

Included in List		Date		Appr.		Tech. Serv.	
No.	Material	Part No.	Rev.	By	Check	By	Check

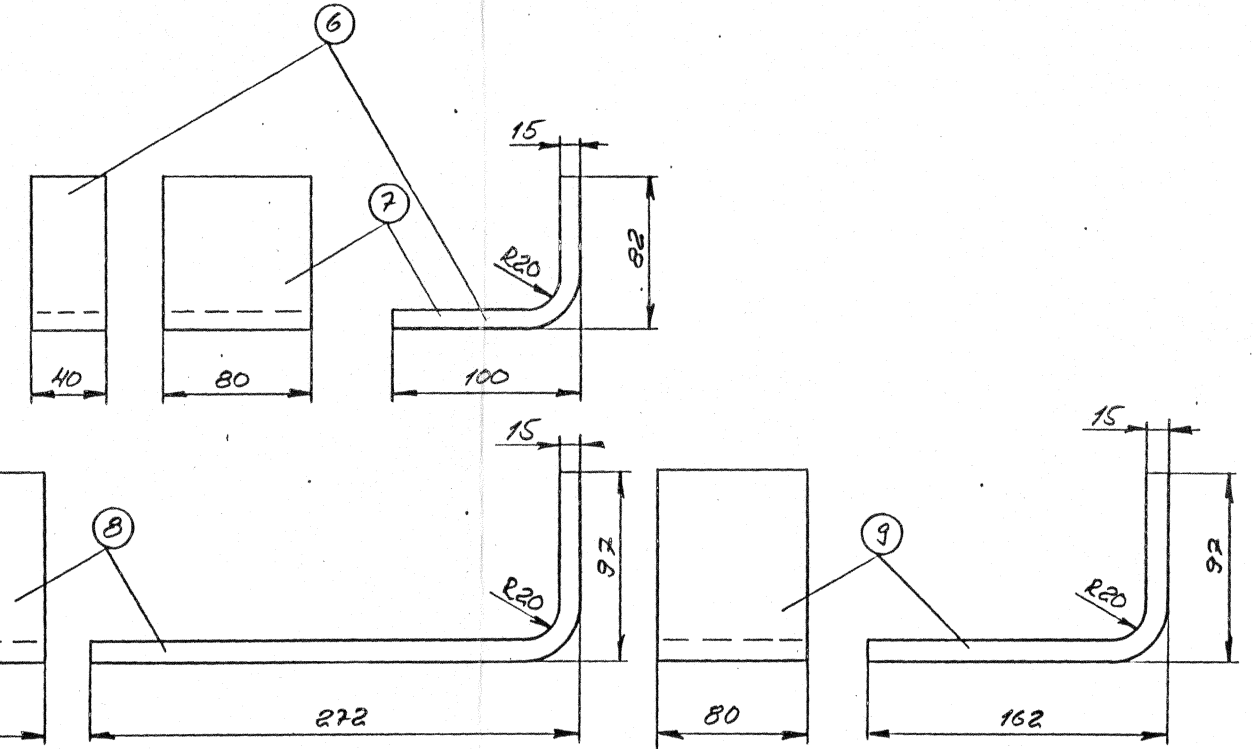
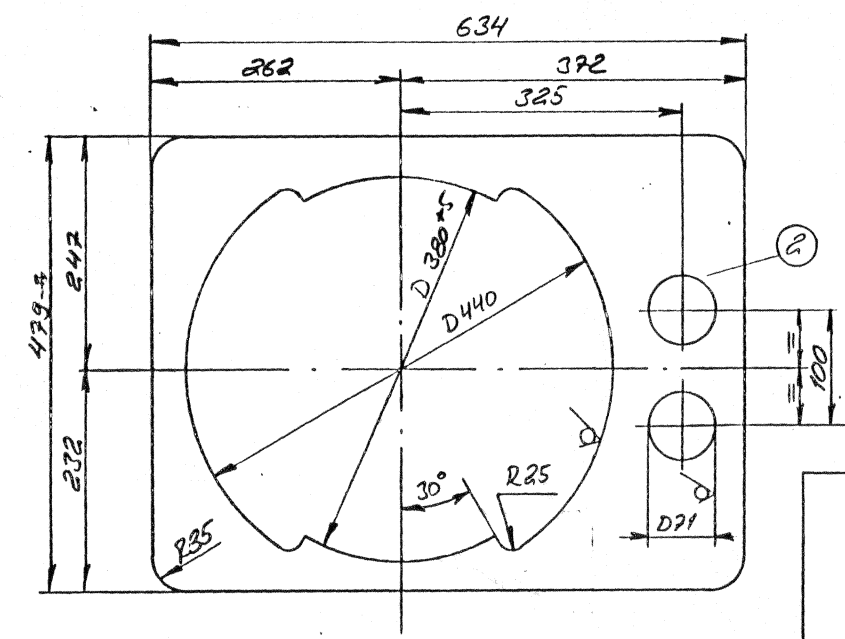
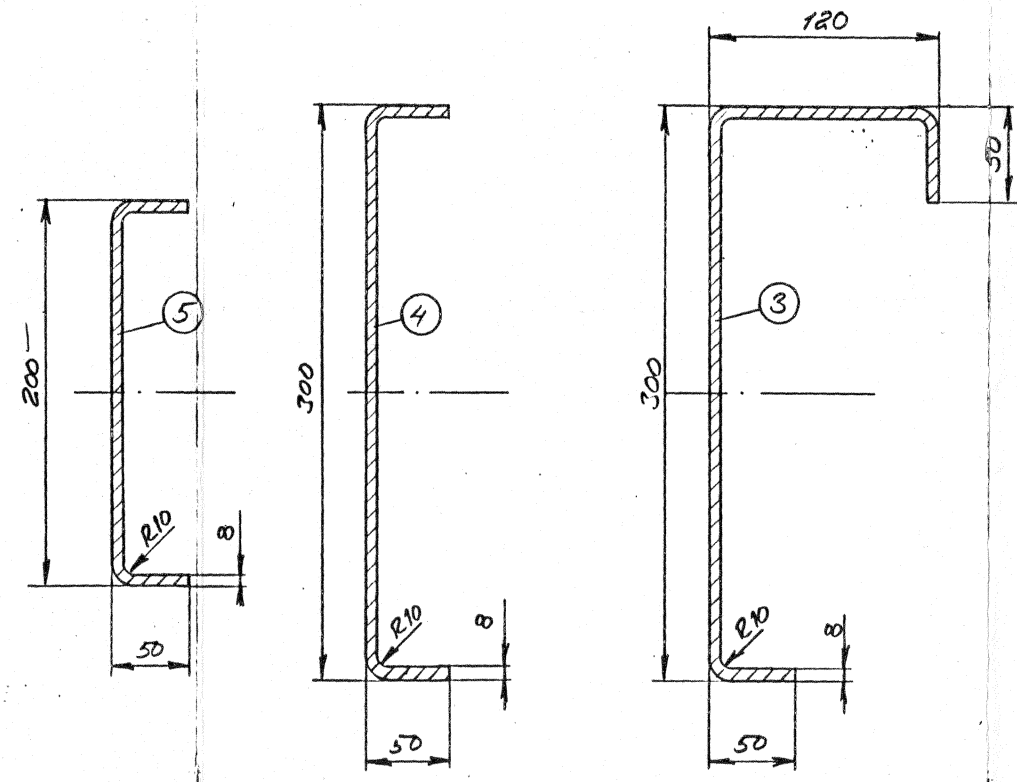
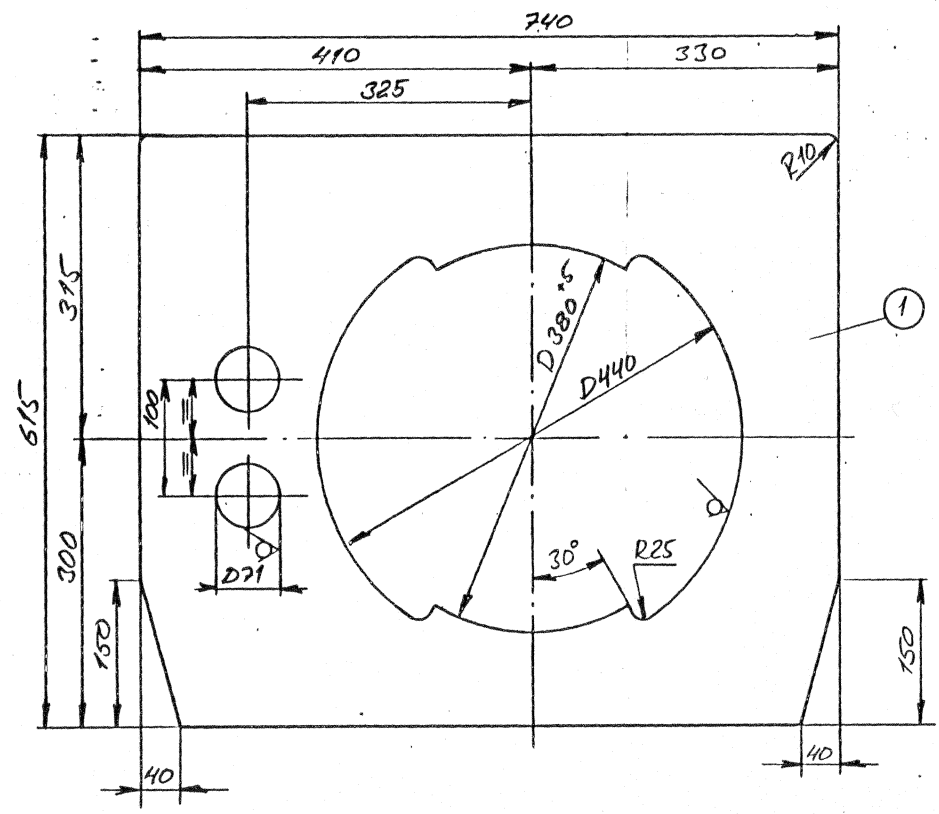
Pos. 3

1	24	AEG 9447010-1	4:1
2	23	Pa 21	
1	22	32 x 15	DIN 471
1	21	B 8 x 10 x 100	DIN 6885
4	20	10 - A36	DIN 93
4	19	M10 x 25 B8-A36	DIN 933
6	18	12 - A36	DIN 93
6	17	M12 x 40 B8-A36	DIN 933
4	16	6 - A36	DIN 7980
4	15	M6 x 20 B8-A36	DIN 912
3	14	6 x 30	DIN 7481
2	13	10 - A36	DIN 7980
2	12	M10 x 30 B8-A36	DIN 912
6	11	M12 x 25 B8-A36	DIN 912
1	10	ASEA TVRD 8	
1	9	UN3-F2	(ilman osaa UN3-OP179)
1	8	UN3-NR	
1	7	SD 918-OP11	
1	6	SD 918-OP10	
1	5	SD 918-OP9	
1	4	SD 918-OP8	
1	3	SD 918-OP7	
1	2	SD 918-OP6	
1	1	SD 918-OP1	

Huom! Osan 7 porrasosan reikä porataan aseamuksen yläpuolella osan 2 (D6mm) reikien läpi.

Design	Heikkinen	Appr.		Code	
Drawn		By		Rev.	
Drawn	ND	Drawn	8/19	Code	
Henosäätökoneisto, kun nosti- messa on 2-levyjärjestelmä. Lisävarusteena kiemrostukuvahvi.					
SD 918					

Issue	Approved	Revision	Date	Drawn	Appr.	Team Lead	M. Tim



1	5	PI 15 x 80 x 230	Fe 52 D
1	8	PI 15 x 80 x 340	-
2	7	PI 15 x 80 x 155	-
2	3	PI 15 x 40 x 155	-
1	5	PI 8 x 270 x 960	-
1	4	PI 8 x 370 x 960	-
1	3	PI 8 x 475 x 960	-
1	2	PI 25 x 479 x 634	-
1	1	PI 25 x 615 x 740	-

Design	Appr.	Reg.	Code
44			

Dr. **Rungon osat**

Des: 24 Date: 03/01

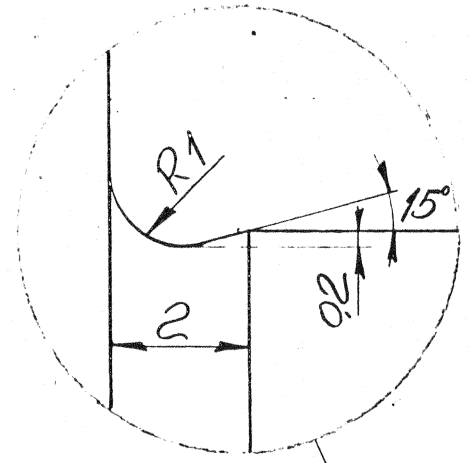
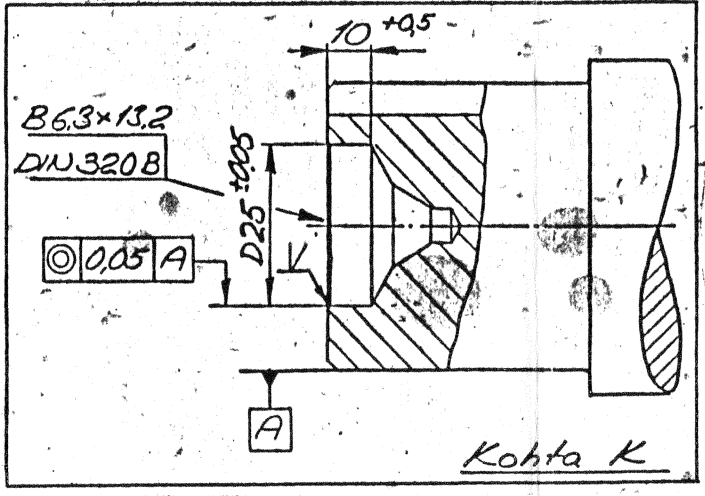
KONE

SD3234-0P1

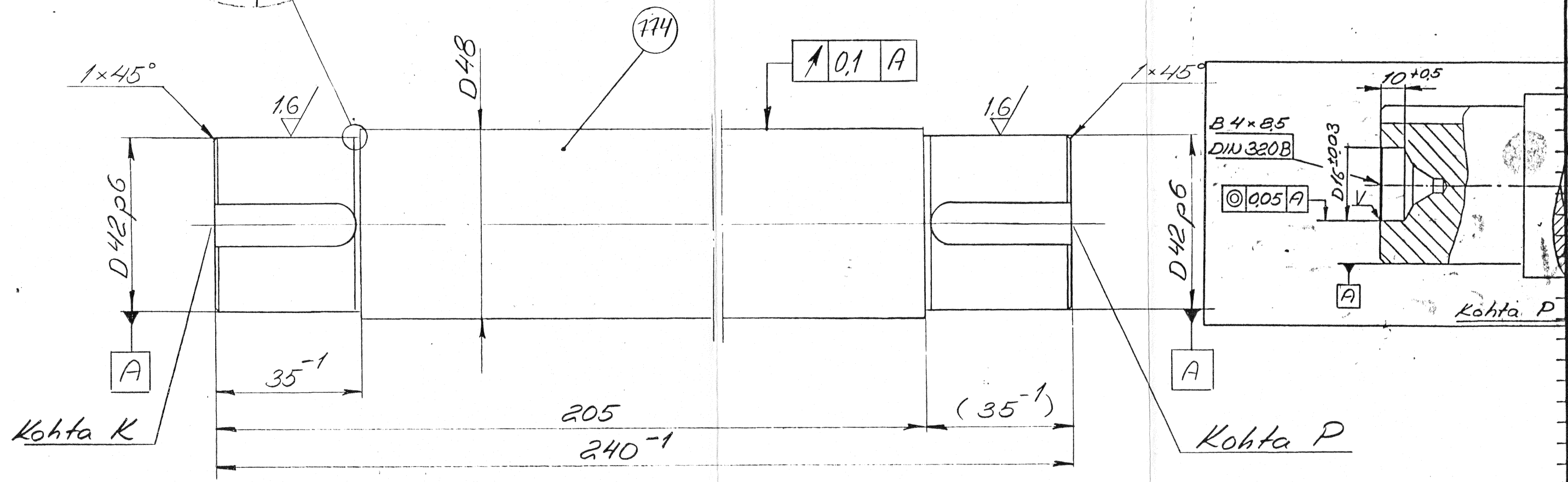
Tämä asiakirja ei saa ilman meidän lupamme jäljentää. Sitä ei myöskään saa esittää toiselle tai muutoin asiantonasti käyttää. Tämän nimitönnästä rangaistavan voimassa olevan lain nojalla. Kone Osakeyhtiö.

This document must not be copied without our written permission, and the contents thereof must not be imparted to a third party nor be used for any unauthorized purpose, contravention will be prosecuted. Kone Osakeyhtiö.

Littyä Included in									
Muutostila Issue	Esiintyy X	Muutos, oli ennen Alteration			Pvm. Date	Muutt. Drn	Hyv. Appd	K-kappale Twin copy	M-filmi M-film

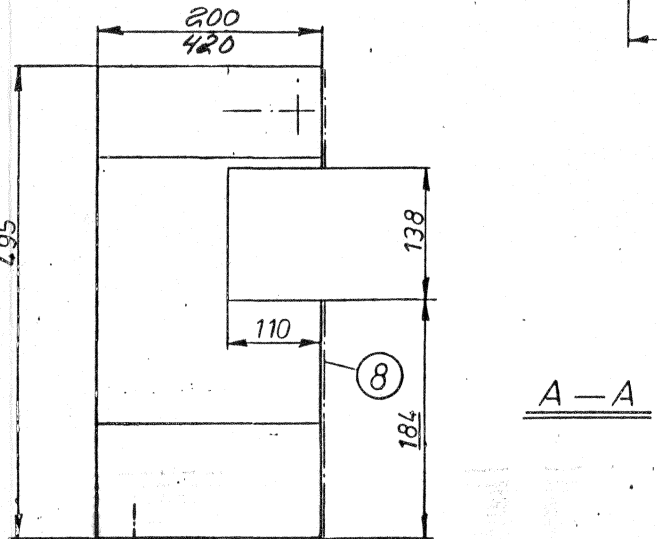
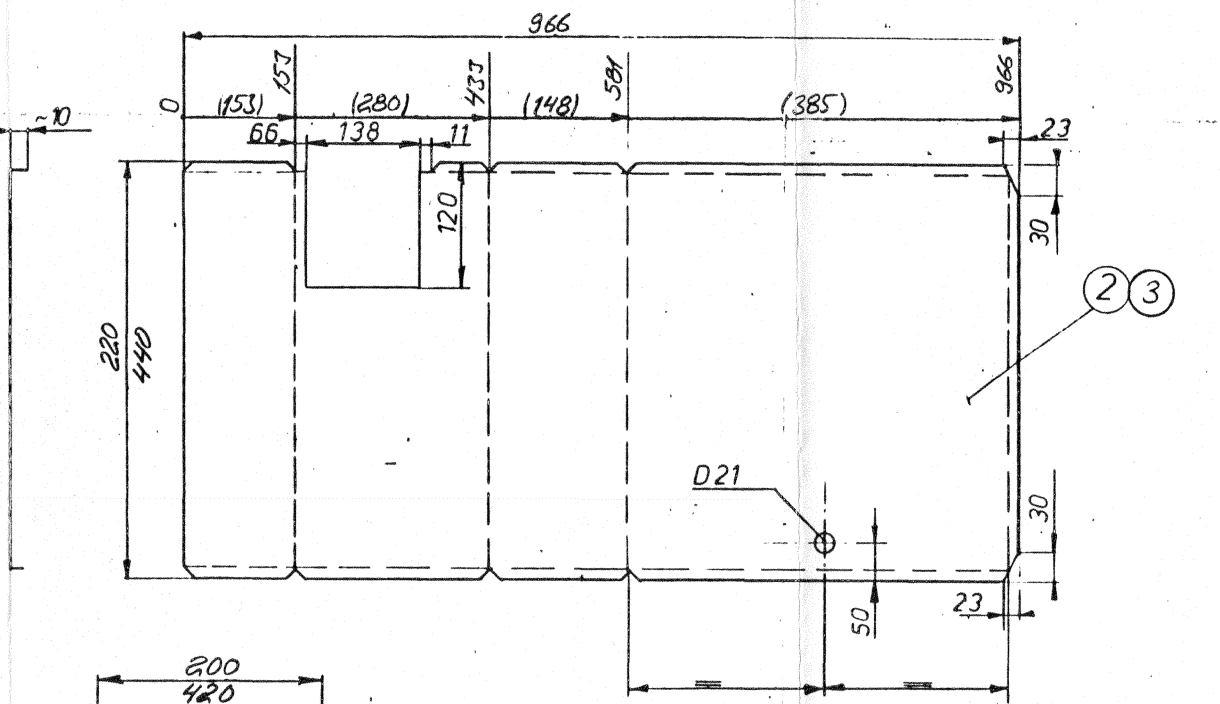
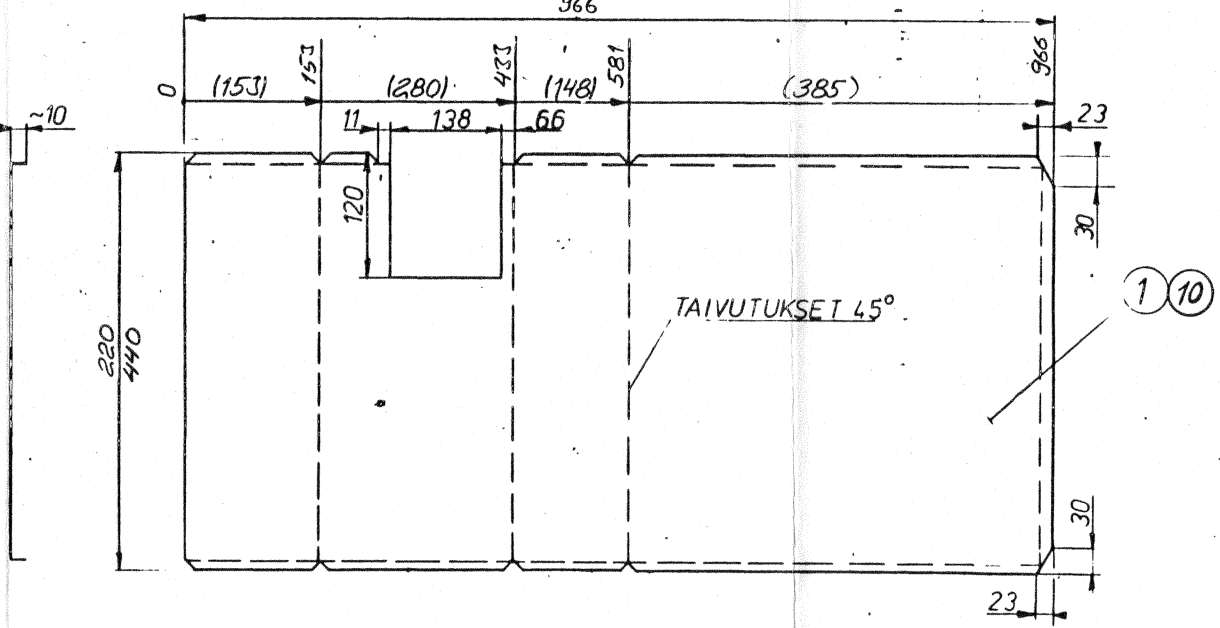
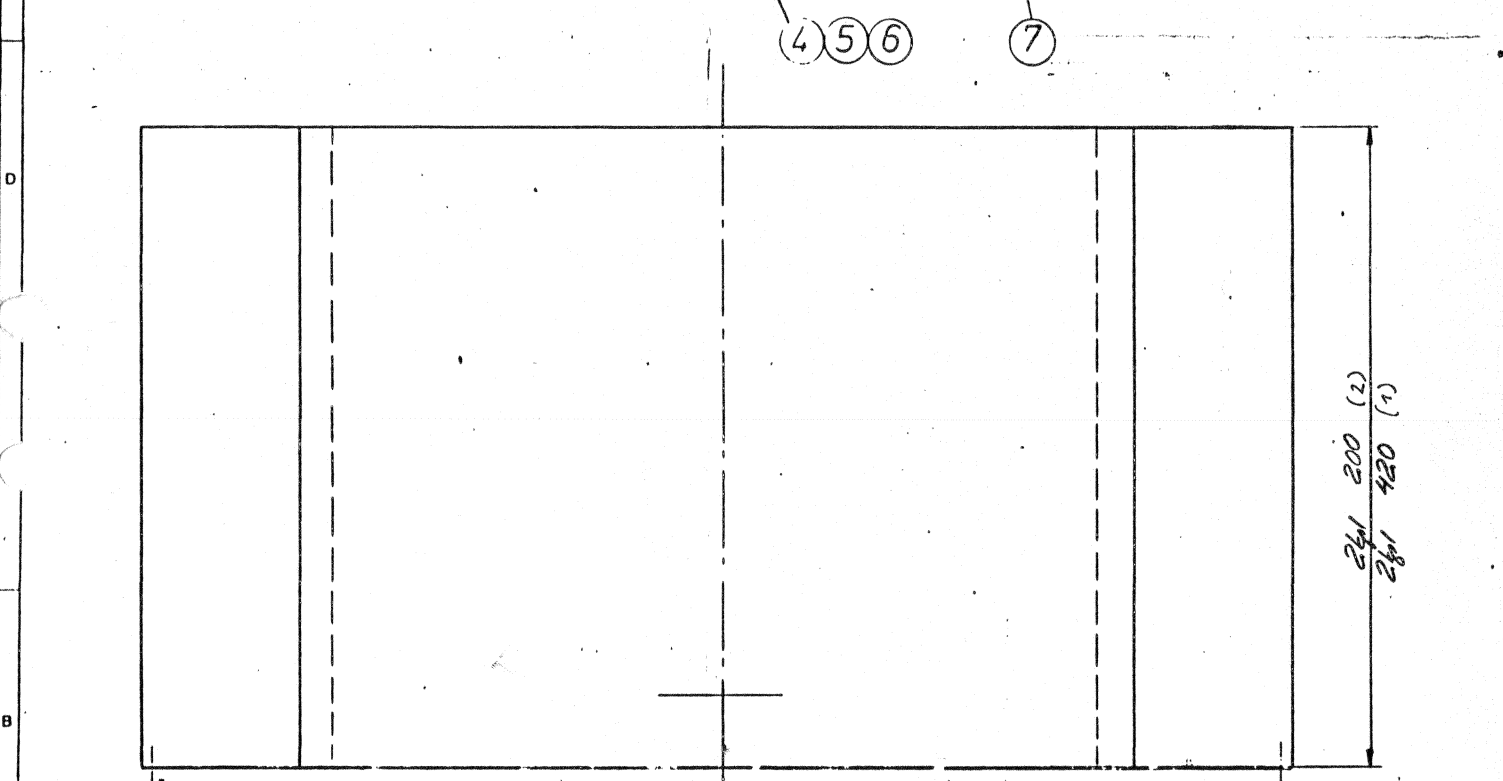
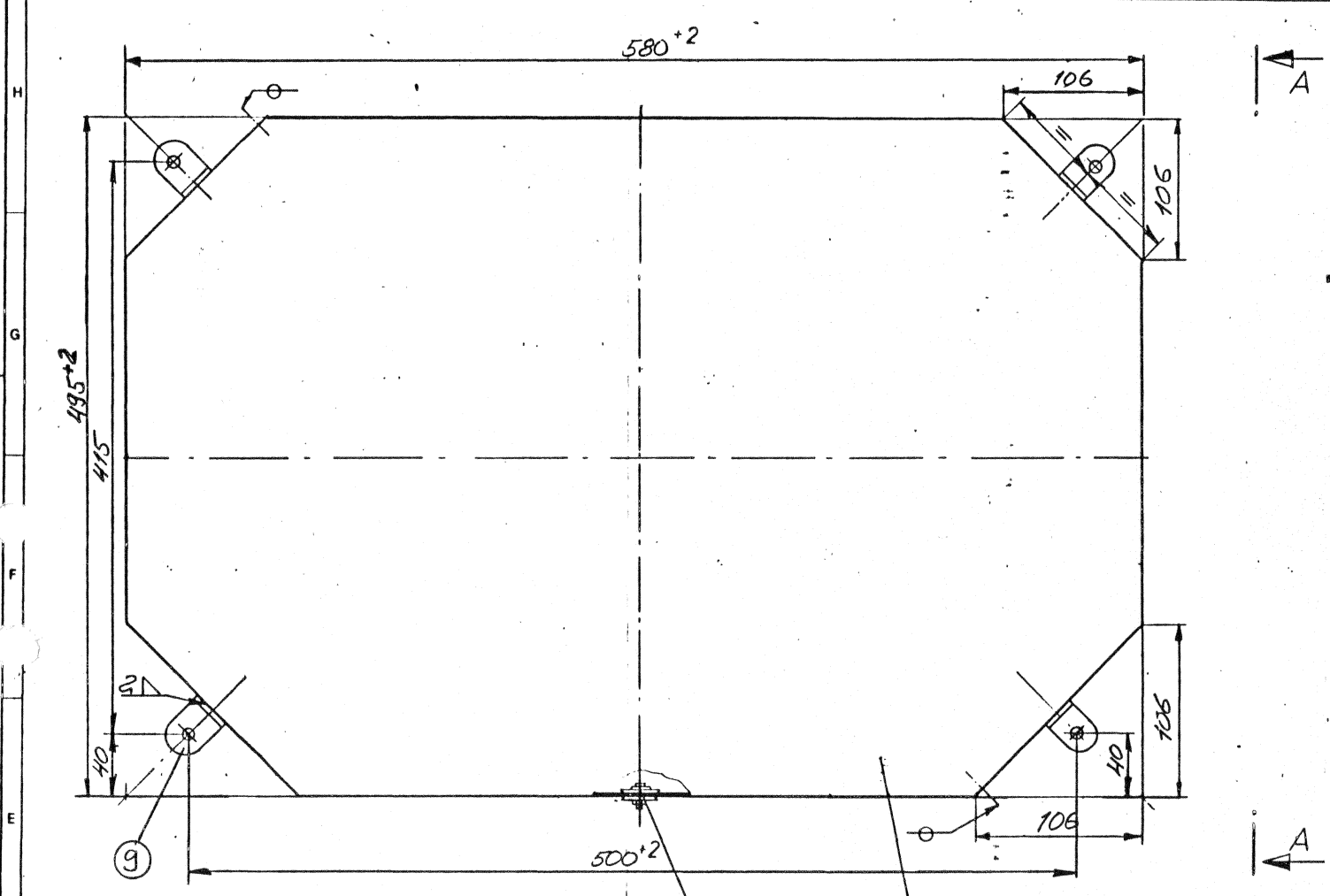


12.5 / (1.6 /)
Kulaurat DIN 6885 P3



GENERAL TOLERANCES		YLEISTOLERANSSIT		KOS Y63-09, DIN7168, 8570 ja 2310												
LENGHT MEASUREMENTS		PITUUSMITAT		Mitta-alue Dimension range												
Machining		Koneistus		> 0,5	3	6	30	120	315	1000	2000	4000	8000	12000	16000	20000
Chamfers and radii		Pyör. viist.		± 0,1	± 0,1	± 0,2	± 0,3	± 0,5	± 0,8	± 1,2	± 2	± 3	± 4	± 5	± 6	
Cutting, bending		Leikk. talv.		± 0,2	± 0,3	± 1	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16	
Welding		Hitsaus		± 2	± 2	± 3	± 4	± 6	± 8	± 10	± 12	± 14	± 16			
ANGULAR DIMENSIONS		KULMAMITAT		Lyhyempi sivu Shorter side												
Machining		Koneistus		≤ 10	> 10 ≤ 50	> 50 ≤ 120	> 120 ≤ 315	> 315 ≤ 1000	> 1000							
Bending s < 4		Talvutukset s < 4		± 1,8/100 mm	± 0,9/100 mm	± 0,6/100 mm	± 0,3/100 mm									
Bond. s ≥ 4, welding		Talv. s ≥ 4, hitsaus		± 2,6/100 mm	± 1,5/100 mm	± 0,7/100 mm	± 0,4/100 mm									
				± 5,2/100 mm	± 3,5/100 mm	± 1,8/100 mm	± 1,3/100 mm	± 0,9/100 mm	± 0,6/100 mm							

774		D50 x 240		Fe 52C					
Kpl Pcs	Viite Item	Merkki Type	Raaka-aineen mitat ja laatu Raw material dimensions and quality			Mat. no Material no	Paino kg Weight		
Su	Suunn. Design	Heikkilä	Tark. Chd	Hyv. Appd.	Kirj. E3 Sign. 78/50	Koodi Code			
Ru	Piirt. Drn		Väliakseli, moottorin puolella Pinion shaft, on motor side			M-filmi M-film			
En	Osasto Dept	KHH	Pvm. Date	8/05		851			
Sa									
Ve									
Es	KONE OSAKEYHTIÖ								
							SD 3234-OP4		



Included in		Revision		Date	Drn	Appd	Exam	M. Am.
Material	Quantity	Number	Description	Rev	Month	Signature	Initials	Initials
4			Kelloja murekku	8704	HT			

2	10		PI1x220x966 Tst 1003
16	9	UN3-W-OP1	
4	8	Bostik W-nauha	EPDM-kumi 5x10x
4	7		PI1x490x525 Tst 1003
4	6	M4	DIN934
4	5	M4x12	DIN 84
4	4	UN2-W-OP1	
2	3		PI1x220x966 Tst 1003
2	2		PI1x440x966 Tst 1003
2	1		PI1x440x966 Tst 1003

Rev	Part No	Ura	Proj	Case	Weight
1					

Design Source: *Halkila*

Drn: *Halkila*

Dept: *NTD* Date: *26/88*

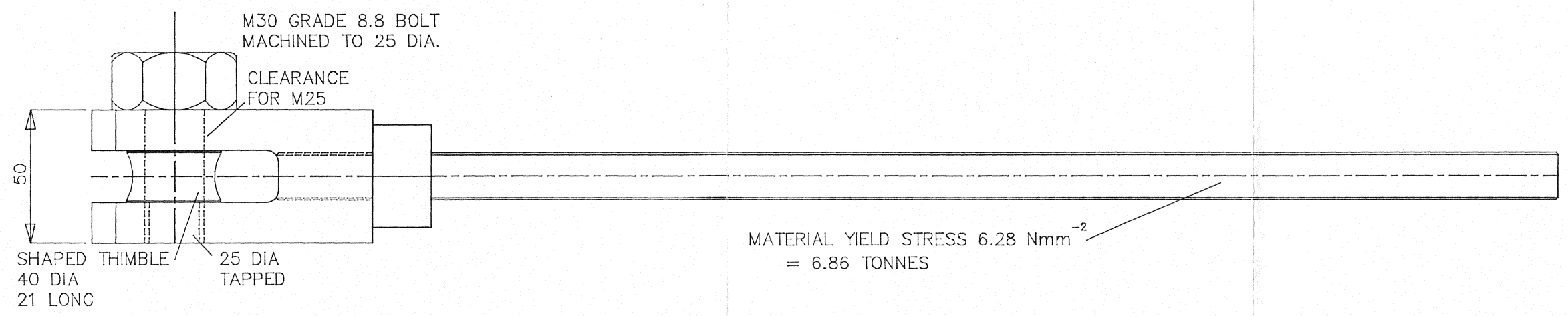
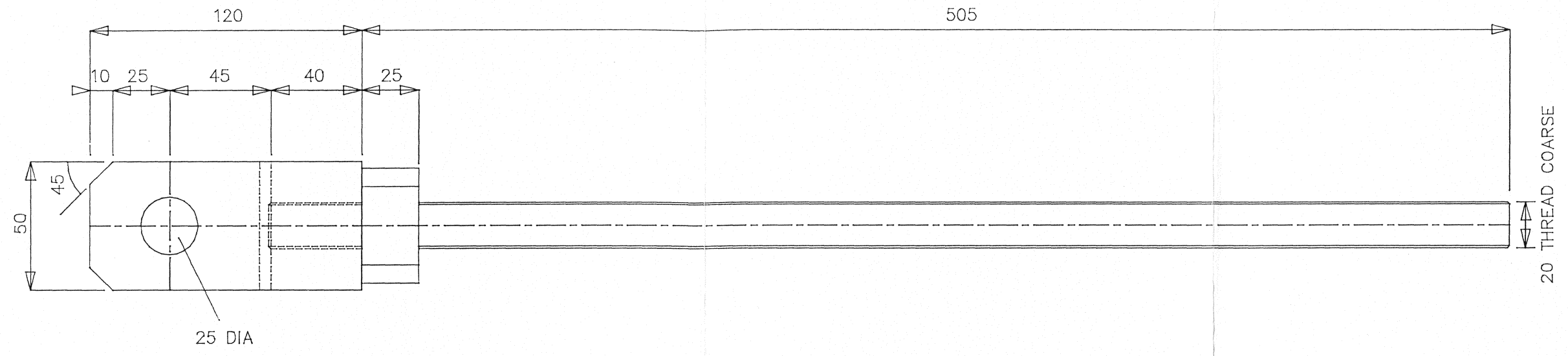
ONE

Suojus Protection cover

SD.3234-OP5

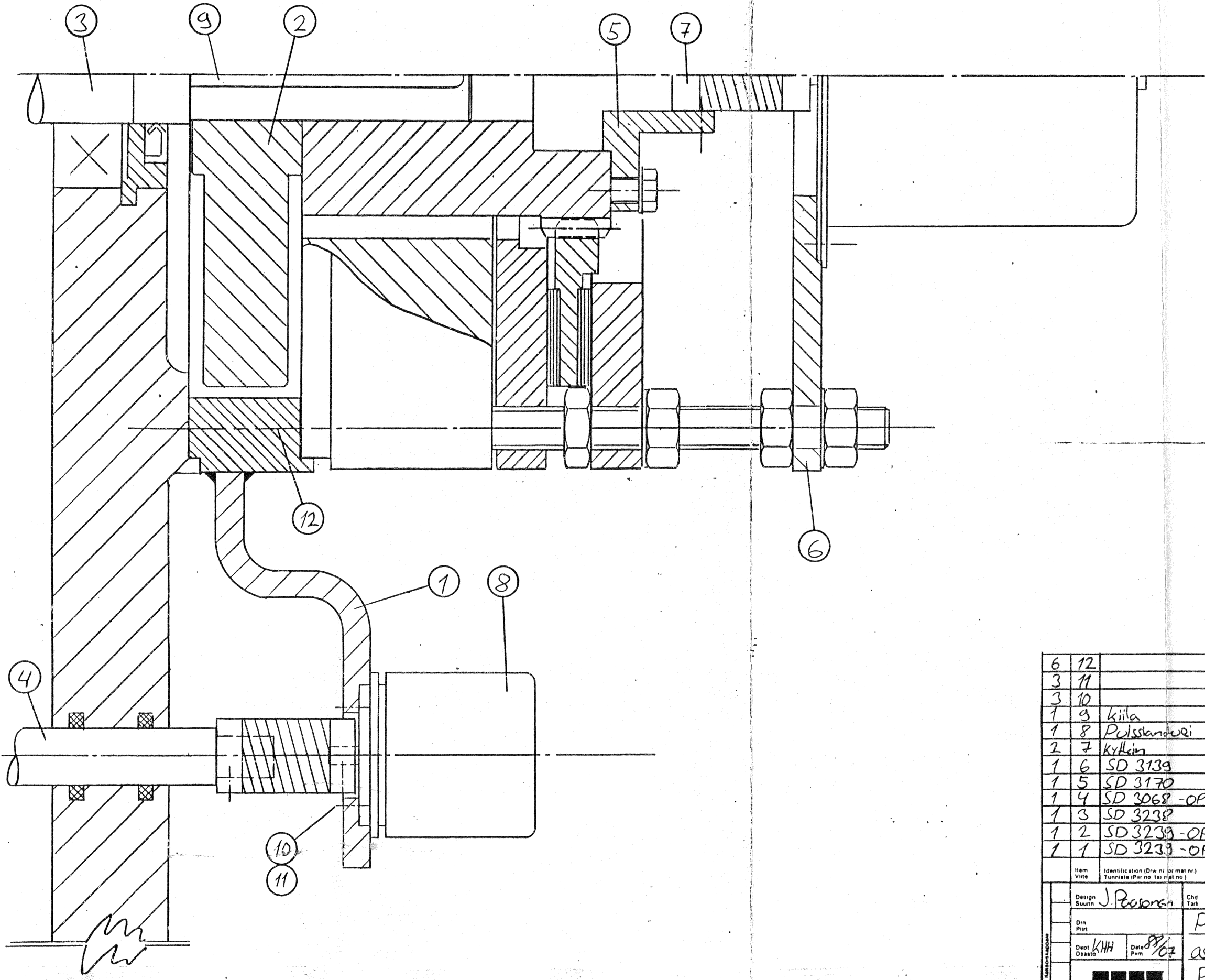
729

N
M
L
K
J
H
G
F
E
D
C
B
A



Replace		Reg.	Title Details of anchor point fixing		
Replaced	Chd.	Appd.			M--film
	Design	GAC	Twin Copy	Order No.	Drawing No. SD3234-OP7
	Drn.	JDW			
	Dept.	PC28			
	Date	51/89			Sheet.No of sheets Issue 1/1

Included in Lisitty		Revision Muutos		Date Pvm	Drn Muutt	Appd Hyv	Twin copy Kappale	M film M film
Issue Muutosilla	Appear Esintyy X							

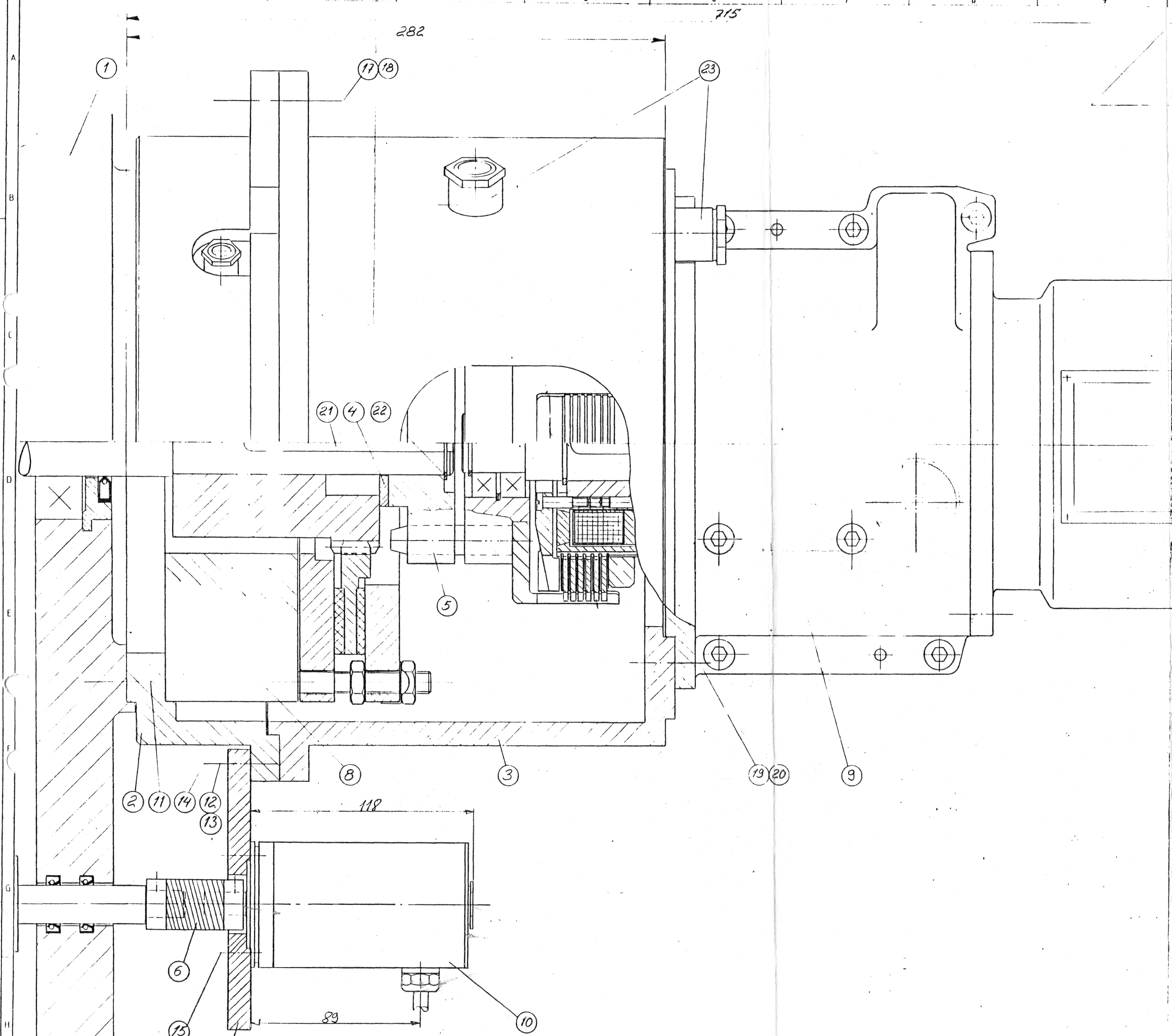


6	12		M12 x 95 DIN 912 8.8 - A3G
3	11		A4 DIN 127 - A3G
3	10		M4 x 12 DIN 912 8.8 - A3G
1	9	kiila	B 10 x 8 x 92 DIN 6885
1	8	Pulssianturi	Leine & Linde 6306-3A-24V-200-JPesk
2	7	kytkin	BAUMANN Flex MM 12 k
1	6	SD 3139	
1	5	SD 3170	
1	4	SD 3068 - OP 2	
1	3	SD 3238	
1	2	SD 3238 - OP 1	
1	1	SD 3238 - OP 2	

Item Vite	Identification (Drw nr or mat nr) Tunniste (Piir no tai mat no)	Specification (dimensions raw material) Merkit (mitat, raaka aine)	DEF	Weight Paino	pcs kpl
Design Suunn	J. Pesonen	Chd Tark	Appd Hyv	Reg Kirj	Code Koodi 938416200
Drn Piirt		Pulssianturin ja huimapyörän			⊕
Dept Osasto	KHH	Date Pvm	8/16/07	asennus	
KONE		POS. 1 and 2			M film
		SD 3238			Issue Muutosilla

This document is the property of KONE Oyj. It is not to be copied, reproduced, or distributed without the written permission of KONE Oyj. The user of this document is responsible for its proper use and for returning it to KONE Oyj when it is no longer needed.

Oy Lindes Ab Oskaris O.O.B mm A2
 FINMÄK 3016



Included in Bill of Materials		Date		Appr.		Drawing		M. Num.	
Item	Quantity	Part	Month	Year	Number	Page	Number	Year	Month

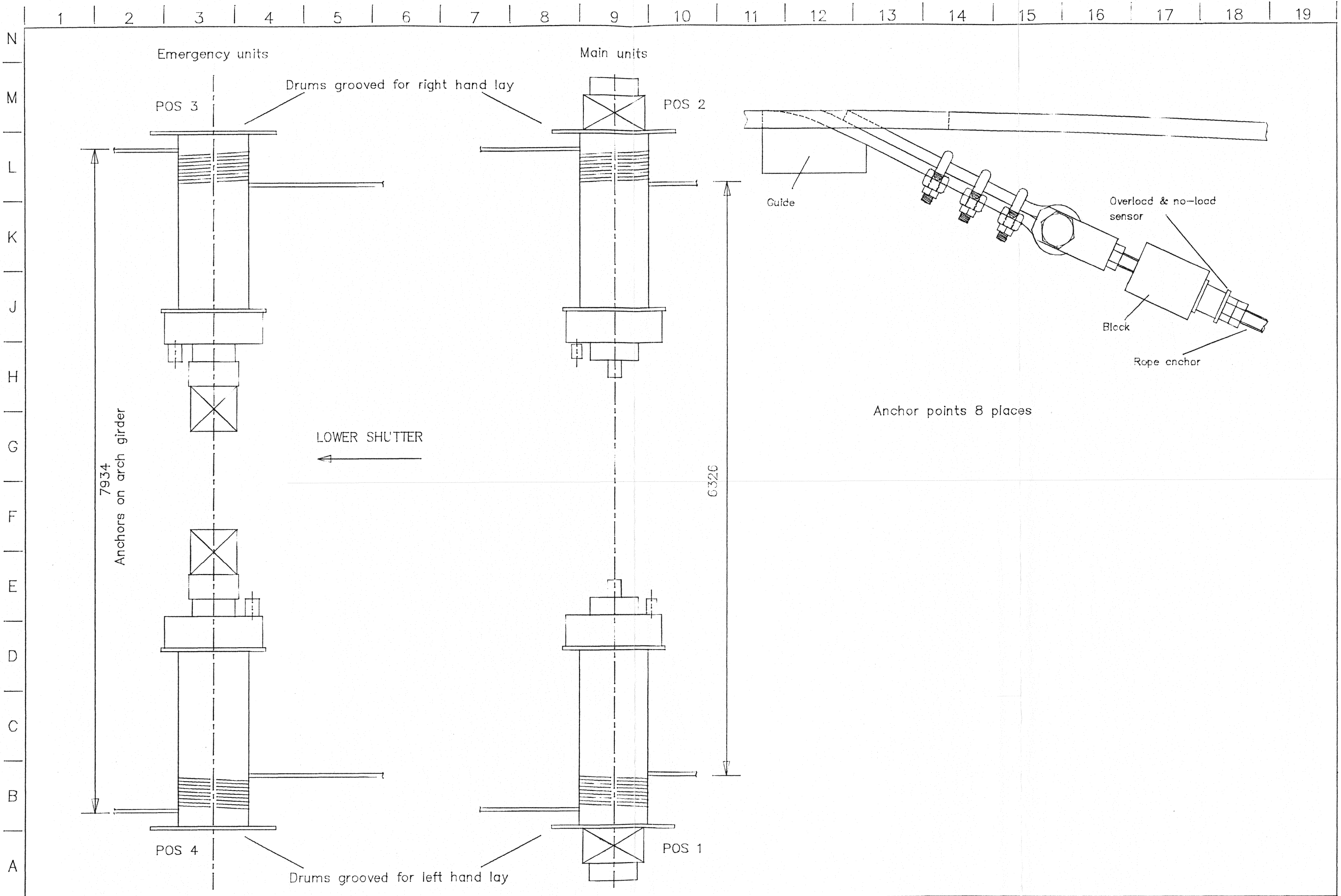
1 Pos. 41

2	23	PK 21	
1	22	32 x 15	DIN 471
1	21	B 8 x 10 x 100	DIN 6885
4	20	10 - A36	DIN 93
4	19	M 10 x 25 88-A36	DIN 933
6	18	12 - A36	DIN 93
6	17	M 12 x 40 88-A36	DIN 933
3	16	A5-A36	DIN 127
3	15	M 5 x 20 88-A36	DIN 912
2	14	6 x 30	DIN 1481
2	13	10 - A36	DIN 7980
2	12	M 10 x 30 88-A36	DIN 912
6	11	M 12 x 25 88-A36	DIN 912
1	10	Abr. anturi	TWK CR65-1024 R 19101
1	9	UN3-F2	(ilman osaa UN3-OP179)
1	8	UN3-N3	
1	7	SD 3241-OP1	
1	6	DAUMANN Flex	MM 12 k
1	5	SD 918-OP 9	
1	4	SD 918-OP 8	
1	3	SD 918-OP 7	
1	2	SD 918-OP 6	
1	1	SD 918-OP 7	

14) Huom. Osan 7 porssi on osat porssiin useamman yhteydessä osan 2 (D6mm) reikien läpi.

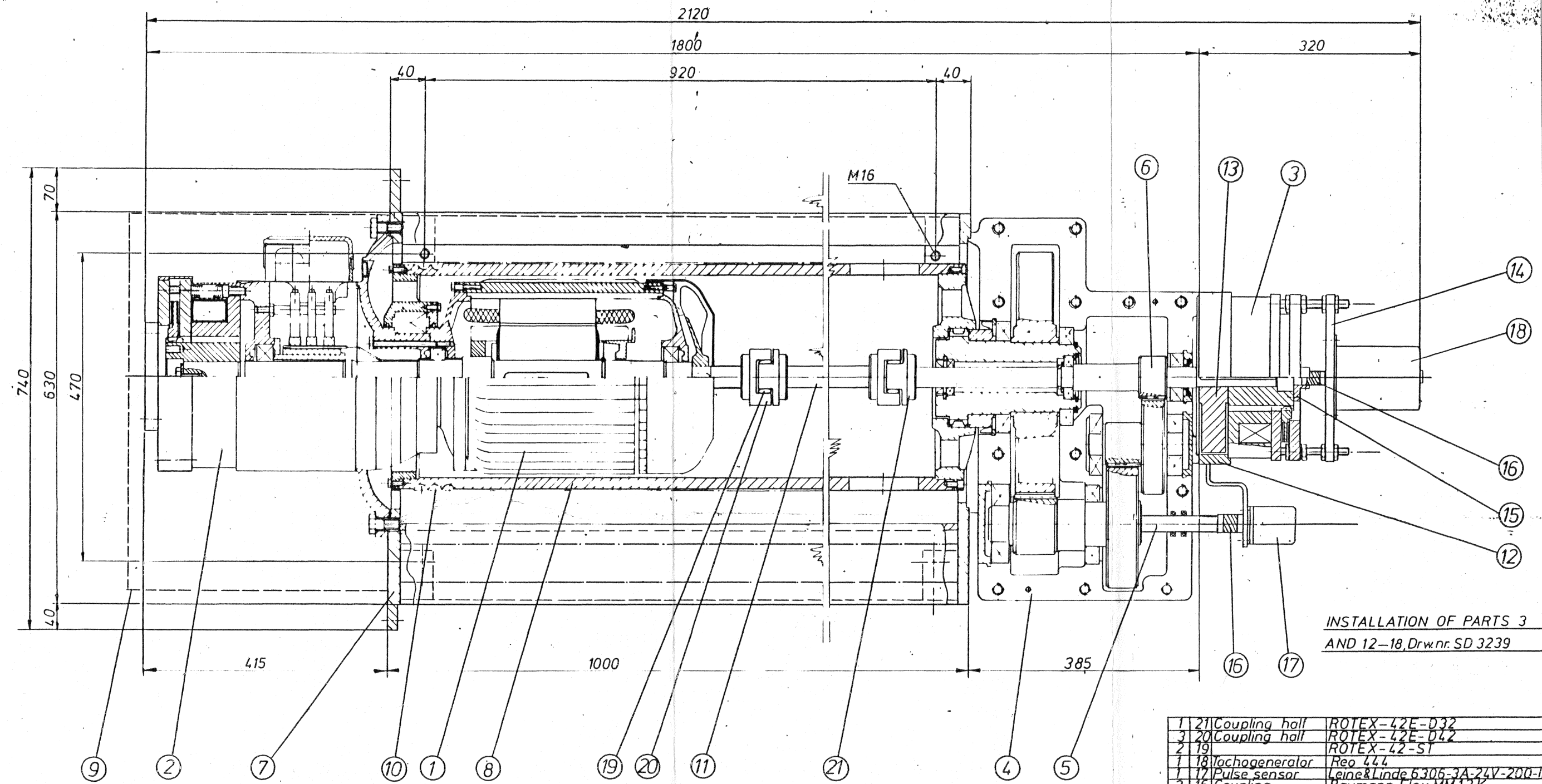
Design: J. Posonen
 Date: 11/19/01
 Part: Hienosäätömekanismi, kun nosti-
 messa on 2-levyjarrua.
 Lisämerkintä: absoluuttimurssi
 SD 3241

KONE
 SD 3241



Replaced	Chd.	Reg.	Title		M-film
Replaced	Appd.	Appd.	Shutter drive schematic arrangement		
	Design GAC		Order No.	Drawing No.	Sheet: No of sheets
	Drn. JDW			SD3250	1/1
	Dept. PC28		Date		

10	11	12	13	14	15	16	17	18	19	20	21



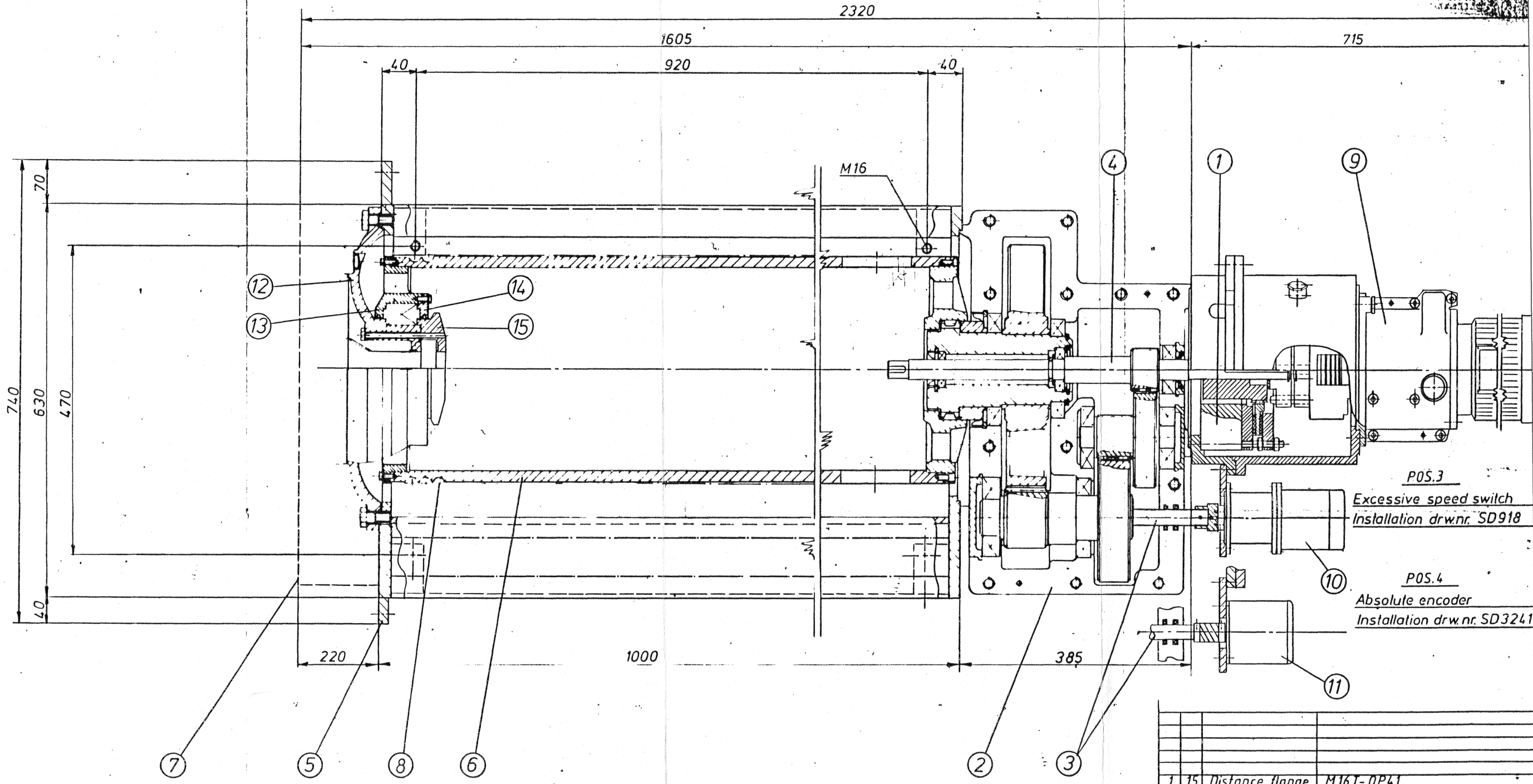
INSTALLATION OF PARTS 3
AND 12-18, Drw.nr. SD 3239

1	21	Coupling half	ROTEX-42E-D32
3	20	Coupling half	ROTEX-42E-D42
2	19		ROTEX-42-ST
1	18	Tachogenerator	Rep 444
1	17	Pulse sensor	Leine&Linde 6306-3A-2LV-200-II
2	16	Coupling	Baumann Flex MM12K
1	15	Coupling	SD 3170
1	14	Support	SD 3139
1	13	Flywheel	SD 3239-OP1
1	12	Support	SD 3239-OP2
1	11	Pinion shaft	SD 3234-OP4
1	10	Rope	Galvanized D20x45m
1	9	Cover	SD 3234-OP5
1	8	Rope drum	SD 3234-OP3 (left hand pitch)
1	8	Rope drum	SD 3234-OP6 (right hand pitch)
1	7	Frame	SD 3234
1	6	Primary shaft	SD 3238
1	5	Secondary shaft	SD 3068-OP2
1	4	Gear box	UN3N-B12E
1	3	Brake	UN3-N3
1	2	Brake	UN8-D50
1	1	Slipping motor	MB16LB3N11675

POS.1
POS.2

J. P. P. P.	998416200
HOIST MACHINERY	
MAIN UNITS	
UN3184TDE	
KONE	SD3250-OP1

10	11	12



1	15	Distance flange	M16T-OP41	
1	14	Bearing cover	M16T-OP31	
1	13	Bearing flange	M16T-OP30	
1	12	Suspension flange	M16T-OP40	
1	11	Absolute encoder	TWK CR 65	(POS.4)
1	10	Speed switch	ASEA TVRD 8	(POS.3)
1	9	Micro drive machinery	UN3-F2	
1	8	Rope	Galvanized 020x45m	
1	7	Cover	SD 3234-OP5	
1	6	Rope drum	SD 3234-OP3 (left hand pitch)	(POS.4)
1	6	Rope drum	SD 3234-OP6 (right hand pitch)	(POS.4)
1	5	Frame	SD 3234	
1	4	Primary shaft	SD 918-OP4	
1	3	Secondary shaft	SD 918-OP5	(POS.3)
1	3	Secondary shaft	SD 3068-OP2	(POS.4)
1	2	Gear box	UN3N-B12E	
1	1	Brake	UN3-N3	

J. Posson 998416200

HOIST MACHINERY

EMERGENCY UNITS

UN3183DE

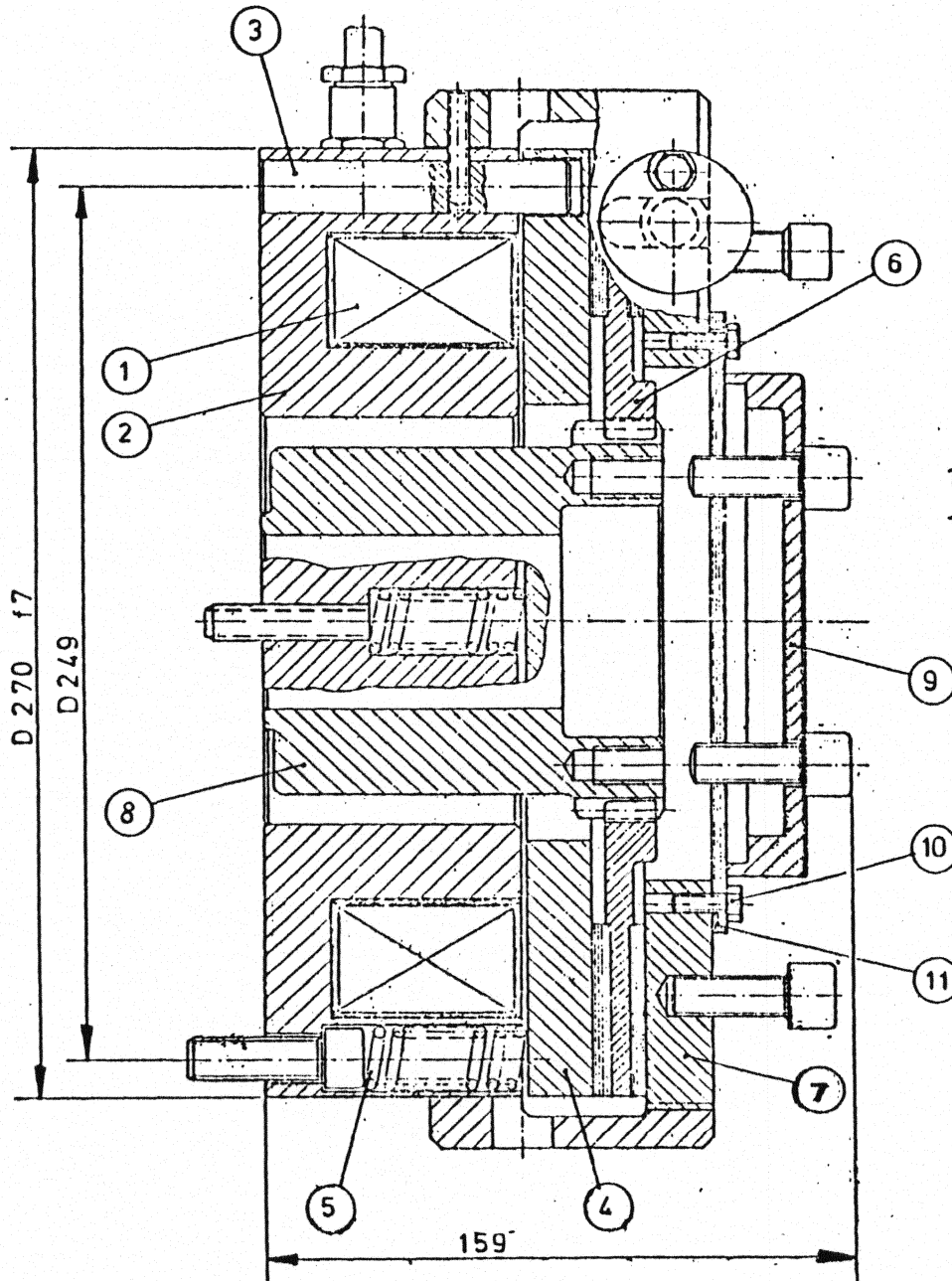
KONE

SD3250-OP2

DISC BRAKE UN8-D60, 50 and 33

1

Construction and operation



- 1. Coil
- 2. Frame
- 3. Control lever
- 4. Armature
- 5. Spring
- 6. Friction plate
- 7. Flange
- 8. Taker
- 9. Tool
- 10. Screw
- 11. Front plate

Fig. 1

When the brake is dead, the springs press against the flange of the friction plate by means of the armature. The brake is closed. When the voltage is connected to the brake, the magnet force pulls against the armature.

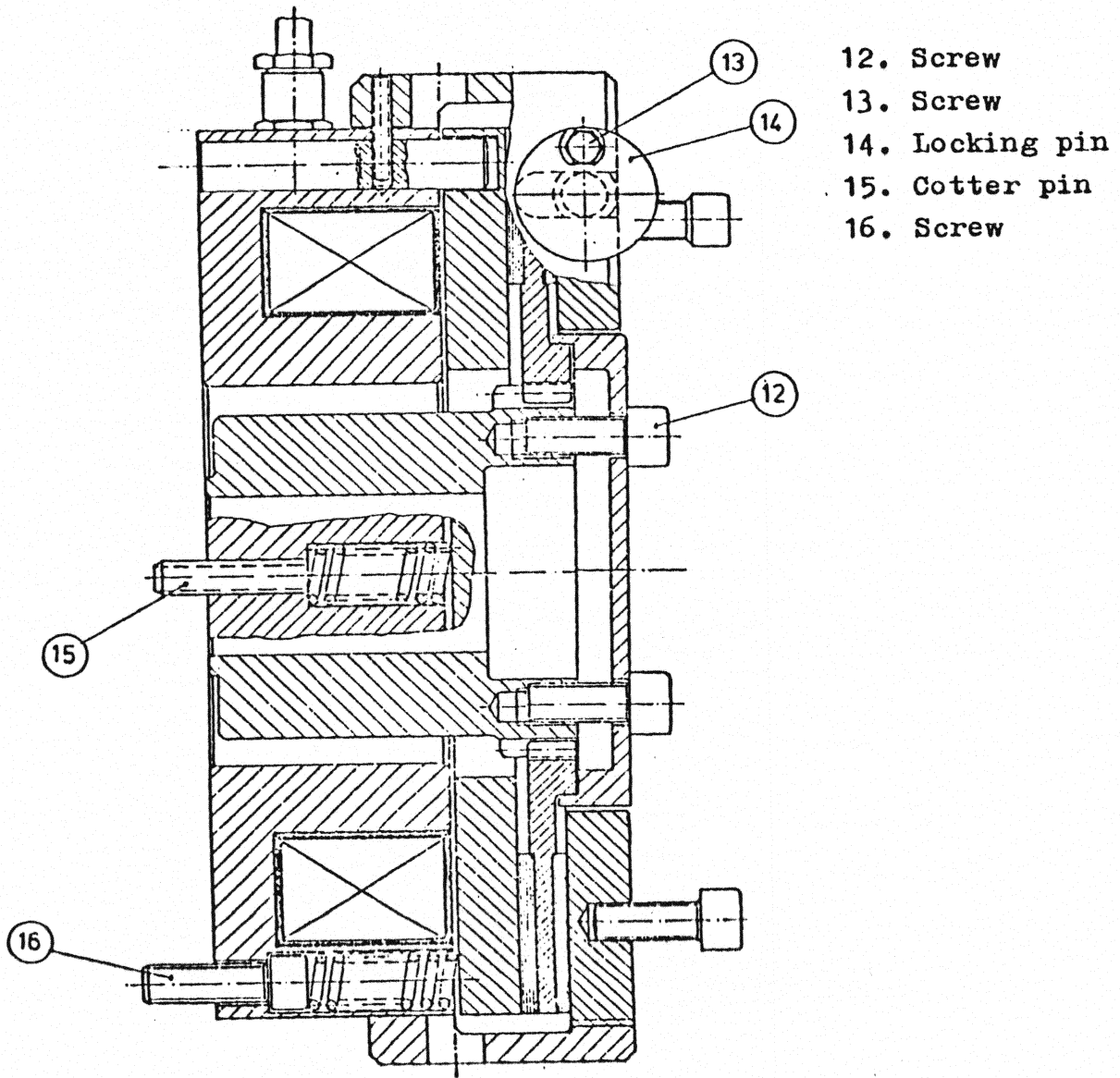
Inspection

The air gap will be inspected once a week. When the brake is dead, measure the air gap by the feeler gauge through the opening, situated under the brake. The wear of the friction plate decelerates after 200...500 brakings. If the air gap becomes too big (over 0,8mm) when wearing the friction plate, the brake must be adjusted.

Maintenance

Clean the brake when the total thickness of the friction plate has worn to 14mm or 12mm.

1. See item 6 Change of friction plate, measures 1...8
2. See item 4 Installation, measures 9...19



- 12. Screw
- 13. Screw
- 14. Locking pin
- 15. Cotter pin
- 16. Screw

4

Installation

The brake is to be disassembled before mounting

1. Loosen the tool (9), fig. 1
2. Loosen the screws (10) and remove the front plate (11), fig. 1.
3. Loosen the screw (13) and lift the locking pin (14) Fig. 2
4. Remove the flange
5. Remove the friction plate, armature and springs.
6. Install the brake so that the elliptical hole on the brake frame is absolutely downwards.
7. Hit the cotter pins (15) into holes, Fig. 2.
8. Screw the screws (6), Fig. 2.
9. Install the springs, armature and friction plate
10. Set the tool (9) on the place, fig. 2.
11. Screw the tool screws (12), till the armature is fixed onto the frame.
12. Install the flange.
13. Turn the flange to the friction plate
14. If one of the flange frame holes is at the locking opening, turn the flange one hole distance backwards.
15. If the hole cannot be seen at the locking opening turn the flange backwards over one hole. The next hole at the locking opening.
16. Fix the locking pin (14) and the screw (13).
17. Remove the tool.
18. Check the air gap, reference value = 0,3...0,7mm
See item 2. Inspection.
19. Fix the front plate and the tool.

5

Brake adjustment

When the air gap is 0,8mm, adjust the brake

1. Measure the air gap (record)
2. See item 2 Inspection
2. See item 4 Installation, measures 1...2.
3. Install the tool (1), Fig. 2.
4. Turn the screws (12) of the tool, till the

armature is fixed onto the frame.

5. Loosen the screw (13) and lift the locking pin (14). Fig. 2.
6. Turn the flange clockwise, till one of the holes situated on the flange frame is the next at the locking opening.
When the flange (7) is turned one hole distance, the air gap becomes 0,38 mm smaller.
7. See item 4 Installation, measures 16...19.

6

Replacement of the friction plate

min 10 mm

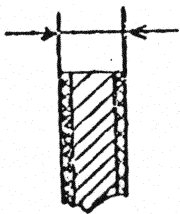


Fig. 3

When the total thickness of the friction plate has worn 10mm, replace a new friction plate, see fig. 3.

1. Loosen the tool (19), Fig. 1
2. Loosen the screws (10) and remove the front plate (11). Fig. 1
3. See item 5 Brake adjustment measures 3...5.
4. Loosen the flange.
5. Remove the tool.
6. Remove the friction plate, armature and springs
7. Clean the brake from the inside and the armature and the flange surfaces.
8. Install the springs and the armature
9. Install a new friction plate
10. See item 4 Installation measures 10...19

7

Spare parts

Friction plate UN8-D50-L

	Mark	pcs.	Brake type
Springs	Hf630	18	UN8-D60
"	"	14	UN8-D50
"	"	10	UN8-D33