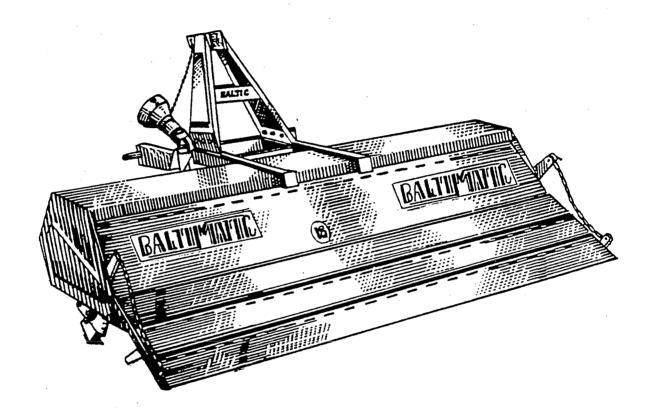
BALTIMATIC® ROTARY TILLERS



Instructions & Spare Parts

TENNESSEE FARMERS COOPERATIVE

200 Wald on Road, La Vergne Tennessee 37086. U.S.A. Phone: 615 793 8398. Fax: 615 793 8432.

Equipment and Replaceable parts.

s. No.	Name of part or set	Catalogue No. of part or standard number	Number of of pieces in machine
1	Special wrench-set	1521/00-100/0	1
	Lift arm pin ϕ 22 mm Cat. 1.	1521/00-002/0	2

I. Utilization Instructions.

Each time before starting work, the oil level should be checked in the driving attachment.

After 15 minutes from starting of the first operation the loose bolted joints should be tightened, particularly the working drums fastening.

1. Application.

The rototiller is used for opening and mixing of the soil/except soils with stones/, quick bringing to order of fields after multiyear cultures, after ploughing of meadows and pastures, for mixing of fertilizers and herbicides with the soil on the vegetable fields, crushing of clods, etc.

The rototiller should be appied for cultivation of the soils with moisture enabling to get good agrotechnical results. Application of the rototiller in the conditions of too low or too high moisture highly lowers down the quality of the received effects. The telescopic jointed shaft 400 Nm/40 kGm/with inseparable guard adapted to 540 rpm should be used for driving of the rototiller.

The rototillers are adapted for cooperation with tractors of class 6-9 kN having a minimum power of 15-36 kN/20-49 HP/.

2. Structure and Principles of Operation.

The rototiller frame is a welded unit to which the hanger is screwed up.

Two gauge wheels are fixed to the frame; they are used for adjustment of the depth of work.

The frame hanger and the mounting journals are used for suspending the rototiller on the hydraulic lift of the tractor.

The driving attachment along with the knofe coulter and the skid are screwed up to the frame.

The knife coulter should be applied for cutting sod on the meadows and pastures.

The knife coulter should not be used on heavy soils, crust soils because both make it hard or even impossible for the rototiller to deepen into the soil.

The rotary motion is transferred from the tractor power transmitter shaft via the telescopic joint shaft and a couple of toothed wheels onto the working drum.

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The working drum of the rototiller comprises two subassemblies: Right working drum and left working drum which are mounted on the driving attachment shaft.

The rototiller working drum is guarded by a steady guard and a mobile guard, which protect it against soil chips. The mobile guard position

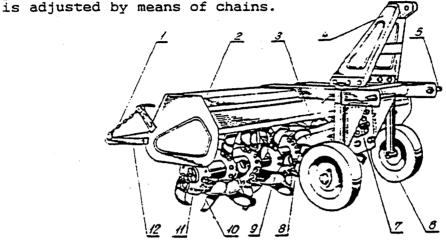


Fig. 1. Suspended Rototiller 160.

- 1. Adjustment chain. 2. Frame with guard-set. 3. Working drum-left.
- 4. Hanger-set. 5. Twosided journal. 6. Gauge wheel. 7. Driving attachment. 8. Knife coulter. 9. Left cutter. 10. Right cutter. 11. Working drum-right.

12. Mobile guard-set.

3. Characteristics.
3.1. Technical characteristics.

Parameters	Units of measure	Rototille:	types and	i value 180	200
Rototiller type Working width	m/inches	suspend. 1,4/ 4'7"	suspend. 1,6/ 5'3"	suspend. 1,8/ 5'11"	suspend. 2,0/ 6'7"
Max. working depth	m/inches	0,12/ 4 3/4"	0,12/ 4 3/4"	0,12/ 4 3/4"	0,12/ 4 3/4"
Number of cutter discs	pcs	8	8	10	10
on drum left/right Number of rotat.WOM	pcs rpm	21/21 540	24/24 540	27/27 540	30/30 540
Number of rotat. of working drum Working speed Working speed Transp. speed	rpm mile/h km/h	1,5-5,0		afety/Para	186 1-3 1,5-5,0
Work cap. in one shift	ha/h	0,18-0,60	0,20-0,68	0,23-0,77	0,26-0,83
Power consumption approx.	kW HP	15-26 20-35	18-33 25-45	22-36 30-49	25-44 35-60
Oper. personnel	persons	1	1	1	1

3.2 commercial characteristics.

Overall dimensions	Units of measure	Rotot:	iller t	ypes an 180	d values 200
Length approx Width approx. Hight approx Mass	feet/inches	4'5"	4'5"	4'5"	4'5"
	feet/inches	5'	5'8"	6'7"	6'11"
	feet/inches	3'7"	3'7"	3'7"	3'7"
	lbs	727	772	816	839

4. Principles of Proper Utilization and Technical Servicing. 4.1. Preparation of Rototiller to Work.

In case of cooperation of the rototiller with tractor having the outer overall dimensions of the rear tractor wheels larger than the rototiller working width, it should be set up asymmetrically in relation to the tractor.

This way due to enlarging of the width of uncovered track of one wheel, total covering of the track of another wheel is gained Fig. 2.

For the purpose of covering the track of the right rear wheel of the tractor, the right journal of the rototiller

suspension/looking from the rear of the machine/should be left in the front hole of the front beam, and the left journal should be mounted in the rear hole. After putting of the tension members on the journals, the rototiller will be set up skew in relation to the tractor.

If the tractor is provided with the lower tension members chains, then the proper shortening of the right tension member chain at simultaneous elongation of the left tension member chain will cause that the rototiller will be shifted a little bit rightwards in relation to the tractor covering the track of the right rear wheel.

In cause of covering of the tractor wheel tracks by the rotoiller, proceed as follows:

- both suspention journals of the rototiller should be placed in the front holes of the front beam,
- after suspending the rototiller on the tractor, both chains of the tractor lower tension members should be slightly tightened for the purpose of getting central position of the rototiller in relation to the tractor and for limiting sidewise deflections of the rototiller during its

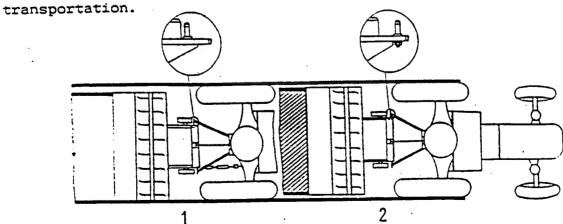


Fig. 2. Setting up of rototiller in relation to tractor.

1- asymmetrically/factory set up/

2- symmetrically.

Before proceeding to work the technical condition of the machine. For that purpose proceed as follows:

- unscrew the control plug and check for gearbox is filled up with gearbox oil.

NOTE!!

The oli should flow out from the hole. During this checking, the rototiller should stand on the horizontal plane.

before suspending the rototiller on the tractor, remove the transporting hook, deflectable catch and catching beam from the tractor,

- spacing of the tractor rear wheels should not exceed/mm/inches:

	Assymme	trical		Symmetrical					
RT-1,4	RT-1,6	RT-1,8	RT-2,0	RT-1,4	:RT-1,6	RT-1,8	RT-2,0		
140 1250 49"	160 1350 53"	180 1500 59"	200 1500 59"	140 1100 43"	160 1250 49"	180 1425 56"	200 1425 56"		

- check bolted joints of the rototiller, in case of stating lose ones, tighten nuts or screws,

- lubricate the rototiller according to the instructions,

 suspend the rototiller on the tractor, not mounting up however the telescopic jointed shaft,

- after starting the tractor engine, lift up the rototiller to the transporting position, stop the tractor engine and observing a proper care, proceed to further checking operations,

- check the technical condition of the cutters, replace damaged or worn up ones for new,

 check the working drum by turning it manually, for the turn is free without jamming,

- check for the guard and the gauge wheels can be freely lifted up and lowered down,

lower down the rototiller,

- connect the rototiller with the tractor by means of the telescopic jointed shaft.

This operation must be done at disengaged tractor engine. In case of difficulaties in seating the ends of the telescopic jointed shaft in the tractor WOM spined end, the rototiller working drum should be slightly moved by hand.

Before first mounting of the telescopic jointed shaft, the following operations are to be done:

disassemble the shaft for two halves, shift one half on the splined end of the rototiller and another on the spined tractor end.

The safety devices after shifting on the halves have to snap;

- the rototiller should be lifted totally up, in its upper position, and the shaft halves should be kept one besides another.

If the chance of shifting on the halves is less than 40 mm (16") than the guard and the profile tube have to be properly shortened /Fig. 3/;

lower down the rototiller on the ground, and hold the shaft halves one besides another.

While shortening, both halves are be shortened by equal length;
- after fitting the telescopic jointed shaft is to reassambled
and mounted in the rototiller and in the tractor WOM splined
end, and the chain holding the guard should be caught by
rototiller /it is to protect the guard against turning/.

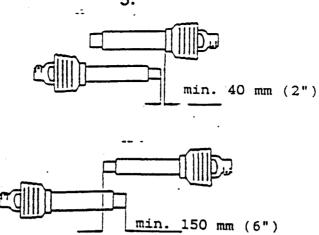


Fig. 3. Determination of lenth of telescopic jointed shaft.

NOTE!!

It is prohibited to mount in the telescopic jointed shaft before checking the technical condition of the rototiller. Primarly level up the rototiller with the tractor hanger crank towards transverse direction to the work direction and with tractor upper connector towards longitudinal direction to the rototiller working direction.

During the first working passage proceed:

- set up the gauge wheel for the required working depth, which is regulated gradually every 2,5 cm (1"),
- primarly levelled up rototiller has to be levelled up throughly

Nor levelling up of the rototiller towards the transverse direction makes a difference in work depth of the working drums, and in the longitudinal direction unproper angles of jointed shaft breaking. At properly levelled up rototiller in the working position /with cutters in the soil/ the rototiller frame plane should be parallel to the ground.

Attention should be paid that the working drums are firmly mounted on the shaft. This is gained by tightening of the rods. The tightening rod and the screw protecting the right drum /looking from the rear of the machine/ are provided with left-hand thread, but the same parts of the left working drum are provided with right-hand thread. During operation of the rototiller violent jerks should be avoided. It is prohibited to back up the tractor when the rototiller is in working position. While turning, the rototiller must be lifted up into the transporting position and the working drum drive disengaged.

It is prohibited to turn at work with the cutters in the soil. The mobile guard position is adjusted depending on the agrotechnical conditions.

The guard should be lifted high on light soils. On heavy, wet soils, due to the change of luting - also high up.

On the other hand on heavy, dry - the lower edge of the guard should touch the surface of the field.

On the light soils with small stones, due to the safety of work, the guard should be loweeres down.

When it is required to level up the worked up field surface, the guard is to be totally lowered down.

For the purpose to avoid jamming of the working drums, before proceeding to work, the field should be cleaned from long, loose plant remainders /after harvest/.

4.3. Transport.

For transport purposes the working drum drive must be disengaged.

Nor disengaged of the drive can be a cause of damaging of the tractor, of the telescopic jointed shaft or of the rototiller. The rototiller has to be lifted to the transporting position, and paying a special care, to proceed to transporting. Due to projecting of the rototiller outside the tractor edges, during over taking and passing by of other vehicles a particular care should be taken. The remaining instructions pertaining the transport are contained in Para 6 "Work Safety Precautions".

4.4. Lubrication.

Mineral grease must be only used for lubrication, it is prohibited to use animal or plant originated lubricants. Before pressing in grease by grease gun, the grease nipples should be thoroughly cleaned. For lubrication of the gear box, gear oil in the quantity of 1,5 litre is used.

The oil level in the gear box should be checked before each going out into the field, and if needed, the oil must be filled up. The control plug is used for checking up the oil level; it should be unscrewed then oil should flow out. During checking of the oil level, the rototiller should be levelled up in compliance with requirements given in Para 4.2. Lubrication is to be carried out according to the instructions given in the lubrication card to Fig. 4.

Permeability of the de-aerating valve should be checked too. Besides, the terms of replacing total oil in the driving attachment should be observed.

I-st replacement - after 20 hours of work

II-nd replacement - after next 40 hours of work

III-rd and following replacements after each 200 hours of work Replacement of oil should be carried out after a longer period of machine work, when the oil is hot.

Due to wearing in during work of the new toothed wheels, the metal file dust is formed, which being accumulated in the gear box, and then being mixed with oil can cause a quicker wear of the teeth of the toothed wheels and rolling bearings.

Before filling up the gear box with new oil, it should be flushed, to remove the dirt, with machine oil.

Replacing oil in the gear box, the following operations should be performed:

- place a container for the used up oil under the drain plug,
- unscrew the drain plug and filling plug,
- after draining the used up oil drive in the drain plug,
- flush the gear box with machine oil, turning by hand the working drum several times,
- unscrew the drain plug and drain the impure machine oil,
- drive in the drain plug,
- unscrew the control plug,
- fill up the gear box with fresh gear oil upto the level of the control plug,
- drive in the control plug and the filling in plug.

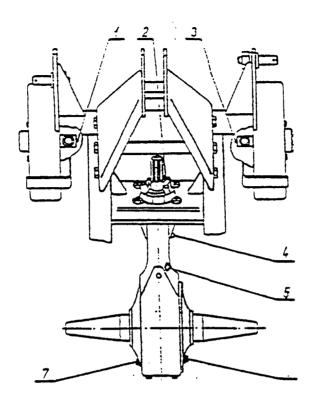


Fig. 4. Lubrication points of rototiller.

1 and 3 gauge wheel axle, 2- attachment head, 4- deserating valve, 5- driving attachment, oil inlet, 6- checking of oil level in driving attachment, 7- oil drain hole in driving attachment.

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LUBRICATION CARD TO FIG. 4.

		_:																					
Used up oil recovery worked up	/lbs	ı	ı							2,87									2 87) ì	1	1	
Periods of replacement		once in	season once in	season	I-st	replacement	hours of	Work	II-nd	replacement	after next	40 hours of	work	III-rd and	following	replacements	after each	200 hours of	WOLK		1	1	
Consumption replace current ment lubric.	/1bs	0,02	60,0						,				,						ı		1	1	
Consumption replace Currement lubri	/1bs	0,04	0,18	•															۰,	·)	1,88	1,32	
Sort of lubricating Lubricating Frequency of material system lubrication recommen. substit.		10	10				going to field each												at replacing	of1	after season	after season	
Lubricating system		grease gun	grease gun		_	upto contr.													flushing	n	washing	on surface	
ubricating substit.		grease	grease	ı	oil														ı		ı	1	
Sort of lubricatin material recommen. substit.		grease	grease		oil														machine	oil	kerosine	grease	
Name of spot mechanism of		Gauge wheel	axle Attachment	head	Driving attch. oil	gear - oil	ur furriri												Working	surfaces		Working	surraces
Pos. No.	•	1-3	2		5																		

5. Maintenance and Upkeep.

Each time after ending work, the rototiller should be cleaned up from soil, thereafter an inspection of the connections, parts and units should be carried out.

Parts worn out are to be replaced for new and damaged ones repaired. Crecked cutters should be replaced for new loose bolted joints have to be removed by tightening. After the work season is ended, the rototiller should be throughly cleaned, and the cutters working surfaces and pins and suspension journals should be washed up with kerosine, the protected against corrosion coating with grease by means of a brush.

Moreover, lubrication of the rototiller should be carried out in compliance with the instructions given in the lubrication card to Fig. No. 4.

The rototiller splines shaft end should also be washed up with kerosine and then coated with layer of grease.

The rototiller should be kept in a closed accomodation/under roof/ and in case of difficulties, at least on the hardened ground. If the rototiller during the period of break in exploitation is left outside the building, lubrication should be repeated from time to time as rain flushes out grease. Local damages in oainting should be repaired by repainting.

5.1. Recommendations for repair shop of driving attachments. Properly set up by the factory backlash measured in the assembled gear should be in range 0,13 to 0,39 mm (1/500"-1/80") measured on the leafed pinion dividing radius that is on the arm 35,75 mm (1 1/2") long.

For its measurement we can mount into the box a plate with radially set up resistance, and on the input shaft a clamping sleeve with built in micrometer. Turning the input shaft to the sensible resistance /the output shaft is immobilized/, we measure with micrometer, in relation to the resting resistance on the box, the backlash.

For making it possible an execution and mounting of the measuring device, the size of the backlash can be measured on longer than 35,75 mm (1 1/2") arm conversing the result properly to the length of the assumed measurement arm.

- 5.2 Dissambly of working drums and replacement of cutters. Disassembly of the drums from the driving attachment shaft is carried out as follows:
- slacken the safety screw,
- hold with key the safety screw /in loose position/,
- drive out the tightening rod until the working drum slides off from the shaft of the driving attachment taper shaft. For the purpose of installing the working drum on the driving

attachment shaft proceed.

- drive out the protecting screw,
- drive in the tie rod /2-3 turns/ in the threaded shaft end hole of the driving attachment,
- drive in the protecting screw,
- screw home/strongly/ the tie rod and the protecting screw. Attention should be paid, that the tie rod and the protecting screw of the right drum /looking from the rear of the machine/ have left-hand thread, on the other hand, the same parts of the left working drum have right-hand thread.

For replacing the damaged cutters at work, the telescopic jointed shaft drive has to be disengaged. Stop the tractor motor and lower down the rototiller on the ground.

Set up the working drum that way, that the damaged cutter is easily accessible. Then proceed to replacement of the damaged cutter. It is prohibited to replace the cutters in the transporting position of the rototiller.

While installing the fastening bolts observe the principle that the bolt heads are from the side of the cutters.

6. Work Safety Precautions.

The unit may be operated only by a person who knows exectly the operation of the tractor and of the rototiller as well, after learning the proper instructions. The rototiller should be used paying a great care, and most of all it should be kept in mind that:

- it is prohibited to stay between the tractor and the rototiller during work of the tractor engine,
- mounting of the rototiller on the tractor must be carried out in compliance with the instructions contained in Para 4.1.,
- the rototiller has to be lifted and lowered smoothly-without jerks and knocks,
- adjustment of the depth of work and of the guard position may be carried out at the tractor engine stopped,
- strangers must not come close to the rototiller during its work because of lumps of oil and stones chipping out,
- repair of the rototiller may be carried out only when the tractor engine is disengaged,
- the rototiller may be lubricated or cleaned at work only when the tractor engine is stopped,
- it is prohibited to come too close to the rotating working drum of the rototiller,
- during the time the rototiller has to be lowered down and the tractor engine disengaged,
- during making turns the rototiller drive should be disengaged and a particular care observed, if people or objects are in the range of the unit,
- replacement of the damaged cutters may be carried out only at the tractor engine disengaged and the rototiller lowered down,
- transporting of the rototiller on the hydraulic lift of the tractor may be carried out only when the working drum drive is disengaged,
- the transporting speed may be:
 - a) on the roads with smooth surface/asphalt/to 9 miles/h,
 - b) on the field ways or macadam roads 3 5 miles/h,
 - c) on the pot-hole roads not more than 4 miles/h,
- because of projection of the rototiller outside the tractor edges, at overtaking and passing by of other verchiles a particular care should be taken,
- the rototiller may be detached from the tractor only after stopping the tractor engine,
- storage of the rototiller during the period of not being exploited should be exercised in places off limits for the strangers and animals,
- it is prohibited to use the telescopic jointed shaft without the guard or with damaged guar,
- it is prohibited to drop the lelescopic jointed shaft or to knock it with other objects,
- it is prohibited to put, lay or jang objects on the telescopic jointed shaft mounted to the tractor and rototiller,
- after the work is ended, the telescopic jointed shaft should be disconnected from the tractor and from the rototiller,

- at work and during transporting of the rototiller it is prohibited to stand on it or to put additional load on it,
- it is prohibited to back up the tractor with the rototiller and to make turns in the working position,
- it is prohibited to use independent tractor breaks while making turns with the unit.

NOTE!!

For protection of all the bolts contained in the unit/tractor and rototiller/typical protecting pins should be used. It is prohibited to use substitute protections as:

Bolts, rods, wires, etc., which, at work or transportation, can get out off or can fall out, and at the same time can be the cause of the tractor damage or rototiller damage, making a hazard for other road users.

For damages made as a result of unobserving of the Operating and Servicing Instructions the Manufacturer is not liable.

Labels situated on frame replacement labels available NO CHARGE on request.



ROTATING BLADE HAZARD KEEP AWAY ROTATING BLADES

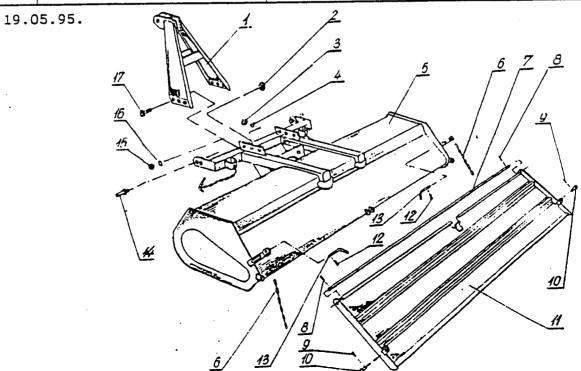
To prevent serious injury or death from thrown objects or blade contact:

- 1. Do not operate with cover removed.
- Do not point discharge toward people, animals or buildings when operating.
- 3. Do not place hands or feet under deck when operating or when engine is running.

BALTIC KORN A/S. DK-4700 NAESTVED. DENMARK.

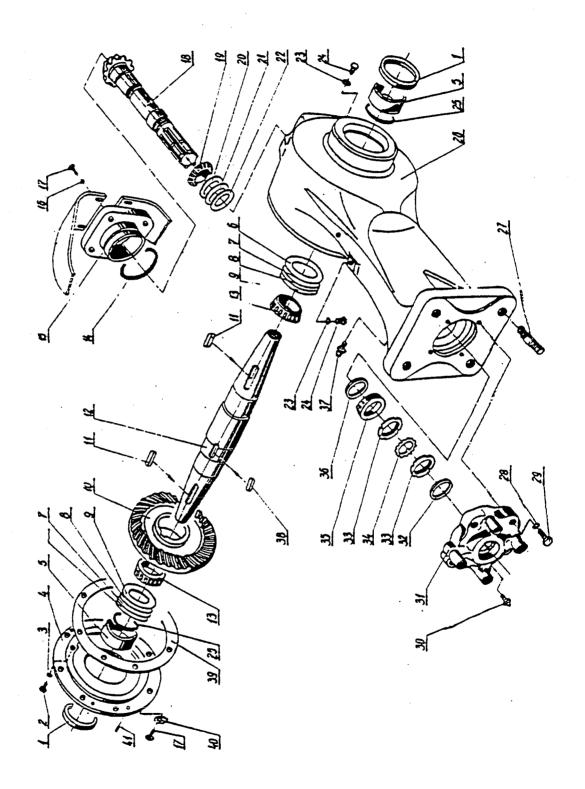
FRAME WITH GUARD-SET.

Pos	Description	Spare part No.	1		of po	s		
No.			in n	achi	ne	1.60	1200	1200
			100	120	140	100	180	200
.	Warran art walded	1521/30-000/0	1	1	1	1	1	1
1 2	Hanger set welded Nut with insert M16	ZN-75/MPM-29-	_	-	_	_		1
2	NUC WICH HISELE MIS	10651	5	5	6	6	6	6
3*	Nut M20x1.5-5-B	PN-86/M-82155	4	4	4	4	4	4
4*	Spring washer 20.5	PN-77/M-82008	4	4	4	4	4	4
5	Frame with guard-set D	1521/70-000/0	1	1	1	-	-	-
3	Frame with guard-set E	1522/30-000/0	1	1	-	1	-	-
	Frame with guard-set F	1523/30-000/0	_	-	-	-	1	-
	Frame with guard-set G	RT-4/10-600/0	-	-	-	-	-	1 1
6	Link chain 6 (12 links)	PN-75/M-84543	2	2	2	2	2	2
7	Guard pin A	1521/00-001/0	1	-	1	-	-	-
'	Guard pin B	1522/00-001/0	-	1	-	1	-	-
	Guard pin C	1523/00-001/0	-	-	-	-	1	-
	Guard pin D	RT-4/00-001/0	-	-	-	-	-	1
8*		PN-76/M-82001	2	2	2	2	2	2
9	Split pin S 2.5x16	PN-76/M-82001	2	2	2	2	2	2
10	Pin 10x28/23	PN-63/M-83002	2	2	2	2	2	2
11	Mobile guard-set A	1521/20-000/0	1	-	1	-	-	-
	Mobile guard-set B	1522/20-000/0	-	1	-	1	-	-
į	Mobile guard-set C	1523/20-000/0	-	-	-	-	1	-
	Mobile guard-set D	RT-4/20-600/0	-	-	-	-	-	1
12	Split pin 148-Fa/Zn-mbcc	BN-81/1902-04	2	2	2	2	2	2
13	Pin	1500/00-005/0	2	2	2	2	2	2
14	Journal-lift arm pin							
	Ø28 mm - cat. 2	1500/04-005/0	2	2	2	2	2	2
ļ	Journal-lift arm pin							
	Ø22 mm - cat. 1	1521/00-002/0	2	2	2	2	2	2
15*		PN-86/M-82144	2	2	2	2	2 2	2 2
16*		PN-77/M-82008	2	2	2	2	6	6
17	Bolt M16x50-8.8-B	PN-85/M-82101	6	6	0	0	٥	٥
			1					
1		1						



DRIVING ATTACHMENT.

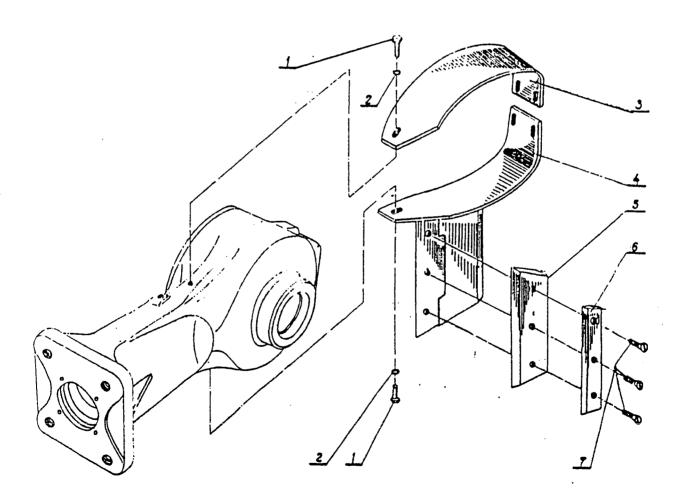
Pos.	Description	Spare part No.		of pcs		
No.			in mac	160	180	200
1	Packing ring A70x90x10	PN-72/M-86964	2	2	2	2
2*	Bolt M10x10-5.6-A	PN-85/M-82105	1	1	1	1
3*	Plug packing	1500/01-024/0	1	1	1	1
4	Gearbox cover	1500/90-002/0	1	1	1	1
5	Sleeve	1500/90-003/0	2	2	2	2
6	Distance washer 0.1	1500/90-005/0		as nece	ssary	
7	Distance washer 0.15	1500/90-006/0		as nece	ssary	
8	Distance washer 0.5	1500/90-007/0		as nece	ssary	•
9	Distance washer 1.0	1500/90-008/0		as nece	ssary	
10	Bevel gear with			l		1 -
	curved teeth see pos. 42	1500/20-004/0	1	1	1	1 1
11	Key	1500/20-016/0	2	2	2	2
12	Shaft	1500/20-005/0	1	1	1	1
13*	Taper bearing 30212	PN-86/M-86220	2	2	2	2
14	Packing ring A	1500/20-013/0	1.	1	1	1
15	Assembly cover C	1500/20-012/0	1	1	1	1
16*	Washer 13	PN-78/M-82005	4	4	4	4
17*	Bolt M12x1.25x30-8.8-B	PN-85/M-82105	12	12	12	12
18	Shaft with bevel gear				_	
	with curved teth	1500/20-003/0	1	1	1	1
19	Taper bearing 32309	PN-86/M-86220	1	1	1	1
20	Distance washer 0.2	1500/20-007/0	1-3	1-3	1-3	1-3
21	Distance washer 0.3	1500/20-008/0	0-4	0-4	0-4	0-4
22	Distance washer 1.0	1500/20-009/0	1	1	1	1
23*	Packing	1500/01-027/0	2	2	2	2
24*	Plug A N 16st	BN-71/1902-21	2 2	2	2	2
25	Packing ring	1500/90-004/0		2	2	2
26	Gearbox	1500/90-001/0	1	1	1	1
27*	Body bolt	1500/01-019/0	4	4	4	4
28*	Spring washer 10.2	PN-77/M-82008	4	4	4	4
29*	Bolt M10x45-3.6-C	PN-85/M-82008	4	4	4	4
30*	Grease nipple st. M10x1		1		,	1
1	B 1/8"/45 gr.	PN-76/M-86002	1	1	1 1	
31*	Attachment head A	1500/01-051/0	1	1	1	1 1
32*	Packing ring A35x35x12	PN-72/M-86964	1	1	1 2	2
33*	Bearing nut KM 8A	PN-82/M-86478		2	2	
34*	Toothed washer MB8	PN-82/M-86482		1	1	1 1
35*	Taper bearing 32208	PN-86/M-86220		1	1	1
36*	Packing ring A40x68x10	PN-72/M-86964	1	1	1	-
37	Deaerating valve	E2-002-933-				,
		871-00	1	1	1	1
38	Prism key A18x11x45	PN-70/M-85005		1	1	1 1
39	Cover packing	1500/90-009/0		1	1 8	8
40	Washer	1500/20-014/0		8		2
41	Straight pin 8u7x20	PN-66/M-85021	1	2	2	1
42	Pair of bevel gear	1500/20-200/0	1	1	1 +	+
	pos. 10 + 18			,	1	1
43	Distance washer-set	1500/20-400/0	1	1	1	-
	Contains items 20, 21					
	and 22	1500 (00 100 (0	2	2	2	2
44	Distance washer-set	1500/90-100/0	2	1 4	-	_
	Contains items 6, 7,					[
	8 and 9.	ECO1 /01 001 /0	.			
	Shaft cover	5621/01-001/0				



KNIFE COULTER.

Pos. No.	Description	Spare part No.	in ma			200
1* 2* 3 4 5* 6* 7*	Bolt M12x30-3.6-C Spring washer 12.2 Scate B Knife coulter-set- welded A Knife coulter Strap Screw M8x16-5.6-B Knife coulter-set A	PN-85/M-82105 PN-77/M-82008 1500/20-011/0 1500/21-100/0 1500/01-009/0 1500/01-025/0 PN-85/M-82215 1500/21-000/0	2 2 1 1 1 1 3 1	2 2 1 1 1 1 3 1	2 2 1 1 1 3 1	2 2 1 1 1 3 1

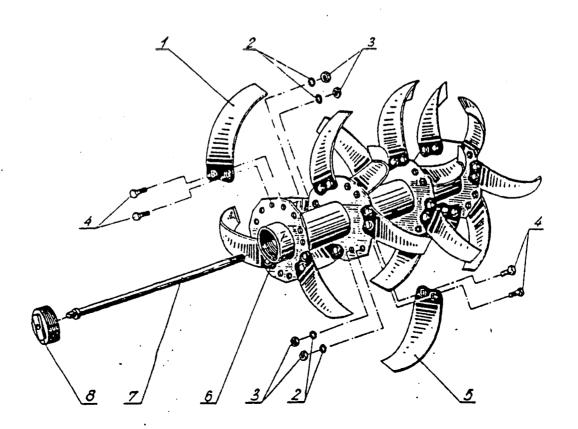
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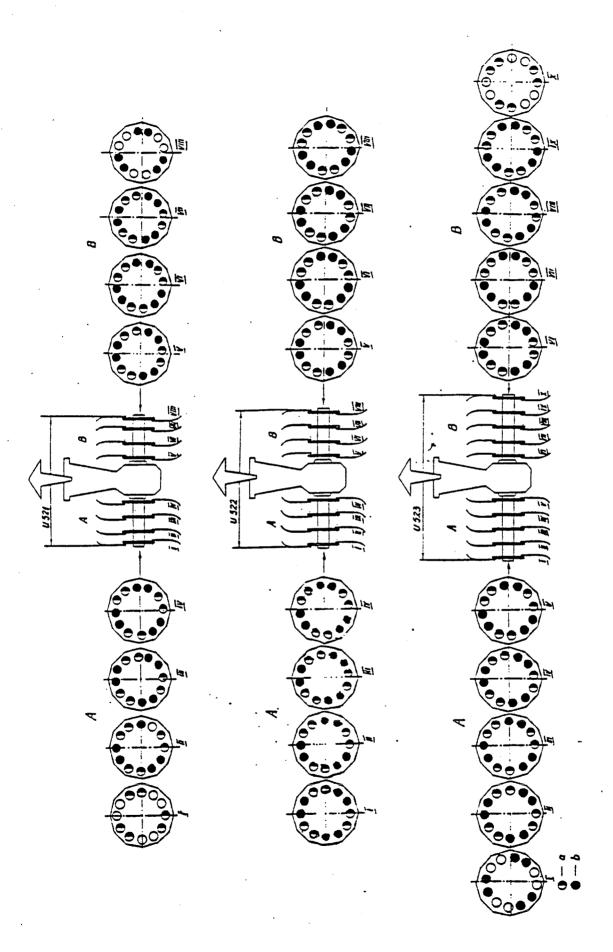


WORKING DRUMS.

Pos.	Description	Spare part No.	Į.	er of achine 160	_	200 80	40" 1 00
1* 2* 3* 4* 5*	Cutter LL1 Toothed washer A 16.5 Nut M16x1.5-8-B-Fe/Znb Special bolt B Cutter LP1 Working drum l/set weld. Working drum l/set weld. Working drum l/set weld.	BN-86/1926-01 DIN 6798 PN-86/M-82144 1500/02-009/0 BN-86/1926-01 1500/02-022/0 1500/02-007/0 1500/02-008/0	21 84 84 84 21 1	24 96 96 96 24 -	27 108 108 108 27 -	30 120 120 120 30 -	
7* 8*	Working drum r/set weld. Working drum r/set weld. Working drum r/set weld. Tie rod with r/hand thread Tie rod with r/hand thread Tie rod with r/hand thread Tie rod with l/hand thread Protecting screw with right-hand thread B Protecting screw with left-hand thread B	1500/02-003/0 1500/00-001/0 1500/00-004/0 1500/03-001/0	1 - 1 1	1 - 1 1 1	1 1 1	1 - 1 1 1	

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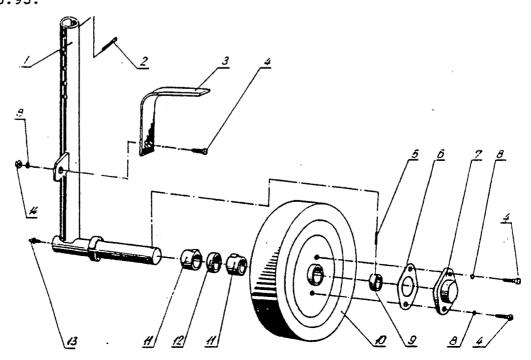




GAUGE WHEEL.

Pos.	Description	Spare part No.	Number		s Not	es
			140	160	180	200
1	Wheel standard, right, set, welded Wheel standard, left,	1521/40-100/0	1	1	1	1
	set, welded	1521/50-100/0	1	1	1	1
2*	Split pin S 8x63	PN-76/M-82001	1 2	2 1	2	2
3*	Scraper, left-set	1500/04-006/0	1	1	1	-1
	Scraper, right-set	1500/04-007/0	1 6 2 2 2	1	1	1
4*	Bolt M10x30-3.6-C	PN-85/M-82005	6	6	6	6
5*	Pin	1015/04-010/0	2	6 2 2 2 6 2 2 4	2 2	2 2
6*	Packing B	1015/04-011/0	2	2	2	2
7*	Hub cover	1015/04-008/0	2	2	2	2
8*	Spring washer 10.2	PN-77/M-82008	6	6	6	6
9*	Mounting ring 26 ·	1500/04-045/0	2 2 4	2	2 2	2 2
10*	Wheel-set, welded	1521/81-100/0	2	2	2	2
11*	Wheel hub sleeve	1500/04-043/0		4	4	4
12*	Distance sleeve	1500/04-044/0	2 2 2 2	2 2 2 2	2	2 2 2 2
13*	Grease nipple M10x1	PN-76/M-86002	2	2	2	2
14*	Nut M10-4-C	PN-86/M-82144	2	2	_ 2	2
*	Wheel-set (Containing items 10, 11 and 12)	1500/04-008/0	2	2 🖰	2	2
	Right wheel-set (Containing items 1, 3, 4, 5, 6, 7, 8, 9 10, 11,	1521/81-000/0	1	1	1	1
	12, 13 and 14) Left wheel-set (Containing items 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14)	1521/80-000/0	1	1	1	1

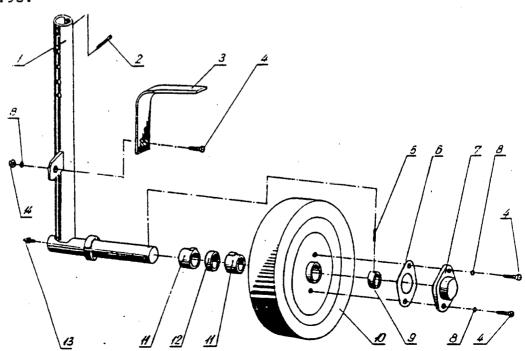
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GAUGE WHEEL.

Pos.	Description	Spare part No.	Number in mac			
			140	160	180	200
2* 3*	Wheel standard, right, set, welded Wheel standard, left, set, welded Split pin S 8x63 Scraper, left-set Scraper, right-set Bolt M10x30-3.6-C	1521/40-100/0 1521/50-100/0 PN-76/M-82001 1500/04-006/0 1500/04-007/0 PN-85/M-82005	1 2 1 . 1 6 2	1 2 1 1 6	1 2 1 1 6 2	1 2 1 1 6 2
5* 6* 7* 8* 90* 112* 12* 14*	Pin Packing B Hub cover Spring washer 10.2 Mounting ring 26 Wheel-set, welded Wheel hub sleeve Distance sleeve Grease nipple M10x1 Nut M10-4-C Wheel-set (Containing items 10, 11 and 12)	1015/04-010/0 1015/04-011/0 1015/04-008/0 PN-77/M-82008 1500/04-045/0 1521/81-100/0 1500/04-043/0 1500/04-044/0 PN-76/M-86002 PN-86/M-82144 1500/04-008/0	6 2 2 6 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2	6 2 2 6 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2 2	2 2 6 2 2 4 2 2 2 2 2	2 2 2 4 2 2 2 2 2
	Right wheel-set (Containing items 1, 3, 4, 5, 6, 7, 8, 9 10, 11, 12, 13 and 14)	1521/81-000/0	1	1	1	1
	Left wheel-set (Containing items 1, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14)	1521/80-000/0	1	1	1	1

19.05.95.











ROTATING BLADE HAZARD KEEP AWAY ROTATING BLADES

To prevent serious injury or death from thrown objects or blade contact:

- 1. Do not operate with cover removed.
- 2. Do not point discharge toward people, animals or buildings when operating.
- 3. Do not place hands or feet under deck when operating or when engine is running.

BALTIC KORN A/S. DK-4700 NAESTVED. DENMARK.

A CAUTION

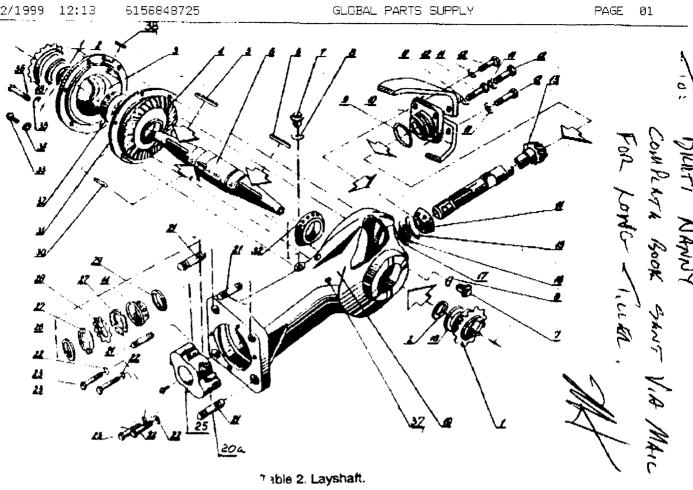
- 1 Read Operator's Manual before using.
- 2. Do not permit riders.
- 3. Do not operate with guard removed.
- Keep hands, feet, hair and clothing away from moving parts.
- Place all controls in neutral, stop engine, set park brake, remove ignition key and wan for all moving parts to stop before servicing, adjusting, repairing or undiugging.
- 6 Remove bystanders, especially children, before starting or while operating.
- 7 Block up before working beneat unit.
- 8. Review safety instructions annually.

BALTIC KORN A'S.DK-4700 NAESTVED.DENMARK

BALTIC PARTS DISTRIBUTORS

310 South College Street Lebanon, Tennessee 37087. Phone Toll Free 888–914–0777. Fax 615–443–3956.

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Securing ring, cpl. Securing ring A60x80x8 Cover, gear casing Bevel gear with arc teeth A Key Shaft Plug A M16St Seal Packing ring Mounting cover B Washer 13 Screw M12x1.25x30 -8.8-18 Shaft with bevel gear with arc teeth A Angular bearing 32208 Spacer washer 1.0 Spacer washer 0.3 Spacer washer 10.2 Packing ring 99.2x5.7 Gear casing Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting StB 1/8/450 Packing ring A35x55x12 Nut, bearing KM8 A Tooth washer MB 8 Tooth washer MB 8 Packing ring A40x68x10 Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring assy. with packing ring assy. Bevel gear	Layshaft.	ift.	
Securing ring, cpl. Securing ring A60x80x8 Cover, gear casing Bevel gear with arc teeth A Key Plug A M16St Seal Mounting cover B Washer 13 Screw M12x1.25x30 -8.8-1 8 Shaft with bevel gear with arc teeth A Angular bearing 32208 Spacer washer 0.3 Spacer washer 0.2 Packing ring 99.2x5.7 Gear casing Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting StB 1/8/450 Packing ring A35x55x12 Ph-85/M- A18x11x40 Cover Angular bearing 30212 Screw M10x10-5 6 A Seat, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring assy. with packing ring assy. Bevel gear 1500/01-0 150	N	Description	Part number
Revel gear with arc teeth A 1500/01-0; Ney Shaft 1500/01-0; Soal 1500/01-0; Soal 1500/01-0; Mounting cover B Washer 13 Screw M12x1.25x30 PN-78/M-8, Angular bearing 32208 Spacer washer 0.3 Spacer washer 0.2 Packing ring 99.2x5.7 Gear casing Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting StB 1/8/450 Packing ring A40x68x10 PN-72/M-Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring assy. with packing ring assy. Bevel gear 1500/01-0	ωN-	Securing ring, cpl. Securing ring A60x80x8 Cover, gear casing	1500/01-022/0 PN-72M-86964 1500/01-017/0
Shaft Shaft Shaft Shaft Seal Plug A M16St Seal Seal Packing ring Mounting cover B Washer 13 Screw M12x1.25x30 -8.8-18 Shaft with bevel gear with arc teeth A Angular bearing 32208 Spacer washer 0.2 Packing ring 99.2x5.7 Gear casing Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting StB 1/8/450 Packing ring A40x68x10 PN-72/M-Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring assy. Sevel gear		arc teeth A	1500/01-032/0
Plug A M16SI Seal Seal Packing ring Mounting cover B Washer 13 Screw M12x1.25x30 -8.8-1 8 Shaft with bevel gear with arc teeth A Angular bearing 32208 Spacer washer 0.3 Spacer washer 0.3 Spacer washer 1.0 Spacer washer 10.2 Screw M10x45-3.6-C Lubricant fitting SIB 1/8/450 Packing ring A35x55x12 PN-85/M- A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seal, plug washer 13 Screw M12x1.25x30-8.8 S M12x1.25x30-8.8 S Securing ring assy. with packing ring assy. Bevel gear BN-71/190 1500/01-0	ກບ	Shaft	1500/01-006/0
Packing ring Mounting cover B Washer 13 Screw M12x1.25x30 -8.8-1 8 Shaft with bevel gear with arc teeth A Angular bearing 32208 Spacer washer 0.3 Spacer washer 0.2 Packing ring 99.2x5.7 Gear casing Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting StB 1/8/450 Packing ring A35x55x12 PN-85/M-Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring assy. Bevel gear Sepacer washer assy. Bevel gear	~ ~	>	BN-71/1902-21
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Shaft with bevel gear with arc teeth A Angular bearing 32208 1500/01-0 Spacer washer 0.2 Spacer washer 0.2 Packing ring 99.2x5.7 Gear casing Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting StB 1/8/450 Packing ring A40x68x10 PN-72/M-Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring assy. Bevel gear 1500/01-0	2	Screw M12x1.25x30	ON_R5/M_R9105
with arc teoth A Angular bearing 32208 Angular bearing 32208 Spacer washer 1.0 Spacer washer 0.2 Packing ring 99.2x5.7 Gear casing Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting SIB 1/8/450 Packing ring A35x55x12 PN-85/M-Packing ring A40x68x10 Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. With packing ring assy. Bevel gear		Shaft with bevel gear	- (4-00) ra- 02 r 00
Spacer washer 0.3 Spacer washer 0.3 Spacer washer 0.3 Spacer washer 0.2 Packing ring 99.2x5.7 Gear casing Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting SIB 1/8/450 Packing ring A35x55x12 PN-72/M- Nut, bearing KM8 A Tooth washer MB 8 Packing ring A40x68x10 Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug Washer 13 Screw M112x1.25x30-8.8 S Securing ring assy. with packing ring assy. Bevel gear		with arc teeth A	1500/01-030/0
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Spacer washer 0.2 Spacer washer 0.2 Packing ring 99.2x5.7 Gear casing Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting SIB 1/8/450 Packing ring A35x55x12 PN-85/M- Nut, bearing KM8 A Tooth washer MB 8 Packing ring A40x68x10 Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug washer 13 Screw M12x1.25x30-8.8 S M12x1.25x30-8.8 S Securing ring assy. with packing ring assy. Bevel gear	6		1500/01-042/0
Gear casing Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting SIB 1/8/450 Packing ring A35x55x12 PN-72/M- Packing ring A40x68x10 Pn-72/M- Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5 6 A Seat, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring Spacer washer assy. Bevel gear	18 18	Ģ	PN-60/M-86961
Layshaft head A Double-nutted pin Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting StB 1/8/450 Packing ring A35x55x12 PN-75/M-Packing ring A40x68x10 Packing ring A40x68x10 PN-72/M-Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring Spacer washer assy. Bevel gear	<u> </u>	•	1500/01-016/0
Spring washer 10.2 Screw M10x45-3.6-C Lubricant fitting SIB 1/8/450 Packing ring A35x55x12 PN-72/M- Nut, bearing KM8 A Tooth washer MB 8 Packing ring A40x68x10 Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug Washer 13 Screw M12x1.25x30-8.8 S M12x1.25x30-8.8 S Securing ring assy. with packing ring Spacer washer assy. Bevel gear	202	_	1500/01-051/0
Screw M10x45-3.6-C Lubricant fitting StB 1/8/450 Packing ring A35x55x12 PN-76/M- Packing ring A35x55x12 PN-72/M- Nut, bearing KM8 A Tooth washer MB 8 Packing ring A40x68x10 Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seal, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring Spacer washer assy. Bevel gear	% 2	Spring washer 10.2	77/M
Lubricant living StB 1/8/450 Packing ring A35x55x12 PN-72/M- Packing ring A40x68x10 PN-82/M- Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug Washer f3 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring Spacer washer assy. Bevel gear	23	3.6	PN-85/M-82101
Packing ring A35x55x12 PN-72/M-Nut, bearing KM8 A Tooth washer MB 8 Packing ring A40x68x10 PN-82/M-Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Soal, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring spacer washer assy. Bevel gear 1500/01-(150000-(1500000000000000000000000000	7	SIB 1/8/450	76/M-
Nut, bearing NM8 A Tooth washer MB 8 Packing ring A40x68xt0 PN-82/M- Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seal, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy with packing ring Spacer washer assy Bevel gear	26	Packing ring A35x55x12	72/M-
Packing ring A40x68x10 Prismatic key A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seal, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring Spacer washer assy. Bevel gear	27 28	Tooth washer MB 8	82/M-
A18x11x40 Cover Angular bearing 30212 Screw M10x10-5.6 A Seal, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring Spacer washer assy. Bevel gear	28	Packing ring A40x68x10	PN-72/M-86964
Cover Cover Angular bearing 30212 Screw M10x10-5.6 A Seat, plug Washer f3 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring Spacer washer assy. Bevel gear	G	A I Av 1 1 v 40	PN-70/M-85005
Angular bearing 30212 Screw M10x10-5.6 A Seal, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy. with packing ring Spacer washer assy. Bevel gear	<u>ω</u>		1500/01-026/0
Seal, plug Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy with packing ring Spacer washer assy Bevel gear	3 83		PN-85/M-85220
Washer 13 Screw M12x1.25x30-8.8 S Securing ring assy with packing ring Spacer washer assy Bevel gear	2 2 2 3 3 4 3	× C	1500/01-024/0
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Securing ring assy. with packing ring Spacer washer assy. Bevel gear	ઝ	30-8.8	PN-74/M-82105
with packing ring 1500/01- Spacer washer assy. 1500/01- Bevel gear 1500/01-		Securing ring assy.	2000
Bevel gear 1500/01-		with packing ring Spacer washer assy.	500/01-
	27	Bevel gear	-10/000

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