

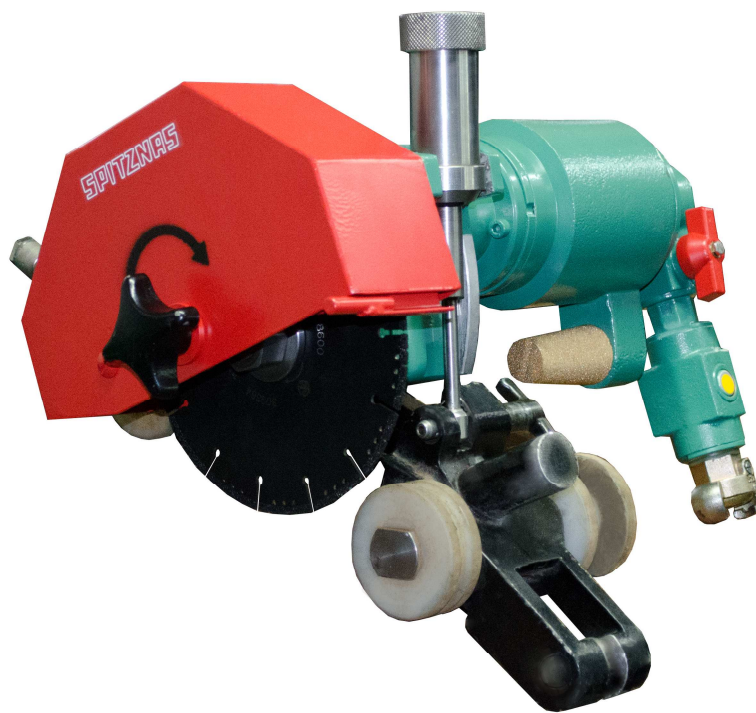
Pneumatic Drive Unit

Type 5 8002 7000

Techn. Doc. No. 352

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

Preparing of the pneumatic drive unit for disassembly

- Clean the exterior of the drive unit.
- Disconnect energy supply and secure against restart.
- Disconnect pneumatic hose.
- 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 drive unit modules

- Loosen 4 x M6 item 17 (page 17) and remove pneumatic motor item 1 from the gear item 2 (page 8).
- Loosen 4 x M6 item 39 (page 17) and remove cover hood item 3 (page 8).

Disassembling motor

- 4 x M6 item 17 were loosened (page 17) and pneumatic motor item 1 (page 8) was removed.
- Pull item 4 – 16 out of the motor housing item 1 (page 10).
- If necessary, continue disassembling according to the technical drawing.

Disassembling gear

- Before, loosen 2 x M6 item 17 and remove pneumatic motor item 1.
(see “disassembling drive unit modules”)
- Remove snap ring item 37 (page 17), 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 technical drawings, if necessary.

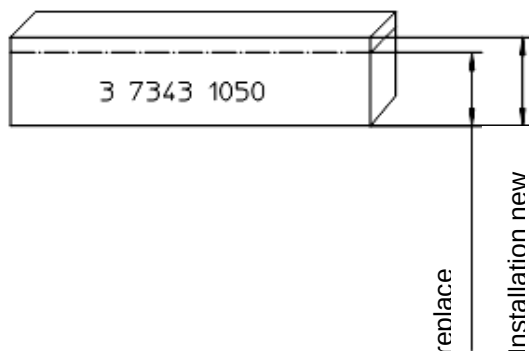
Re-assembly

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.

Vanes are **considered worn, when their width is less than 14.5 mm.**

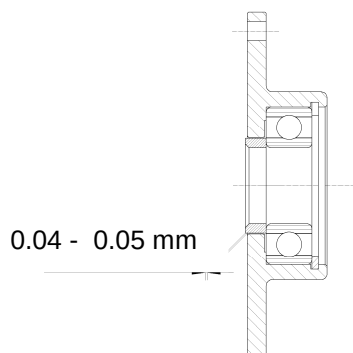


In general, it is recommended to replace all wear parts during repair.

If the bearings item 6 and item 14 in the end plates item 5 and 13 (page 10) have been replaced, the spacing has to be redone (see fig. "end plate with spacer ring").

The spacer ring must be placed 0.04 / 0.05 mm in front of the end plate. For this, the inner ball bearing ring has to be pressed into the direction of the snap ring.

„End plate with spacer ring“



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
21	Socket head screw M5	12 Nm	Page 10
8	Hexagonal screw M5	12 Nm	Page 11
17	Socket head screw M6	18 Nm	Page 17
29	Socket head screw M6	18 Nm	Page 17
32	Counter sunk screw M5	12 Nm	Page 17
39	Socket head screw M6	18 Nm	Page 17
8	Socket head screw M5	12 Nm	Page 21
8	Socket head screw M5	12 Nm	Page 29

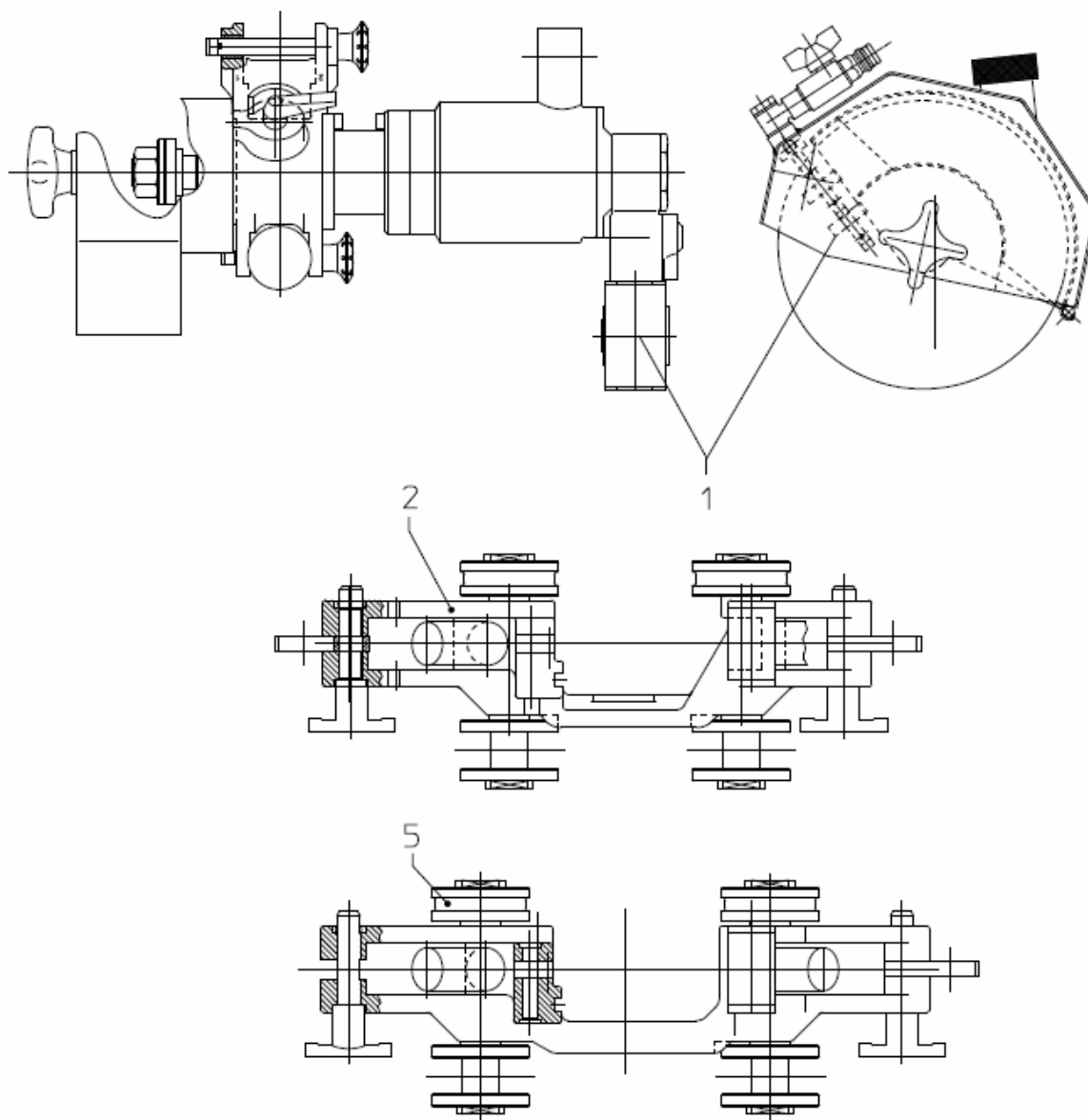
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Spare Parts List

Description:

Pipe cutting machine, assy.

Part and drawing number:

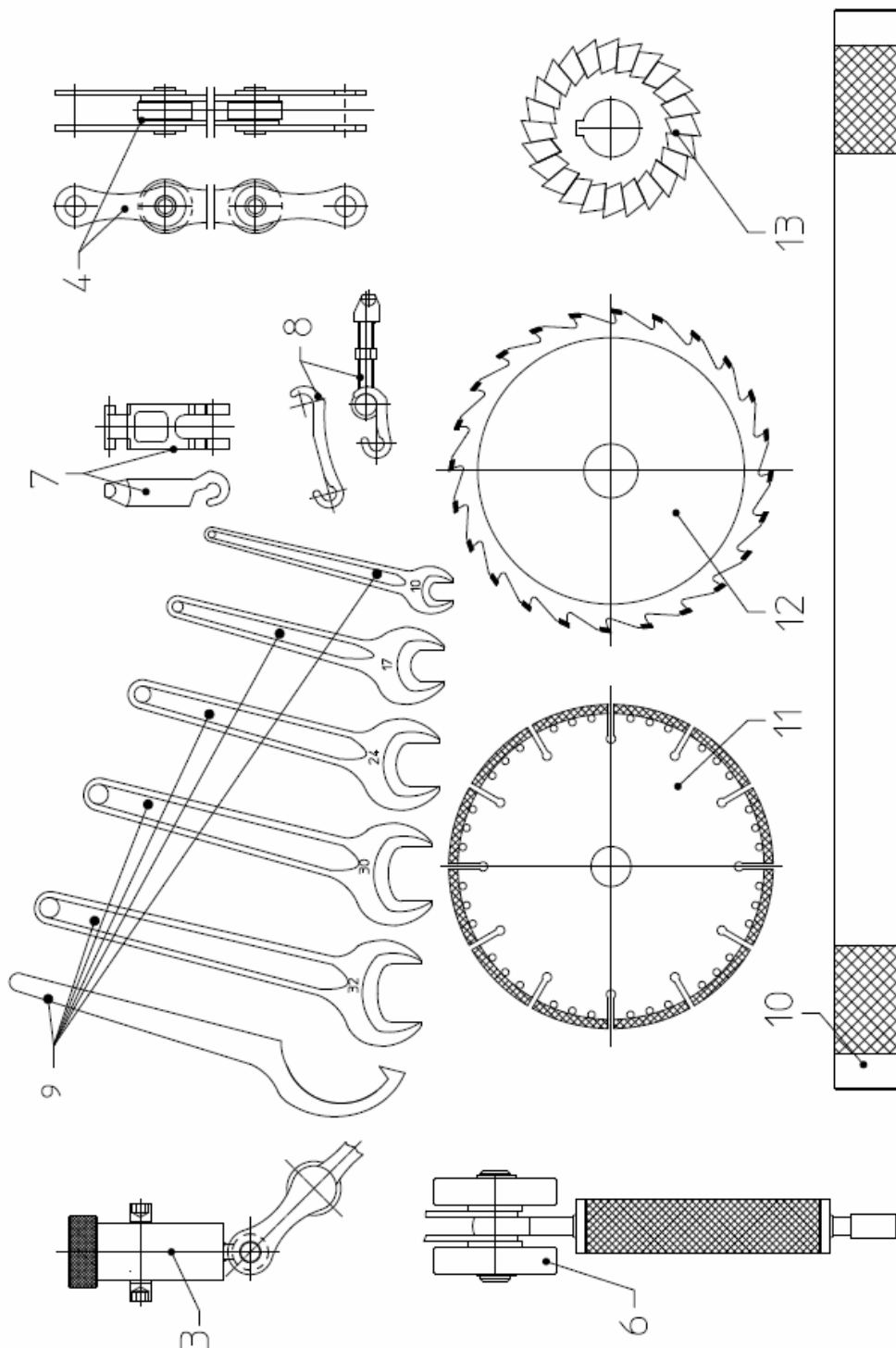


Spare Parts List

Description:

Pipe cutting machine, assy.

Part and drawing number:



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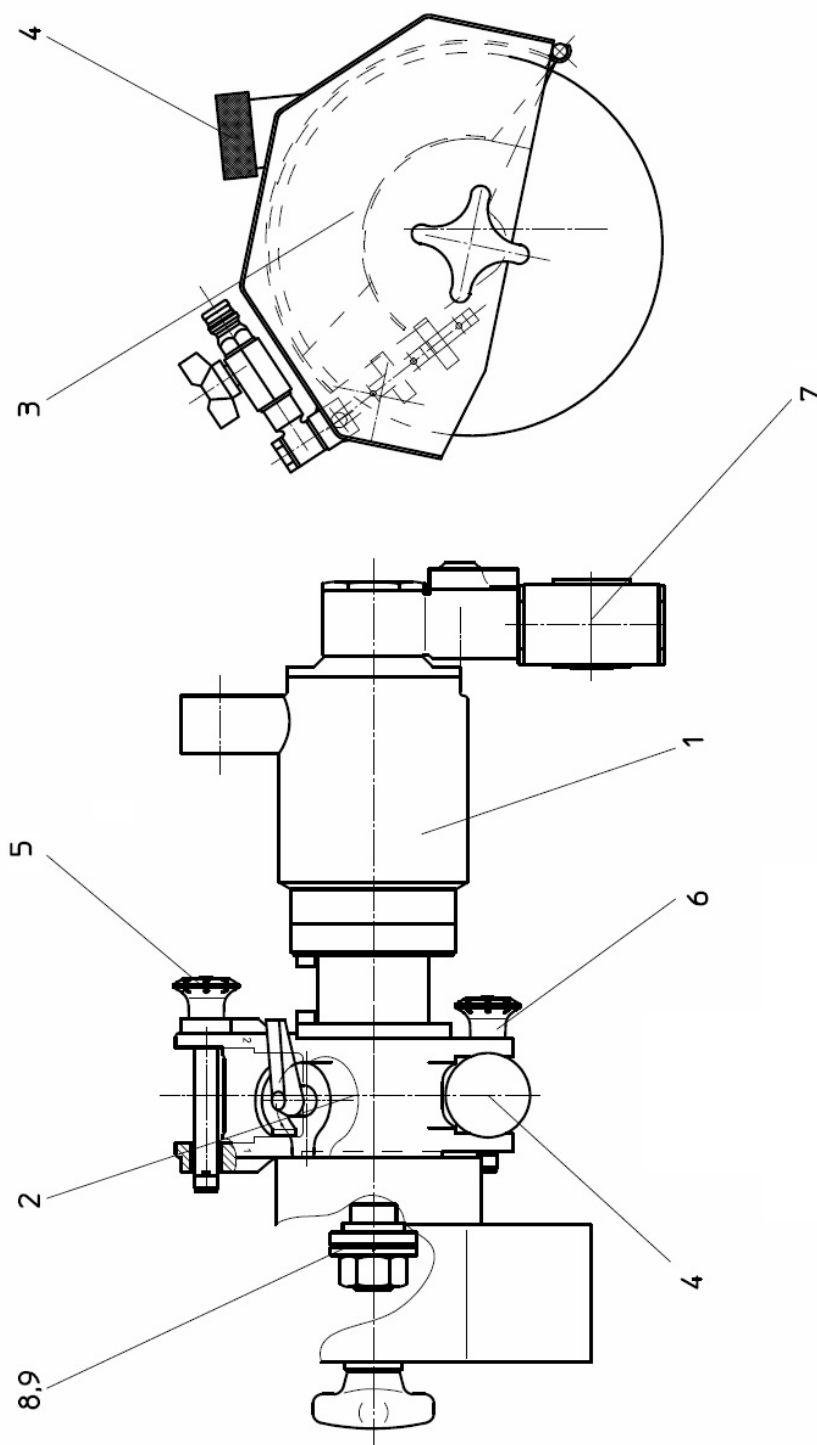
Spare Parts List

Description:

Drive Unit

Part and drawing number:

5 8002 7000



Spare Parts List					
Description:			Part and drawing number:		
Pneumatic Motor			3 7348 0050		
Item	Qty.	Description	Part and drawing no.		Remarks
1	1	Motor housing with HC	3 7343 1010		
2	1	O-Ring	9 1901 3850	*	
3	1	O-Ring	9 1901 3850	*	
4	1	Cup spring	9 1802 0260		
5	1	End plate	7 1401 1100	*	
6	1	Grooved ball bearing	9 1003 0030	*	
7	1	Snap ring	9 1703 0100		
8	1	Spacer ring	3 7594 1080		
9	1	Cylinder bushing	3 7339 1020	*	
10	1	Tension sleeve	9 1630 0270		
11	1	Rotor	5 8002 1030	*	
12	4	Vane	3 7343 1050	*	
13	1	End plate	2 1313 1110	*	
14	1	Grooved ball bearing	9 1003 0010	*	
15	1	Snap ring	9 1703 0050		
16	1	Spacer ring	2 1301 1090		
17	4	Sound absorber	1 2034 6100		
18	1	Rotary sleeve	3 7343 1120		
19	1	Motor connection cover	3 7343 1130		
20	2	Quad-Ring	9 1913 0120	*	
21	5	Socket head screw	9 1110 3120		
23	1	Locking screw	3 6606 3380		
24	1	Pivoting connection, assy.	5 8002 3200		see separate list
30	1	Spacer ring	5 8002 4080		
31	1	O-Ring	9 1921 1180	*	
32	1	Shaft seal	9 1905 0280	*	
33	1	Coupling	5 8002 4540		
34	1	O-Ring	9 1901 4190	*	
35	1	Sound absorber	9 3801 1040		
36	1	O-Ring	9 1901 2470	*	
		* Wear parts to be stored in case of			
		continuous use			

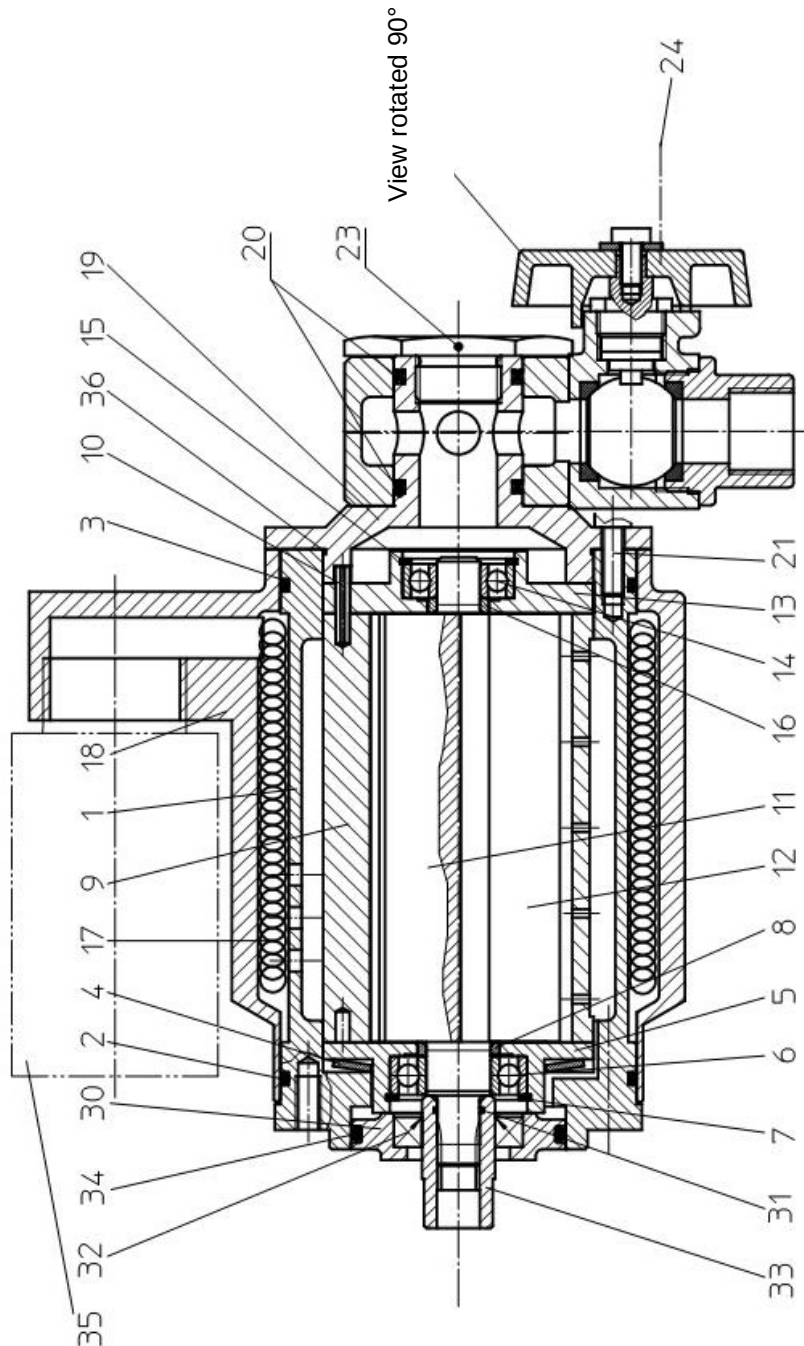
Spare Parts List

Description:

Pneumatic Motor

Part and drawing number:

3 7348 0050



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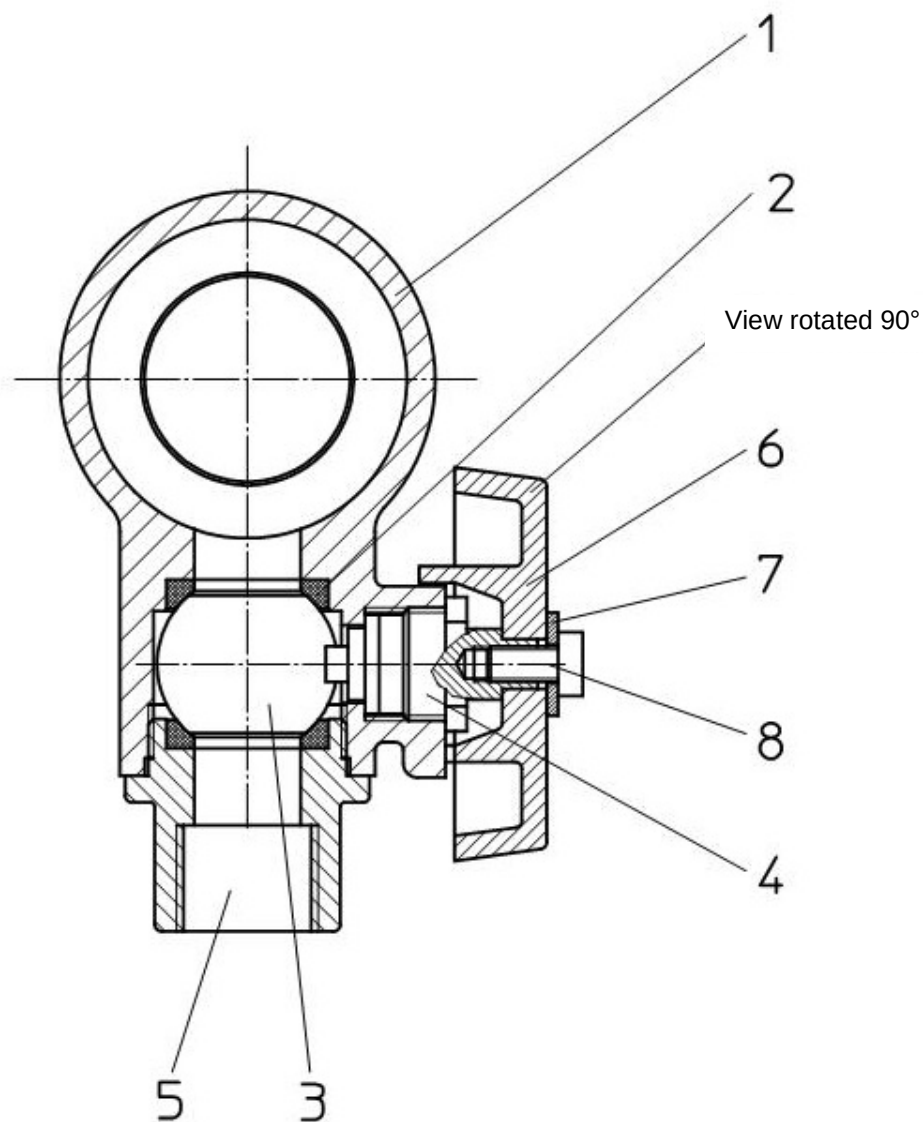
Spare Parts List

Description:

Pivoting connection, assy.

Part and drawing number:

5 8002 3200



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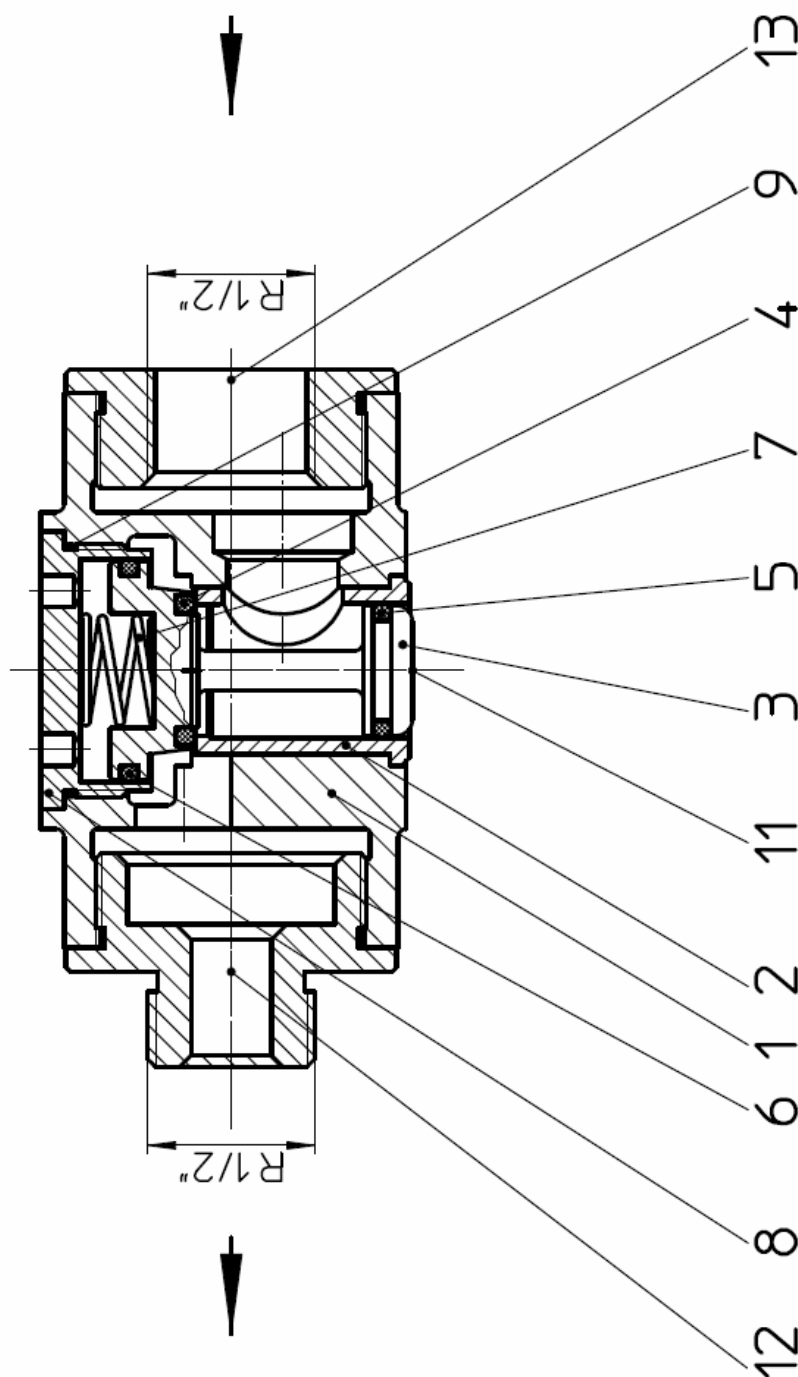
Spare Parts List

Description:

Sensor block

Part and drawing:

9 2016 0080



Spare Parts List					
Description:			Part and drawing number:		
Gearbox two-stage			5 8002 4000		
Item	Qty.	Description	Part and drawing no.		Remarks
1	1	Gearbox housing	5 8003 4010		
	1	Pinion shaft, assy.	5 8002 4950		item 2 + 3
2	1	Pinion shaft	5 8002 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	Nadle 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	8	Socket head screw	9 1110 4030		
18	1	Gear pinion	5 8002 4270		
	1	Planet carrier, assy.	5 8002 4940		item 19 - 22
19	1	Planet carrier	5 8002 4230		
20	3	Planet wheel	5 6030 4040		
21	3	Bearing needle	9 1019 0480	*	
22	3	Nadle cage	9 1015 0790	*	
23	1	Gear rim	5 8002 4220		
24	1	Grooved ball bearing	9 1003 0060	*	
25	2	Grooved ball bearing	9 1002 0040	*	
26	4	Snap ring	9 1703 0150		
27	1	Adjusting washer	9 3331 0420		

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Spare Parts List

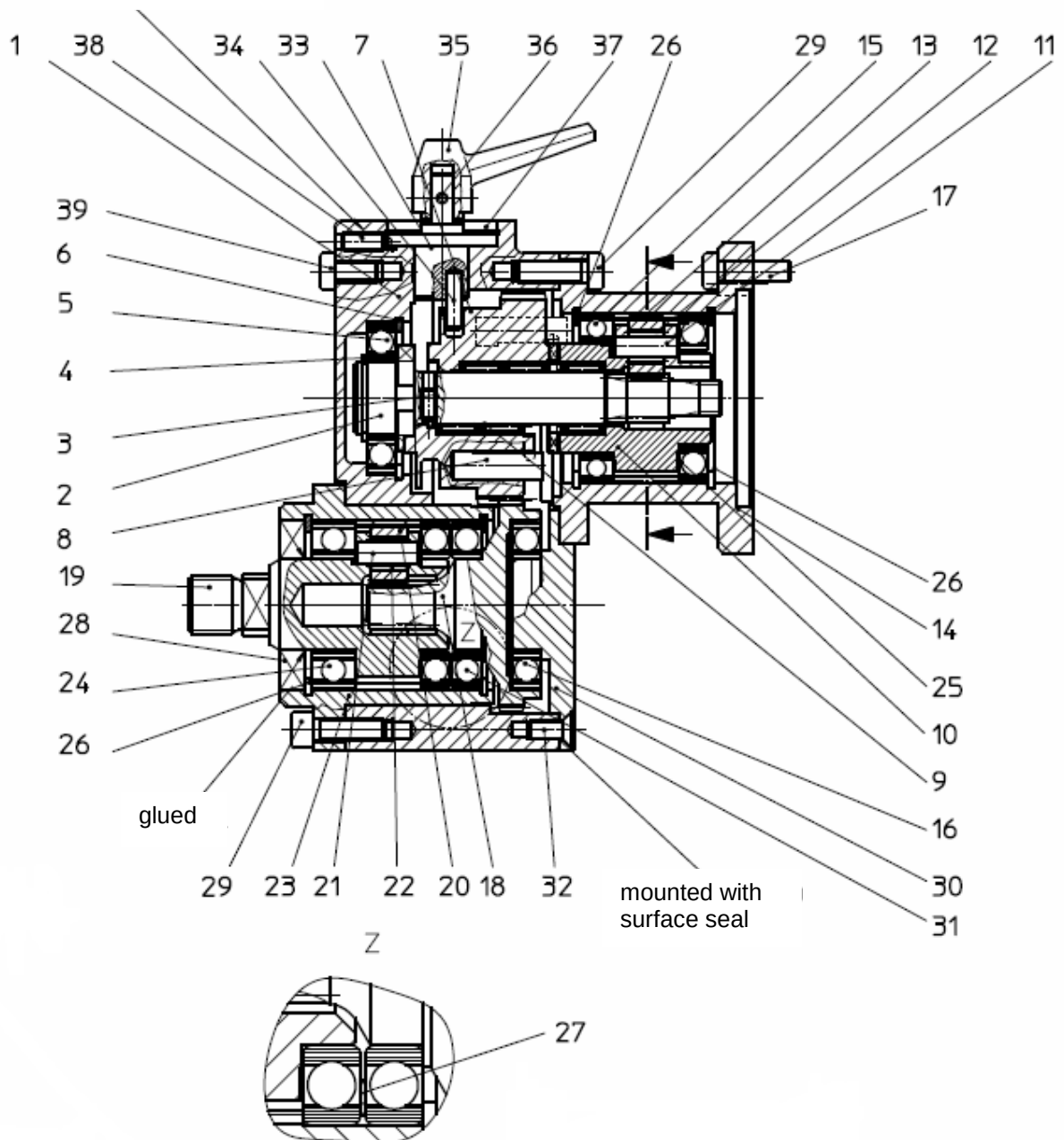
Description:

Gearbox
two-stage

Part and drawing number:

5 8002 4000

Glued with Loctite 243



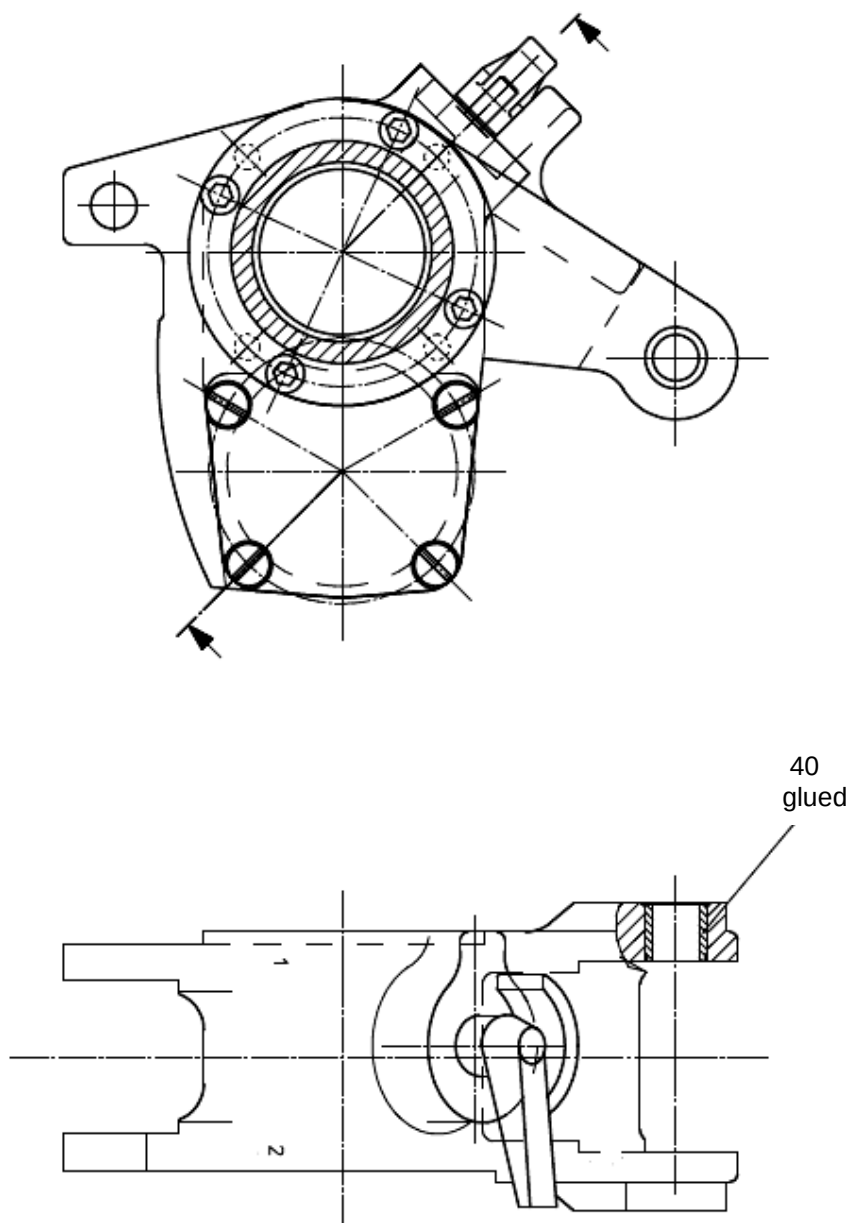
Spare Parts List

Description:

Gearbox
two-stage

Part and drawing number:

5 8002 4000



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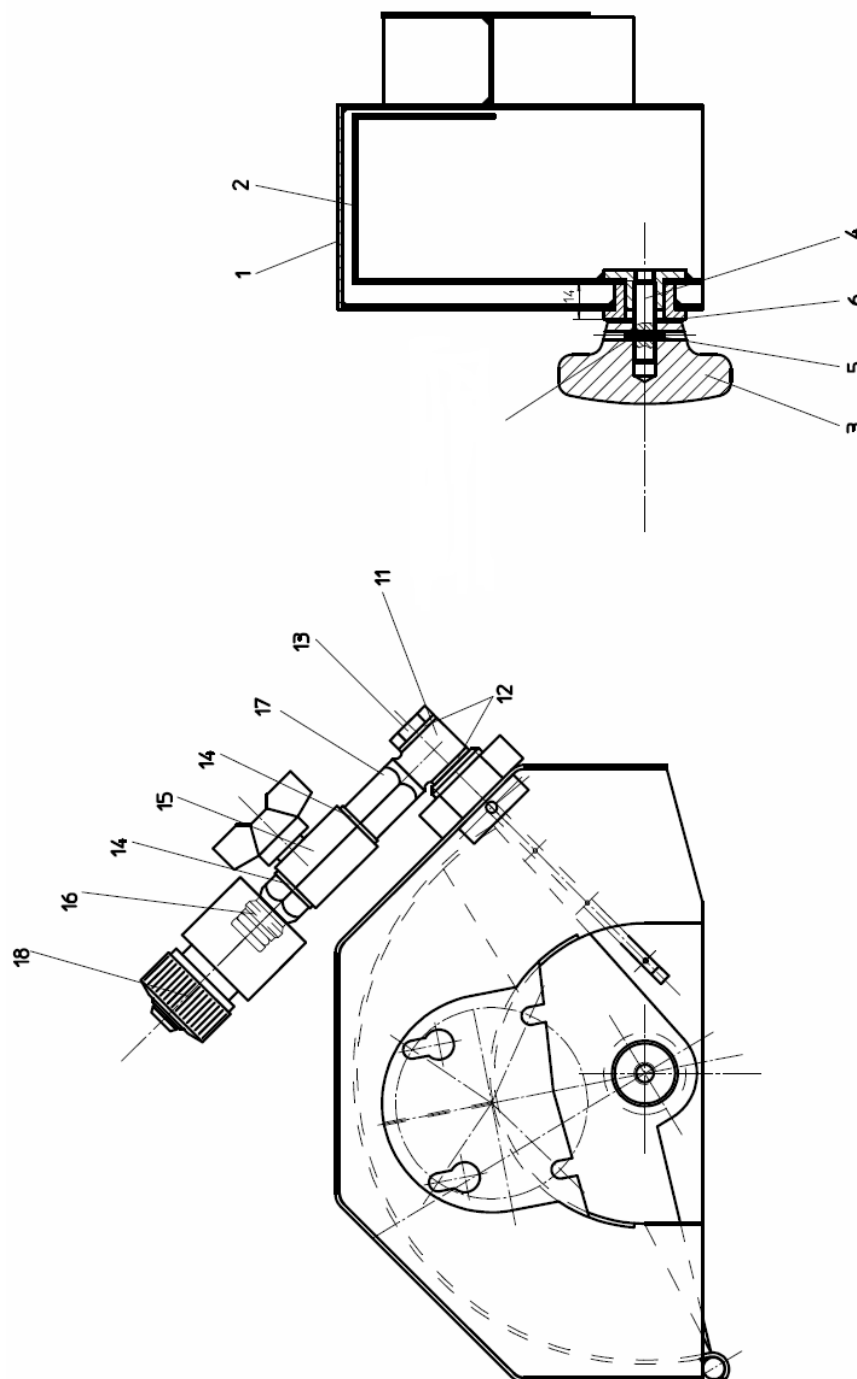
Spare Parts List

Description:

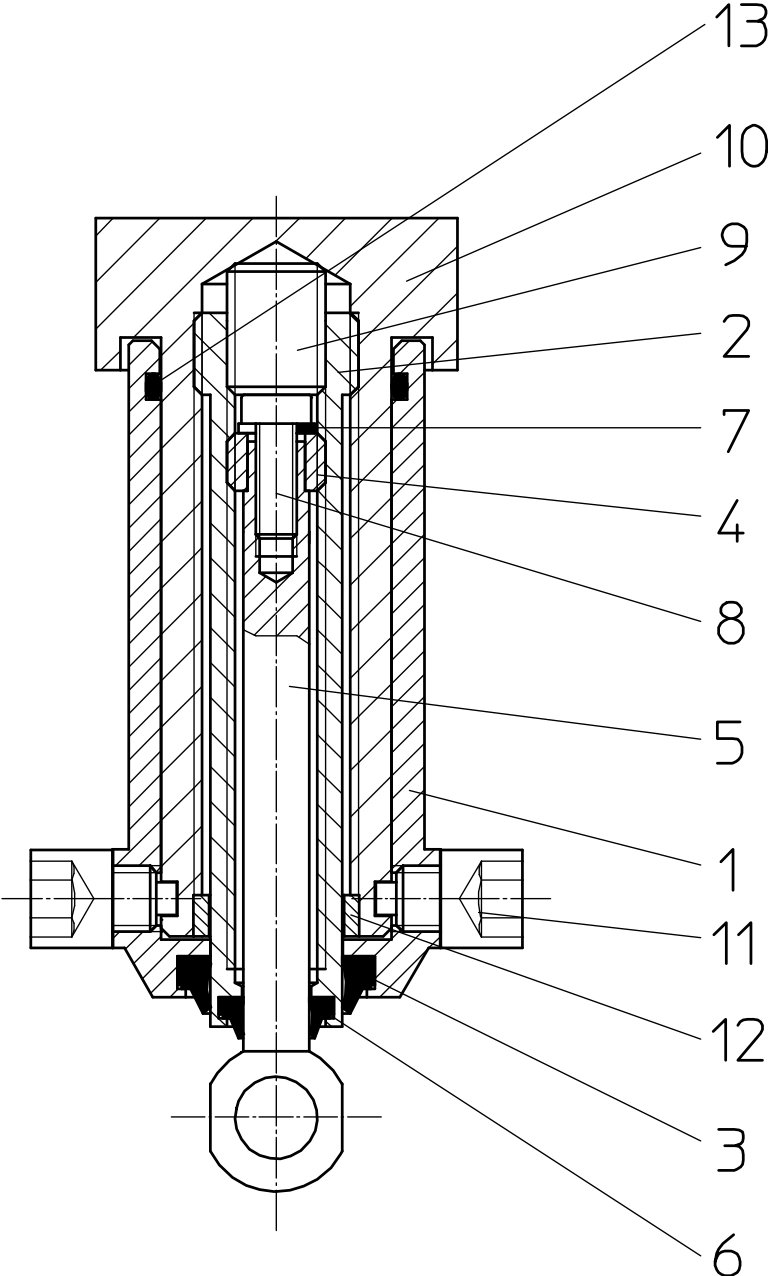
Guard
with water connection

Part and drawing number.

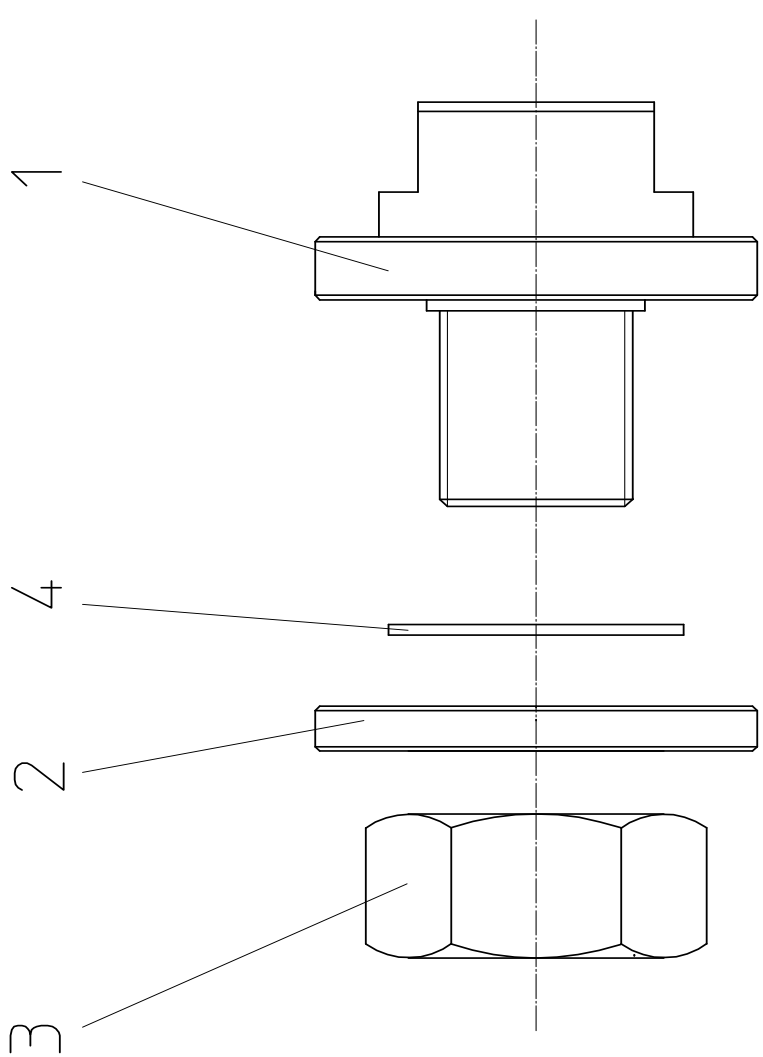
5 8003 8500



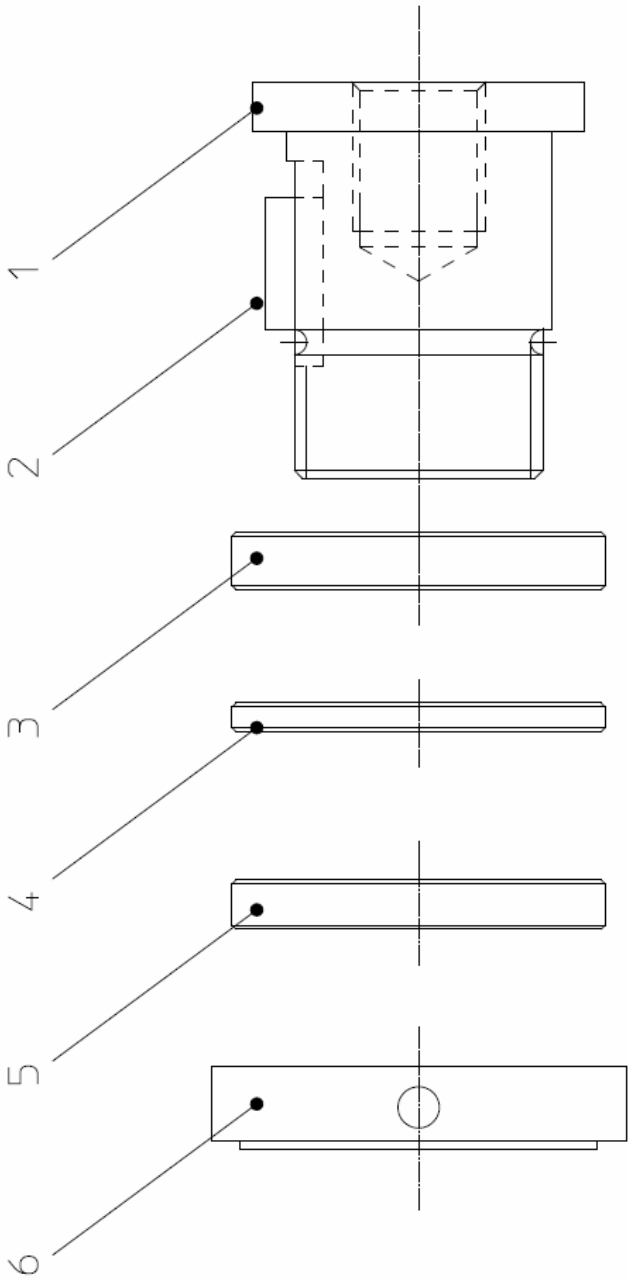
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Spare Parts List	
Description:	Part and drawing number::
Adjustment device	5 8003 8800
	

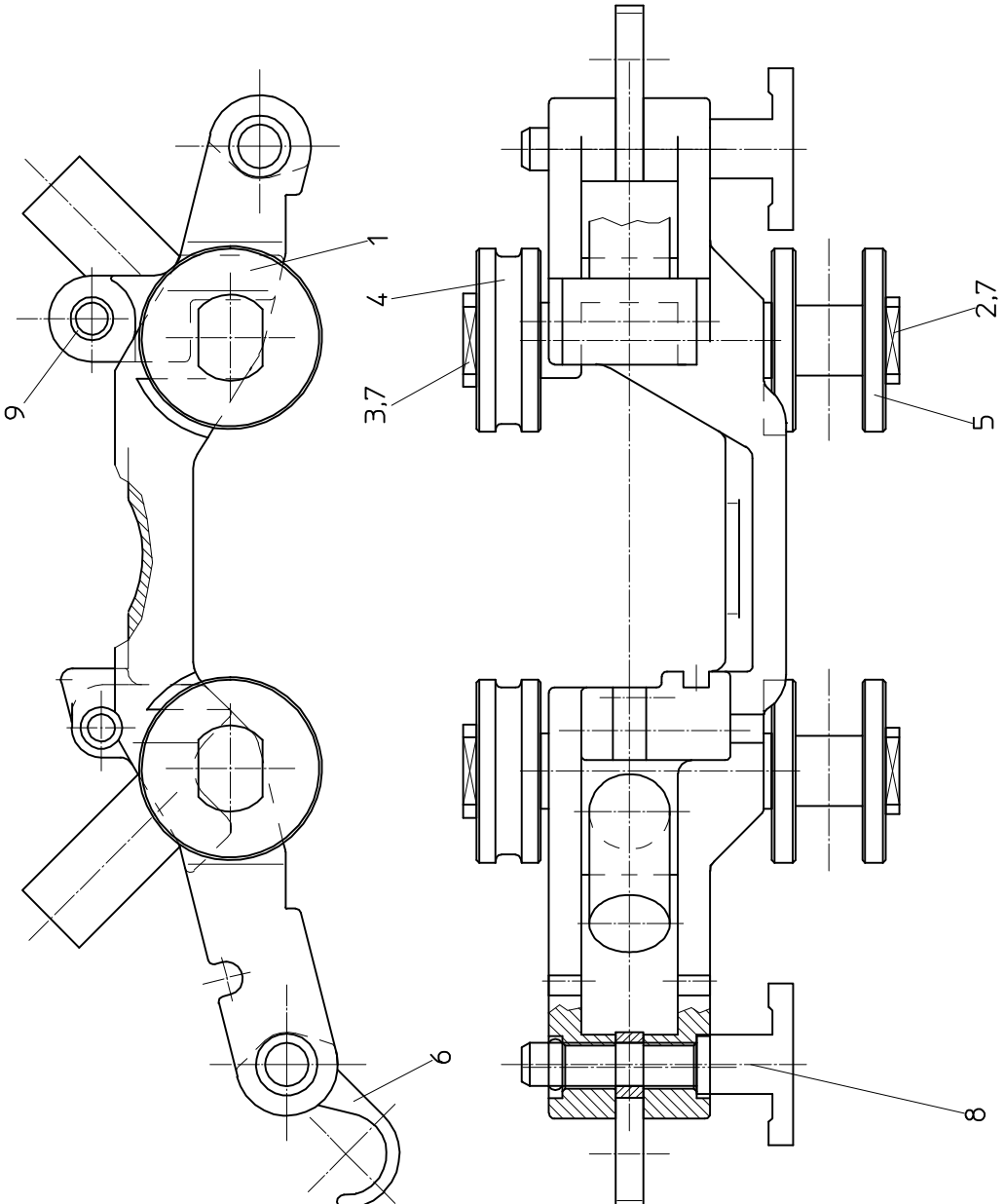
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Spare Parts List	
Description:	Part and drawing number:
Adapter for blade, assy.	5 8003 9700
	

[illegible]

Spare Parts List	
Description: Adapter for bevelling cutter, assy.	Part and drawing number: 5 8002 9750
	

[illegible]

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

[illegible]

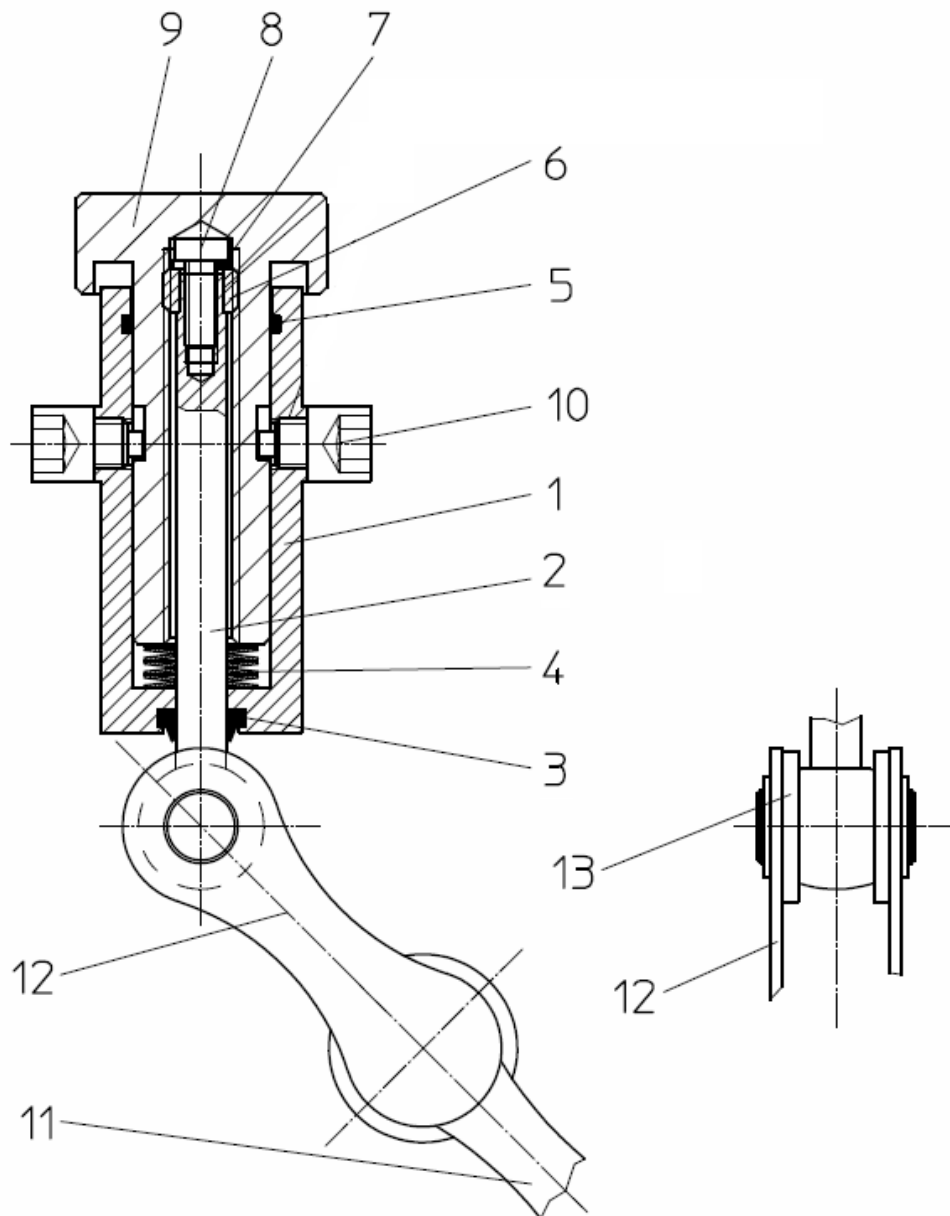
Spare Parts List

Description:

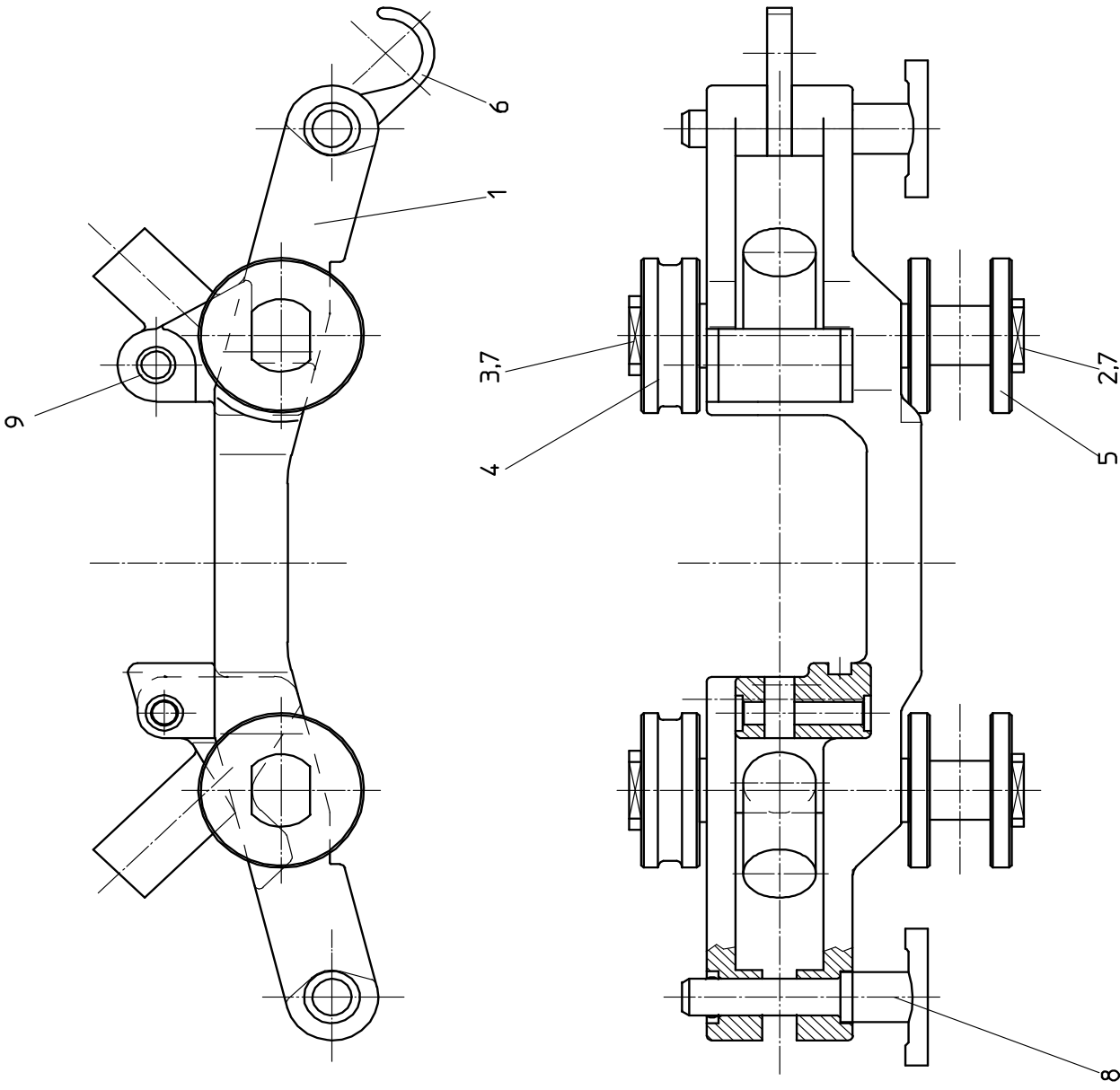
Chain tensioner small

Part and drawing number::

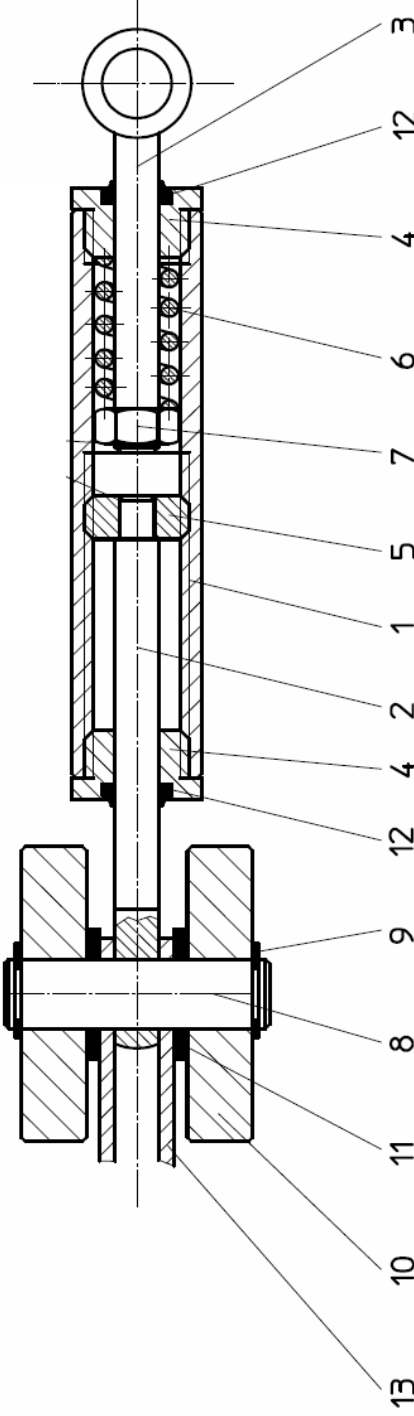
5 8003 8300



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

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

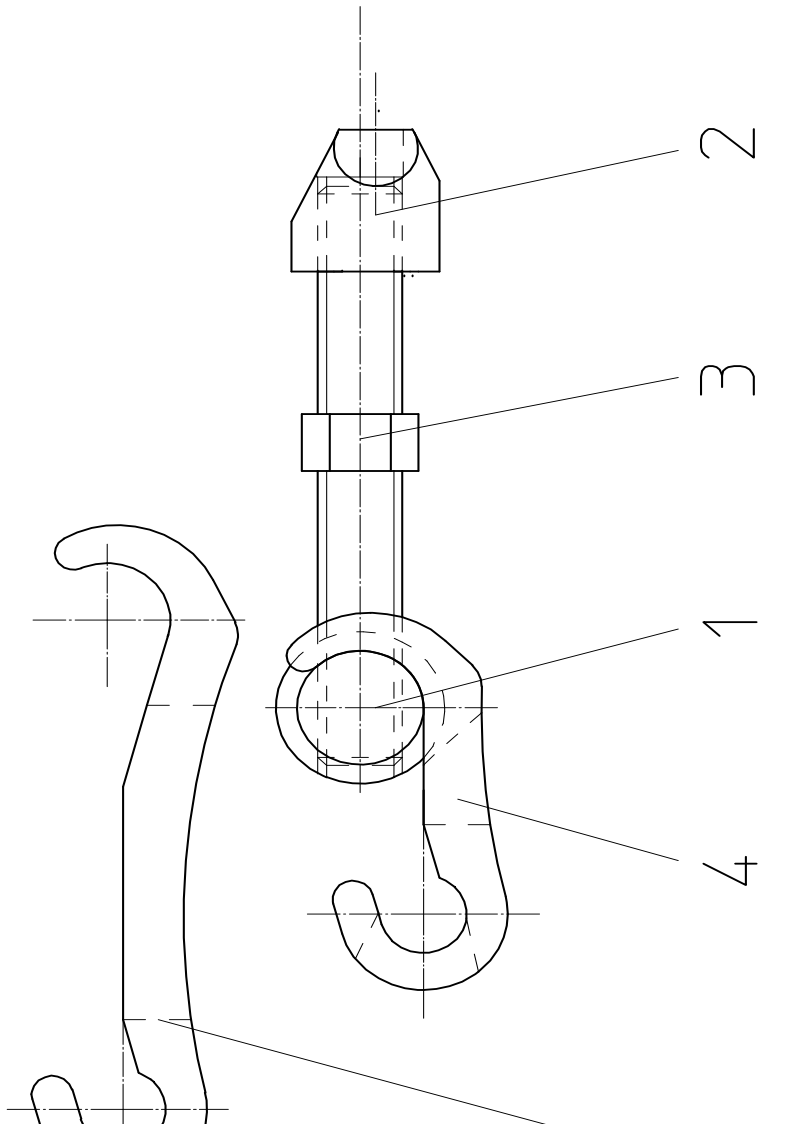
Description::

Tightener Set

Part and drawing number:

5 8002 6800

[illegible]

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

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