report all identified faults and have them repaired, regardless of whether the damage is covered by the warranty or not. Special warranty terms and conditions are laid out in the WARRANTY CARD attached to the newly purchased machine.



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1. Machine Identification

All the information required for identification is provided on a nameplate attached to the body of the machine. It contains information such as: the name and address of the manufacturer, the year of manufacture, the serial number, the weight of the machine.



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Nazwa/Name:	TIGER
Typ/Type: 3.00	Nr seryjny/Serial No.: 000001
Masa/Weight: 1160 KG	Rok produkcji/ Year of production: 2024

Figure 1. Nameplate

If in doubt, any information about the machine and explanations of the instructions manual should be provided by the dealer or manufacturer.

Manufacturer address:

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2.Introduction



CAUTION!

This symbol warns of a hazard. The warning symbol indicates an important hazard information given in the Instructions Manual. Please read the notice, follow the instructions it specifies and take special caution.

2.1.*Read the instructions manual*



CAUTION!

Read the instructions manual
before use

The Instructions Manual belongs is a part of the equipment of the machine. Make sure that you have become thoroughly familiar with its content before starting any works with the machine.

This manual provides the user with information regarding operation, use and maintenance of the machine. It contains performance characteristics, requirements for safe and correct operation of the machine, allowing it to be used in the best possible way while retaining the maximum service life and reliability. Careful reading of the instructions manual will help to avoid accidents and enable long and trouble-free operation.

2.2.*Intended use of the machine*

The machine is designed for use in normal and standard agricultural use, i.e. for mowing and shredding of short-stem plants (bushes, plant stems, etc.).

Using the mower for other purposes will be considered as unintended use,

which excludes the manufacturer's liability for the resulting damage.

- The machine can be operated only by persons who have been properly trained and made themselves familiar with the instructions manual and hold the required licence to drive the vehicle coupled with the machine.
- The mower should be used in accordance with its intended use and should be maintained and repaired correctly.
- Observe the safety regulations provided in this manual, general occupational health and safety rules and traffic regulations.
- Observe the occupational health and safety rules while operating and maintaining the machine.
- Any unauthorised modifications made to the machine exclude the manufacturer's liability for any resulting damage.

2.3. *Warranty*

The warranty terms are provided in the warranty card. The operator of the machine is obliged to get thoroughly familiar with this operation manual. Failure to adhere to the correct operation rules leads to decreased efficiency of the mower, its breakdowns and loss of the warranty rights. The warranty rights will become invalid particularly if:

1. Mechanical damage caused by the machine being operated in the manner not compliant with the instructions manual is identified, particularly caused by mowing while driving backwards.
2. Repairs are carried out by workshops other than the seller's service station, the manufacturer's service station or service stations recommended by them.
3. Spare parts other than the genuine spare parts of the manufacturer have been used.
4. Unauthorised modifications of the design of the mower are prohibited.

3. Occupational health and safety technique

Most accidents which happen at work, during operation or transport result from failure to observe the basic safety principles. Therefore, it is important that every person in contact with the machine observes the basic safety rules referred to below in the strictest manner possible:

3.1. *Basic safety principles*










1. In addition to the recommendations contained in this manual, also observe the general occupational health and safety rules!
2. Follow the indications of warning inscriptions and symbols provided on the machine. This is for your safety!
3. Use of the machine without the required safety shields is prohibited; replace the damaged shields using genuine spare parts.
4. Before starting work using the mower, wait until the tractor's PTO reaches its rated speed. Do not exceed 1000 rpm.
5. Any work on the machine while moving parts are rotating is prohibited, it is essential to wait until said parts have stopped. Never wear clothing which might become entangled in/by the rotating elements.
6. Never leave the mower running and unattended.
7. Before starting the mower or while operating it, make sure that there are no persons or animals within the hazard zone. **Operation of the mower with bystanders present within a distance smaller than 50 m away is prohibited!**
8. It is forbidden to climb up the machine.
9. Fields and meadows should be cleared of stones and hard objects - larger stones need to be removed.
10. Do not operate the mower while driving in reverse.
11. Entering the area between the tractor and the machine is prohibited unless the mower has been secured against rolling down by engaging the parking brake in the tractor or putting wedges under the traction wheels.
12. The hydraulic lift lever of the tractor should be controlled only from the driver's seat position.










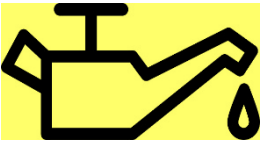



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13. It is not permitted to operate the lifting and lowering lever from outside the vehicle.
14. It is forbidden to lift the machine on the hydraulic lift of the tractor with the drive turned on and the working shaft rotating.
15. Take special care when working on slopes and hillsides.
16. Do not use sagging, unbuttoned pieces of clothing during work, fitting, adjustments, dismantling. Keep such clothing elements away from components that can catch them.

3.2. Safety signs on the machine

 <p>Read the Instructions Manual before operating the machine.</p>	 <p>Switch off the engine and remove the ignition key before any servicing or maintenance procedures.</p>	 <p>Keep a safe distance from the machine. Do not allow unauthorised persons within the range of 50 m from the machine.</p>
 <p>Note - belt transmission. Use extreme caution. Hand and arm entanglement.</p>	 <p>Caution - the user can be entangled by the machine</p>	 <p>Keep a safe distance from the machine. Crushing of toes or foot - Force applied from above</p>
 <p>Do not travel on platforms or ladders.</p>	 <p>Do not stand near tractor hitches while operating the lift.</p>	 <p>Do not open or remove the guards with the engine running</p>

 <p>Warning message about pressure in the hydraulic system.</p>	 <p>Keep clear of pressurised liquid leaks</p>	 <p>Caution - Mowing blades. Keep clear of the mower in operation</p>
 <p>Mower handles for use during transport</p>	 <p>Wear a protective suit</p>	 <p>Wear safety goggles</p>
 <p>Use hearing protectors</p>	 <p>Wear protective gloves</p>	 <p>Do not exceed the maximum speed</p>
 <p>Oil change point</p>	 <p>Lubrication point</p>	

3.3. Hazards associated with the operation of the shredder

No.	Risk	Hazard source (cause)	Risk preventive measures
1	Overloading the locomotor system (physical load)	Working in a standing position, inclined-forced position, walking, moving objects	Read and understand the Instructions Manual; do workplace training in carrying weights standards for the manual handling, correct methods of lifting and carrying loads, getting other persons' help, and the use of handling devices such as jacks and winches.
2	Fall on the same level (tripping, slipping, etc.)	Uneven terrain, messy environment – items lying and standing around, cables lying on communication routes, slippery surfaces	Suitable working footwear, levelled terrain, paying attention, maintaining order, reading the Instructions Manual
3	Hitting protruding parts of the machine	The machine and its surroundings	Proper positioning of the machine, safe space to move around, proper work organisation, paying attention, knowledge of the instructions manual
4	Struck by moving objects	Crushed plants, incidental part of the turf, stones thrown out by the machine	Maintaining caution, marking the danger zone, prohibition of walking in the immediate surrounding of the working machine, prohibition of staying under a suspended load – suspended machine, use of personal protective equipment (helmet, safety glasses), reading the instructions manual
5	Sharp, dangerous edges	Protruding parts of the machine structure, use of hand tools	Personal protective equipment – safety gloves, buttoned up work clothes, exercising special attention
6	Belt transmission systems	Fast moving transmission pulleys and belts, rotating jointed telescopic shaft, no covers on the movable parts	Prohibition of moving, approaching and making adjustments on the running machine, exercising caution, using shields of moving parts, reading the instructions manual
7	Oil-filled mechanical transmissions, hydraulic transmission systems	Fluids, hydraulic and lubricating oils, greases, temperature, leaks, slipping, burns, injections, sensitisation, poisoning	Extreme caution, use of personal protective equipment - safety shoes, gloves and goggles, safe positioning of the machine. Familiarisation with the user manual. Familiarisation with the material safety data sheets for oils and lubricants used in the operation of the machine.
8	Weight of the suspended stationary machine	Improper mounting or coupling, wrong position of the machine, improper operation, leaving the suspended machine on a tractor	Exercising special attention, use of personal protective equipment - safety footwear, safety gloves, secure position of the machine, help of others, use of lifting jacks and hoists, reading the Instructions Manual
9	Micro climate - variable weather conditions	Work carried out in different weather conditions	Suitable working clothes, drinks, sun screen creams, proper rest, knowledge of the instructions manual
10	Noise	Excessive rotational speed of the machine, damaged, loose, vibrating parts	Work only with the machine in good mechanical condition, regular inspections, correct rotation speed, knowledge of the instructions manual
11	Thermal hazards	Contact with heat source radiation. Engine cooling systems, engine exhaust system. Temperature of the hydraulic system. Fire caused by sparks ejected upon collision with stones and other items encountered along the machine's path of operation	Use of personal protective equipment, familiarisation with the instructions manual, special care. Temperature control of operating systems of the machine and the vehicle. Use of fire protection measures - essential vehicle/carrier equipment.

3.4. *Transport*

- Before the mower suspended on the tractor is set into the transport position, make sure that PTO is off and all rotating elements are at rest.
- Take special care while driving on public roads with the machine attached and follow the mandatory regulations of the highway code. In addition, a portable light-warning device and a warning triangle distinguishing slow-moving vehicles should be affixed during transport.
- Adjust your travel speed on the roads to current road conditions and according to common sense.
- Be aware that the machine extends beyond the outline of the tractor while traversing bends.

3.5. *Working elements of the machine*

- Before using the mower, pay attention to the condition of attachment of the cutting elements.
- Worn and damaged cutting elements and their attachments must be replaced immediately with original spare parts.

3.6. *Machines suspended on a three-point hitching system*

- Before suspending on or removing the mower from the three-point hitching system of the tractor, set the hydraulic lift lever in a position preventing unintended lifting or lowering of the machine.
- The categories of the tractor hitching system and that of the machine must be compatible.
- While the machine is in the transport position, always pay attention to the side stability of the connection between the tractor and the mower.
- While the machine is transported in the raised position, the hydraulic lift control lever must always be secured against lowering.

3.7. *Machine disconnected from the tractor*

Park the machine on a stable and even substrate, in a place protected from the weather and from outsiders.

3.8. *Work with jointed-telescopic shaft*

- Use only jointed-telescopic shafts supplied by the machine manufacturer or with similar characteristics.
- All installed shields of the jointed-telescopic shaft must be in good condition. Immediately replace the shaft shields when damaged.
- Install and remove the jointed-telescopic shaft only when the power transmission shaft is off, the motor is off and the key is removed from the ignition switch!
- Always make sure that the jointed-telescopic shaft halves overlap in the working position and the transport position as required by the regulations!
- Use the chain to prevent the shaft shield from rotating along with the shaft!
- Before turning on the power transmission shaft, make sure that the direction of rotations and the rotational speed of the power transmission shaft are compatible with the power take-off shaft rotations.

- Before turning on the power transmission shaft, make sure that no one is present nearby, within hazardous distance from the machine.
- Turn off the jointed-telescopic shaft when its operation is not necessary.
- After turning off the power transmission shaft, wait for the inertial rotation of the rotating weights to stop before anyone enters the hazardous zone.
- After disconnecting the jointed-telescopic shaft, slide on the shields again and put the shaft away in the designated location.
- If damage has occurred, it must be repaired immediately or the shaft replaced with a new one.

3.9.Operation

Carry out all repairs, maintenance and adjustments only with the drive disconnected, the engine switched off and the ignition key removed. Pay special attention to the hazards present while the machine is being switched from the working position to the transport position.



Use protective clothing and gloves while carrying out maintenance works - especially while replacing cutting elements!



It is forbidden to operate the machine on edges of streets, roads, public squares (parks, schools etc.) or stony terrain to avoid the hazard related to the stones and other objects being thrown.



All labels applied onto the machine must be legible. If any of the labels becomes damaged, the owner / user is obliged to replace it with a new one.

3.10. Technical specification

Type		Value
Minimum power requirement		120HP
3-point hitch category		II-front and rear
Power take-off speed of the vehicle		1000 rpm
Maximum capacity		2.8 ha/h
Working speed		3-10 km/h
Transport speed		20 km/h
Overall width [A]		3000 mm
Working width [B]		2800 mm
Height [C]		1140 mm-1195 mm
Lateral displacement [D]		500 mm
Length [E]		1285 mm
Weight		1160 kg
Number of V-belts		5 pcs.
The level of noise emitted by the machine	L _{pA}	92,9 ^{+2,1} ₊₀ dB
	L _{Amax}	103 ^{+2,6} ₊₀ dB
	L _{Cpeak}	128,6 ^{+2,6} ₊₀ dB
L _{pA} – The level of exposure to noise related to the 8-hour daily working time.		
L _{Amax} – Maximum sound measurement value.		
L _{Cmax} – Peak sound level.		

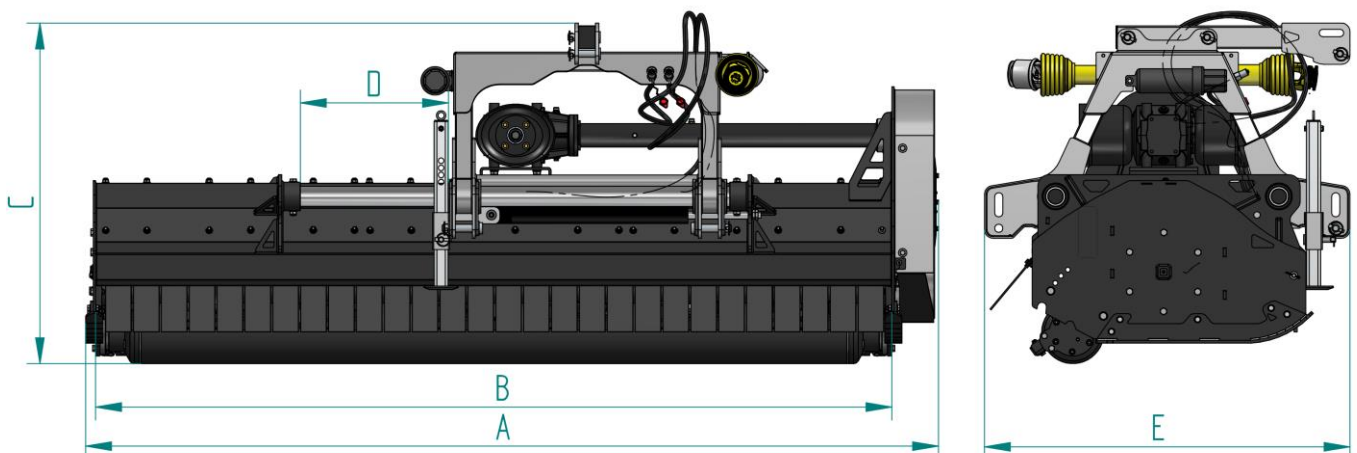


Figure 2. Basic dimensions

3.11. Design and operation

The Tiger flail mower is a machine which can operate in the front as well as in the rear of the tractor, using a sliding hitching system on both sides (1). The working shaft (2) is driven from the tractor's PTO via a jointed-telescopic shaft (3) connected to an angular gearbox (4), which further transmits the drive to a belt transmission (5). The working element of the machine consists of flails or knives mounted on the working shaft (2). It is housed in a body (8) supported on the ground by the driving shaft (6). The body and the working shaft are protected from undercutting by sliders (9). The sliders are not designed for permanent contact with the ground. Position the machine so that the sliders are parallel to the ground. The mower should move supported on the running shaft, not on the slides. It is possible to connect the machine to the front or the rear of the tractor, bearing in mind the input speed of 1,000 rpm and the correct direction of rotation of the working shaft, as shown in Figure 4. To improve the shredding of the mowed mass, the machine is equipped with 6 interchangeable counter-knives (7) mounted in two rows.

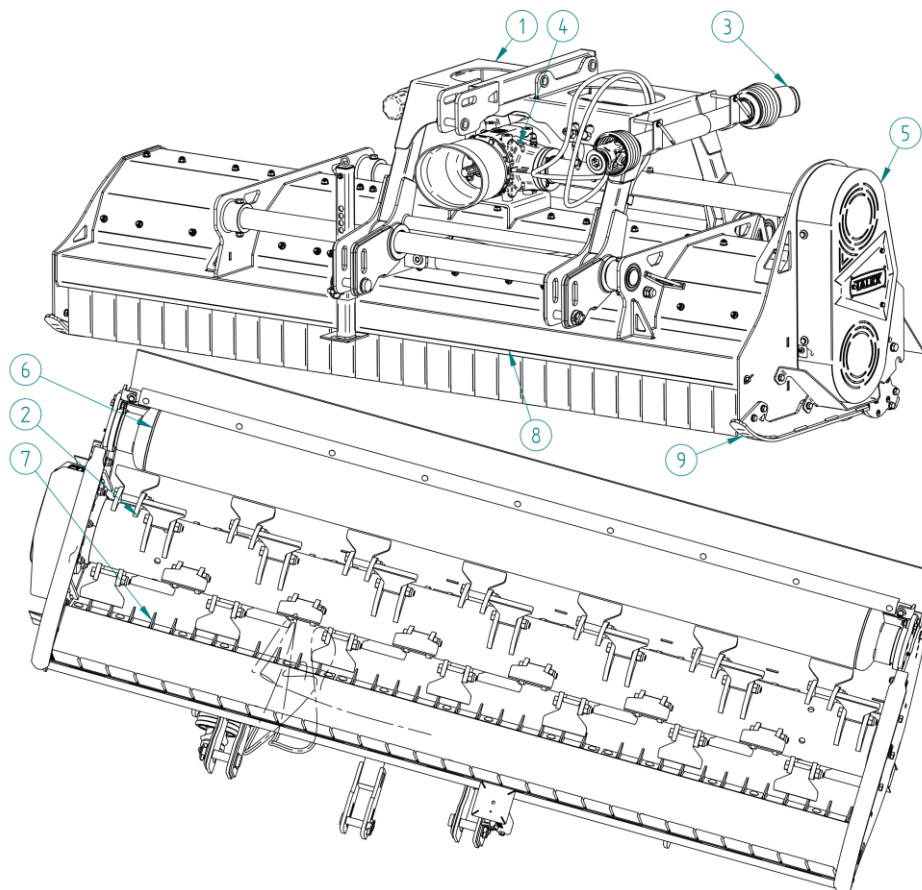


Figure 3. General design

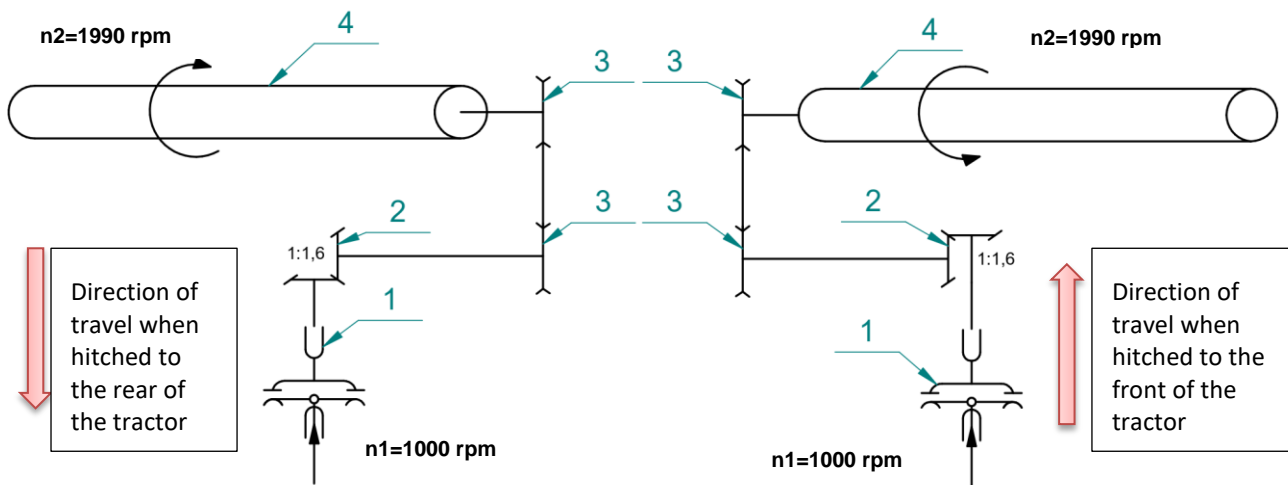


Figure 4. Direction of rotation of the working shaft

4.Operation

4.1.Hitching the flail mower onto a tractor.

The mower is designed for use with tractors equipped with a front and rear three-point hitching system. To change the connection from front to rear and vice versa, pull out the 2 pins (No. 1 in Figure 5) and reposition the central connector (No. 2 in Figure 5). After repositioning the connector, remember to secure the pins with a cotter pin.

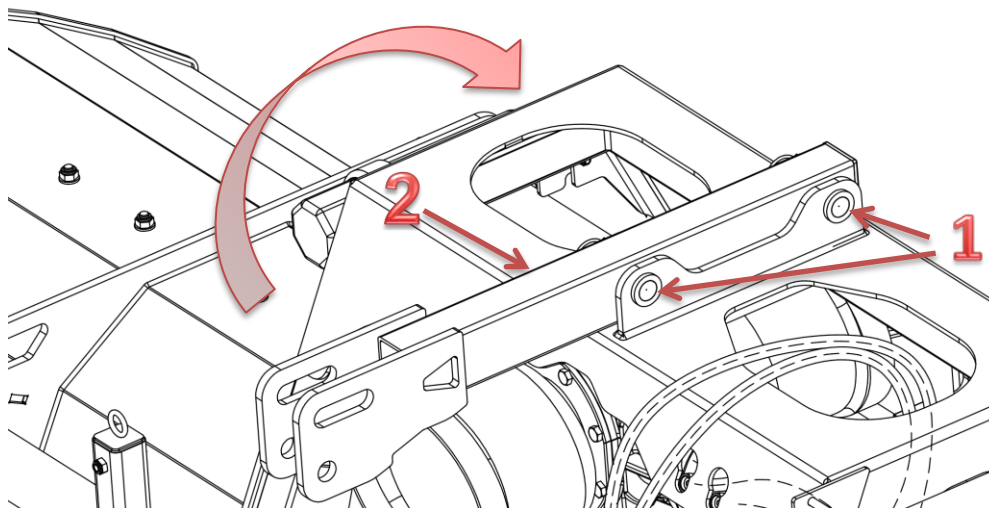


Figure 5. Changing the position of the central connector

4.2. *Transport and work in the front of the tractor.*

The mower is suspended on the tractor using its three-point linkage system: When transporting the machine, the lower hitches and the central connector must be hooked into the round holes as shown in Figure 6 and indicated by the arrow. The round holes should only be used during transport. Their use during operation may damage the connections.

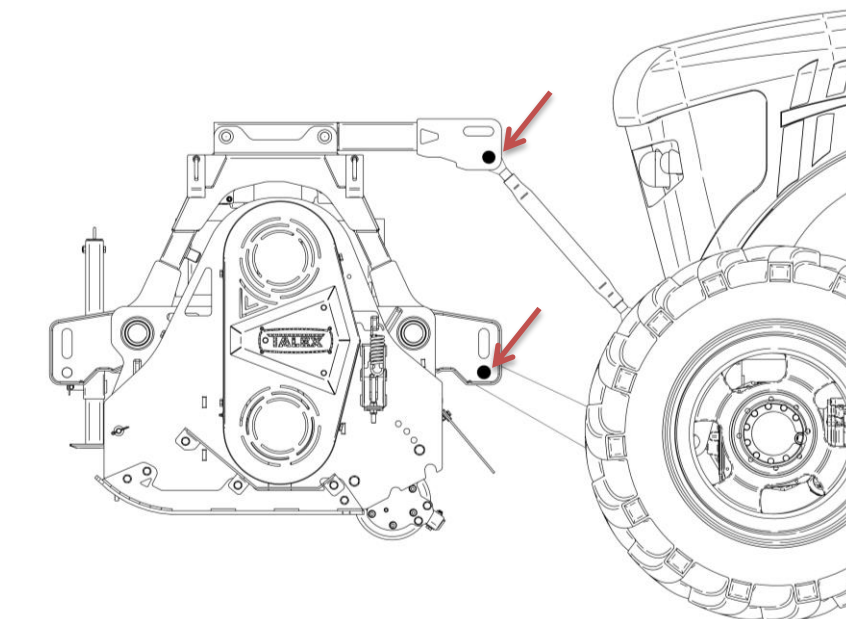


Figure 6. Transport position at the front of the tractor

When working in the front, the mower should be positioned so that the slides are parallel to the ground and the machine can freely pick out bumps. To do this, the central connector pin must be inserted into the elongated hole such that the pin is located at the end of the hole. The lower pins should also be placed in the elongated holes. Remember to secure the pins with cotter pins. The machine should be placed on the support foot for easier hitching and positioning. There are several holes provided in the support foot, facilitating machine positioning for work when adjusting the central connector (Figure 10).

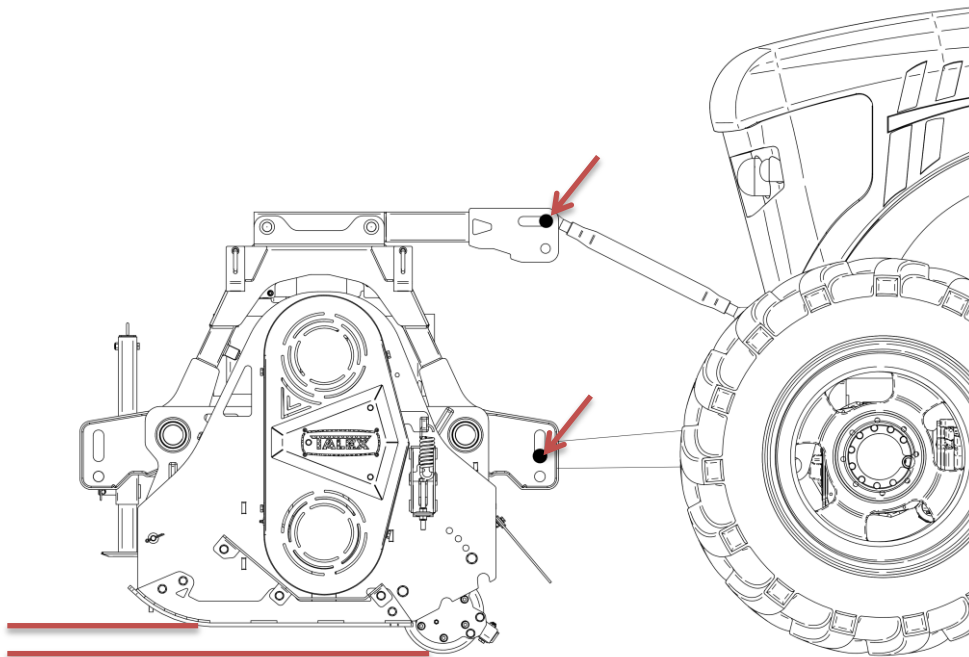


Figure 7. Working position in the front of the tractor

4.3. Transport and work at the rear of the tractor.

When transporting the mower at the rear of the tractor, the situation is similar to transport at the front, i.e. only use the round holes indicated with arrows in Figure 8 to transport the machine.

When changing the position of the hitching point from front to rear and vice versa, remember to change the position of the central connector, which is shown in Figure 5.

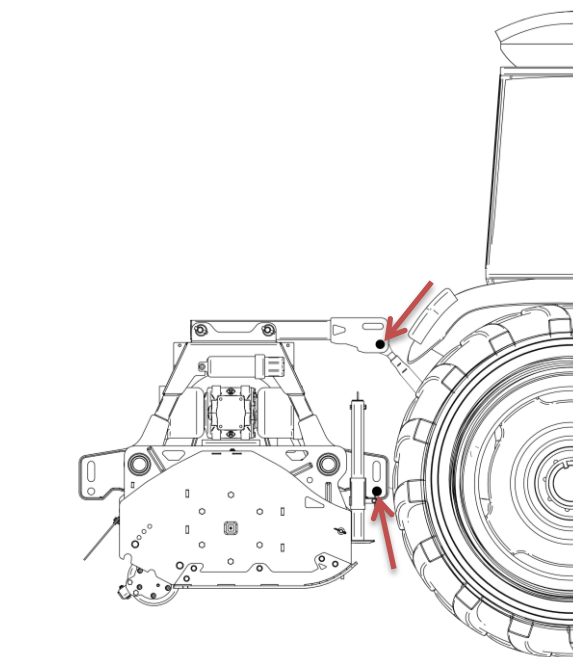


Figure 8. Transport position at the rear of the tractor

When working in the rear of the tractor, the mower should be positioned so that the slides are parallel to the ground and the machine can freely pick out the bumps. To do this, the central connector pin should be inserted into the elongated hole such that the pin is located in the middle of the hole. The lower pins should also be placed in the elongated holes. Remember to secure the pins with cotter pins.

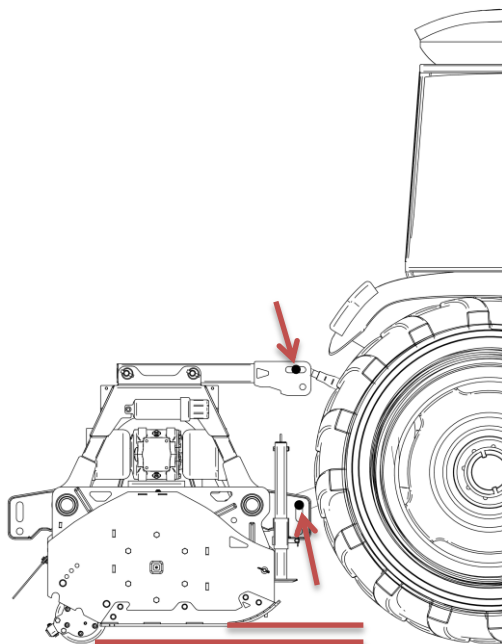


Figure 9. Working position in the rear of the tractor

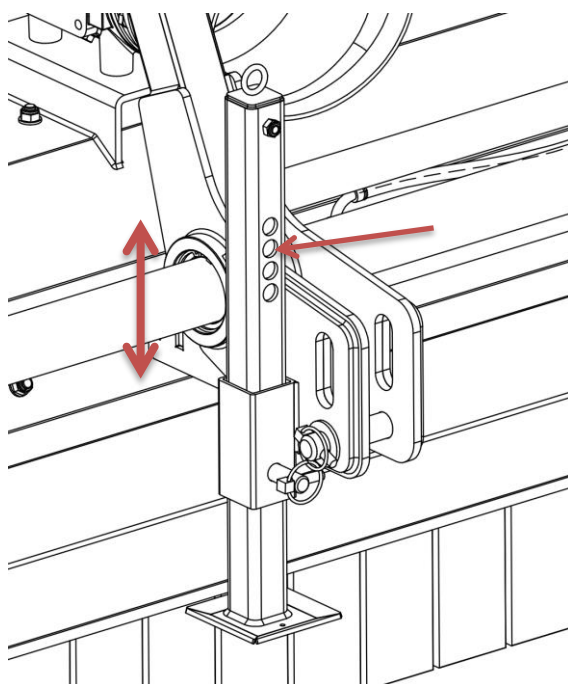


Figure 10. Setting the supporting foot

4.4. *Mowing height adjustment using the running shaft*

Changing the cutting height requires a change to the position of the running shaft. In order to do this, lift the machine, secure it against falling and moving. The shaft can be adjusted 4 stages by turning an M16 screw in 1 of the 4 holes. Start the adjustment by loosening the M16 screw marked "A" in Figure 11. The screw marked "B" must be unscrewed and inserted into the appropriate hole. The operations must be carried out on both sides of the shaft using the same holes. When repositioning the screws, remember that the shaft will fall down under its own weight and that it is necessary to support it to ensure safe handling. Repositioning the screw by 1 hole results in a cutting height change of approximately 18 mm.

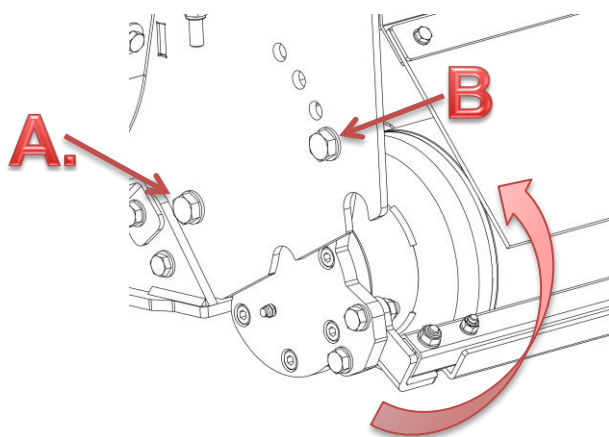


Figure 11. Driving shaft adjustment



-While switching the machine from the transport position to the working position and back, no one is allowed to stay in the zone of moving elements.

-When adjusting the machine, the tractor must be switched off, the ignition key removed and the parking brake applied.

4.5. *Operation*



The machine can be started once it is supported on the ground. It is prohibited to engage the drive when the machine is raised above the working surface and not resting on the ground. It is prohibited to lift a running machine on a hoist. Disconnect the drive and wait until rotation stops before lifting the machine.

It is also necessary to do the following each time before the work is carried out:

- Check the tensioning of V-belts.
- Check the general condition of the machine

5. Recommended machine operation

5.1. Oil change points

Change the oil in the angular gearbox at least once a year and it is recommended to change the oil in the drive shaft guard once every 2 years. The quantity of oil to be changed and its specifications are shown below:

	Oil quantity	Oil specifications
Gearbox	2.3L	GL-4 80W90
Drive shaft guard	1.4L	GL-4 80W140

The oil change points are indicated in Figure 12.

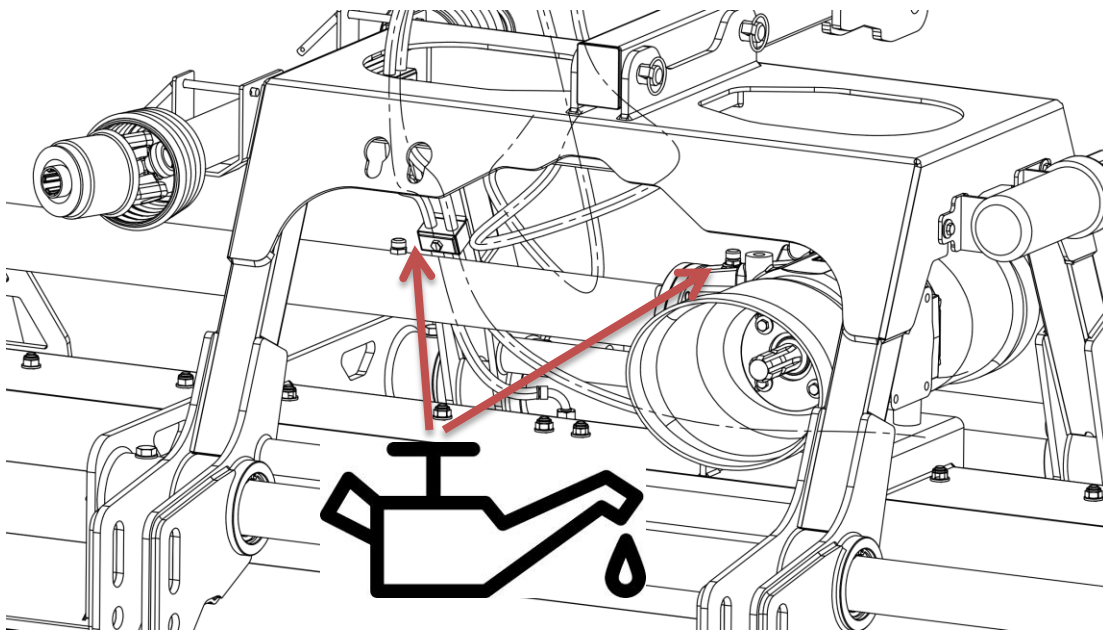


Figure 12. Oil change points

5.2. Lubrication points

To ensure the correct performance of the machine, it must be thoroughly and properly lubricated according to the lubrication diagram.

All points indicated in Fig. 13, equipped with ball type grease fittings, should be filled with solid grease ŁT43 using of a lubricating gun. Lubricate the jointed-telescopic shaft after removing it from the machine. Lubricate the telescopic part of the shaft at least after 8 hours of operation - when the shaft is entirely moved apart and impurities have already been cleaned. Details of PTO shaft operation are contained in a separate manual supplied with it.

The figure below indicates the location and recommended operating time after which the indicated components should be lubricated.

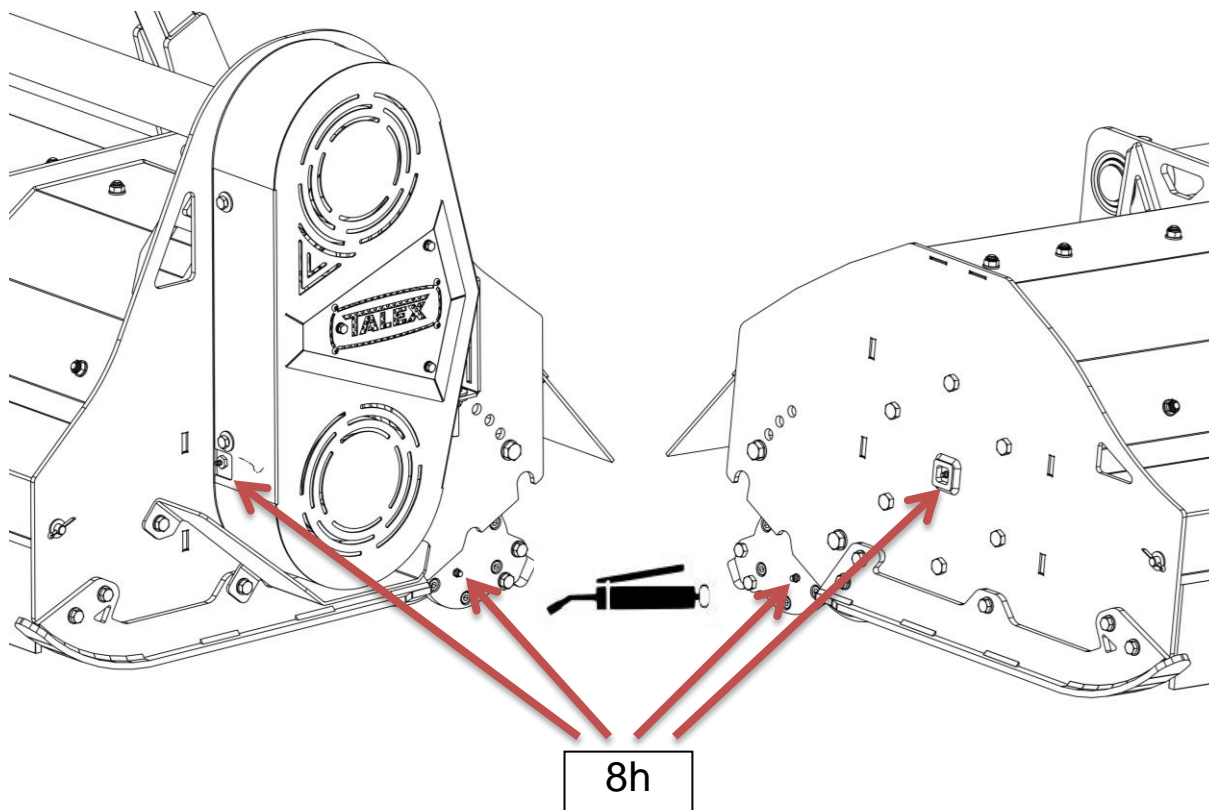


Figure 13. Lubrication diagram

5.3. *Tensioning of the V-belts*

To check the belts, the belt cover or at least the visor in the cover must first be removed. Correctly tensioned belts yield approximately 10 mm at a 8 kg (80 N) pressure, which is roughly equivalent to thumb pressure used if specialist belt tension gauges are not available.

To tension the straps, loosen the M12 nut marked "A" in Figure 14. Next, using the M12 nut marked "B", tension the belts so that the tensioner arm moves in the direction shown in the diagram. After completing the described steps, tighten both nuts and replace the cover.

To facilitate changing the belts, the tensioner can be locked in the top position by inserting a bolt or another tool into the hole marked as "C". When replacing the belts, check that the upper and lower pulleys are aligned using a spirit level or other flat object.

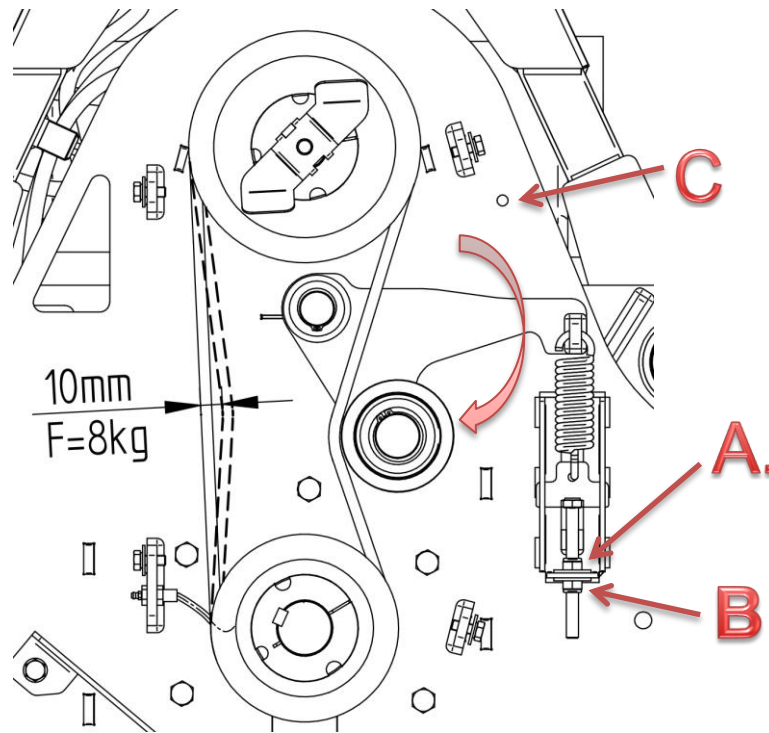


Figure 14. Belt tensioning diagram

5.4. *Flail replacement*

Depending on the customer's requirements, the working shaft is equipped with the appropriate equipment in the form of cutting tools. These tools are shown in Figure 15, where the individual components are numbered:

- 1-Fixtures on the working shaft welded to the shaft tube.
- 2-M20 self-locking nut (part no.: T000255)
- 3-knife spacer bushing (part no.: T001376)
- 4-knife (part no.: T000306)
- 5-25x20.5x18 bushing (part no.: T000862)
- 6-M20x120 special bolt (part no.: T000849)
- 7-hammer (part no.: T000226)

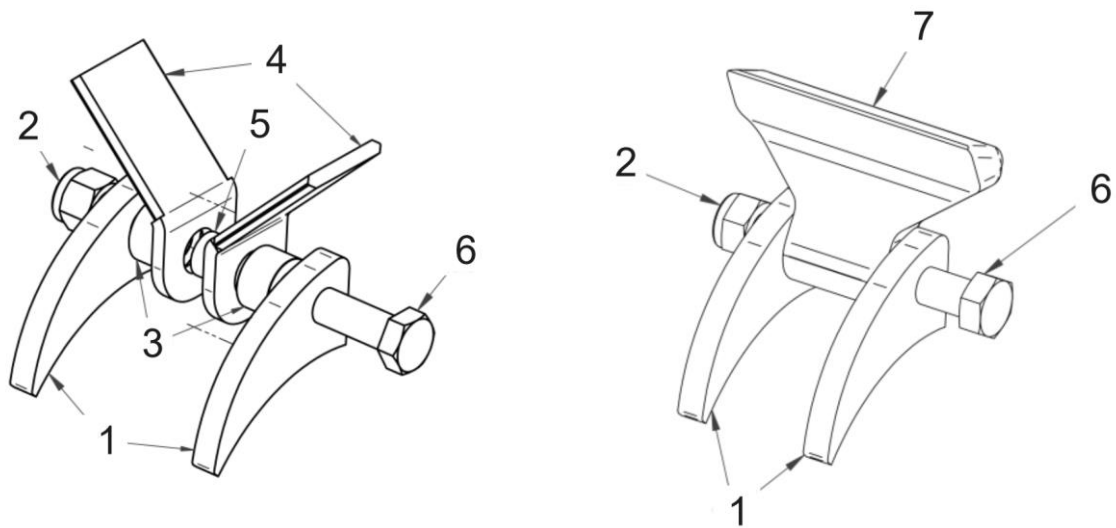


Figure 15. Cutting tool assembly



The cutting tools must be replaced if defects, noticeable signs of wear, blunting of the cutting edges, missing blades or hammers, or excessive play of the mounted tools are identified.

Maximum cutting tool play

Play	Nominal [mm]		Permissible [mm]	
	Blade	Hammer	Blade	Hammer
Transverse axial	0.2	0.3	0.5	0.6
Longitudinal axial	0.1	0.2	0.4	0.6

The cutting tools must be replaced in compliance with the specific safety rules.

1. Use only the original and functional parts for the cutting units.
2. Always replace full sets of tools. Remember to keep the uniform distribution of the rotating masses, to ensure the uniform wear of the tools.
3. The bolted connections need to be replaced with new ones each time the tools are replaced, paying attention to the resistance class of the bolt and the self-locking nut.
4. When tightening the bolt connection, pay attention to the free (without excessive play) rotation of the cutting tool in relation to the bolt axis.

In addition, as part of the overall service:



- V-belts and hydraulic lines should be replaced every 5 years.
- Check the condition of the belts and bolted connections after approximately 5 initial hours of operation. Check the condition of the bolted connections every 10 hours of operation.

-Clean the machine after each working day, especially the lubrication points.

6. Technical inspections, storage, disposal

Every day, at the end of work, clean the mower carefully and check its technical condition. Pay special attention to the condition of the hammers and knives. Damaged or worn parts must be replaced with new ones. Check all the bolted connections and tighten loose connections, according to the table of tightening torque values for bolts and nuts. If coating defects are identified, they should be remedied with a new coat of paint.

Tightening torque values for bolts and nuts

Strength	6.8	8.8	10.9	12.9
Metric thread	Tightening torque [Nm]			
M5	4.5	5.9	8.7	10
M6	7.6	10	15	18
M8	18	25	36	43
M10	37	49	72	84
M12	64	85	125	145
M14	100	135	200	235
M16	160	210	310	365
M18	220	300	430	500
M20	310	425	610	710
M22	425	580	820	960
M24	535	730	1050	1220

After the end of the operating season:

- carefully clean the machine,
- carry out technical inspection and replace the damaged parts with new ones available from the manufacturer,
- lubricate the machine according to the lubrication diagram (Fig. 13),
- remedy defects in the protective coating.



All repairs and replacements of parts of the mower drive system should be carried out by a proper workshop equipped with appropriate tools and instruments.

6.1. Storage

Store the mower in a dry place, sheltered from the weather.

The machine should be placed on a stable, level surface and protected against uncontrolled movement.

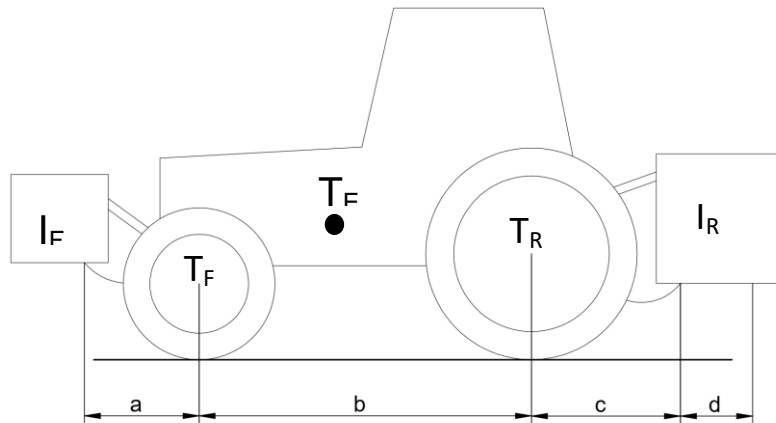
6.2. Dismantling and disposal

If the machine becomes worn to the extent which prevents its further use, it should be disposed of. This also applies to regular repairs and replacement of damaged parts. To do this, the machine must be thoroughly cleaned, its operating fluids removed and sent for disposal. Next, disassemble the machine by segregating its parts according to the materials used in them. The segregated parts should be taken to a recycling or a disposal centre.

6.3. Stability

In order to verify the overall stability, the following formula may be used to calculate the minimum additional front load $I_{F,min}$ expressed in kg, enabling the front axle load equal to 20% of the tractor weight to be achieved.

$$I_{F,min} = \frac{[I_R \times (c+d)] - (T_F \times b) + (0,2 \times T_E \times b)}{a+b}$$



Explanations:

T_E -empty tractor weight [kg]

T_F -front axle pressure, empty tractor [kg]

T_R -rear axle pressure, empty tractor [kg]

I_F -weight of the machine hitched in the front/front weights[kg]

I_R -weight of the machine hitched in the rear/rear weights[kg]

a-distance between the centre of gravity of the front-hitched machine/front weights and the centre of the front axle [m]

b-tractor wheelbase [m]

c-distance between the centre of the rear axle and the centre of ball joints of the rear suspension [m]

d-distance between the centre of the rear suspension ball joints and the centre of gravity of the rear-hitched machine/rear weights [m]

7. Spare parts catalogue

SPARE PARTS ORDERING PROCEDURE

Each order form should include the following:

- address of the buyer,
- exact shipping address (place where machine is located or other means for delivery collection),
- terms of payment,
- serial number of the mower and the year of manufacture (acc. to the nameplate on the machine),
- spare part number,
- spare part name,
- number of parts ordered.



Spare parts must be ordered at the points of sale of the machines or from the manufacturer. Use only the original spare parts provided by the manufacturer, to guarantee safe and reliable operation of the machine. The use of not original spare parts or parts, which have been repaired, will render the warranty void.

The manufacturer reserves its right to introduce changes to the design of parts presented in the particular assembly drawings in this spare parts catalogue. Such changes may not always be updated in the Instructions Manual and in the spare parts catalogue. Individual drawings may differ from the actual look of the parts.

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ul. Dworcowa 9C

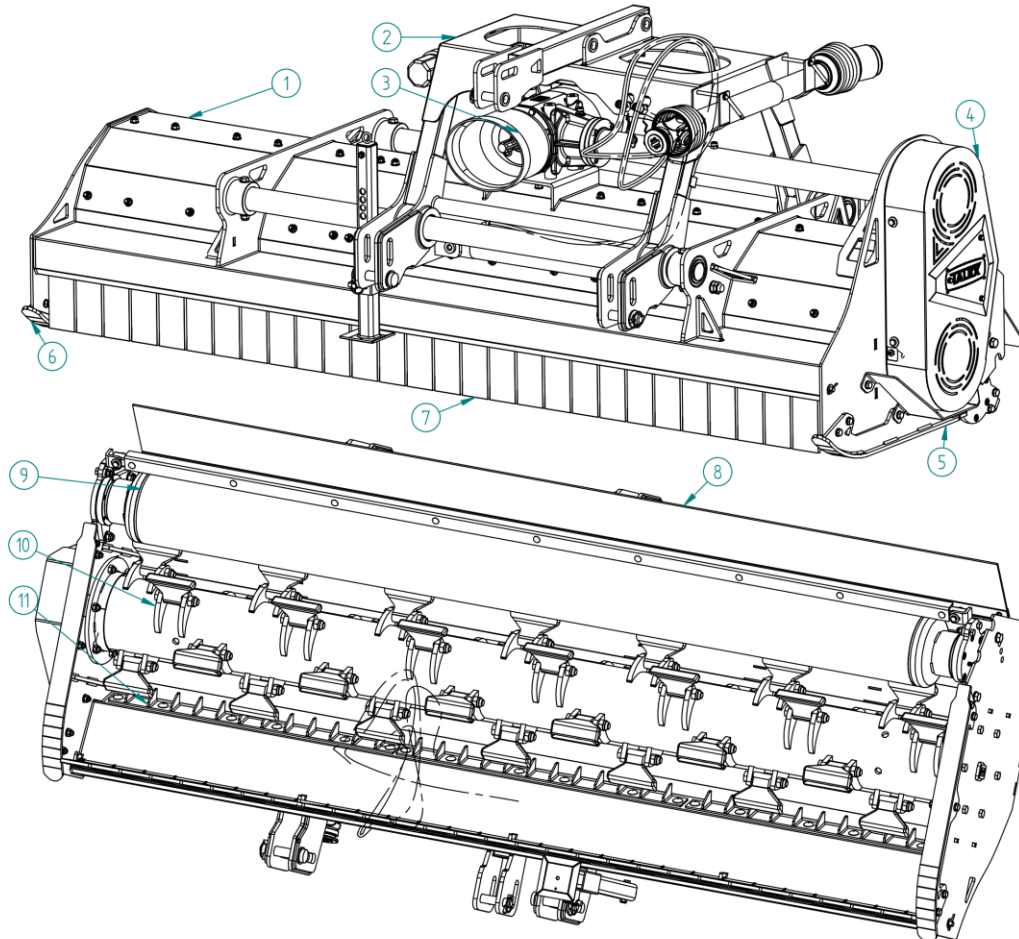
77-141 Borzytuchom

Phone: +48 59 821 13 40

www.talex-sj.pl

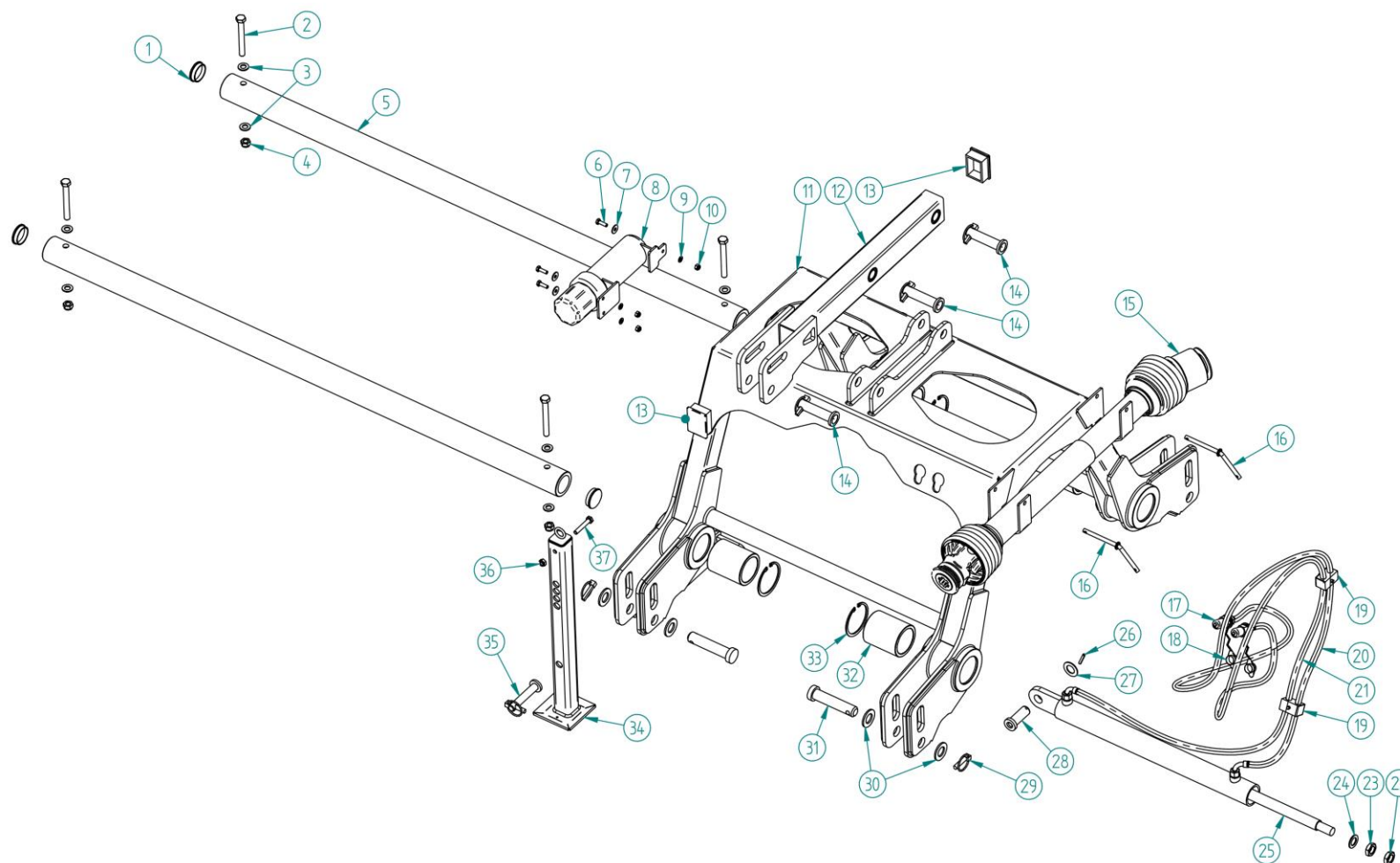
E-mail: biuro@talex-sj.pl

7.1. General design



Item	Name	Index/Section	Qty
1.	Body	P301000	1
2.	Suspension	Section 7.2	1
3.	Drive system	Section 7.3	1
4.	Belt transmission shield	Section 7.4	1
5.	Left slider and slide buffer	Section 7.5	1
6.	Right slider	Section 7.6	1
7.	Front curtain	Section 7.7	1
8.	Rear curtain	Section 7.8	1
9.	Drive shaft and scraper	Section 7.9	1
10.	Working shaft	Section 7.3.2	1
11.	Counter blade	Section 7.10	6

7.2.Suspension



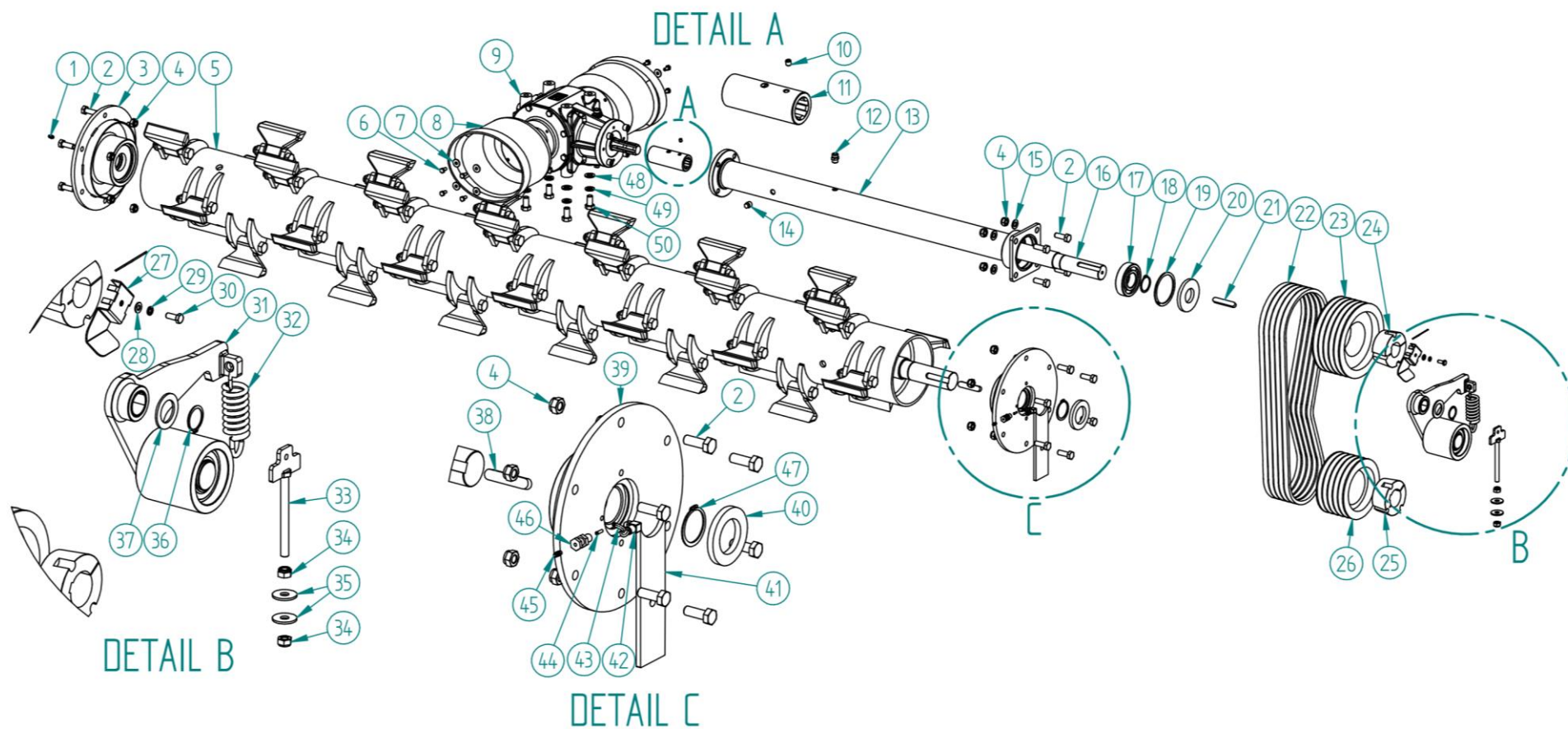
Item	Name	Index	Qty
1.	Lens cap 55x1-3	T003769	4
2.	Bolt M14x120 -8.8 GALV	T003760	4
3.	Flat washer M14 GALV	T000459	8
4.	M14 self-locking nut	T000293	4
5.	Guide	P301100	2
6.	Bolt M8x25 -8.8 GALV	T000805	3
7.	Extension washer M8 GALV	T000443	3
8.	Document holder	T000477	1
9.	Flat washer M8 GALV	T000471	3
10.	M8 self-locking nut	T000256	3
11.	Suspension	P301050	1
12.	Centre connector	P301065	1
13.	Cap 80x60	T003846	2
14.	Pin ø25 with cotter pin	P280053	3
15.	PTO shaft 1050Nm	T001065	1
16.	PTO shaft safety pin	P910210	2
17.	Quick connector M18x1.5-plug	T000995	2
18.	Plug cover	T000488	2
19.	Cable clamp 2x15	T000319	2
20.	Cable P51/P52 M18*1.5 2SN DN8 L-2800	T002254	1
21.	Cable P51/P52 M18*1.5 1SN DN8 L-3300	T000560	1
22.	Nut M22x1.5 GALV low	T000276	1
23.	Nut M22x1.5 GALV	T000277	1
24.	Flat washer M22 GALV	T000463	1
25.	Pneumatic	T003673	1
26.	Spring-type straight pin 6x40	T000087	1
27.	Washer M25	T000464	1
28.	Cylinder pin	P607109	1
29.	Universal plug	T000981	2
30.	Flat washer M27.	T000465	4



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31.	Cat. 2 lower pin	T001117	2
32.	Guide slide bushing	P301103	4
33.	Snap ring W90	T000429	4
34.	Support foot	P301038	1
35.	Pin $\varnothing 19$ with cotter pin	P570059	1
36.	M10 self-locking nut	T000292	1
37.	Bolt M10x60 -8.8 GALV	T000747	1

7.3. Drive system





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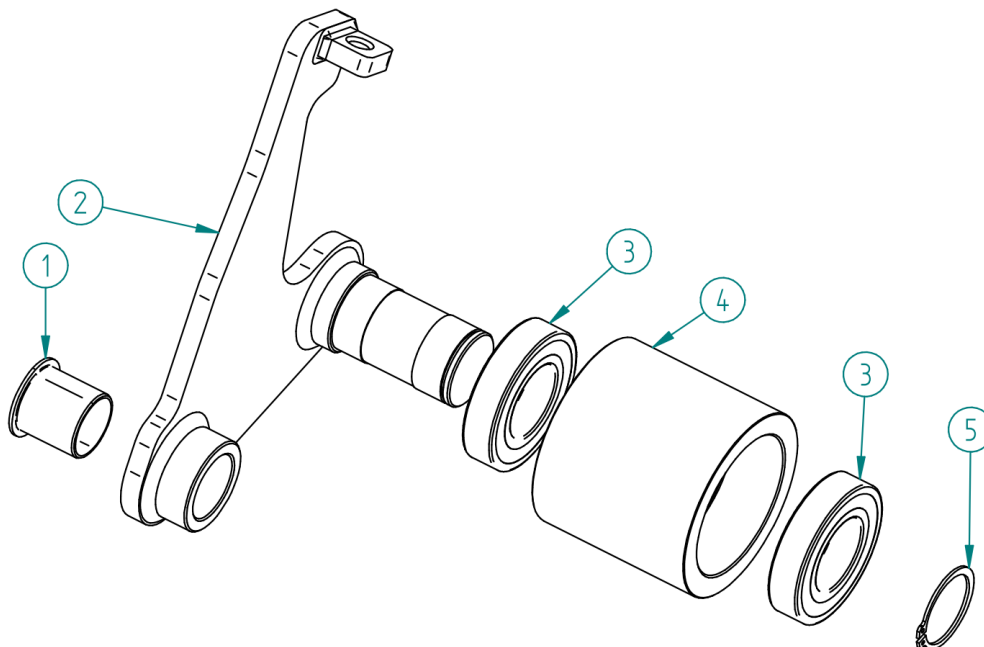
Item	Name	Index	Qty
1.	Grease nipple M8x1	T000647	1
2.	Bolt M14x40 -8.8 GALV	T000767	16
3.	Bearing housing, lower side set	P301141	1
4.	M14 self-locking nut	T000293	16
5.	Armed work shaft	P301300	1
6.	Bolt M8x16 -8.8 GALV	T000803	8
7.	Extension washer M8 GALV	T000443	8
8.	Guard with inspection hole	T000344	2
9.	Main gear	T003781	1
10.	Grub screw M8	T000936	1
11.	Drive shaft connector	P540113	1
12.	Air vent	T000329	1
13.	Drive shaft guard	P301023	1
14.	Drain bolt	T000820	1
15.	Flat washer M14 GALV	T000459	4
16.	Drive shaft	P301104	1
17.	Bearing 6309	T003778	1
18.	Snap ring Z45	T000414	1
19.	Snap ring W100	T000405	1
20.	Seal 45x100x10	T003764	1
21.	Prismatic inlet 14x9x80	T003759	1
22.	V-belt	T003715	5
23.	Large pulley	T003743	1
24.	Bushing D45	T003745	1
25.	Bushing D55	T003744	1
26.	Small pulley	T003742	1
27.	Propeller	P301102	1
28.	Flat washer M8 GALV	T000471	1
29.	Spring washer M8 GALV	T000455	1
30.	Bolt M8x20 -8.8 GALV	T000804	1
31.	Belt tensioner cpl.	P301190	1



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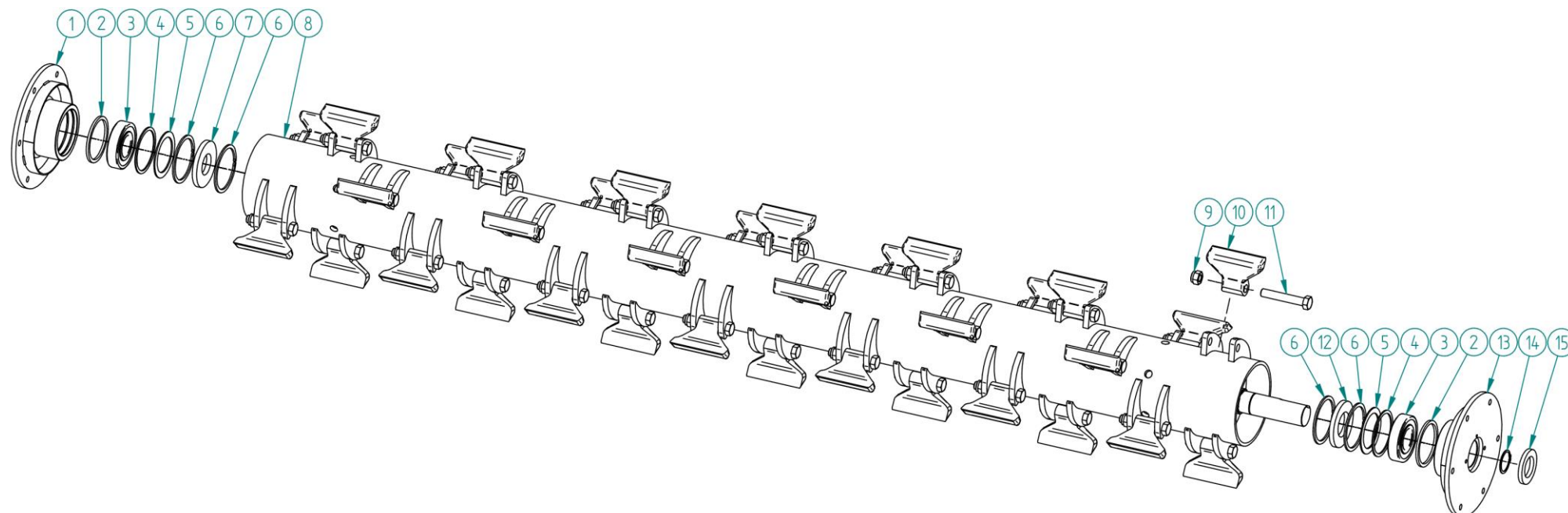
32.	Spring	T003785	1
33.	Spring tension	P301114	1
34.	M12 self-locking nut	T000291	2
35.	Extension washer M12 GALV	T000442	2
36.	Snap ring Z35	T000412	1
37.	Washer 35.5x55	P301117	1
38.	Prismatic inlet 16x10x80	T003758	1
39.	Bearing housing, higher side cpl.	P301142	1
40.	Seal 55x90x10	T003773	1
41.	Body cap	P301098	1
42.	Angle-swivel connector	T003763	1
43.	Lubrication line	T003576	0.12 m
44.	Insert sleeve	T003575	1
45.	Grease nipple M6x1	T000645	1
46.	Bulkhead connection	T003578	1
47.	Flat washer M16 GALV	T000460	4
48.	Spring washer M16 GALV	T000453	4
49.	Bolt M16x30 -8.8 GALV	T000779	4

7.3.1. Belt tensioner



Item	Name	Index	Qty
1.	Slide bushing	T003779	1
2.	Tensioner, main part	P301074	1
3.	Bearing 6209 2RS C3	T003766	2
4.	Tensioner roller	P301069	1
5.	Snap ring Z45	T000414	1

7.3.2. Working shaft



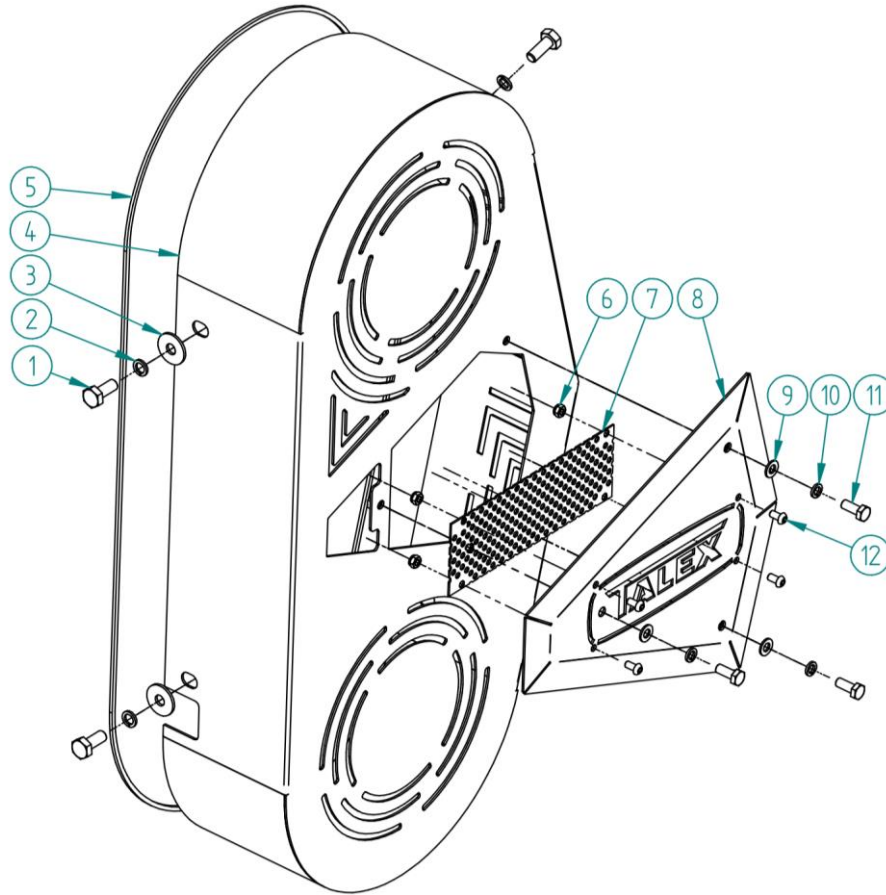


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Item	Name	Index	Qty
1.	Bearing housing, lower side	P301040	1
2.	Bearing washer	P301029	2
3.	Bearing 21311	T003767	2
4.	Spacer ring ø105	P301037	2
5.	Spacer ring ø92	P301036	2
6.	Snap ring W120	T003762	4
7.	Seal 55x120x12	T003776	1
8.	Welded working shaft	P301030	1
9.	M20 self-locking nut	T000255	40
10.	Hammer*	T000226	40
11.	Bolt M20x120-special version	T000849	40
12.	Seal 65x120x12	T003775	1
13.	Bearing housing, higher side	P301043	1
14.	Snap ring Z55	T000417	1
15.	Seal 55x90x10	T003773	1

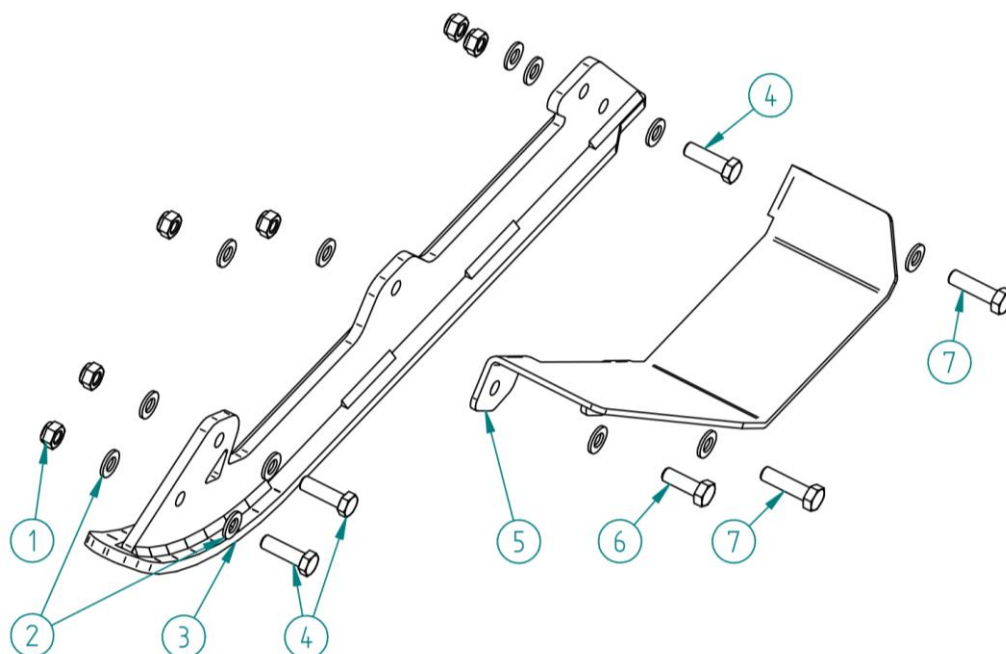
* as an alternative to the hammer, a set of knives is available, which includes: Knife spacer bushing (2 pcs., part no.: T001376), knife (2pcs., part no.: T000306), bushing 25x20.5x18 (1pc., part no.: T000862). See section 5.4 for details.

7.4. Belt transmission shield



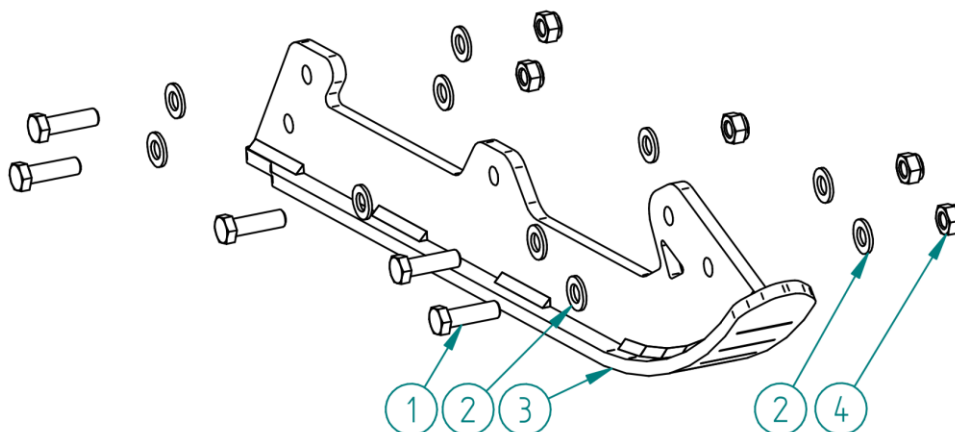
Item	Name	Index	Qty
1.	Bolt M10x25 -8.8 GALV	T000740	4
2.	Spring washer M10 GALV	T000450	4
3.	Extension washer M10 GALV	T000457	4
4.	Belt shield	P301090	1
5.	Edge protection	T000356	1.8 m
6.	M6 self-locking nut	T000297	4
7.	Perforated element, cpl.	P301113	1
8.	Sight glass	P301112	1
9.	Flat washer M8 GALV	T000471	3
10.	Spring washer M8 GALV	T000455	3
11.	Bolt M8x16 -8.8 GALV	T000803	3
12.	Cylindrical screw M6x12-8.8 OC	T000940	4

7.5. Left slider and slide buffer



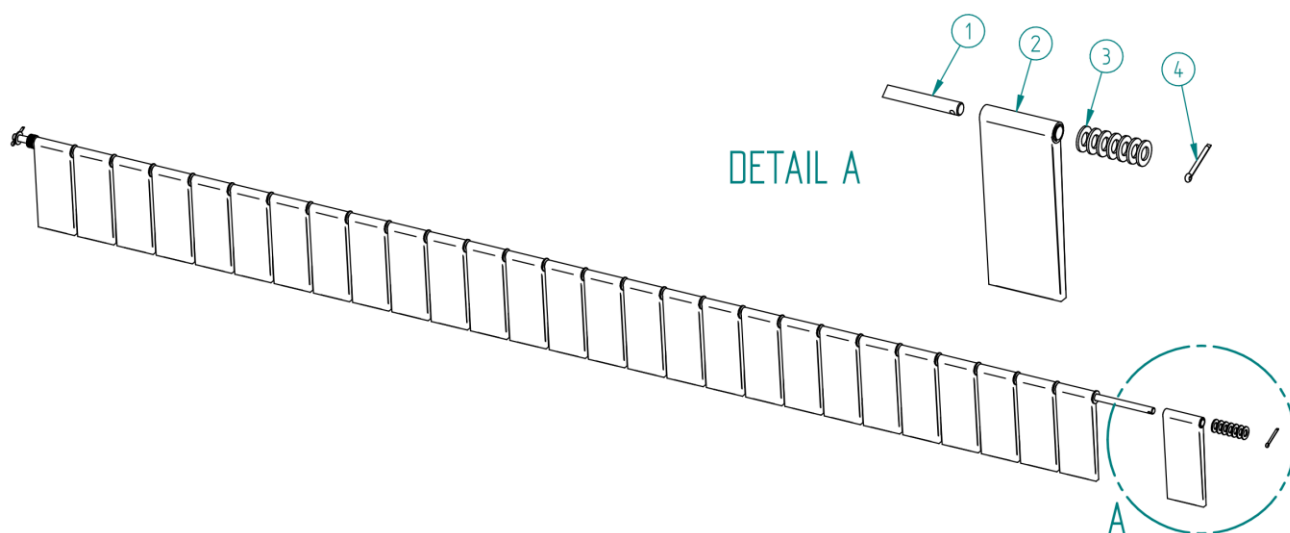
Item	Name	Index	Qty
1.	M12 self-locking nut	T000291	6
2.	Flat washer M12 GALV	T000458	12
3.	Left slider	P301070	1
4.	Bolt M12x40 -8.8 GALV	T000757	3
5.	Slide buffer	P301101	1
6.	Bolt M12x35 -8.8 GALV	T000756	1
7.	Bolt M12x45 -8.8 GALV	T000758	2

7.6. *Right slider*



Item	Name	Index	Qty
1.	Bolt M12x40 -8.8 GALV	T000757	5
2.	Flat washer M12 GALV	T000458	10
3.	Right slider	P301073	1
4.	M12 self-locking nut	T000291	5

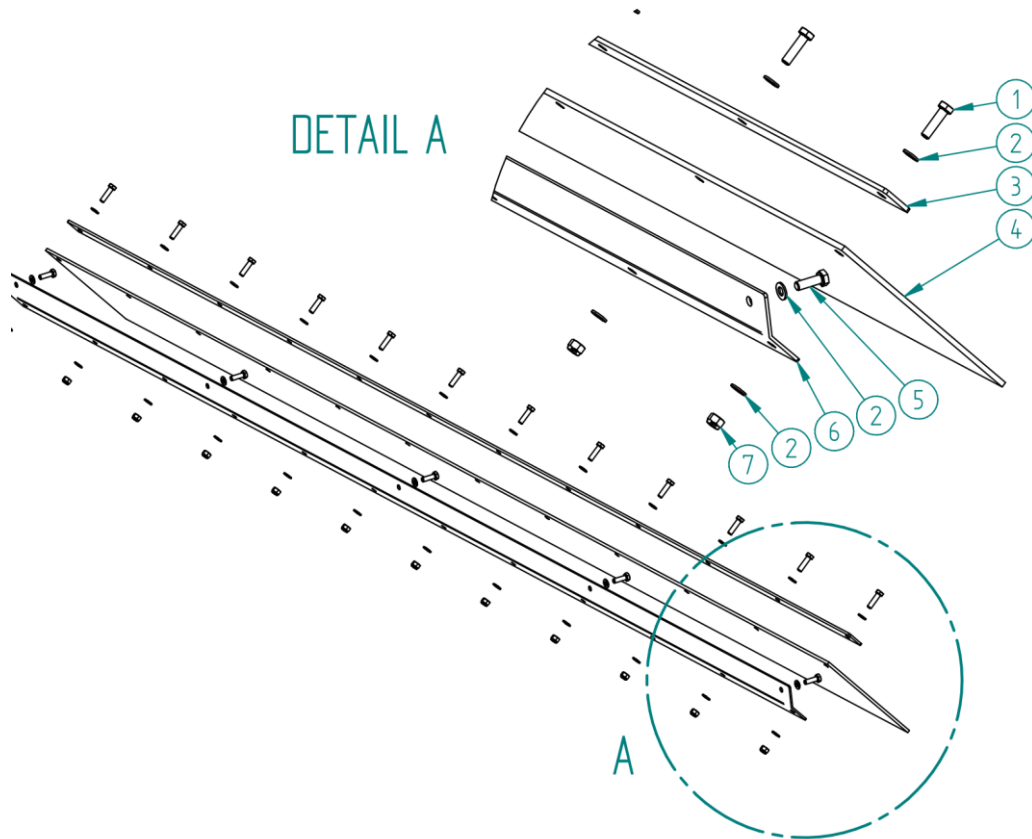
7.7. Front curtain



Item	Name	Index	Qty
1.	Front curtain rod	P301079	1
2.	Curtain protector 90x210	T003807	28
3.	Flat washer M14 GALV	T000459	50*
4.	Cotter pin 5x40	T000985	2

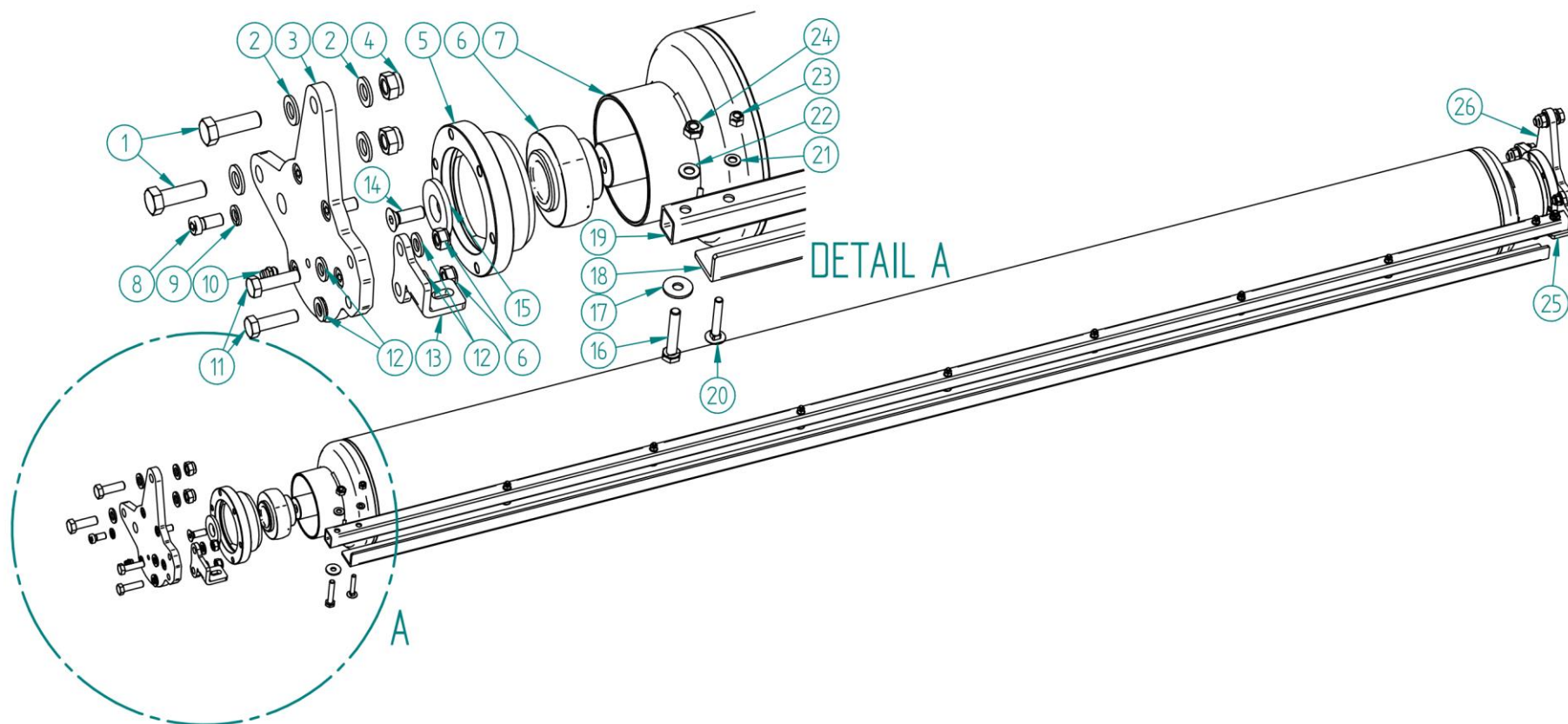
*quantity may vary, due to the need to adjust the curtain

7.8. Rear curtain



Item	Name	Index	Qty
1.	Bolt M8x30 -8.8 GALV	T000807	12
2.	Flat washer M12 GALV	T000471	29
3.	Rear curtain flat strip	P301097	1
4.	Rubber cover	P301096	1
5.	Bolt M8x25 -8.8 GALV	T000805	5
6.	Rear curtain angle profile	P301099	1
7.	M8 self-locking nut	T000256	12

7.9. Drive shaft and scraper

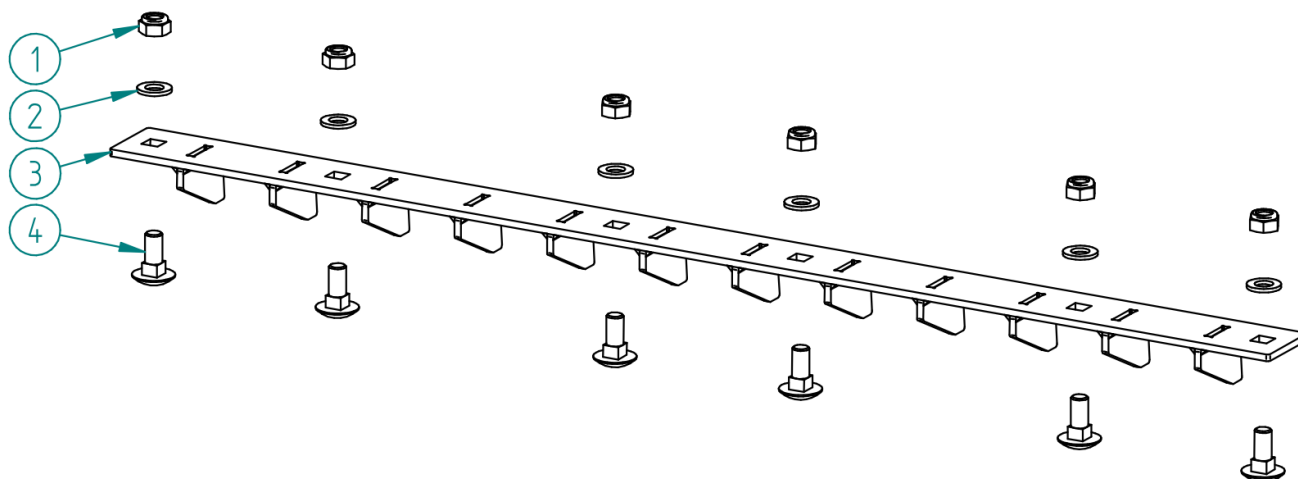




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Item	Name	Index	Qty
1.	Bolt M16x50 -8.8 GALV	T000781	4
2.	Flat washer M16 GALV	T000460	8
3.	Drive shaft fixture - left side	P301077	1
4.	M16 self-locking nut	T000294	4
5.	Bearing housing	P301106	2
6.	Bearing UC309	T003768	2
7.	Drive shaft	P301080	1
8.	Allen cap screw M12x25-8.8 GALV	T003529	12
9.	Spring washer M12 GALV	T000451	12
10.	Grease nipple M10x1	T000643	2
11.	Bolt M12x45 -8.8 GALV	T000758	4
12.	Flat washer M12 GALV	T000458	8
13.	Scraper fixture left	P301089	1
14.	Countersunk bolt M12x35-10.9 GALV	T002387	1
15.	Locking washer for the drive shaft	P301111	1
16.	Bolt M10x55 -8.8 GALV	T002282	2
17.	Extension washer M10 GALV	T000457	2
18.	Scraper - angle profile	P301105	1
19.	Scraper profile	P301088	1
20.	Lock bolt M8x50-8.8 GALV	T003761	9
21.	Flat washer M8 GALV	T000471	9
22.	Flat washer M10 GALV	T000456	2
23.	M8 self-locking nut	T000256	9
24.	M10 self-locking nut	T000292	2
25.	Right scraper fixture	P301118	1
26.	Drive shaft fixture - right side	P301078	1

7.10. Counter blade



Item	Name	Index	Qty
1.	M12 self-locking nut	T000291	6
2.	Flat washer M12 GALV	T000458	6
3.	Counter blade	P301020	1
4.	Lock bolt M12x30-8.8 GALV	T003765	6



8. Warranty

WARRANTY CARD

Serial no.	Type
Year of manufacture	Quality Control Department

Under the warranty, the manufacturer undertakes to repair, free of charge, any physical defects revealed during the warranty period, i.e. 12 months from the date of sale.

The manufacturer will be released from liability under the warranty in case of:

- Mechanical damage of the machine, which occurred after it had been delivered to the user;
- Improper use, maintenance, storage of the machine, in particular if not compliant with the Instructions Manual;
- Execution of any repairs by unauthorized persons and without the consent of the manufacturer;
- Introducing design changes without consulting the manufacturer;
- Transmission fitting cracks caused by the shaft run-out;

The warranty card is valid provided it has the vendor's signature and the date of sale certified with the company stamp. It must not contain deletions and amendments by unauthorized persons.

A duplicate of the warranty card may be issued upon a written request after presentation by the user of the proof of purchase.

In the case of an unjustified service call to warranty repair, the related costs will be borne by the user.

The user will file complaints within 14 days from the date of damage/defect directly to the vendor.

The manufacturer will carry out warranty repairs within 14 days from the date of the complaint.

The warranty will be extended by the repair time counted from the date of the complaint until to the date of completion of the service if the defect prevents the use of the machine.

The warranty does not cover components subject to natural wear and tear such as hydraulic hoses, plastic and rubber covers, sliders, working shaft, hammers, knives, copying shaft, belts, fasteners, bearings, bushings and sliding components.

Date of sale: _____
(day, month, year)

(signature and stamp of the point of sale)



WARRANTY REPAIRS RECORDS

Filled in by the manufacturer

Date of complaint claim: _____

The scope of repair and parts used: _____

Date of complaint processing: _____

Warranty extended until: _____

(signature and stamp of the service)

Date of complaint claim: _____

The scope of repair and parts used: _____

Date of complaint processing: _____

Warranty extended until: _____

(signature and stamp of the service)

Date of complaint claim: _____

The scope of repair and parts used: _____

Date of complaint processing: _____

Warranty extended until: _____

(signature and stamp of the service)

Date of complaint claim: _____

The scope of repair and parts used: _____

Date of complaint processing: _____

Warranty extended until: _____

(signature and stamp of the service)

Declaration of conformity WE

Within the meaning of the Machinery Directive 2006/42/WE, enclosure II, 1.A

Manufacturer: **TALEX Sp. z o.o.**

address: *ul. Dworcowa 9C 77-141 Borzytuchom*

The undersigned hereby declares that the product

Brand (trade name): *TIGER*

Function: *mowing grass, cutting weeds and brush; mulching and spreading shredded swaths (biomass), destroying crop residues, shredding cut brush*

type/model: *300*

serial number: *0001*

Meets the requirements of the following EU directives:

- **Machine directive 2006/42/WE** from 17.05.2006 r. (Dz.U. L 157 from 9.06.2006 r. p.24) and its modification 2009/127/WE from 21.10.2009 r. (Dz.U. L 310 from 25.11.2009 r. p.29).

Meets the requirements of the following harmonized standards:

- **PN-EN ISO 4254-1:2016-02** Agricultural machinery. Safety. Part 1: General requirements
- **PN-EN ISO 4413:2011** Hydraulic drives and controls – General rules and safety requirements for systems and their components
- **PN-EN 15811:2015-04** Agricultural machinery – Fixed and locked guards, with or without locking guards for moving transmission parts.
- **PN-EN 12100/2012** Machinery safety. General principles of design .Risk assessment and risk reduction
- **PN-ISO 11684/1998** Safety signs and hazard pictograms
- **PN-EN ISO 14120:2016-03** Machinery safety -- Guards – General requirements for the design and construction of fixed and movable guards
- **PN-ISO 17101-2:2017-04** Agricultural machinery specifications and acceptance criteria for the thrown-object testing of flail mowers used in agriculture.
- **PN-EN ISO 4254-12:2012** Agricultural machinery -- Safety -- Part 12: Drum, disc ,rotary and flail mowers

Meets the requirements of other applied technical standards and specifications

- **Welding manual** Welding instruction MIG/MAG 2022/08 edition 02
- **Painting manual** Painting manual, application of wet lacquered covers 2022/08 edition 2
- **KJ manual** Quality control manual 2022/08 edition 02

Conformity with directives and standards requirements was stated on the basis of tests carried out by the company:

SIMP Stowarzyszenie Inżynierów i Techników Mechaników Polskich w Gdańsku.

The tests were carried out by: M.A. Eng. Zbigniew Myszka –Expert SIMP Nr cert. 9763

Person responsible of preparing the technical documentation: *Karol Jaworski. Address: Dworcowa 9c, 77-141 Borzytuchom*

Karol Jaworski
PREZES ZARZĄDU

Borzytuchom,

2024 -07- 2 9

Place and date of issue

First name, surname and signature of person authorized by the manufacturer



(8)

Spółka z ograniczoną odpowiedzialnością
ul. Dworcowa 9C, 77-141 Borzytuchom
NIP: PL8420003742, Regon 770509121