

Hydraulic Drive Unit

Type 5 8006 7000

Techn. Doc. No. 362

and

Accessories for Pipe Cutting Machine



Darstellung kann vom Original abweichen

Repair Manual and Spare Parts List

Repair

General

In general, observe the safety regulations and instructions: refer to the operation and maintenance manual.

The disassembly and re-assembly is done only according to the technical drawing.

In case of damages, our service is at your disposal.

Do not disassemble the tool until you know whether the problem is in one of the modules.

Then only disassemble the tool as necessary to repair as required. Keep contaminants such as dirt and grit away from the internal parts at all times.

Always identify and correct the cause of the problem prior to re-assembling. Further wear and tool failure can result, if the original cause is not corrected.

Information for exact identification of the problem is given in the unit "Troubleshooting" of the operation manual.

Notice: The particular installation direction of the parts mentioned in the following process instructions is indicated in the drawings and the parts lists at the end of this instruction.

Spare Parts

Only genuine Spitznas spare parts may be used.

There is no warranty for damages and liability is disclaimed by Spitznas, if non-original spare parts and accessories are used.

Disassembly

Preparation of the hydraulic drive unit for disassembly

- Clean the exterior of the drive unit.
- Disconnect energy supply and secure against restart.
- Disconnect hydraulic hoses.
- Take cutting tool item 11, respectively item 12 (page 6) out of the tool holder item 8, 9 (page 8) and store it at a safe place.
- Remove drive unit item 1 (page 5) by pulling the ball lock bolts items 5 and 6 (page 8).

Disassembling modules of the drive unit

- Loosen 4 x M6 item 17 (page 14) and remove drive motor item 1 from the gear item 2 (page 8).
- Loosen 4 x M6 item 39 (page 14) and remove guard item 3 (page 8).

Disassembling motor

- Send complete drive motor item 1 to the manufacturer.
- After having repaired the drive motor, a performance test must be done.

Disassembling gear

- Before, 4 x M6 item 17 have been loosened and drive motor item 1 has been removed.
(see paragraph disassembling the modules of the drive unit)
- Remove snap ring item 37 (page 14), pull out lever item 35 together with items 33, 34 and 36.
Continue disassembling, if necessary by knocking out the grooved cylindrical pin item 36.
- Loosen 4 x M6 item 29, pull the gear rim item 14 with the parts items 8, 9, 10, 11, 12, 13, 15 and 26 out of the gear housing item 1.
- Remove snap ring item 6 and pull pinion shaft item 2 with items 5 and 4 out of gear housing item 1.
- Loosen 4 x M5 item 32 and pull gear cover item 30 with the inner parts items 16, 19 and 24 out of gear housing item 1.
- Continue disassembling according to the component drawings, if necessary.

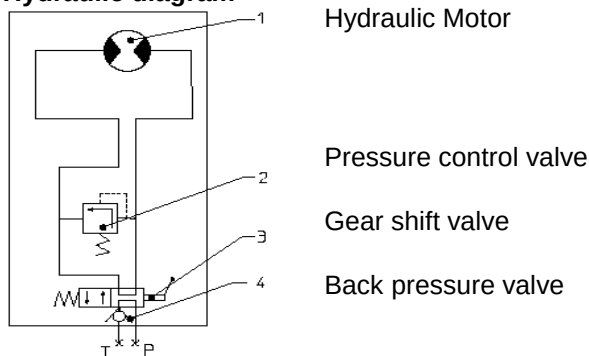
Re-assembly

The re-assembly is done in the reverse order.

Observe the following:

- Clean all parts before re-assembling.
- It is recommended to replace O-rings, bearings, radial shaft sealing rings and other sealings by new parts.

Hydraulic diagram



In general, it is recommended to replace all wear parts during repair.

Lubricant

Fill-up the gear with 25 g of grease.

Grease SPITZNAS reference number: 9 9902 0130 (400 g); 9 9902 0250 (100 g)

After finishing the assembly, a functional check of the drive unit must be done.
(see technical specification of the operation and maintenance manual).

Tighten all screws and nuts according to the instructions, when re-assembling.

Tightening torques			
Item	Description	Torque	Remark
5	Socket head screw M6	18 Nm	Page 10
10	Socket head screw M8	24 Nm	Page 10
17	Socket head screw M6	18 Nm	Page 14
29	Socket head screw M6	18 Nm	Page 14
32	Counter sunk screw M5	12 Nm	Page 14
39	Socket head screw M6	18 Nm	Page 14
8	Socket head screw M5	12 Nm	Page 19
8	Socket head screw M5	12 Nm	Page 27

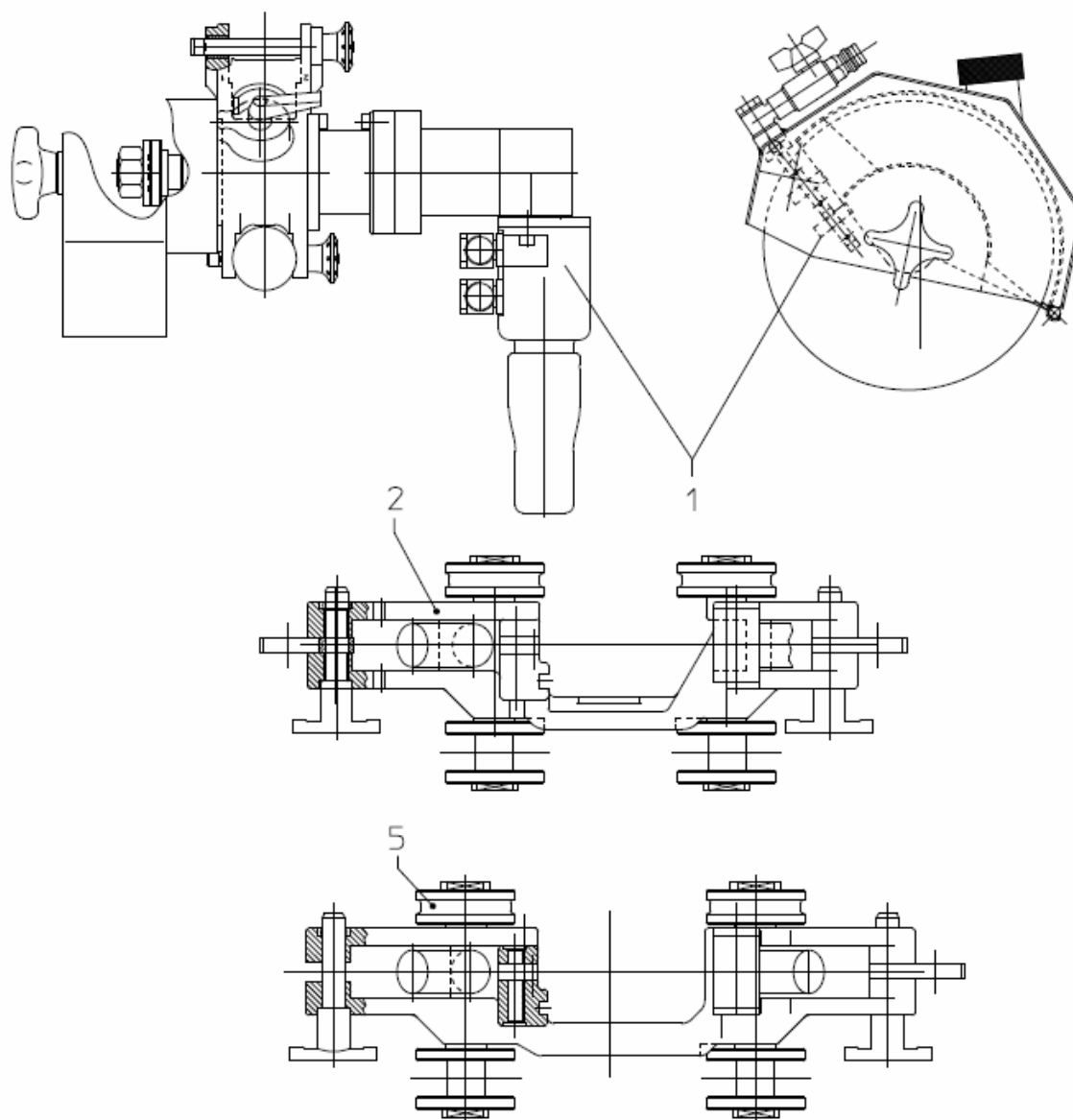
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Spare Parts List

Description:

Pipe cutting machine, assy.

Part and drawing number:

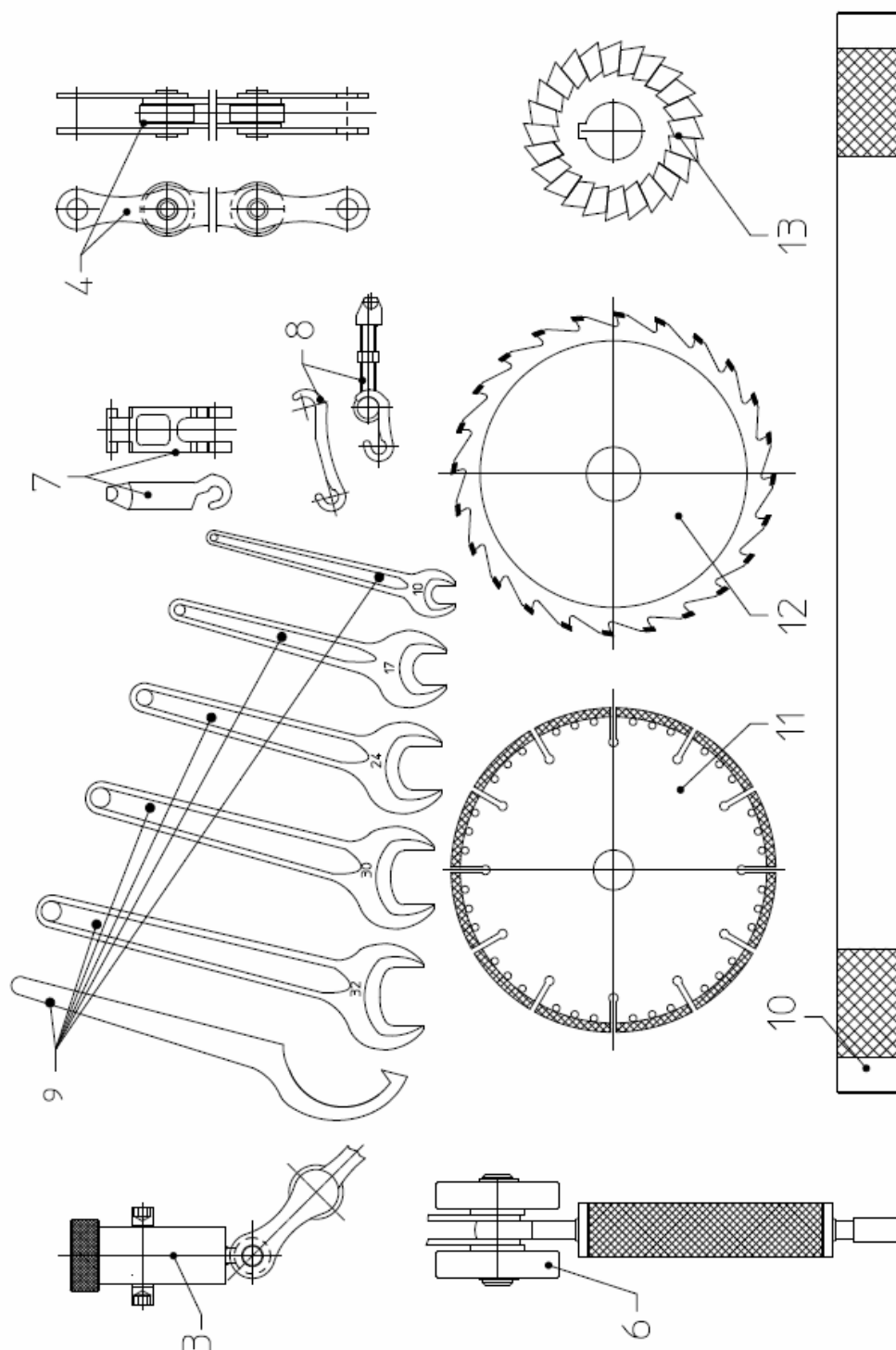


Spare Parts List

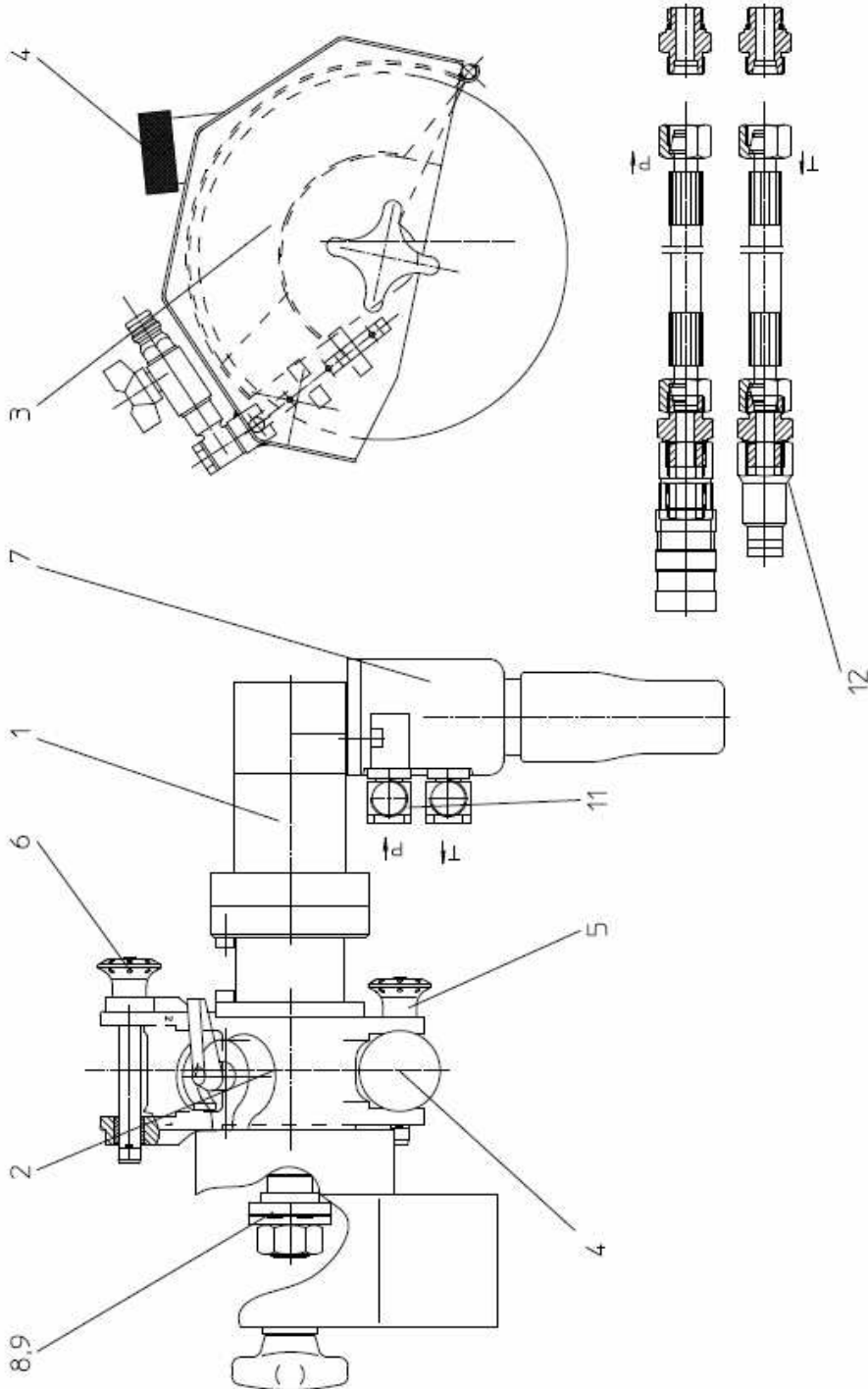
Description:

Pipe cutting machine, assy.

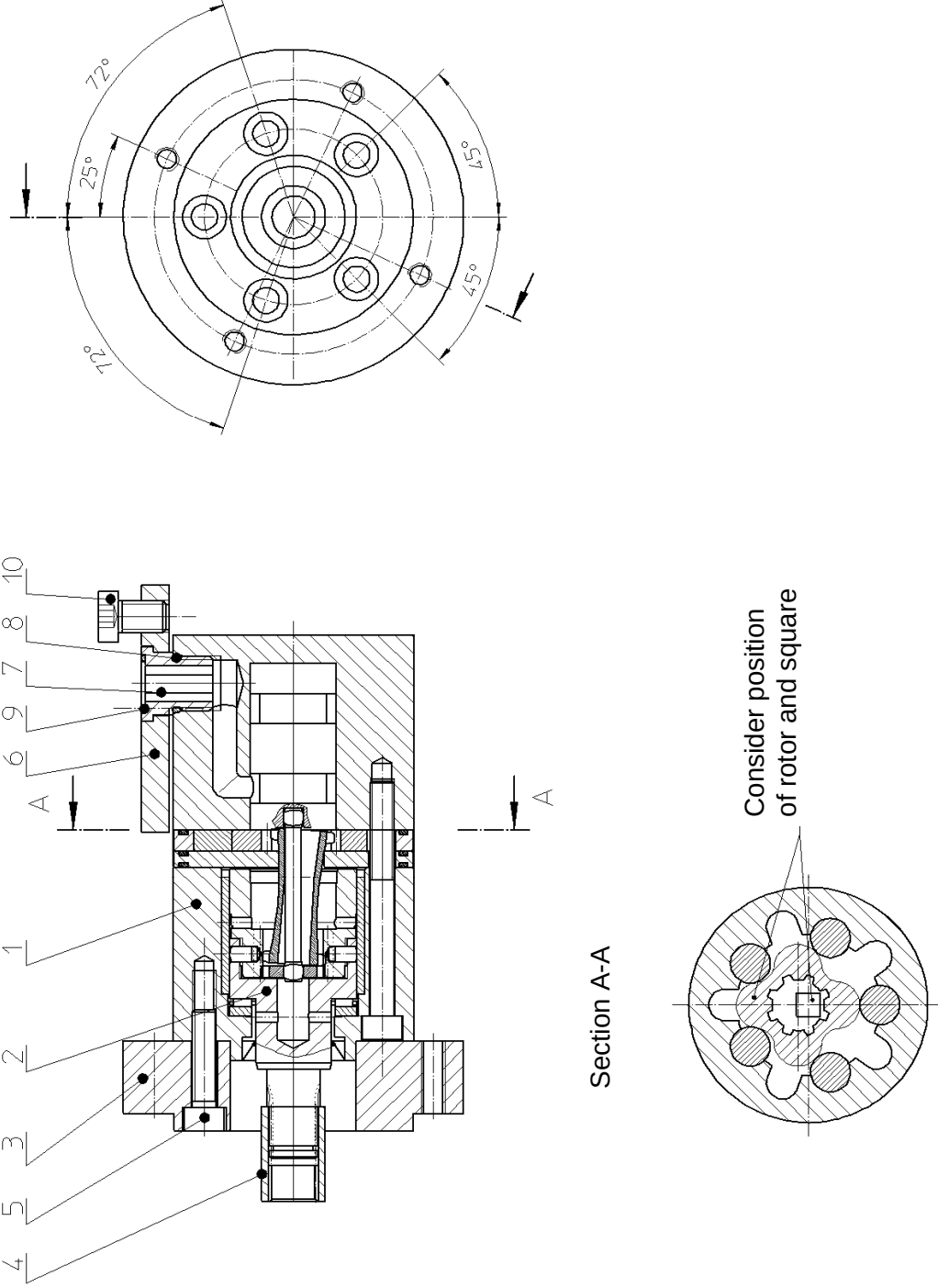
Part and drawing number:



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Spare Parts List	
Description:	Part and drawing number:
Drive Unit	5 8006 7000
	

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Spare Parts List	
Description: Hydraulic Drive Motor	Part and drawing number: 5 8006 1000
	

Spare Parts List					
Description:			Part and drawing number:		
Twist Throttle			5 1220 3700		
Item	Qty.	Description	Part and drawing no.		Remarks
301	1	Valve housing, assy.	5 1220 3910		
302	1	Rotary sleeve	5 1220 3020		
303	1	Pressure rod	5 1220 3060		
304	1	Threaded pin	9 1810 0070		
305	1	Snap ring	9 1702 0020		
306	1	Gate	5 1220 3050		
	1	Valve insert, assy.	2 1317 3300		item 307 - 326
307	1	Snap ring	9 1703 0260		
308	1	Socket head screw	9 1110 2090		
309	1	Washer	9 3302 0150		
310	1	Governor piston valve	2 1317 3320		
311	1	Spring plate	2 1317 3070		
312	1	Slide	2 1317 3110		
314	1	Sleeve	2 1317 3090		
315	1	Guide	2 1317 3100		
317	1	Pressure spring	9 1803 1700		
318	1	Locking washer	9 1706 0180		
319	1	O-Ring	9 1901 3290	*	
320	1	O-Ring	9 1901 9800	*	
321	1	O-Ring	9 1901 2550	*	
322	1	Threaded pin	9 1148 3030		
323	1	O-Ring	9 1901 6020	*	
326	1	O-Ring	9 1901 2080	*	
331	2	Locking screw	9 1174 0010		
333	2	Adjusting washer	9 3331 0130		
333	2	Adjusting washer	9 3331 2010		
390	1	Safety valve, assy.	5 1220 3400		
		* Wear parts to be stored in case of			
		continuous use			

Spare Parts List	
Description:	Part and drawing number::
Twist Throttle	5 1220 3700
Glued with Loctite 243 B 301 306 308 304 302 303 333 305 307 310 309 317 311 318 314 319 320 321 323 315 326 312 B-B Set pressure 120 bar 390	

Spare Parts List					
Description:			Part and drawing number.		
Gearbox two-stage			5 8006 4000		
Item	Qty.	Description	Part and drawing no.		Remarks
1	1	Gearbox housing	5 8003 4010		
	1	Pinion shaft, assy.	5 8006 4950		item 2 + 3
2	1	Pinion shaft	5 8006 4170		
3	1	Pressure piece	9 1810 0020		
4	1	Snap ring	9 1702 0120		
5	1	Grooved ball bearing	9 1002 0030	*	
6	1	Snap ring	9 1703 0130		
	1	Spur gear, assy.	5 8002 4190		item 7 + 8
7	1	Spur gear	5 8002 4140		
8	1	Side pressure piece	9 1810 0040		
9	3	Needle sleeve	9 1014 0220	*	
	1	Planet carrier, assy.	5 8002 4930		item 9 - 12
10	1	Planet carrier	5 8002 4130		
11	3	Bearing needle	9 1019 0480	*	
12	3	Needle cage	9 1015 0790	*	
13	3	Planet wheel	5 6030 4040		
14	1	Gear rim	5 8002 4120		
15	1	Grooved ball bearing	9 1027 0590	*	
16	1	Grooved ball bearing	9 1002 0040	*	
17	4	Socket head screw	9 1110 4030		
19	1	Output shaft	5 8005 4940		
23	1	Gear rim	5 8002 4220		
24	1	Grooved ball bearing	9 1003 0060	*	
25	2	Grooved ball bearing	9 1002 0040	*	
26	3	Snap ring	9 1703 0150		
28	1	Shaft seal	9 1905 1240	*	
29	8	Socket head screw	9 1110 4030		
30	1	Gearbox cover	5 8002 4090		
32	4	Counter sunk screw	9 1113 3030		
33	1	Eccentric disc	5 8002 4200		
34	1	Cylinder pin	9 1631 0230		
35	1	Lever	9 3902 0280		
36	1	Grooved cylindrical pin	9 1625 0020		
37	1	Snap ring	9 1703 0080		
38	1	Spring pressure piece	9 1810 0030		
39	4	Socket head screw	9 1112 4070		
40	2	Bushing	5 8002 4030		
		* Wear parts to be stored in case of continuous use			

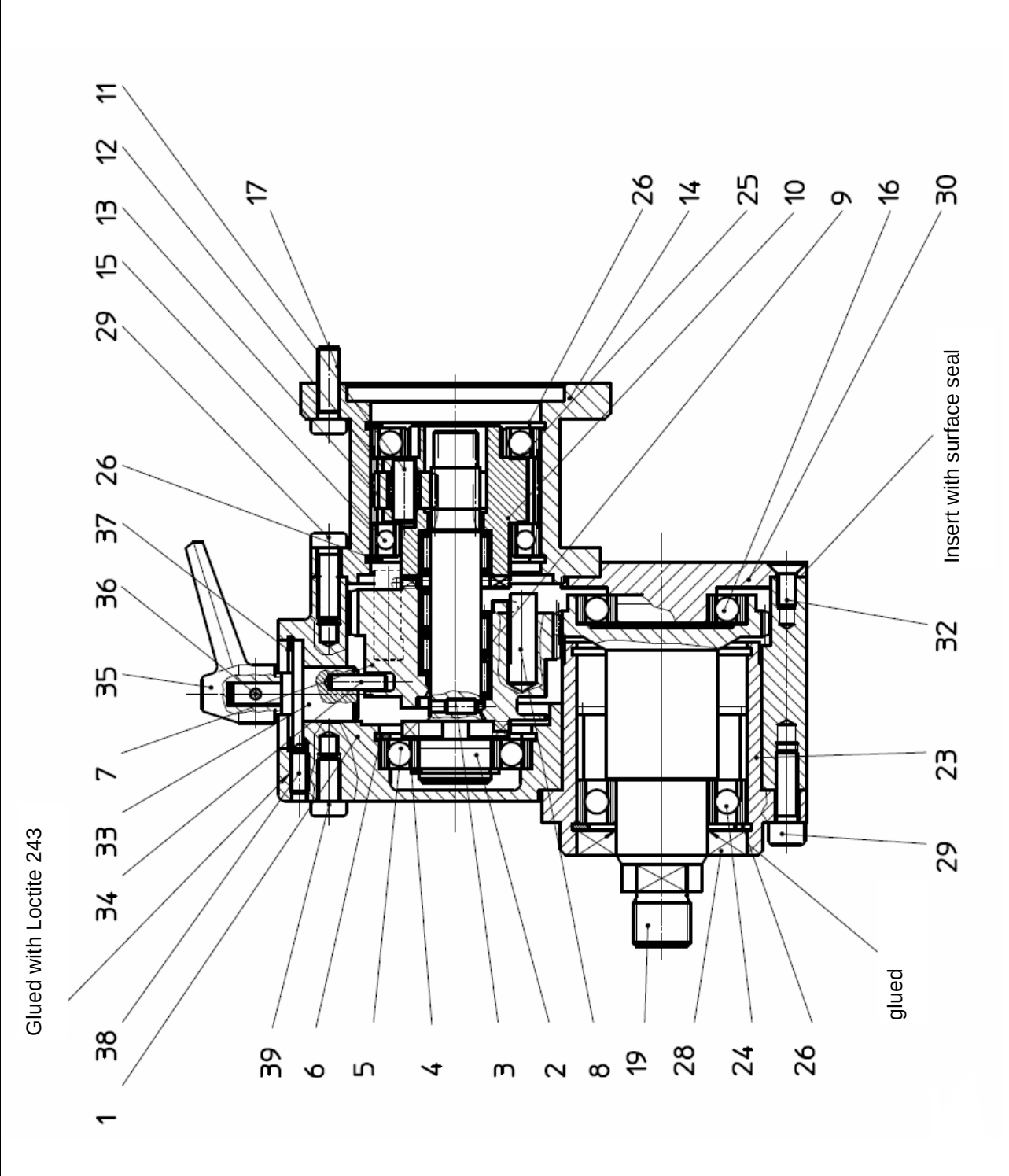
Spare Parts List

Description:

Gearbox
two-stage

Part and drawing number:

5 8006 4000



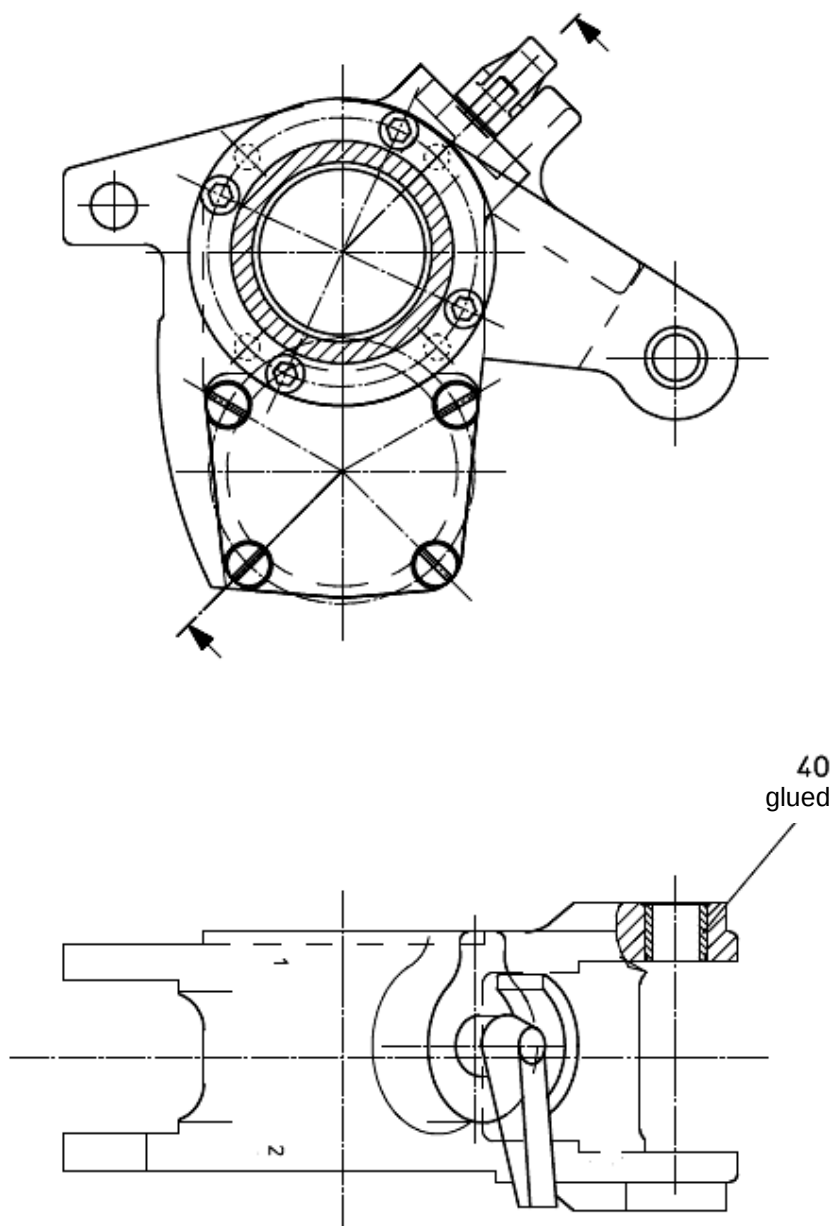
Spare Parts List

Description:

Gearbox
two-stage

Part and drawing number:

5 8006 4000



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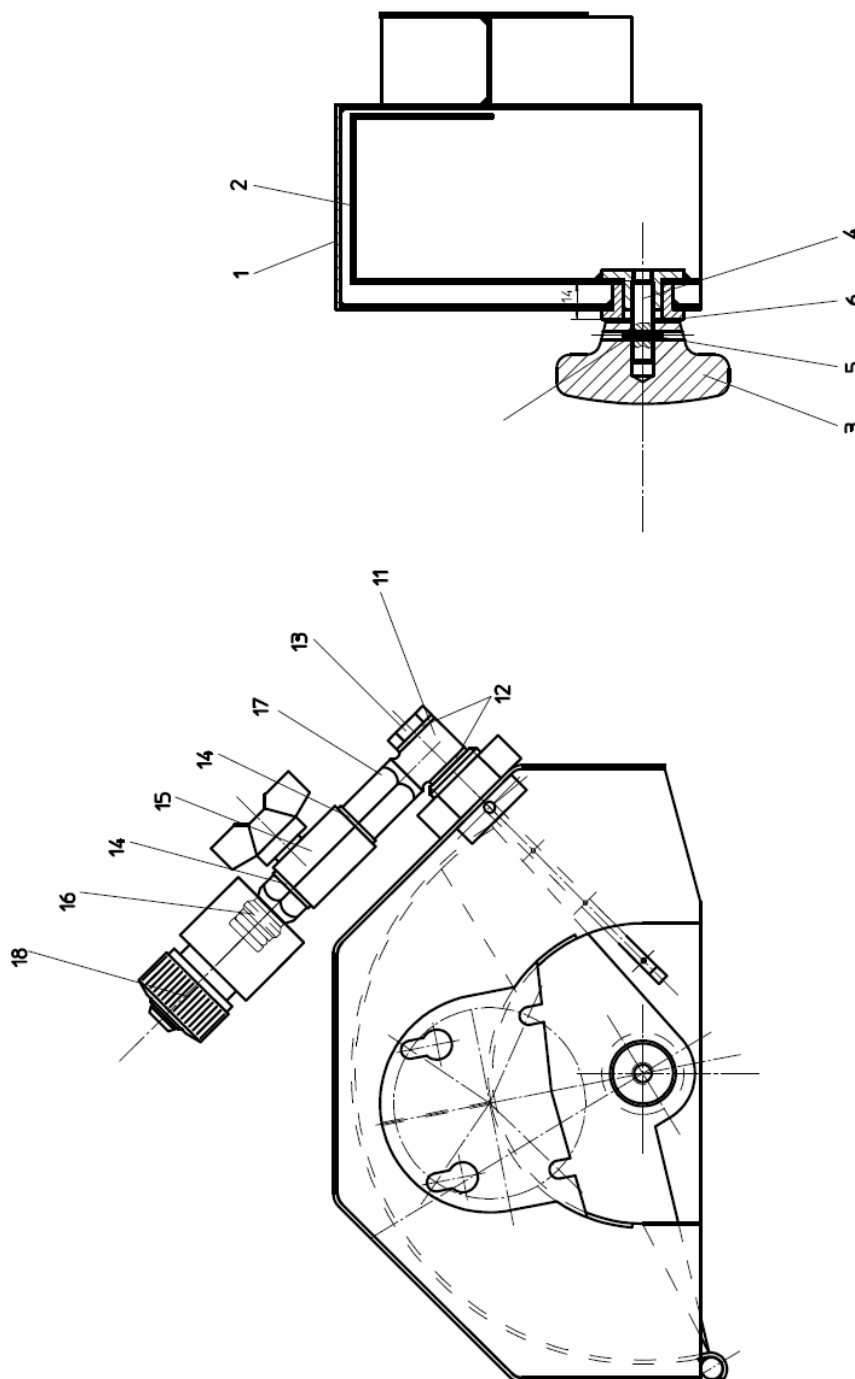
Spare Parts List

Description:

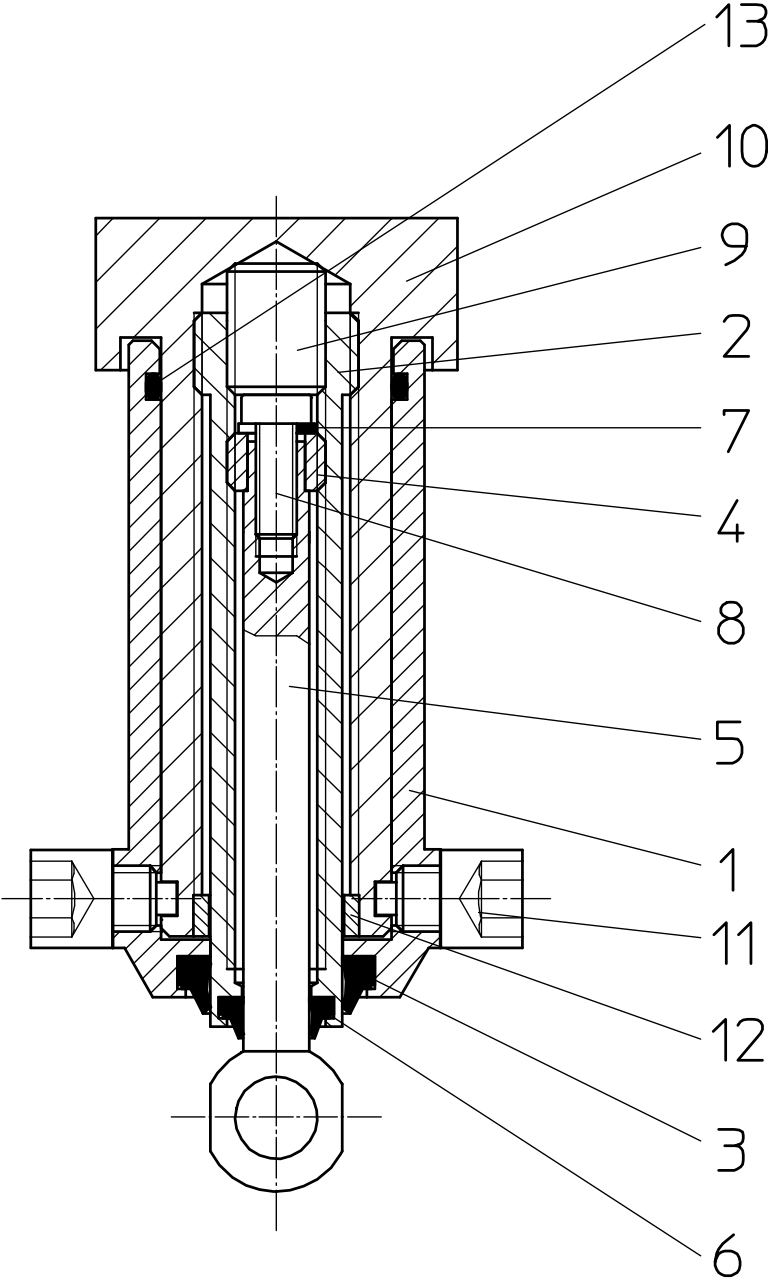
Guard
with water connection

Part and drawing number.

5 8003 8500



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Spare Parts List	
Description:	Part and drawing number::
Adjustment device	5 8003 8800
	

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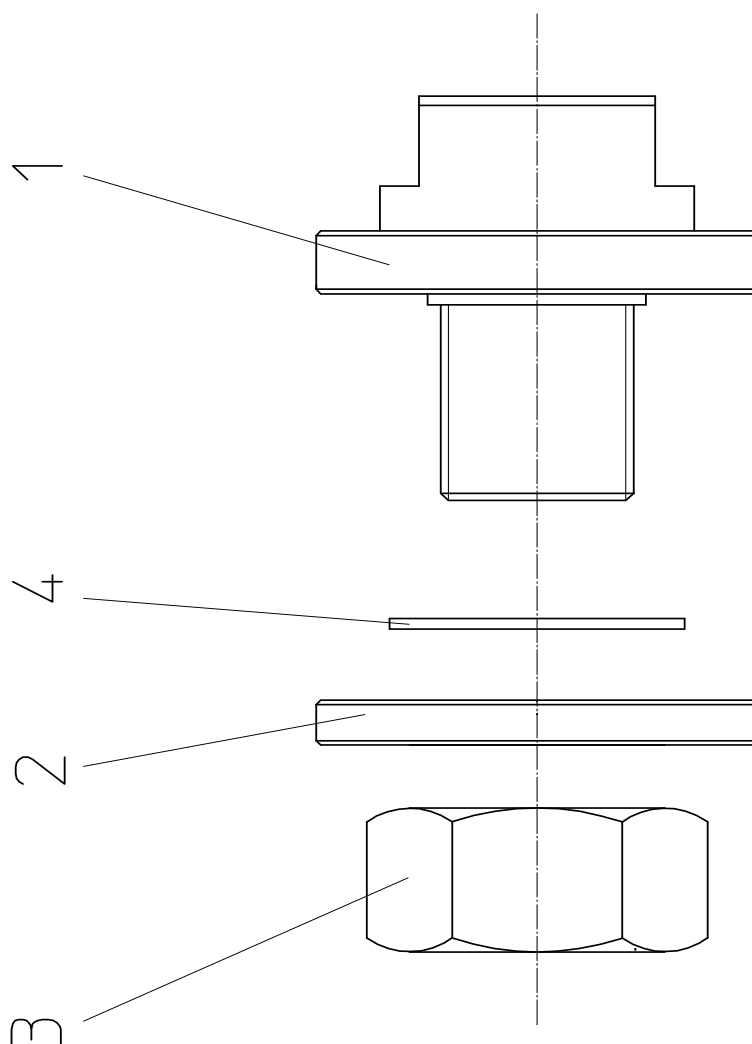
Spare Parts List

Description:

Adapter for blade, assy.

Part and drawing number:

5 8003 9700



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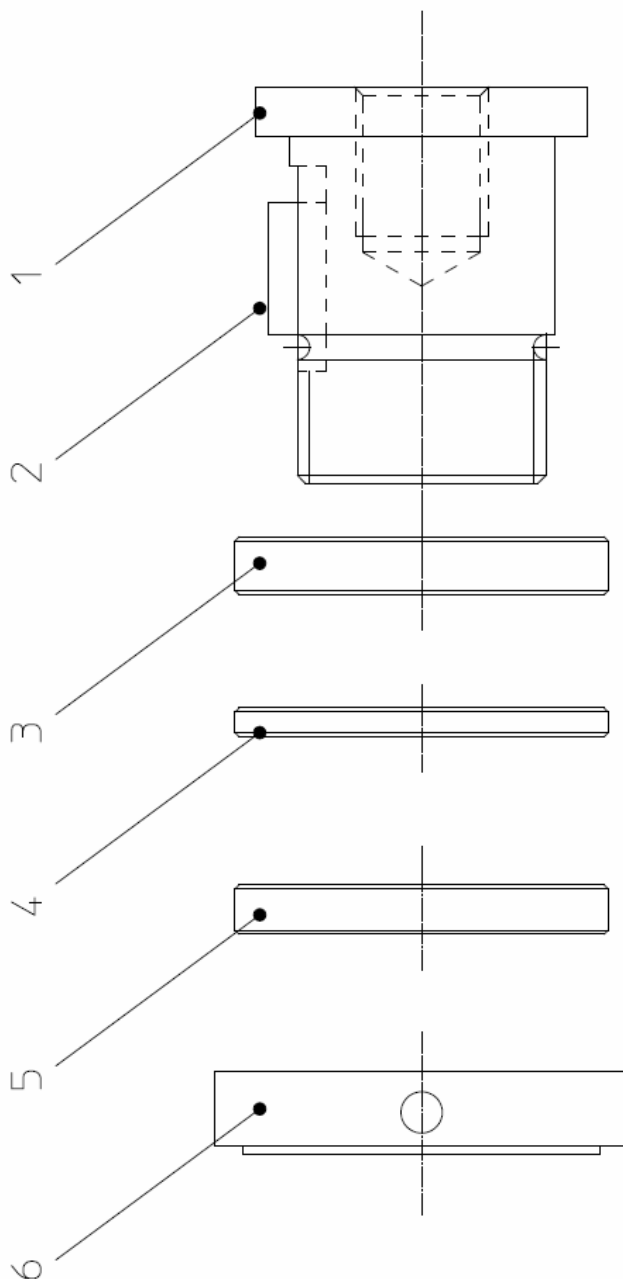
Spare Parts List

Description:

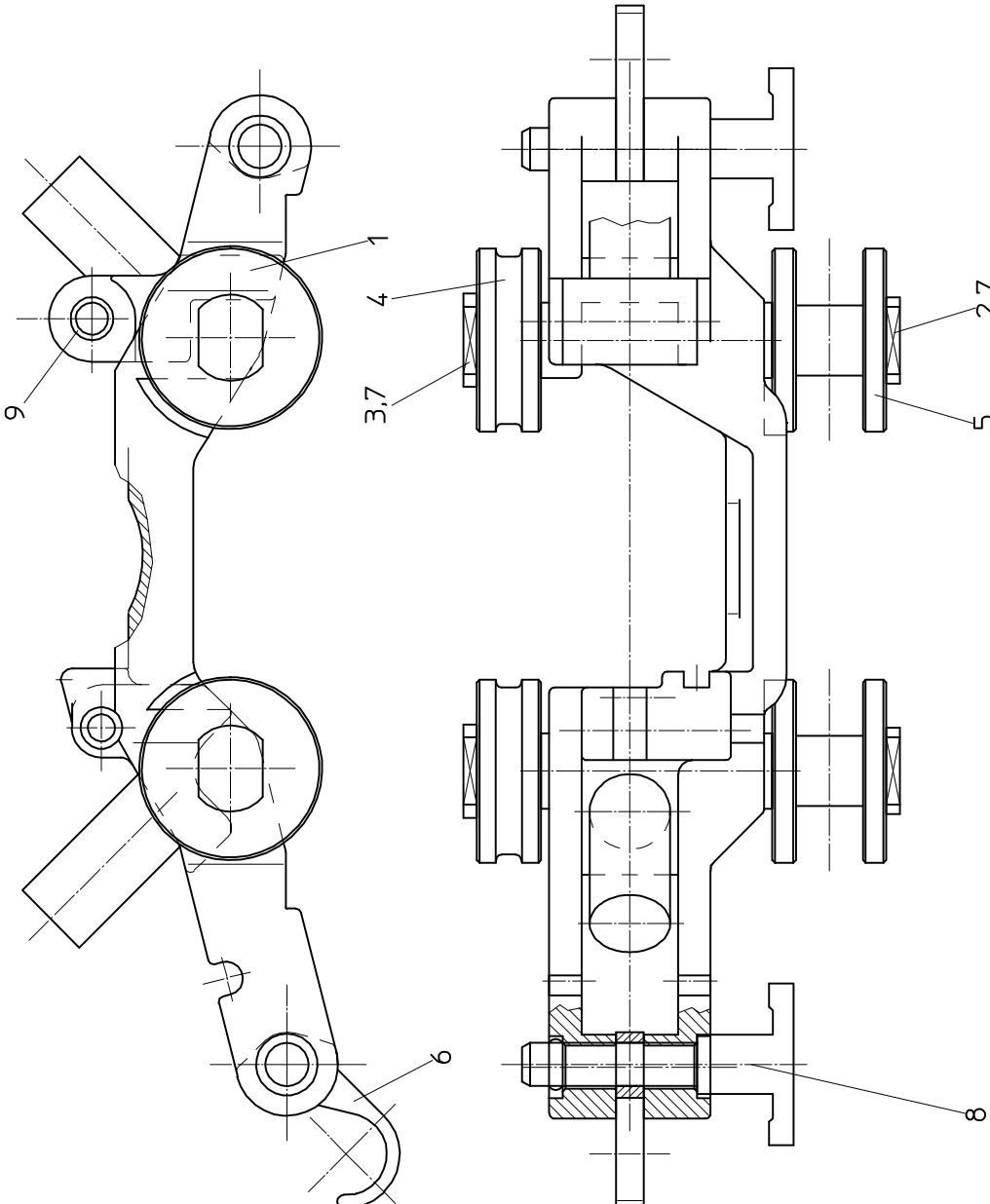
Adapter for bevelling cutter, assy.

Part and drawing number::

5 8002 9750



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Spare Parts List	
Description:	Part and drawing number:
Guide carriage small	5 8010 8090
	

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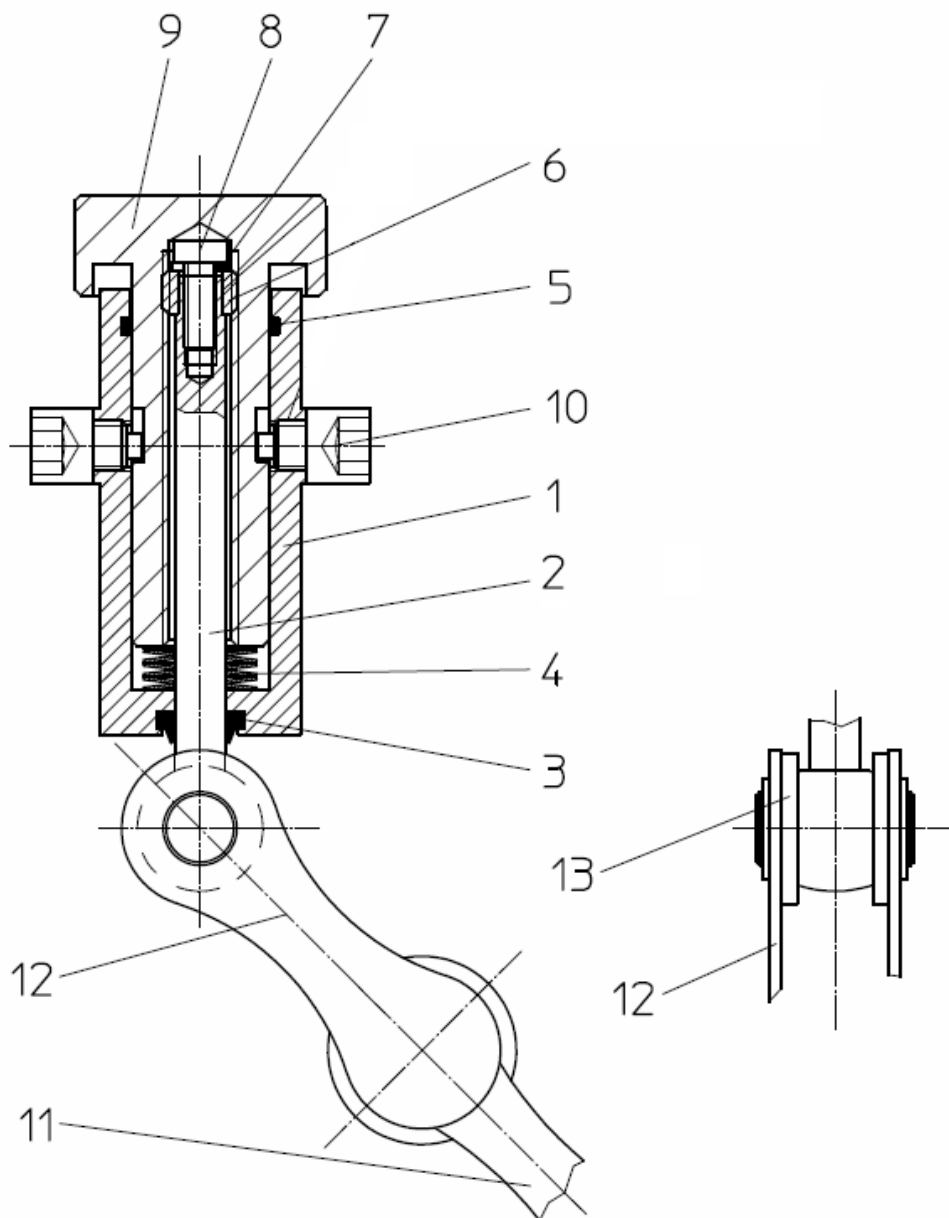
Spare Parts List

Description:

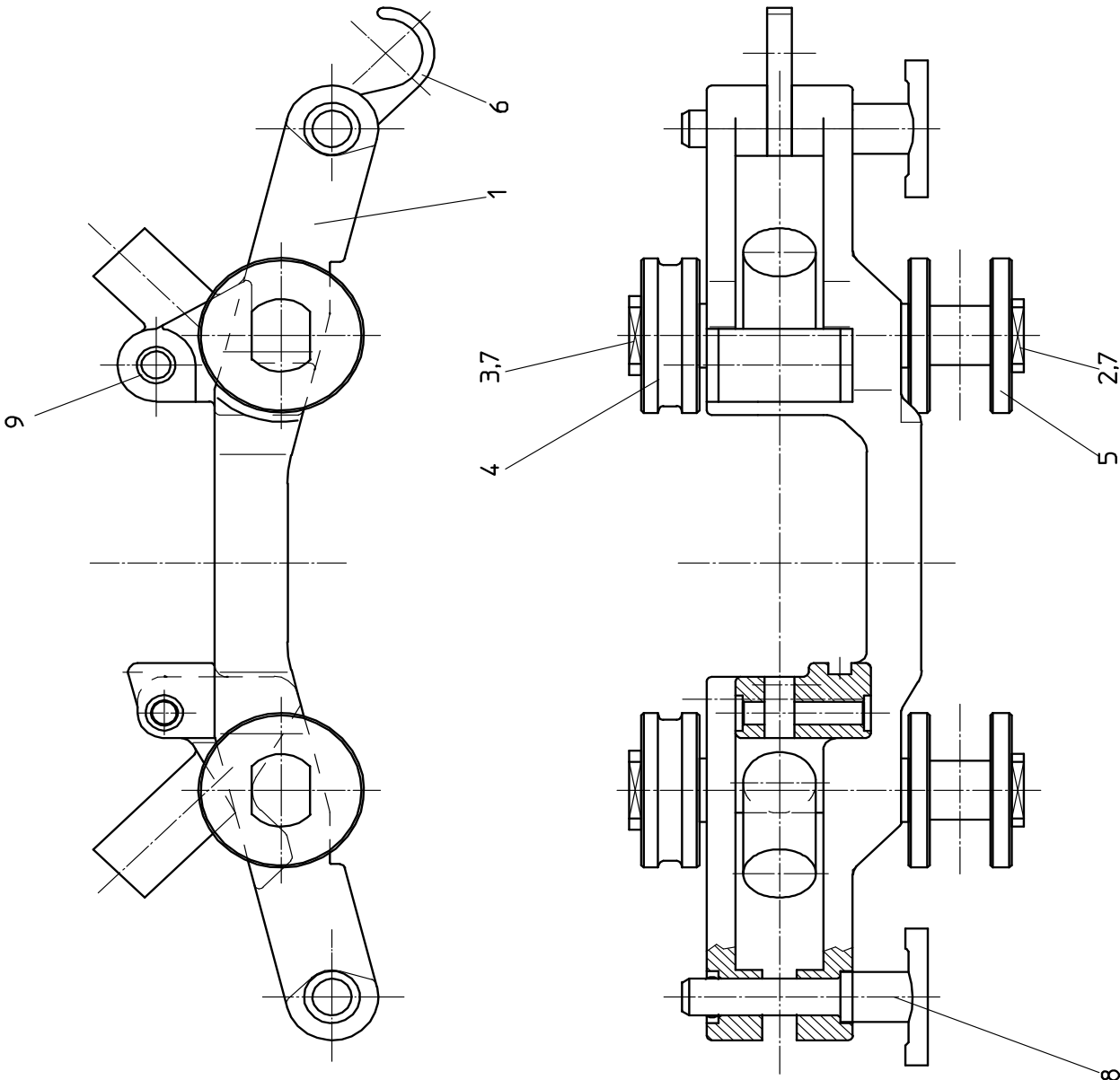
Chain tensioner small

Part and drawing number::

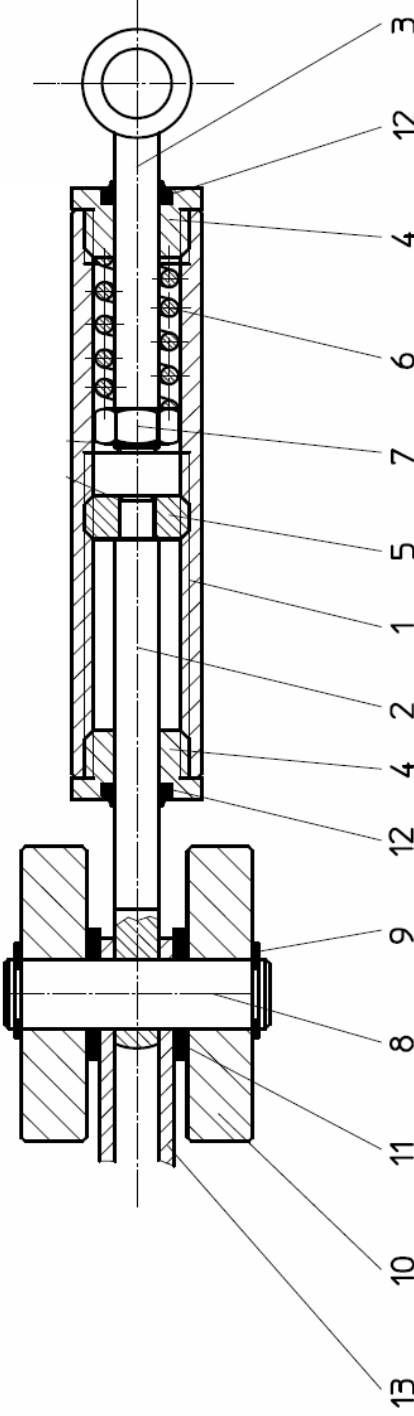
5 8003 8300



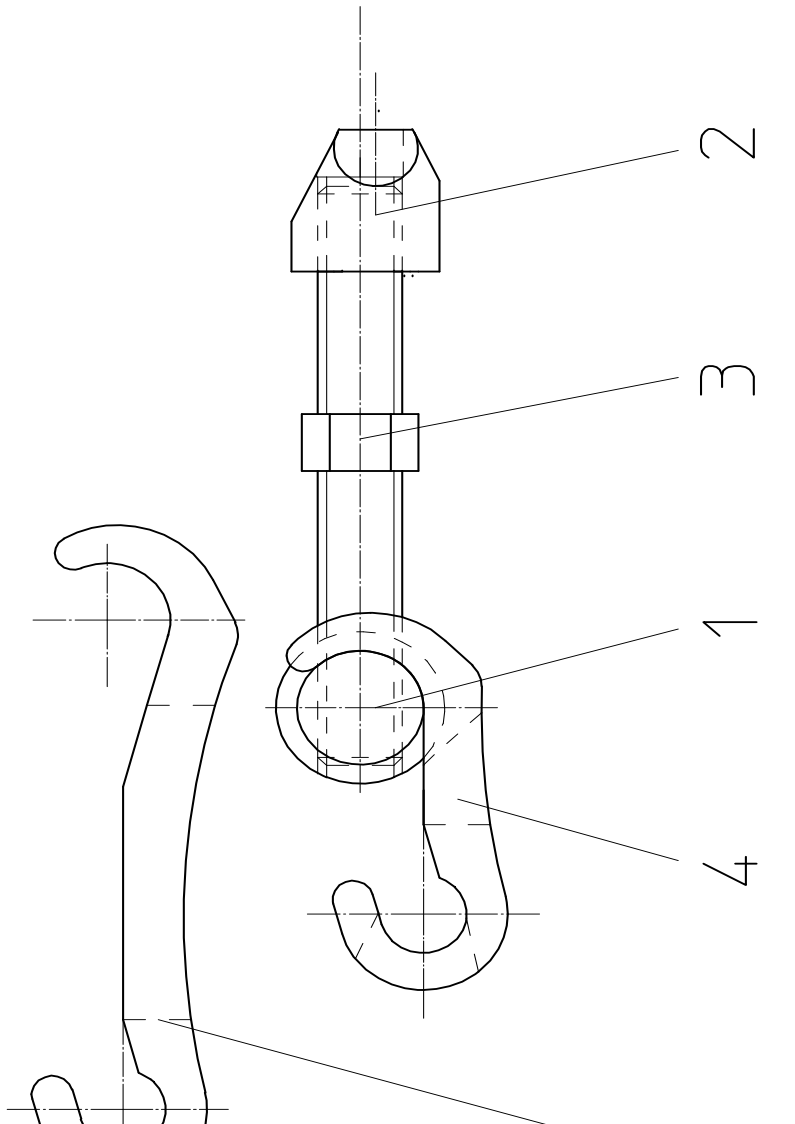
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Spare Parts List	
Description:	Part and drawing number:
Guide carriage large	5 8010 8100
	

[illegible]

Spare Parts List	
Description:	Part and drawing number:
Chain tensioner large	5 8002 8400
	

[illegible]

Spare Parts List	
Description:	Part and drawing number:
Tightener Set	5 8002 6800
	

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22 Harbor Ave, Norwalk, CT 06850 USA

Toll-free: 1-800-700-5919 (USA & Canada)

Phone: 203-853-9522 (outside USA & Canada)

Fax: 203-853-9921

E-Mail: info@csunitec.com Internet:

www.csunitec.com