GLOBUS

GTF 2550 / GTF 2750

User manual and spare parts

Underhaug

WELCOME AS A UNDERHAUG CUSTOMER!

Congratulations on purchasing a Globus product! Before using the equipment, we ask that you carefully read the user manual. You should keep this manual and pass it along if you sell the product to others.

Underhaug manufactures a wide range of products, including stone pickers, stone rakes, seeders, round bale forks, pallet forks, harrows, Cambridge rollers, crosskill rollers, snow blowers, potato machines, excavation buckets, quick coupler attachments, and other construction equipment for excavators.

If you would like to learn more about our products, you can visit our website at www.underhaug.no or contact us by phone or email.

Our goal is for you to be a satisfied Globus customer. To achieve this, we focus on quality and user-friendly products. In collaboration with our dealers, we aim to solve any problems that may arise and guarantee the supply of spare parts for 10 years.

Underhaug is a forward-looking company, and we are committed to continuous product development. We would appreciate receiving feedback from you as a customer. Both positive and negative experiences help strengthen our development and make our products better. Please feel free to send us ideas or suggestions for product modifications or additional equipment via email at arild@underhaug.no. All suggestions will be considered during future product upgrades.

We recommend that you fill out the necessary information about the product you have acquired in the table below. This will make it easier and faster to handle any inquiries for spare parts and/or additional equipment. It is also helpful in case of a product warranty claim.

Best regards,
Underhaug AS

PRODUKT INFORMATION:

Art. no.: (see type plate)	
Serial no.: (see type plate)	
Production year: (see type plate)	
Purchase date:	
Distributer:	

Underhaug AS
Rev. 1.1
01.01.2025

DECLARATION OF CONFORMITY

Producer: **Underhaug AS**

Address: **Torlandsveien 3**
4365 Nærbø

N-NORWAY

We hereby declare under our own responsibility that the following product:

Type: *Globus Snowblower GTF 2550*
Globus Snowblower GTF 2750

Serial No.:

Year of Manufacture: 2024->

covered by this declaration, complies with the following standards:

- **NS/EN ISO 13857: 2008**
- **NS/EN 13021: 2003 + A1: 2008**
- **NS/EN ISO 12100: 2010**
- **Directive 2006/42/EC**

Nærbø, October 1, 2024

Sales manager Arild Høien

CONTENT

2. SAFETY

2.1 User Manual
All users of the Globus Snowblower GTF 2550 and GTF 2750 must familiarize themselves with the content of the user manual before using the machine.

2.2 Caution
Ensure that no one is in the snowblower's throwing area. Snow, ice, stones, and other foreign objects thrown from the blower can cause damage to people, vehicles, buildings, and other objects. Adjust the throwing distance and direction using the speed, deflector, and nozzle rotation to avoid injury.

2.3 Risk of Pinching at the Nozzle
If the nozzle becomes blocked with snow, always disengage the PTO, stop the engine, and remove the key from the ignition before starting cleaning. If necessary, the nozzle can be tilted down, and the included cleaning rod should be used. Never insert hands or feet into the nozzle opening to clear it. Be cautious of the risk of pinching when tilting the nozzle back into position. The protective grill on the nozzle must always be installed and functional when the snowblower is in use.

2.4 Risk of Pinching at the Discharge Fan and Auger
Ensure that no one is near the snowblower when it is in operation. When the augers and fan are rotating, they pose a significant pinching hazard that can lead to serious injuries or, in the worst case, fatalities. Never be inside the opening at the front of the blower or near the nozzle opening with the PTO engaged. Always disengage the PTO and ensure the fan/augers have stopped before leaving the tractor's driver seat.

2.5 Risk of Pinching at the Power Take-Off (PTO)
Make sure that the protective cover around the PTO is always in place and secured with the provided safety chains to prevent rotation during operation. Avoid staying near the PTO when the PTO is running. If clothing or similar gets caught in a rotating shaft, it can result in severe injuries or, in the worst case, fatalities. For more information about the use and safety of the PTO shaft, refer to the separate user manual included with this product.

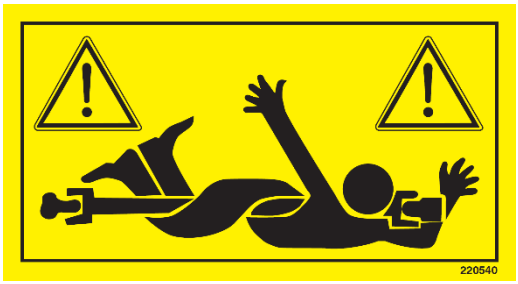
2.6 Repairs
Before any maintenance or repair work is carried out on the snowblower, always ensure that the engine is turned off and the key is removed from the ignition, or that the snowblower is disconnected from the tractor. Never position yourself underneath machinery that is hanging from the tractor’s hydraulics. Always ensure that the snowblower is mechanically supported properly before performing any work.

2.7 Hydraulic Pressure
The snowblower is equipped with hydraulics to operate the nozzle and the hydraulically operated side plates (if installed as optional equipment). Ensure that no one is near the machine when hydraulic functions are in use. Hydraulic oil under pressure can penetrate the skin and cause serious injuries and infections. Always wear eye protection/gloves and exercise caution when working with hydraulics. Seek medical attention if you sustain an injury.

2.8 Safety Labels
The Globus snowblowers are equipped with various warning labels that indicate actions that must be taken to avoid injuries and accidents. The symbols shown on the warning labels are placed at different locations on the machine.
These are depicted in the images below.

If the labels are removed or damaged, replacements can be obtained from the manufacturer or dealer.

The machine is designed for 1000 RPM.



Rotating parts.

Read the user manual.

Warning.

Always remove the key from the ignition during repairs.

22.9 Lifting Points

The snow blower body is equipped with lifting eyes marked with the symbol as illustrated. Please note that the GTF 2550 and GTF 2750 weigh approximately 1650 kg and 1750 kg, respectively. Always use straps rated for this total weight.

3 PRODUCT INFORMATION

3.1 Intended Use

The snow blower is supplied with an adapter for 3-point hitch attachment. The snow blower requires skilled operation, and the manual should be read before connecting and using, even if you have experience with similar machines.

3.2 Power Requirements

The snow blower is designed for tractors with approximately 130 hp. The drive system is protected by clutches between the main gearbox and feed screws, as well as a shear bolt coupling on the power take-off shaft.

3.3 Construction and Features

The Globus GTF 2550 and GTF 2750 are designed to handle the toughest conditions.
The snow blower is built on a strong main frame made of high-strength steel, and reinforced with a thick rolled chassis plate.

Feed Screw
The open feed screw facilitates snow passage and increases the blower's efficiency. It is made of Hardox and has a diameter of 85 cm. The shafts of the feed screws are secured with an automatic coupling/clutch on each shaft. The automatic couplings replace traditional shear bolts.

Gearbox
A gearbox in the center is geared 3:1 between the fan and feed screws, and approximately 1:2 between the fan and the power take-off. This means that 1000 rpm on the PTO gives 540 rpm on the fan and 180 rpm on the feed screw. The reduction in the gearbox makes the snow blower easier to operate without power loss while maintaining capacity. An additional reversing box is available as an option for running 1000 rpm on the fan side for front/rear operation.

Power Take-off Shaft
For 1000 rpm. Shear bolt M8x45 with standard 8.8 strength class. Note: Higher strength classes than specified could cause damage to the snow blower and/or power take-off shaft due to overload. Refer to the separate manual for the power take-off shaft.

Throwing Fan
The fan has a diameter of 85 cm and is positioned in the center of the snow blower. Its design ensures optimal throwing distance based on power requirements.

Chute
The chute has a rounded design that allows for smooth and easy snow passage. Hydraulic rotation and tilting are standard features, allowing for snow to be directed as needed. All screws on the moving parts of the chute are equipped with grease nipples to extend their lifespan. The chute is foldable for easy access during maintenance.

Replaceable Wear Blades
The Globus GTF 2550 and GTF 2750 come standard with replaceable wear blades made of Hardox 500. As an option, perforated wear blades can be supplied, providing less slippery surfaces.

Wear Shoe Adjustment
Sturdy wear shoes are located at the rear of the housing and can be easily adjusted to the desired height.

Adjustable Wheels
With a wheel set (optional), you can prevent snow from becoming slippery due to tracks left by the wear shoes, as well as make it easier to work on gravel roads. The wheels, with dimensions of 125/75-R8, offer continuous adjustment. If the wheel sinks into the snow, it will work in combination with the wear shoes, which will then support the snow blower.

3.4 Technical data

Model	GTF 2550	GTF 2750
Working width	235 cm	255 cm
Working width with solid side plates (Standard)	255 cm	275 cm
Working width with solid side plates and right edge cutter	278 cm	298 cm
Working width with solid side plates and right + left edge cutters	290 cm	310 cm
Working width with solid side plates and right hydraulic edge cutter	282 cm	302 cm
Power requirement rear-mounted	130 hp	130 hp
Power requirement front-mounted	160 hp	160 hp
Diameter of throwing fan	85 cm	85 cm
Diameter of feed screws	85 cm	85 cm
Weight (Approx.)	1650 kg	1750 kg
Weight of power take-off shaft	30 kg	30 kg
Power take-off shaft size	1 ¾”	1 ¾”
Chassis height	115 cm	115 cm
Chute height	235 cm	235 cm
Dept. incl. hitch	200cm	200cm

3.5 Additional Equipment

Available additional equipment for the Globus GTF 2550 and GTF 2750 is listed below.
Drawings and parts lists for each item can be found later in the manual.

Art. no.	Description	Add. info	Page
500940	Right Sideplate	For towing	-
500941	Side plate Left	For towing	-
130567	Complete Right Edge Cutter	20 cm increased working width	-
130566	Complete Left Edge Cutter	20 cm increased working width	-
129907	Complete Hydraulic Right Edge Cutter	27 cm increased working width	-
129913	Complete Hydraulic Left Edge Cutter	27 cm increased working width	-
124949	Wheel Set (2 wheels)	Complete with brackets 125/75-8	-
124962	Wheel (1 wheel)	Complete with bracket 125/75-8	-
500935	Front Mounting Kit Heavy Duty	Gearbox and power take-off shaft	-
500947	Right Edge Knife	For front mounting without side plates	-
500948	Left Edge Knife	For front mounting without side plates	-
140566	Spring Release Kit	For towing	-

4. ASSEMBLY AND CONNECTION

4.1 Assembly

The snow blower is delivered fully assembled and ready for use, unless otherwise agreed.
For practical reasons during transportation, the chute may be delivered disassembled or lowered.
The side blades are delivered unassembled for self-assembly unless otherwise agreed.
If the side blades are to be installed, please refer to the parts list for detailed drawings.

4.2 Adapting the PTO Shaft

Always use the PTO shaft provided with the machine. It is specifically designed to match the snow blower's power requirements and is equipped with an 8 mm 8.8 shear bolt to prevent damage to the machine or equipment in case of overload.

Note: It is essential to properly adapt the PTO shaft to the tractor and snow blower. Failure to do so can result in significant damage to both the tractor and/or the snow blower's gearbox.
Some tractors have a high-mounted PTO, which increases the angle of the PTO shaft and reduces its lifespan. The angle should be as small as possible, ideally not exceeding 25 degrees.

The following procedure is recommended to adapt the PTO shaft:
Mount the snow blower on the tractor without the PTO shaft. Ensure there is adequate clearance between the tractor and snow blower at all lift heights, including when the top link is in use.
Find the position where the distance between the splined pin on the snow blower and the tractor is shortest. Separate the PTO shaft and mount it on the profile pin, with the tubes placed side by side.
Mark the tubes for cutting and calculate a minimum of 15 mm clearance at the ends.
Check the longest distance between the splined pins. If this is the working position, the profile tubes should still overlap by half of the tube length.

Once this is completed, the PTO shaft can be cut. It is important to cut the same amount off both tubes. Separate the PTO shaft and insert paper towel inside the tubes before cutting. Shavings, burrs, and paper towel must be completely removed after cutting. Lubricate the profile tubes with grease. Once assembled, carefully check the alignment in all positions.

4.3 Connection

Ensure no one is between the tractor and the snow blower during connection.
Drive the tractor close to the snow blower and stop the engine before attaching the drawbar to the 3-point hitch. Use the tractor's stabilization arms to prevent uncontrolled side movements during operation.

Install the hydraulic hoses for the chute. Ensure that they are mounted in a way that prevents damage during use. Check that the hoses are intact and undamaged before activating the hydraulic functions.
Connect the PTO shaft to the snow blower first (direction indicated on the shaft) and then to the tractor. Secure the safety chain to prevent rotation of the protective cover. Ensure that the protective covers are intact and replace them if damaged. Follow the instructions for adapting the PTO shaft in section 4.2. Also, refer to the instruction manual included with the PTO shaft.

5. USER TIPS

5.1 Power Take-Off (PTO)

The snow blower is designed for a power take-off (PTO) that delivers 1000 rpm when mounted at the rear of the tractor. For front mounting, the snow blower is designed for a PTO that provides 540 rpm. However, it is recommended to use the reverse gearbox from the front mounting kit (available as an accessory) so that 1000 rpm is supplied to this gearbox. The driving speed and gear selection depend entirely on snow conditions and tractor type.
The PTO should only be engaged at low engine speed.

5.2 Adjusting Working Width/Depth

The working width of the snow blower can be increased by installing side blades (refer to technical data 3.4).
The right and left side blades increase the working width by approximately 20 cm each, thereby increasing the blower's stated working width. The side blades should only be used with mounted side plates, which provide working widths of 255 cm (GTF 2550) and 275 cm (GTF 2750).
The depth of the snow blower is adjusted using the skid shoes, which offer multiple options to achieve the correct height.
The wheels (see accessories in section 3.5) can be adjusted continuously with a mechanical linkage.
The top link is used to adjust the angle of the blower.

5.3 User Tips

- Prepare the road well before the snow arrives by removing stones and other foreign objects that could cause damage during snow blowing. Stones and debris entering the blower during operation can damage vital parts.
- Mark the road edge with snow markers if necessary and take note of the location of manhole covers.
- Equip the tractor with good chains or spike tires.
- Clear the entire road width during the first snowfall and create a smooth base. Do not wait until the snow depth becomes too large; instead, make multiple passes.
- Choose a speed that provides steady progress for the easiest operation.
- Do not force snow to be thrown unnecessarily far; lower the engine speed instead to achieve better fuel efficiency.
- If the snow blower becomes clogged with wet snow, keep the engine speed high from the moment you enter the snow until the blower is cleared.
- If the chute becomes clogged with snow, stop the fan before cleaning, and either disengage the PTO or stop the engine. Loosen the two screws at the bottom of the chute and tilt it down. Use the clearing rod provided with the snow blower to clean it.
- If pulling snow forward without throwing it, reverse the snow blower slightly before engaging the PTO.
- The chute is designed with a folding mechanism, allowing snow to be discharged in front of the blower if an obstruction is encountered, and then swivel back to normal after passing the obstacle.
- Good scraping against the ground can be achieved by adjusting the height of the skid shoes and/or wheels and the top link. It is not recommended to use the float position on a two-stage blower, as the top link should remain fixed to maintain even pressure on the scraper blade.
- Adjusting the angle of the snow blower depends on the application and individual preference. The optimal angle may vary between front and rear mounting of the blower.

6. MAINTENANCE

6.1 Retightening

After a few hours of operation with a new snow blower, all bolt connections should be checked and retightened where necessary. This should then be checked regularly.

6.2 Replacing Wear Blades

The main blade is reversible. The side wear blades can also be turned, requiring you to switch sides on them.
When the wear blades are worn down on both sides, they must be replaced before the wear extends to the blower housing.
The wear blades are bolted with M16x50 lock bolts, making them easy to replace.

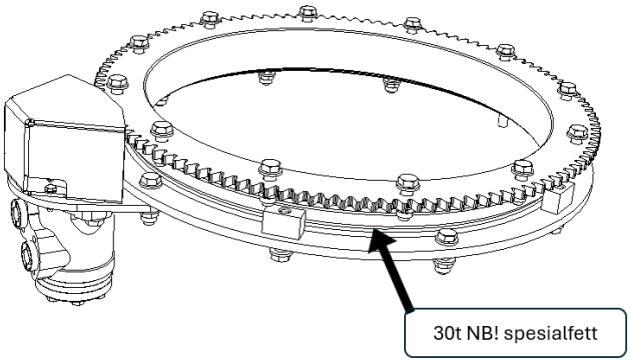
6.3 Color Code

The paint color code is RAL 3000.

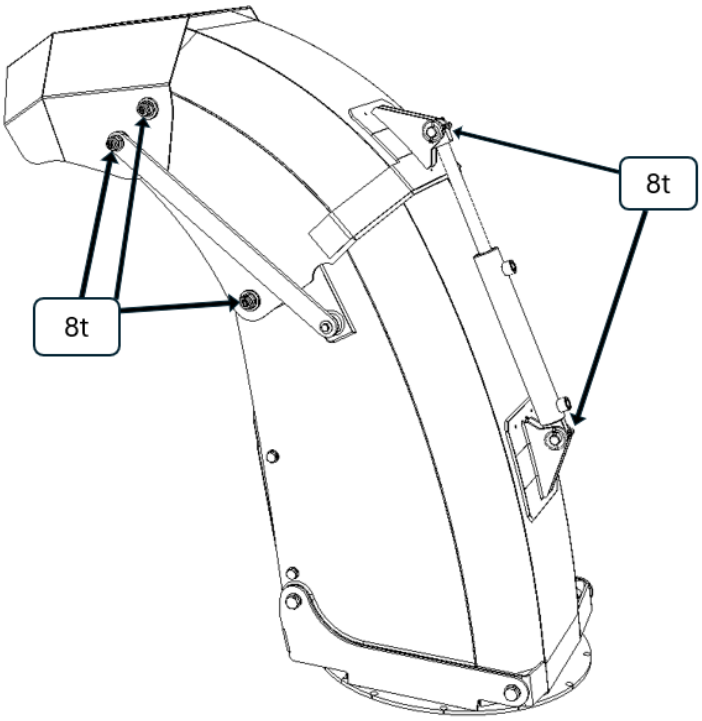
6.4 Lubrication Points

1. Swivel Ring
The swivel ring has one grease nipple and should be lubricated every 30 operating hours.

Note! It is important to use Omega 66 special grease or equivalent. This is due to its excellent properties at low temperatures, which is required for the swivel ring.



2. Chute
The chute has 8 grease nipples and should be lubricated every 8 operating hours.
Use universal grease, such as Statoil Uniway Li 62.

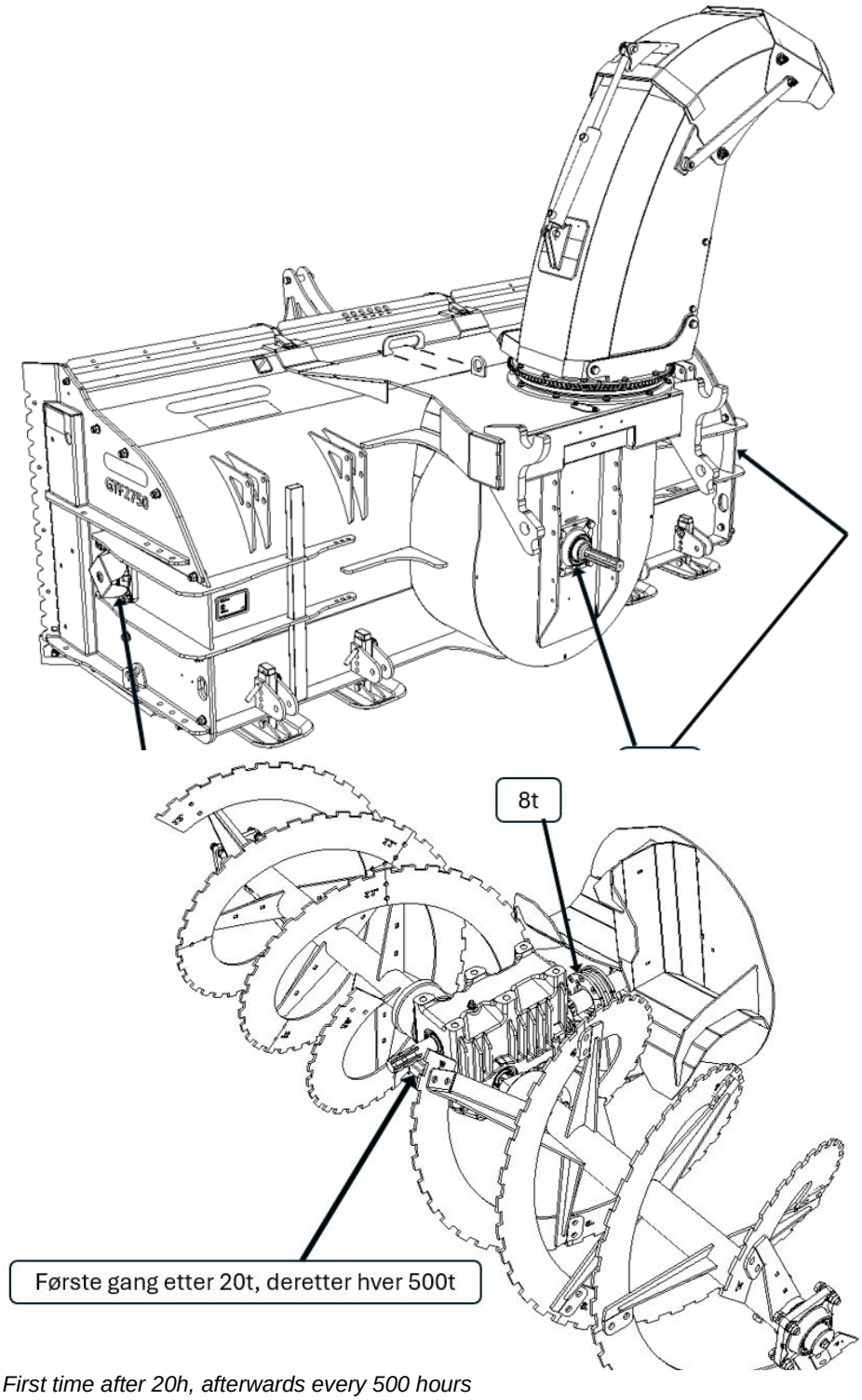


3. Lubrication Points - Drive System

The gear oil used in the distribution gearbox, mounted between the augers and the discharge fan, should be Texaco Meropa 320 or oil with equivalent specifications from another brand.

- The oil should be changed for the first time after 20 hours of operation, and thereafter every 500 hours.
- Regardless of operating hours, the oil should be changed annually.
- Oil quantity: 5 litres.

The power take-off shaft should be lubricated at 8-hour intervals.
For all other lubrication points, use universal grease, such as Statoil Uni-Way Li 62.



First time after 20h, afterwards every 500 hours

7. Warranty Terms

7.1 What is covered by the warranty

1. The warranty covers the repair of defects or malfunctions in the product or components included in the product. This applies to faults that can be traced back to production or material defects.

7.2 What is not covered by the warranty

1. The warranty does not cover third-party costs/consequences or operational downtime.
2. The warranty does not cover transportation of the product between the customer and the dealer for repairs.
3. The warranty does not cover consumables, including the PTO shaft.
4. Underhaug does not cover damage caused by improper use or excessive load beyond the product's intended purpose.

7.3 Length of Warranty

1. The warranty is valid for 12 months from the date of sale. The invoice date from the dealer to the customer serves as documentation for the sales date.
2. The warranty is limited to 24 months from the invoice date from Underhaug to the dealer.

7.4 Warranty Conditions

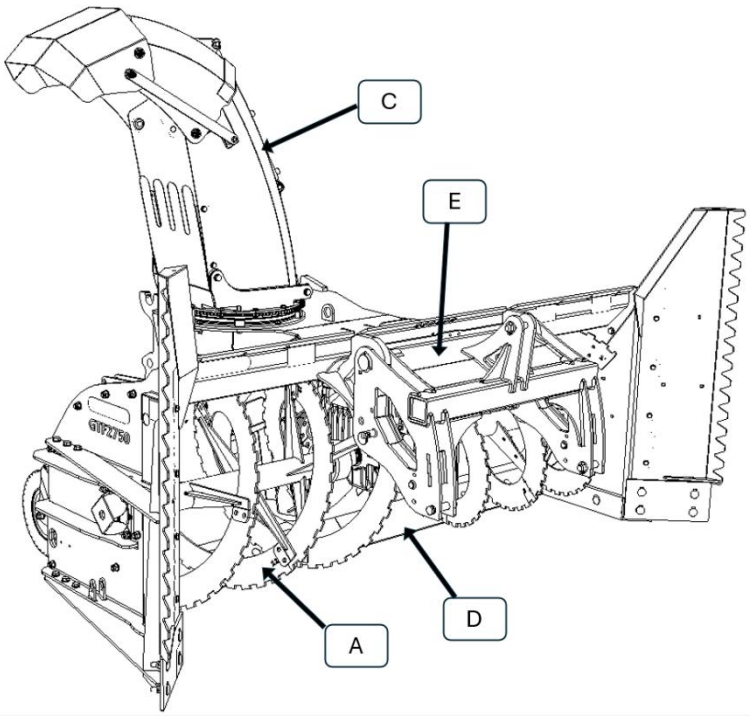
1. The warranty is void if the product fails or is damaged due to improper use or failure to follow the instructions in the user manual.
2. The warranty is void if the product is used for purposes other than those described in the user manual.
3. The warranty is void if non-original spare parts (including the PTO shaft) are used or if the prescribed maintenance for the product is not followed.
4. The warranty assumes that the service intervals specified in the user manual have been adhered to. The customer may be required to provide documentation of completed maintenance.

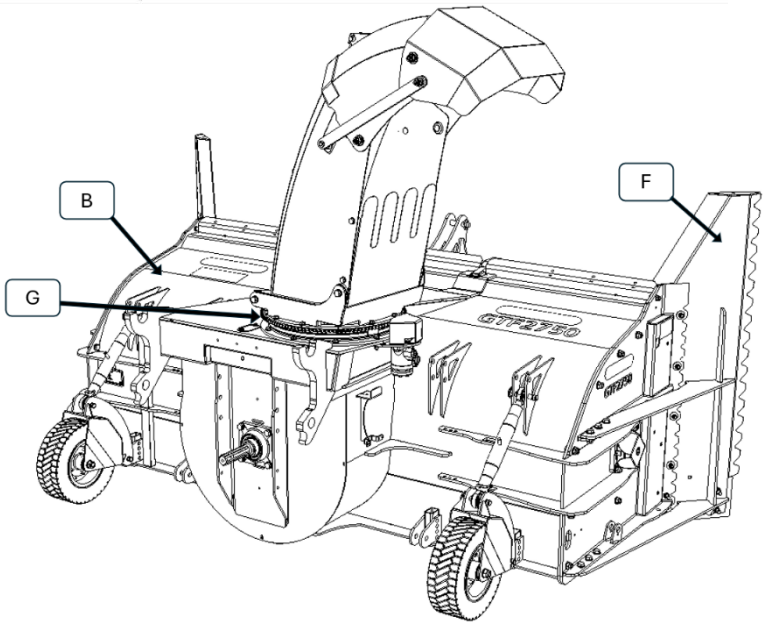
7.5 Extended Warranty

1. As long as the conditions mentioned below are met, the product is covered by Underhaug’s extended warranty for 3 years – 36 months from the sales date. The invoice date from the dealer to the customer serves as documentation for the sales date.
2. The warranty is limited to 48 months from the invoice date from Underhaug to the dealer.
3. The product must adhere to the recommended service intervals from Underhaug. This applies to machines sold from 2020. A minimum of one service per year at the dealer is required. This service must be completed before the season, and no later than 15th September.
4. The handover form must be sent to Underhaug no later than 1 month after the new product is handed over to the customer for the extended warranty to apply.

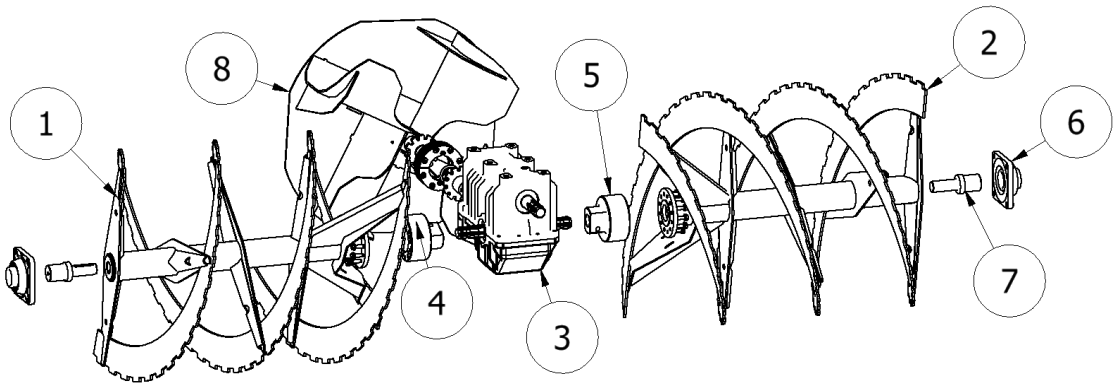
8 SPARE PARTS

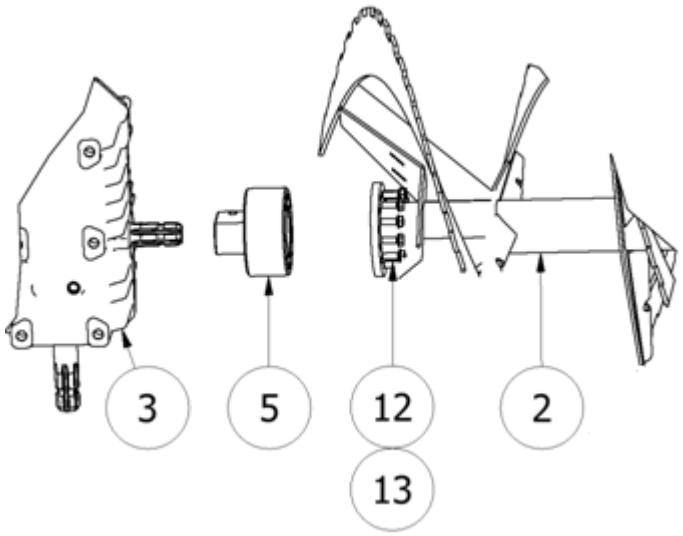
8.1 Contents

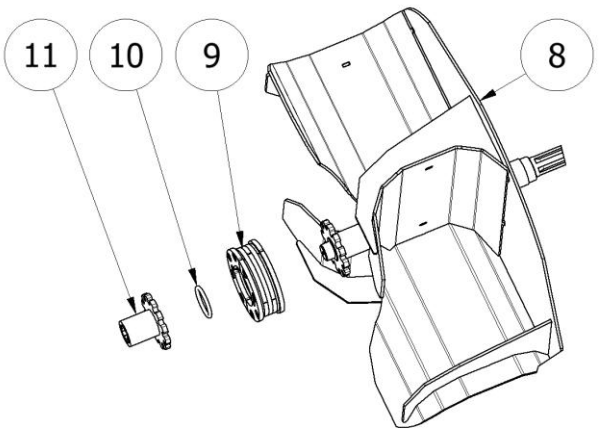




8.2 Screw, gear, fan

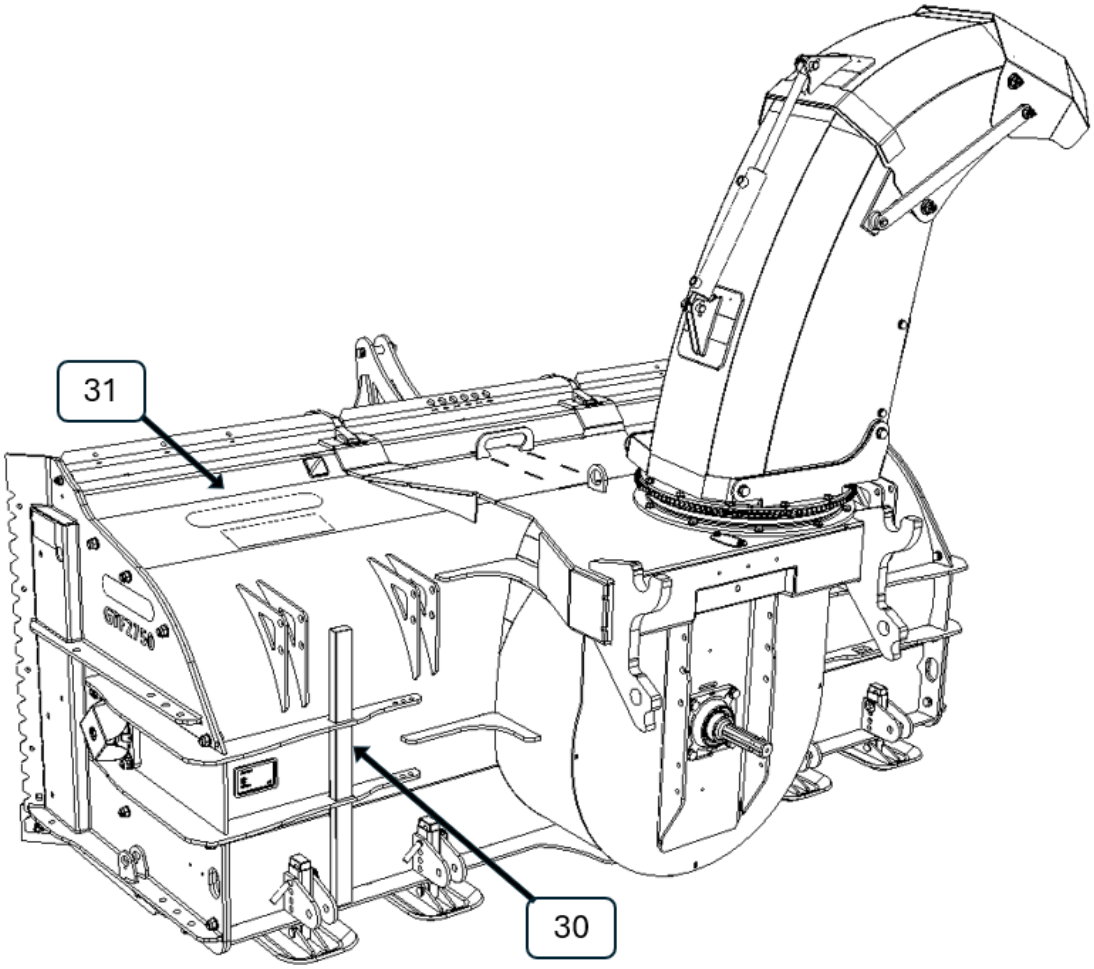






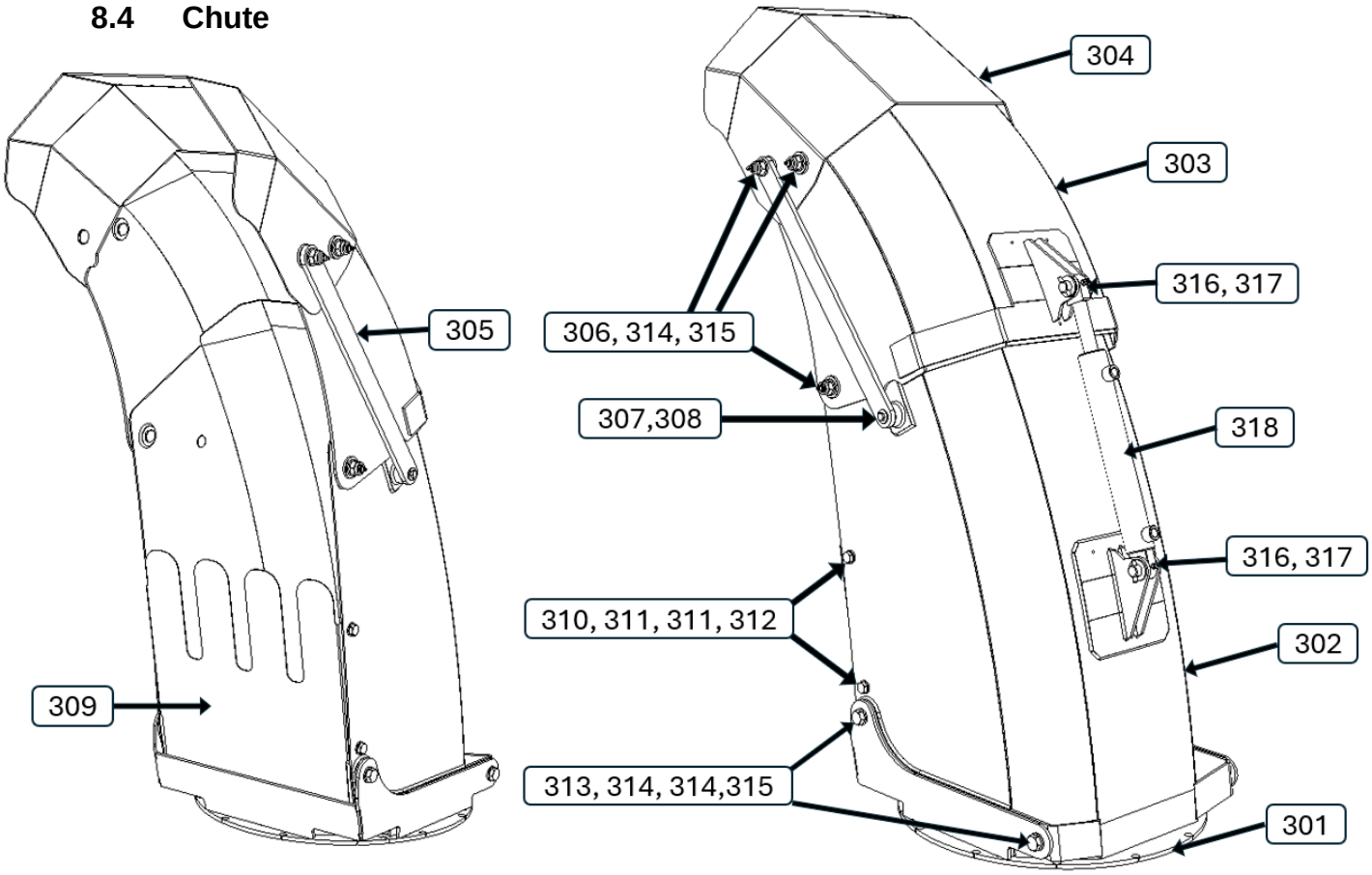
8.2 Auger screws, gears, and discharge fan			Serial no.		
POS:	**Art. nr:**	**Beskrivelse:**	**from**	**to**	**Add. info:**
1	140346	Right auger screw for GTF 2750	4171	-	
1	140257	Right auger screw for GTF 2750	4171	-	
2	140340	Left auger screw for GTF 2750	4171	-	
2	140145	Left auger screw for GTF 2550	4171	-	
3	129923	Gearbox 1000 rpm	4171	-	
4	129724	EK64/24R automatic coupling right	4171	-	
5	129723	EK64/24L automatic coupling left	4171	-	
6	011227	60mm bearing	4171	-	
7	129373	Support shaft	4171	-	
8	129663	Discharge fan	4171	-	
9	129345	Flex coupling - gear < > fan	4171	-	
10	010778	O-ring Ø60-10	4171	-	
11	129355	Sleeve with sprocket	4171	-	
12	033635	Screw M12x35 DIN 933	4171	-	
13	012919	M12 stop washer DIN 125	4171	-	
14	126479	Power Take-Off Shaft SFT-H7	4171	-	1000 o/min

8.3 Chassis



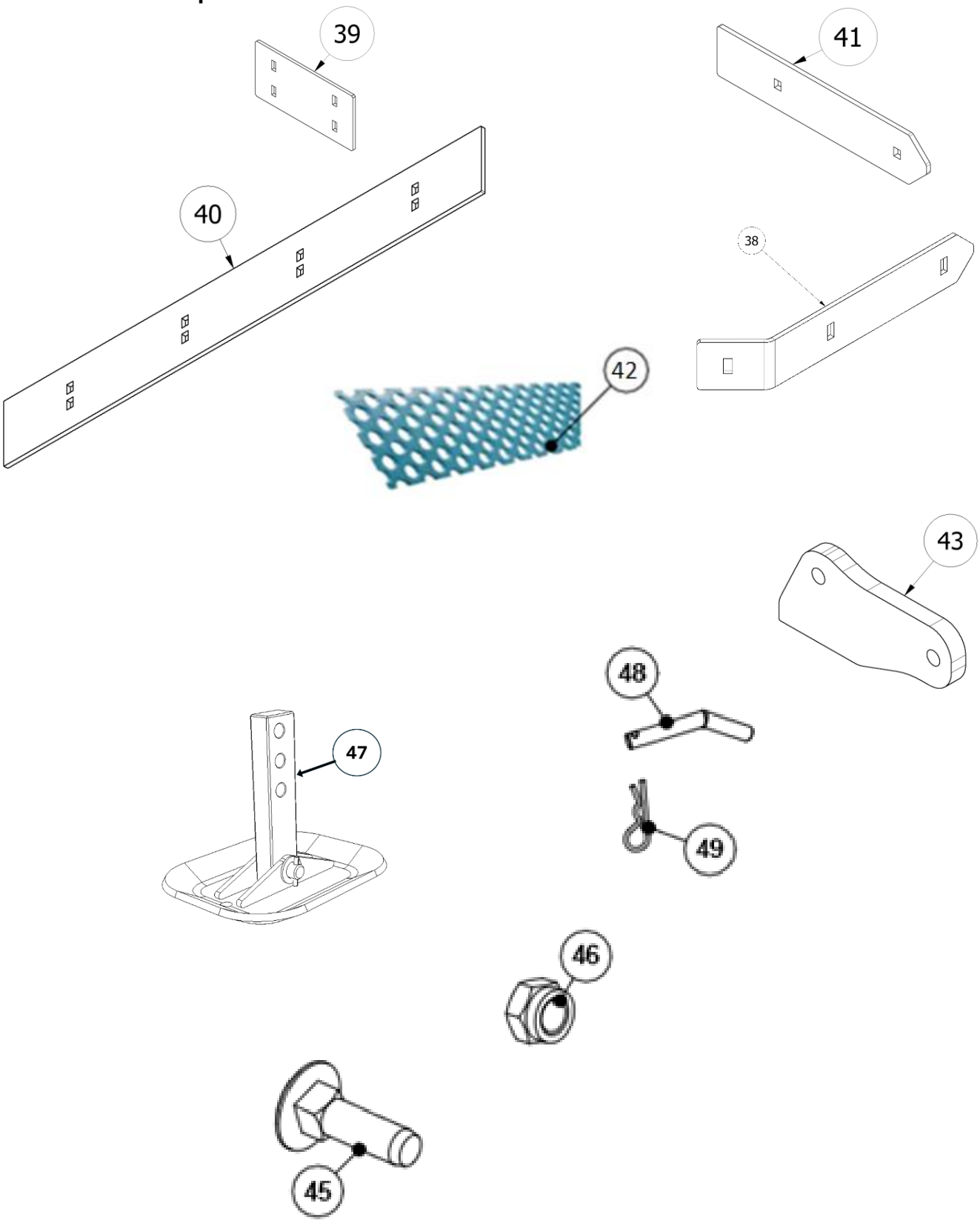
8.3 Chassis			Serial no.		
POS:	**Art. no:**	**Discription:**	**From**	**To**	**Add.Info:**
30	930468	Stake pin	4171	-	
31	500950	Welded chassis GTF 2550	4171	-	
31	500900	Welded chassis GTF 2750	4171	-	

8.4 Chute



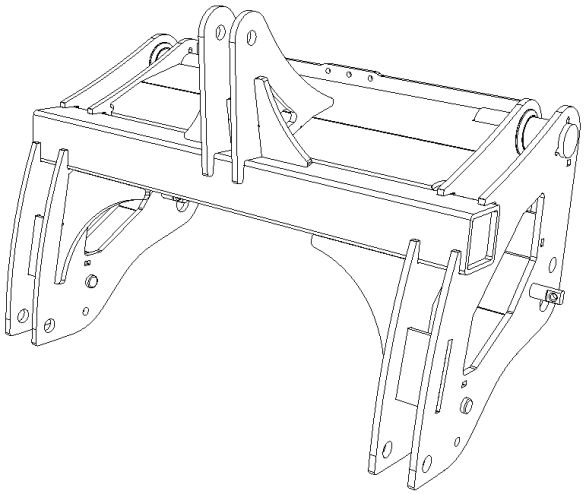
8.4 Tut			Serienr.		
POS:	**Art. no:**	**Discription:**	**From**	**To**	**Add.Info:**
301	124920	Lower part of the chute towards the swing ring 2011	4171	-	
302	500304	Lower part	4171	-	
303	500305	Flap 1	4171	-	
304	124153	Flap 2	4171	-	
304	500311	Flap 2 with extra downward fold	4171		
305	124157	Rod gearing	4171	-	
306	124954	Complete nozzle mounting bolt	4171	-	
307	033420	Screw M8x20	4171	-	Limes fast.
308	012904	Washer Ø8.4 DIN 9021	4171	-	
309	124916	Safety cover	4171	-	
310	016008	M12 Locknut	4171	-	
311	012919	Washer Ø13 DIN 125	4171	-	
312	033640	Screw M12x40 DIN 933	4171	-	
313	032740	Screw M16x40 DIN 933	4171	-	
314	012927	Washer Ø17 DIN 125	4171	-	
315	016010	M16 Locknut	4171	-	
316	930391	Bolt for cylinder	4171	-	
317	010703	Pin	4171	-	
318	124163	Complete cylinder with hoses	4171	-	Hoses not illustrated

8.5 Wear plates and shoes



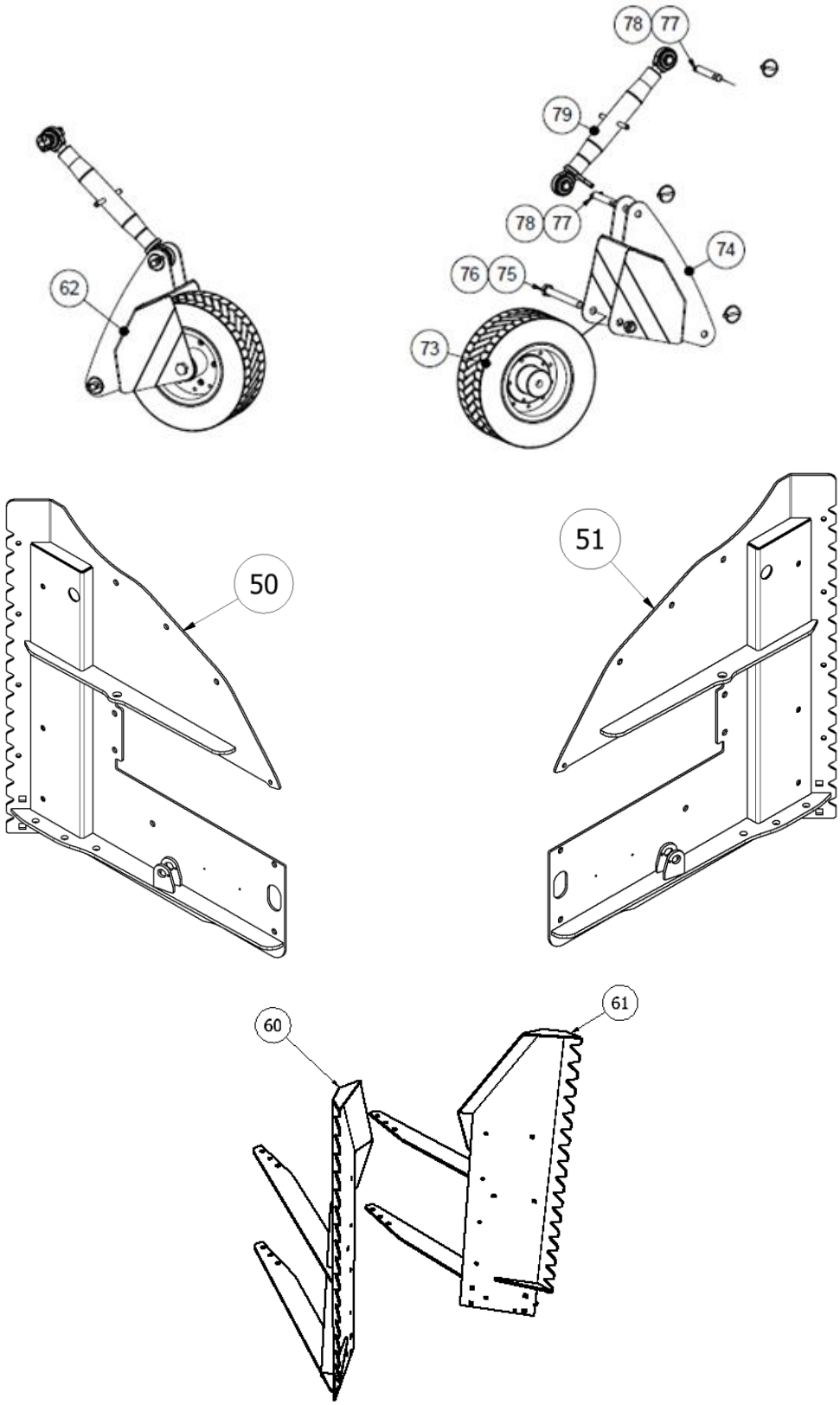
8.5 Wear plates and shoes			Serial no.		
POS:	**Art. no:**	**Discription:**	**From**	**To**	**Add. Info:**
38	130085	Waer plates, outer	4171	-	
39	129701	Wear plates R+L edge wing	4171	-	
40	500970	Primary steel GTF 2750	4171	-	
40	500971	Primary steel GTF 2550	4171		
41	129697	Wear steel R+L	4171	-	
42	500972	Perforated wear steel GTF 2750	4171	-	
42	500973	Perforated wear steel GTF 2550	4171	-	
43	129702	Wear block R+L	4171	-	
45	034841	Locking screw for wear steel	4171	-	
46	016010	M16 Lock nut	4171	-	
47	126510	Wear shoe	4171	-	
48	970049	Bolt for wear shoe	4171	-	
49	010703	Lock pin	4171	-	

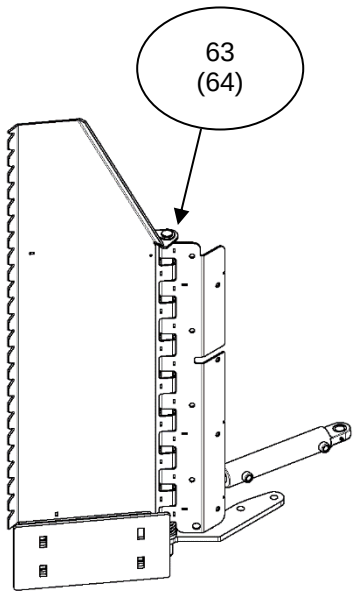
8.6 Tow Hook

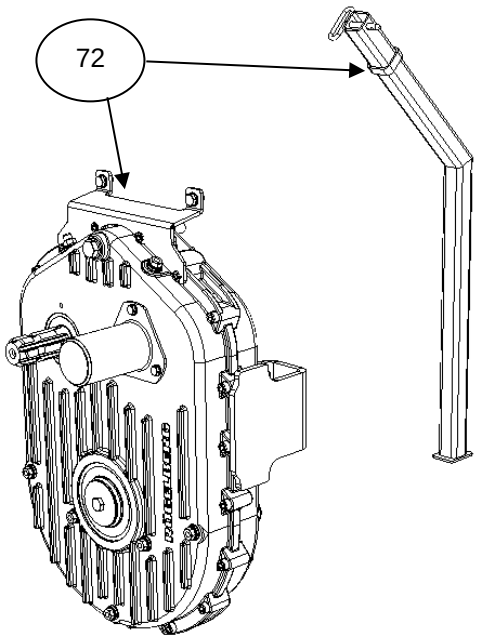


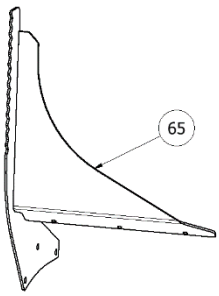
8.6 Tow Hook			Serienr.		
POS:	**Art. no:**	**Discription:**	**From**	**To**	**Add. Info:**
-	500870	3-Point adapter	1	-	
-	925302	Drawbar bolt cat. 2 Ø28x95	1	-	
-	127465	Bolt Ø40x120	1	-	
-	029713	Top link bolt Ø25x95	1	-	

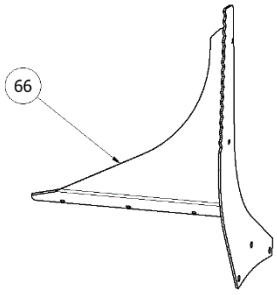
8.7 Additional equipment





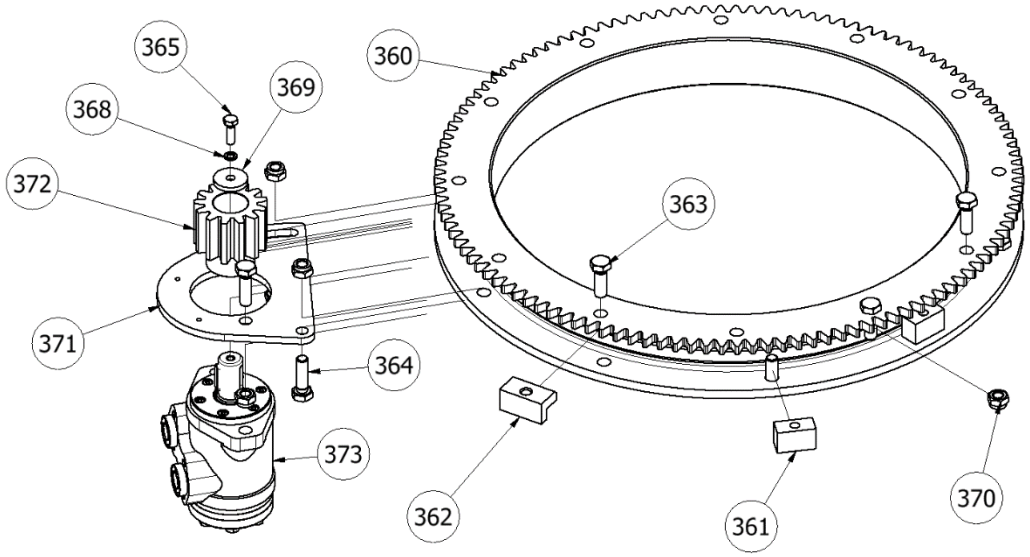






8.7 Additional Equipment			Serial no.		
POS:	**Art. no:**	**Discription:**	**From**	**To**	**Add. Info:**
50	500941	Left side plate	4	-	
51	500940	Right side plate	4	-	
60	130567	Right edge cutter	4	-	
61	130566	Left edge cutter	4	-	
62	124949	Complete wheel Set	4	-	(2 pcs.)
63	129907	Hydraulic right edge cutter	5	-	
64	129913	Hydraulic left edge cutter	5		
65	500947	Edge knife front mounting HS	1		
66	500948	Edge knife front mounting VS	1		
72	500935	Front mounting kit heavy duty	5	-	Pto incl.

8.8 Slew Ring



8.8 Slew ring			Serial no.		
POS:	**Art. no:**	**Discription:**	**From**	**To**	**Add.Info:**
360	124804	Slew ring			
361	123956	Lower stopper			
362	123955	Upper stopper			
363	033635	Screw M12x35 DIN 933			
364	033640	Screw M12x40 DIN 933			
365	033425	Screw M8x25 DIN 933			
368	012983	8mm Lock washer			
369	140058	Gear sasher			
370	016008	M12 Lock nut DIN 985			
371	130197	Motor bracket			
372	130565	Sprocket			
373	130196	Hydraulic motor			
374	011517	Hydraulic hose			Not illustrated
	140082	Swing motor complete			
	140096	Sprocket cover			Not illustrated

Notes

Notes

Notes

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