

Hydraulic vehicle lift

ST 4055 / ST 4070



List of parts and appendices

44508020-A



List of parts and appendices for the 5.5 and 7 ton Stertil-Koni hydraulic
vehicle lift

ST 4055 / ST 4070

Starting at Serial Number:

TQ/TR119371

1

List of parts and appendices

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Table 1.1 Summary vehicle lift

Index	No.	Reference	Description	Remarks
1	3	44501150	Post No. 1, 2 and 4	
2	2	1020.50.00.01	Stop block	
3	1	See Figure 1.4	Cross beam 3-4 assembly	
4	1	43507111	El. cable track	
5	2	See Figure 1.2	Hydraulic cylinder assembly	
6	2	See Figure 1.3	Track	
7	1	See Figure 1.4	Cross beam 1-2 assembly	
8	2	See Figure 1.3	Ramp	
9	1	44501050	Post 3	
10	4	43500101	Post cover	
11	1	66102015	Cable duct	
12	1	43507108	End switch	
13	2	65045017	Screw M6x20	
14	2	44506020	Shaft	
15	2	65025039	Bolt M8x12 DIN7991 GV	
16	2	See Figure 1.3	Stop plate	
17	2	43506004	Hydraulic hose L=640	
18	1	1003.91.23.10	T-joint T10-PS	
19	1	See Figure 1.5	Operating panel assembly, 400 V	
20	16	65016005	Capsule UKA 3 EAP M10, 420 upat	
21	16	65055310	Washer M10, DIN440R GV	
22	16	65016004	Anchor rod ASTA M10x130, 7831 upat GV	
23	1	43500110	Filling plates (18 pieces), 1 mm	
23	1	43500115	Filling plates (18 pieces), 0.5 mm	
24	1	3583.04.60.00	Filling plates (12 pieces), 1 mm	
24	1	3583.04.61.00	Filling plates (12 pieces), 0.5 mm	
25A	1	44006050	Steel cable 1 L=3840	ST4055/ST4070-S
25A	1	44026050	Steel cable 1 L=3990	ST4055-V/ST4070-SV
25A	1	44506050	Steel cable 1 L=4425	ST4055-L/ST4070
25A	1	44526050	Steel cable 1 L=4575	ST4055-LV/ST4070-V
25A	1	44516050	Steel cable 1 L=4920	ST4070-L
25A	1	44536050	Steel cable 1 L=5070	ST4070-LV
25B	1	44006100	Steel cable 2 L=5550	ST4055/ST4070-S
25B	1	44026100	Steel cable 2 L=5700	ST4055-V/ST4070-SV
25B	1	44506100	Steel cable 2 L=6135	ST4055-L/ST4070
25B	1	44526100	Steel cable 2 L=6285	ST4055-LV/ST4070-V
25B	1	44516100	Steel cable 2 L=6630	ST4070-L
25B	1	44536100	Steel cable 2 L=6780	ST4070-LV
25C	1	44006150	Steel cable 3 L=8910	ST4055/ST4070-S
25C	1	44026150	Steel cable 3 L=9055	ST4055-V/ST4070-SV
25C	1	44506150	Steel cable 3 L=10095	ST4055-L/ST4070
25C	1	44526150	Steel cable 3 L=10240	ST4055-LV/ST4070-V
25C	1	44516150	Steel cable 3 L=11085	ST4070-L
25C	1	44536150	Steel cable 3 L=11235	ST4070-LV
25D	1	44006200	Steel cable 4 L=10615	ST4055/ST4070-S
25D	1	44026200	Steel cable 4 L=10765	ST4055-V/ST4070-SV
25D	1	44506200	Steel cable 4 L=11800	ST4055-L/ST4070
25D	1	44526200	Steel cable 4 L=11950	ST4055-LV/ST4070-V
25D	1	44516200	Steel cable 4 L=12795	ST4070-L
25D	1	44536200	Steel cable 4 L=12945	ST4070-LV
28	4	44505050	Locking profile	

Table 1.1 Summary vehicle lift

Index	No.	Reference	Description	Remarks
29	8	65050152	Nut M30, 8 DIN934 GV	
30	1	See Figure 1.7	Hydraulic unit assembly	
31	4	65051040	Selflocking nut M16, 8 DIN985 GV	
33	8	65055432	Washer, DIN9021 GV	
34	4	43500103	Compression spring	
35	4	65012540	Bolt M16x90, 8.8 DIN912 GV	
36	1	65099028	Hose clip norma torro, DIN3017 60-80 B9 W3	
37	2	44506256	Pin	
38	2	65214359	Adjusting bolt M8x12, 45H DIN 916	
39	1	44506255	Plunger head	
40	1	43505020	Limit switch support	Level limit
41	1	43507109	Limit switch level limit	
42	1	44500150	Cylinder support / drip tray	
43	2	65030226	Bolt M4x25, 4.8 DIN84 GV	
44	2	65051044	Self-locking nut M20, 8 DIN985 GV	

1.2 Cylinder

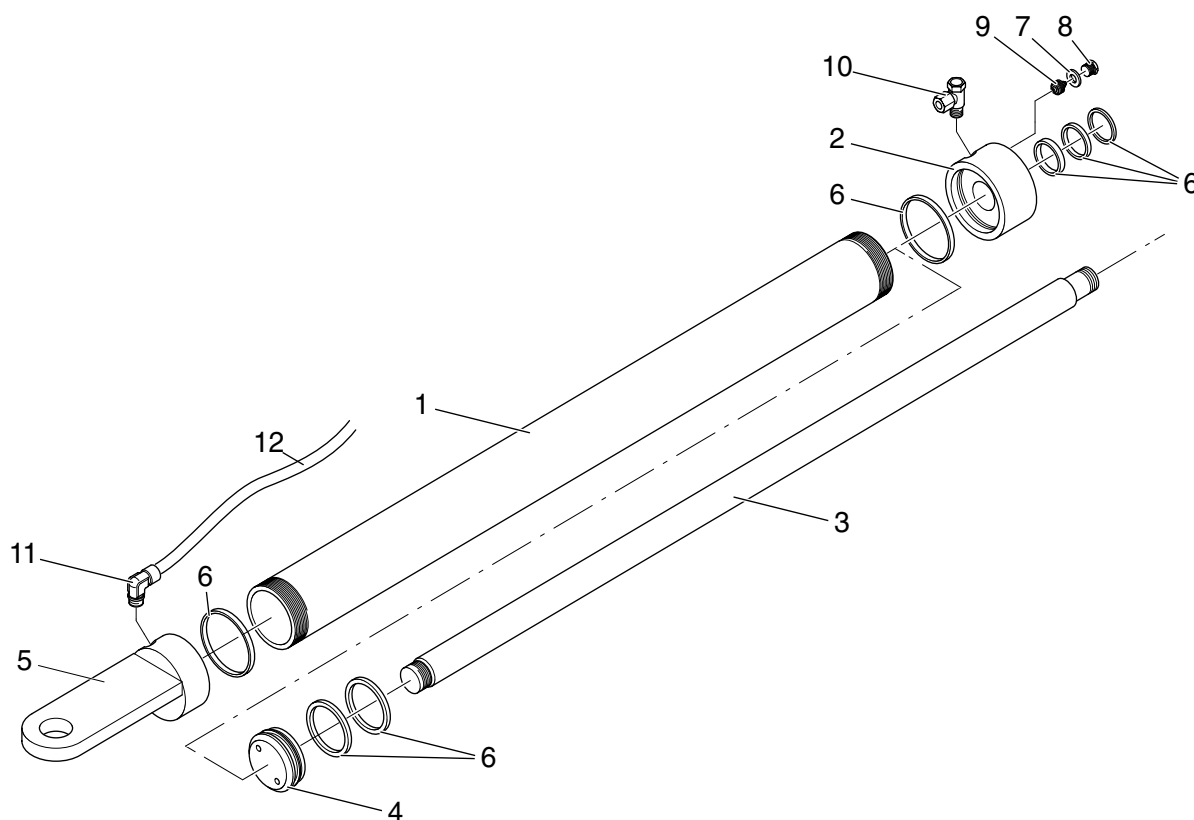


Figure 1.2 Cylinder

Table 1.2 Cylinder

Index	No.	Reference	Description	Remarks
		43006250	Cylinder assy, L=2173, Hub=1870	ST4055 all types
		43506250	Cylinder assy, L=2173, Hub=1870	ST4070 all types
1	1		Cylinder	
2	1		Cylinder head	
3	1		Piston rod	
4	1		Piston	
5	1		Cylinder attachment	
6	1	43006901	Seal kit	ST4055 all types
6	1	43506901	Seal kit	ST4070 all types
7	1		Sealing ring 13,7x20x1,5, usit	
8	1	68790019	Plug G1/4" bzk, DIN908	
9	1	68228000	Hose burst check valve vp-n-14	28 l/min Tightening moment 2 Nm
10	1	68702213	Coupling, SWVE 10-PSR	
11	1	1003.95.17.08	Elbow, KIKI 8x1/8	
12	1	70900033	Air hose PU Naturel, Round 8-6 Length 2 mtr.	

1.3 Tracks

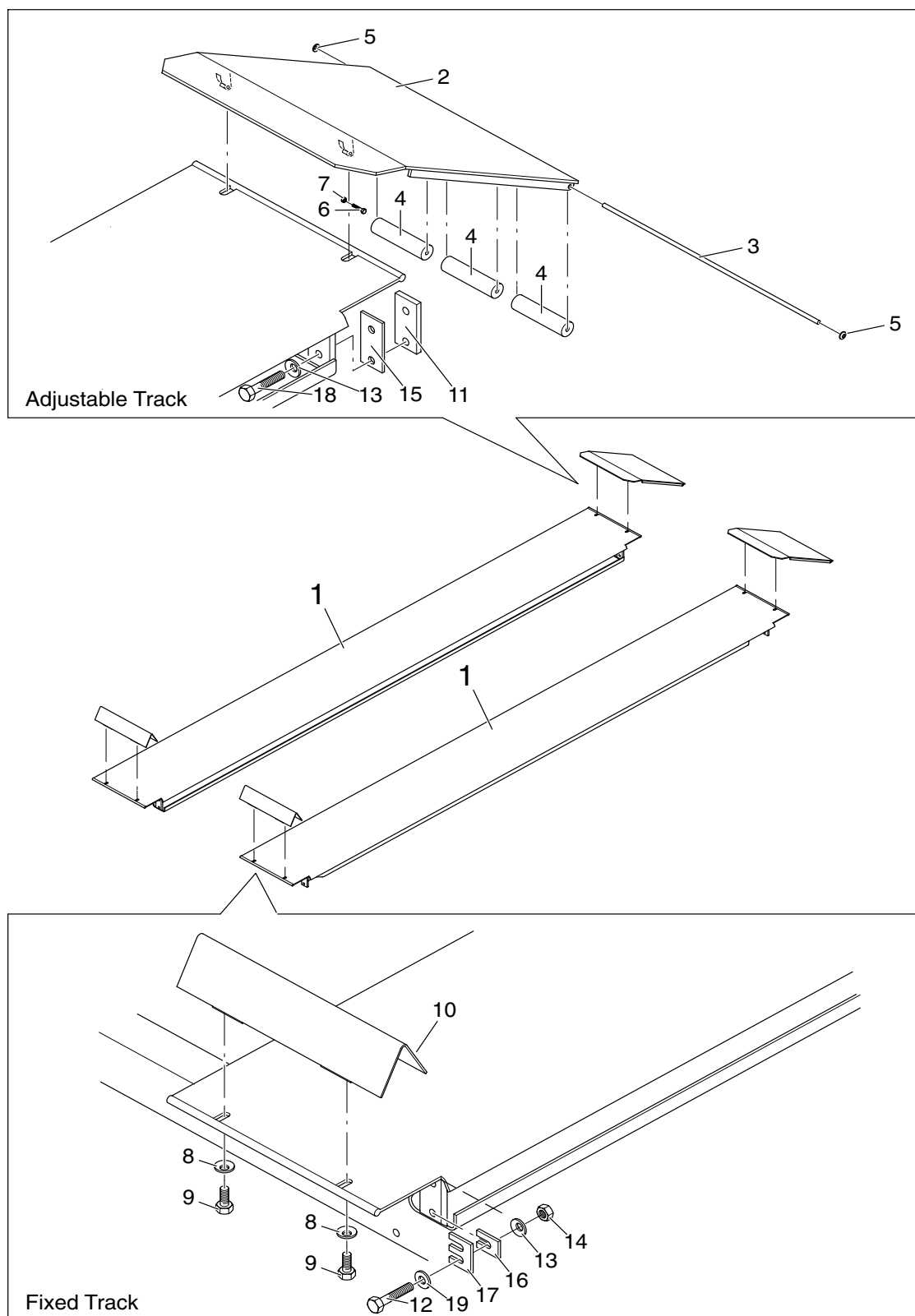


Figure 1.3 Tracks

Table 1.3 Tracks

Index	No.	Reference	Description	Remarks
1	2	44003050	Track 630-4900	ST4055/ST4055-V/ST4070-S/ ST4070-SV
1	2	44503050	Track 630-5500	ST4055-L/ST4055- LV/ST4070/ST4070-V
1	2	44513050	Track 630-6000	ST4070-L/ST4070-LV
2	2	44504300	Drive on ramp 630 mm wide	
2	2	43554920	Drive on ramp 630 mm wide	Short for pit model
3	2	3621.14.02.00	Shaft 630 mm wide	
4	6	3617.58.03.00	Roller	
5	4	1038.34.01.00	Circlip with cap 10 mm	
6	4	65003283	Bolt M6x12, 8.8 DIN933 GV	
7	4	1037.86.06.06	Self locking nut M6, 8 DIN985 GV	
8	4	65058028	Spring ring M10, DIN127B GV	
9	4	65003401	Bolt M10x16, 8.8 DIN933 GV	
10	2	44504150	Stop plate	
11	4	44503061	Clamping plate	
12	8	65002450	Bolt M12x45, 8.8 DIN931 GV	
13	16	65058032	Spring ring M12, DIN127B GV	
14	8	65050136	Nut M12, 8 DIN934 GV	
15	4	44503060	Guide plate	
16	6	43500104	Filling plate	
17	10	44500105	Filling plate	
18	8	65003448	Bolt M12X35, 8.8 DIN933 GV	
19	8	65055021	Washer M12, DIN125 GV	

1.4 Cross beams

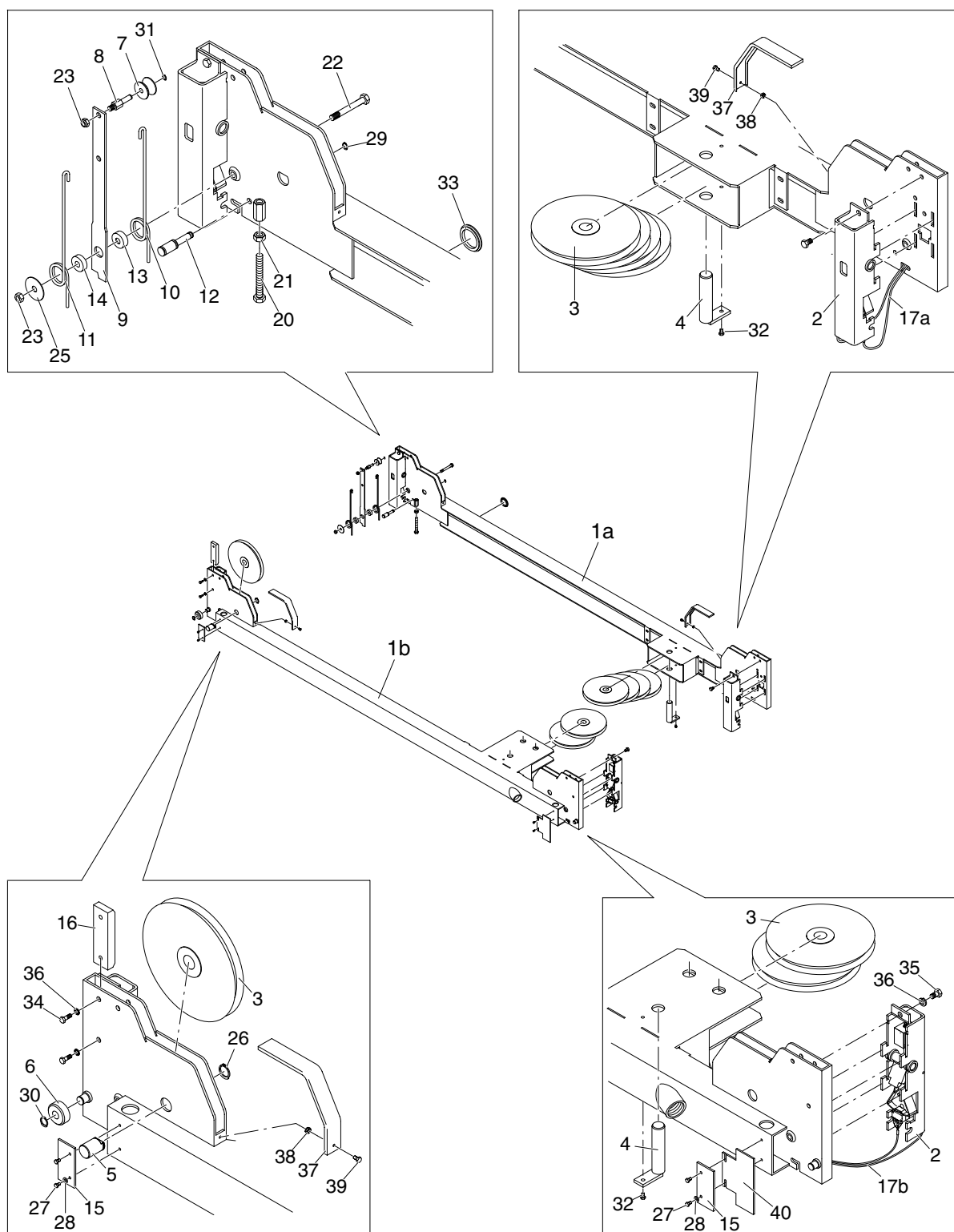


Figure 1.4 Cross beams

Table 1.4 Cross beams

Index	No.	Reference	Description	Remarks
1a	1	44502050	Cross beam 1-2 L=3300	ST4055/ST4055-L/ST4070-S/ ST4070/ST4070-L
1a	1	44522050	Cross beam 1-2 L=3600	ST4055-L/ST4055-LV/ST4070- SV/ST4070-V/ST4070-LV
1b	1	44002300	Cross beam 3-4 L=3300	ST4055/ST4055-L/ST4070-S/ ST4070/ST4070-L
1b	1	44522300	Cross beam 3-4 L=3600	ST4055-L/ST4055-LV/ST4070- SV/ST4070-V/ST4070-LV
2	4	43505400 See Figure 1.6	Slack cable / cable breakage safety device	
3	10	44506001	Pulley	
4	2	44506010	Shaft	
5	4	44506002	Shaft	
6	4	43502003	Roller	
7	4	43505005	Roller	
8	4	43505012	Shaft	
9	4	43505013	Lever	
10	4	43505007	Torsion spring right	
11	4	43505006	Torsion spring left	
12	4	43505008	Shaft	
13	4	44505009	Bush	
14	4	43505010	Bush	
15	10	43502002	Guide strip	
16	4	44502004	Guide block	
17a	1	43507107	Cable assy cross beam 1-2	
17b	1	43507106	Cable assy cross beam 3-4	
20	4	65003457	Bolt M12x80, 8.8 DIN933 GV	
21	4	65050136	Nut M12, 8 DIN934 GV	
22	4	65002421	Bolt M10x100, 8.8 DIN931 GV	
23	8	65051034	Self-locking nut M10, 8 DIN985 GV	
25	4	65055711	Washer M10x50	
26	4	1038.40.04.00	Retaining ring a40, DIN471 FF	
27	8	1036.30.06.16	Screw M6x16, uls-109 GV	
28	8	65055015	Washer M6, DIN125A GV	
29	4	65062028	Retaining ring No. 12, DIN6799 GV	
30	4	65062030	Retaining ring No. 15, DIN6799 FF	
31	4	65062024	Retaining ring No. 9, DIN6799 FF	
32	2	65025039	Bolt M8x12, 8.8 DIN7991 GV	
33	1	66201092	Plug GPN320 GL70, Black 021185 Emergo	
34	8	65025056	Bolt M10x25, 10.9 ISO7380 GV	
35	4	65003401	Bolt M10x16, 8.8 DIN933 GV	
36	12	65258228	Spring ring M10, DIN6798A GV	
37	4	44502001	Wheel cover	
38	4	65052910	Special nut M5 cv-4825	
39	4	65034251	Screw M5x16, 4.8 DIN7985 GV	
40	1	43500102	Switching plate foot safety	

1.5 Post with operation devices

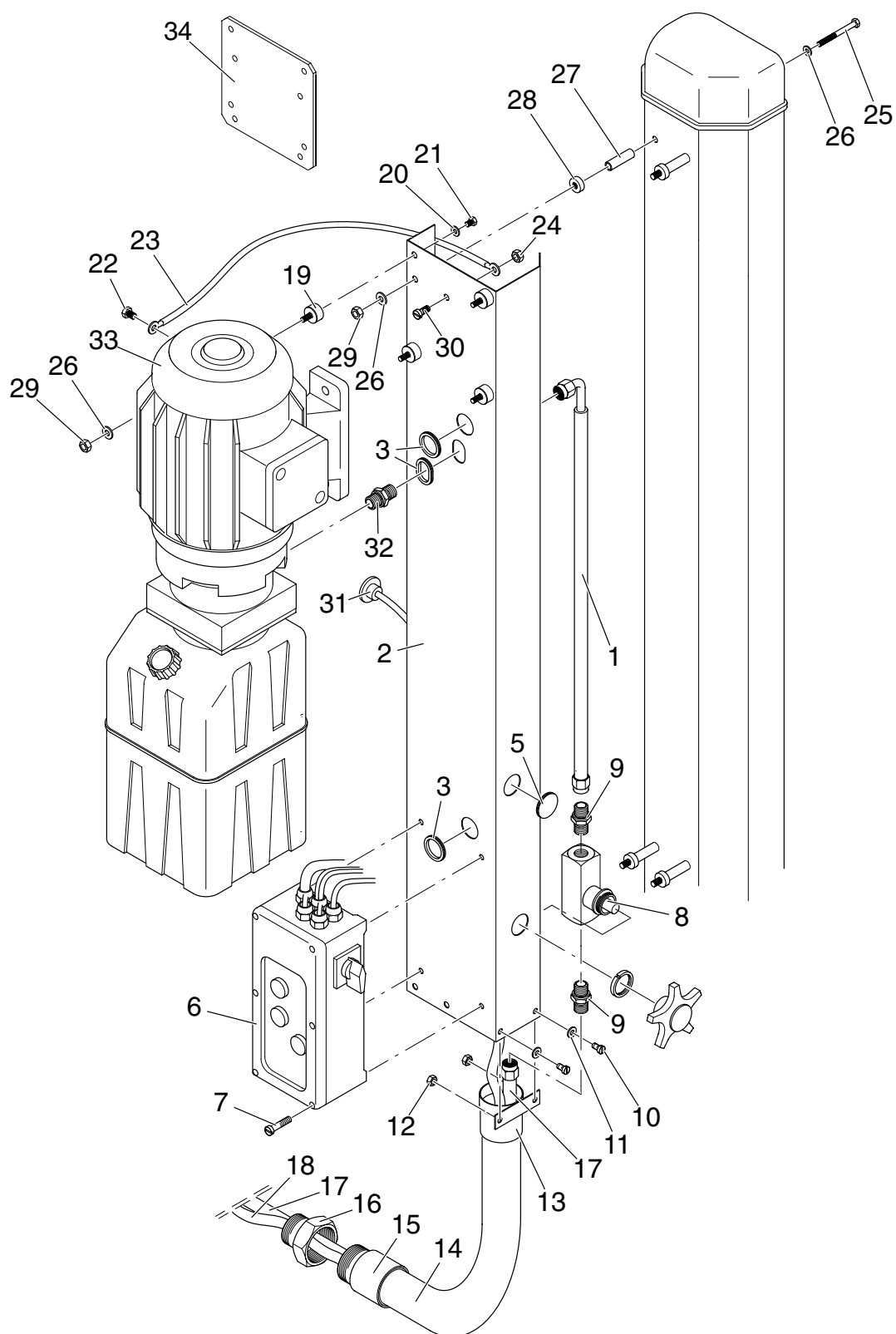


Figure 1.5 Post with operation devices

Table 1.5 Post with operation devices

Index	No.	Reference	Description	Remarks
	1	44507000	Operating panel assembly (400 V)	
	1	44507200	Operating panel assembly (230 V)	Included intermediate plate 34
1	1	44506004	Hydr. hose, L=780	
2	1	44507001	Operating panel	
3	3	66201093	Side protection 387-6, L=125	
5	1	66201094	Plug	
6	1	Figure 1.11	Control box	
7	4	1039.64.02.80	Drive screw M4x16	
8	1	68900041	Tap FT-257-5-38-G-MP	
9	2	68700450	Coupling, GE 10-PSR	
10	2	65003287	Bolt M6x20, 8.8 DIN933 GV	
11	2	65055015	Washer M6, DIN125A GV	
12	2	65051028	Self-locking nut, 8 DIN985 GV	
13	1	1002.02.05.10	Hose swivle	
14	1	1002.02.04.08	Protective hose, L=1550	
15	1	1002.02.05.09	Hose swivle	
16	1	69061041	Reduction ring RED 48/36 M	
17	1	43506005	Hydr. hose, L=4500	
18	1	43507105	Extension cableSLK/KBR/ONT	
19	4	1009.19.00.75	Buffer	
20	4	65055018	Washer M8, DIN125A GV	
21	4	65003359	Bolt M8x12, 8.8 DIN933 GV	
22	1	1039.55.02.60	Screw M4x10, DIN7516A GV	
23	1	02335602	Earth cable	
24	1	65050126	Nut M5, 8 DIN934 GV	
25	4	65002374	Bolt M8x65, 8.8 DIN931 GV	
26	12	65055018	Washer M8, DIN125A GV	
27	4	66201089	Distance bush 8.2 - 18-40	
28	4	1037.96.00.80	Nut skiffy 73-8	
29	8	65051032	Self-locking nut M8, 8 DIN985 GV	
30	1	65034251	Screw M5x16, 4.8 DIN7985 GV	
31	1	69202008	Acoustic alarm	
32	1	68700451	Coupling, GE 10-PS/R 1/4	
33	1	See Figure 1.7	Pump unit	
34	1	3574.95.00.01	Intermediate plate	230V unit

1.6 Slack cable / Cable breakage safety device

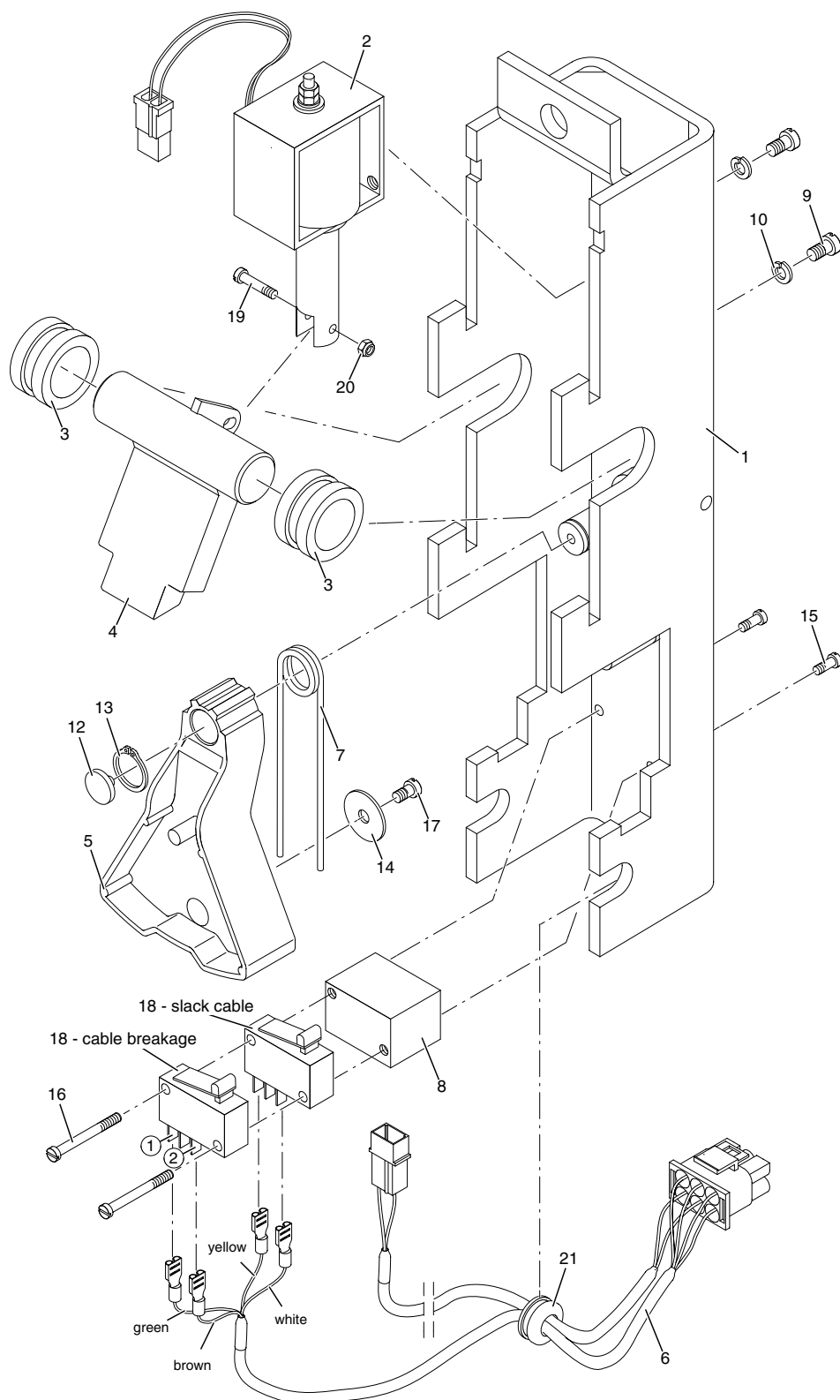


Figure 1.6 Cable safety device

Table 1.6 Cable safety device

Index	No.	Reference	Description	Remarks
		43505400	Console assembly	
1	4	43505450	Console	
2	4	69451420	Lifting magnet	
3	8	43505401	Bearing bush	
4	4	43505404	Pawl	
5	4	43505402	Toggle lever	
6	4	43507110	Cable assy	
7	4	43505403	Torsion spring	
8	4	43505408	Distance block	
9	8	65034219	Screw M4x10, 4.8 DIN7985 GV	
10	8	1038.27.00.43	Lock washer M4, DIN6798A GV	
11	8	66201052	Tyrap	
12	4	66201085	Protective cap	
13	4	1038.40.01.20	Retaining ring a12, DIN471 FF	
14	4	66201100	Insulating ring	
15	8	1036.23.01.76	Screw M3x16, 4.8 DIN84 GV	
16	8	1036.23.01.83	Screw M3x30, 4.8 DIN84 GV	
17	4	65045018	Screw 3,9x9,5	
18	8	69175101	Safety switch	
19	4	65034224	Screw M4x20, 4.8 DIN7985 GV	
20	4	65051024	Self-locking nut M4, 8 DIN985 GV	
21	4	1002.22.01.35	Grommet	

1.7 Pump unit

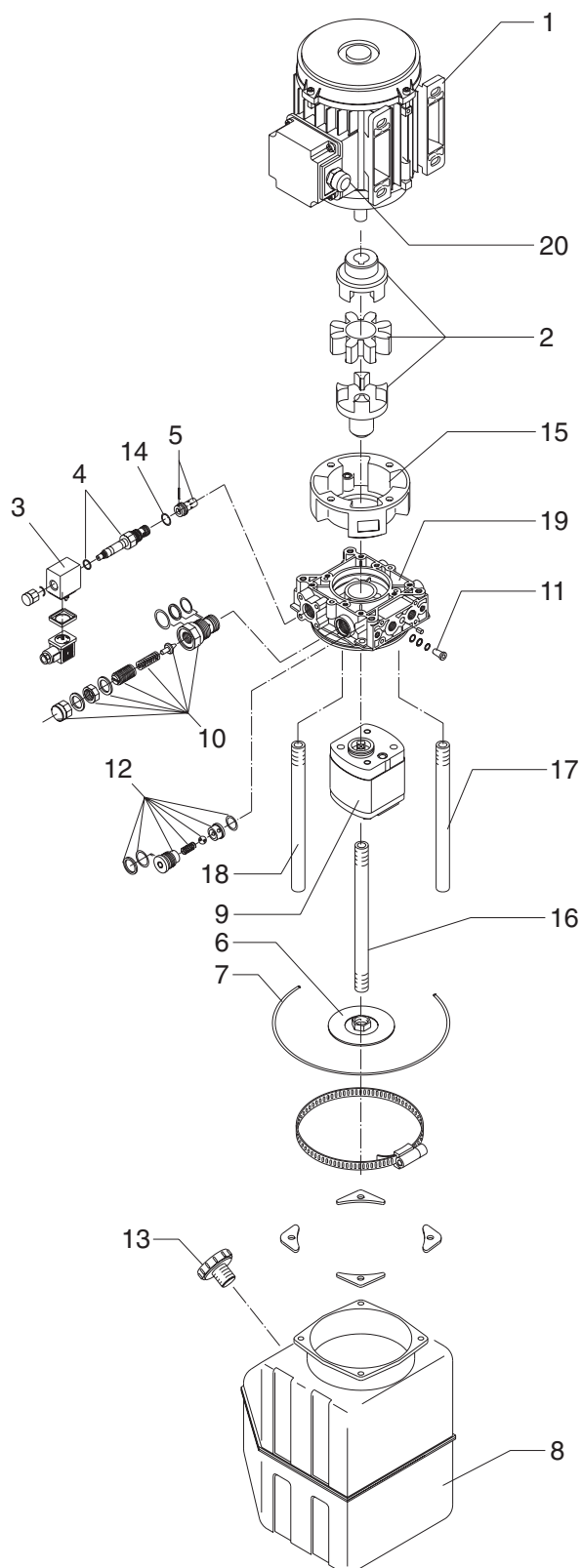


Figure 1.7 Pump unit

Table 1.7 Pump unit

Index	No.	Reference	Description	Remarks
		68051023	Hydr.unit 260 bar 3x400V 50Hz	
		68050723	Hydr.unit 260 bar 3x230V 50Hz	
		68052023	Hydr.unit 260 bar 1x230V 50Hz	Single phase
1	1	68059022	Electric motor 3x400V 50Hz, 5,5kW	
1	1	68049001	Electric motor 3x230V 50Hz, 3,6kW	
1	1	68049026	Electric motor 1x230V 50Hz 1,8kW 1400rpm	Single phase
2	1	68059024	Coupling	3x400V 50Hz
2	1	68049003	Coupling	3x230V 50Hz
3	1	68059015	Solenoid 24 Vcc	
4	1	68049014	2/2 bi-dir valve	Tightening moment 45 Nm
5	1	68049020	Flow control valve 15 ltr/min.	
6	1	68049008	Suction filter 90 micron	
7	1	68049011	O-ring 112 x 3	
8	1	68059021	Tank reservoir 12 liter	
9	1	68059025	Pump K1PS 7.5G 4,8cc	3x400V 50Hz
9	1	68049006	Pump K1PS 5.0G 3,2cc	3x230V 50Hz
10	1	68049016	Relief valve	Tightening moment 45 Nm
11	1	68049017	Retour filter 1/4"BSPP	
12	1	68049018	Check valve	Tightening moment 18 Nm
13	1	68049022	Breather cap	
14	1	68511160	O-ring 16,36 x 2,21 90° sh.	
15	1	68059023	Flange	3x400V 50Hz
15	1	68049002	Flange	3x230V 50Hz
16	1	68059007	Suction pipe, L=357	
17	1	68059009	Return pipe overflow, L=400	
18	1	68089008	Return pipe, L=250	
19	1	68049012	Pump housing A8F	
20	1	1002.15.00.53	Gland Pg16, Wiska KVG 16	

1.8 Schematic diagram 380/415V - 220/240V

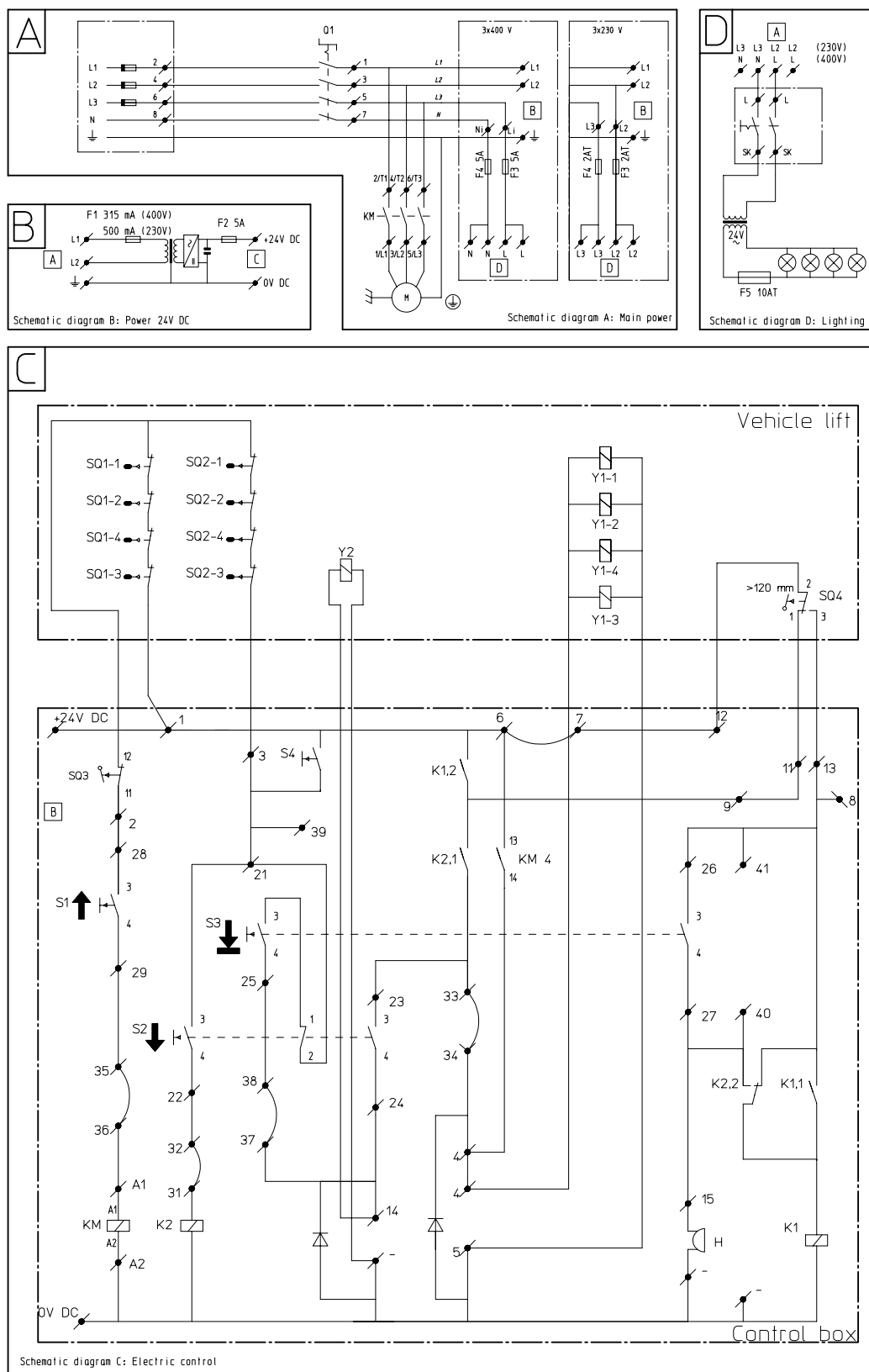


Figure 1.8 Schematic diagram

Table 1.8 Schematic diagram

Index	Description
Q1	Main switch
M	El. motor
F	Fuse
SQ1	Cable break switch
SQ2	Slack cable switch
SQ3	Switch highest position
SQ4	Switch foot protection
S1	Switch raise
S2	Switch lower
S3	Switch lower by interlock
K1/K2	Relay
KM	Motor relay
Y1	Unlocking magnets
Y2	Lowering valve
H	Acoustic alarm

1.9 Wiring diagram

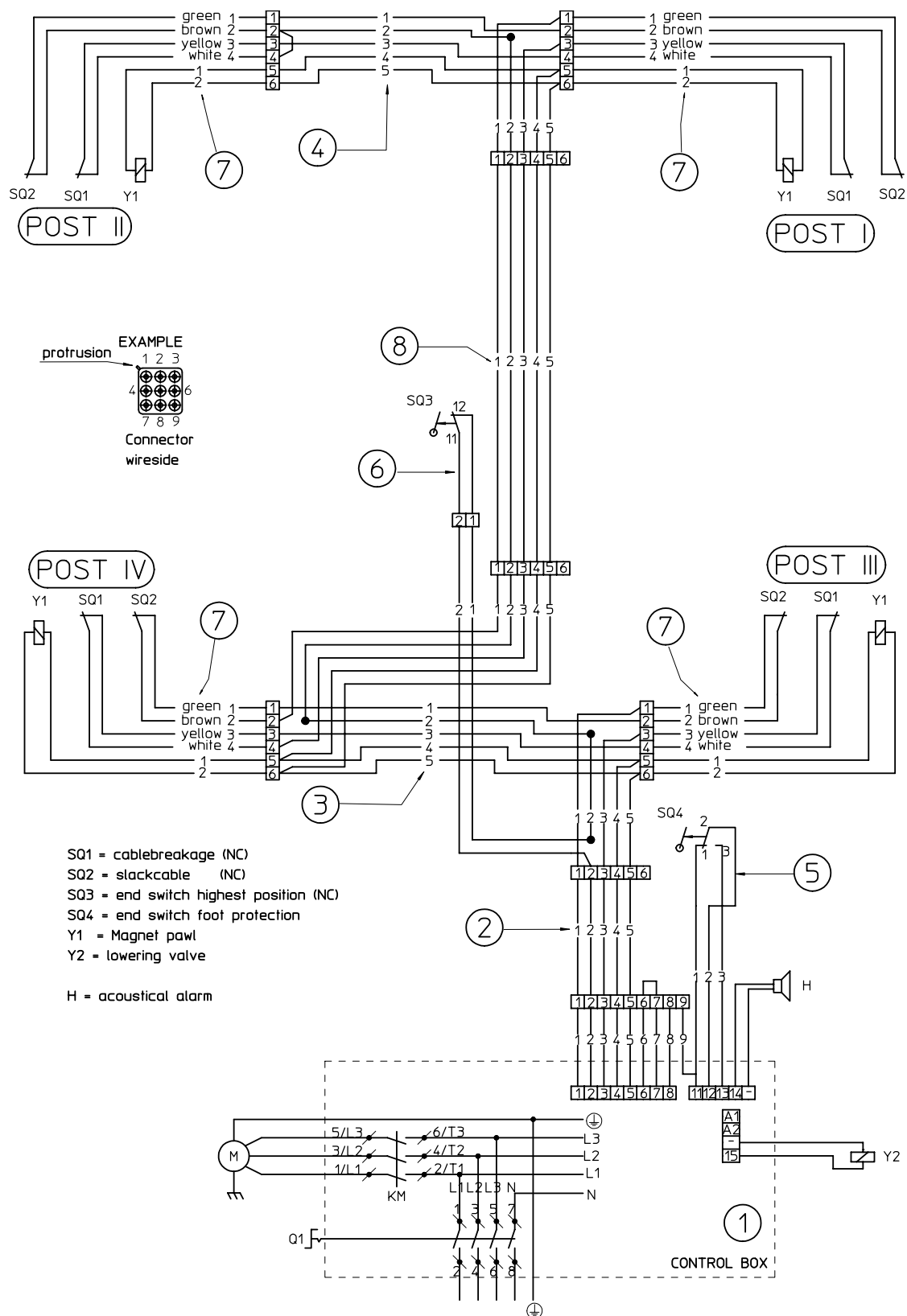


Figure 1.9 Wiring diagram

1.10 Electric cables

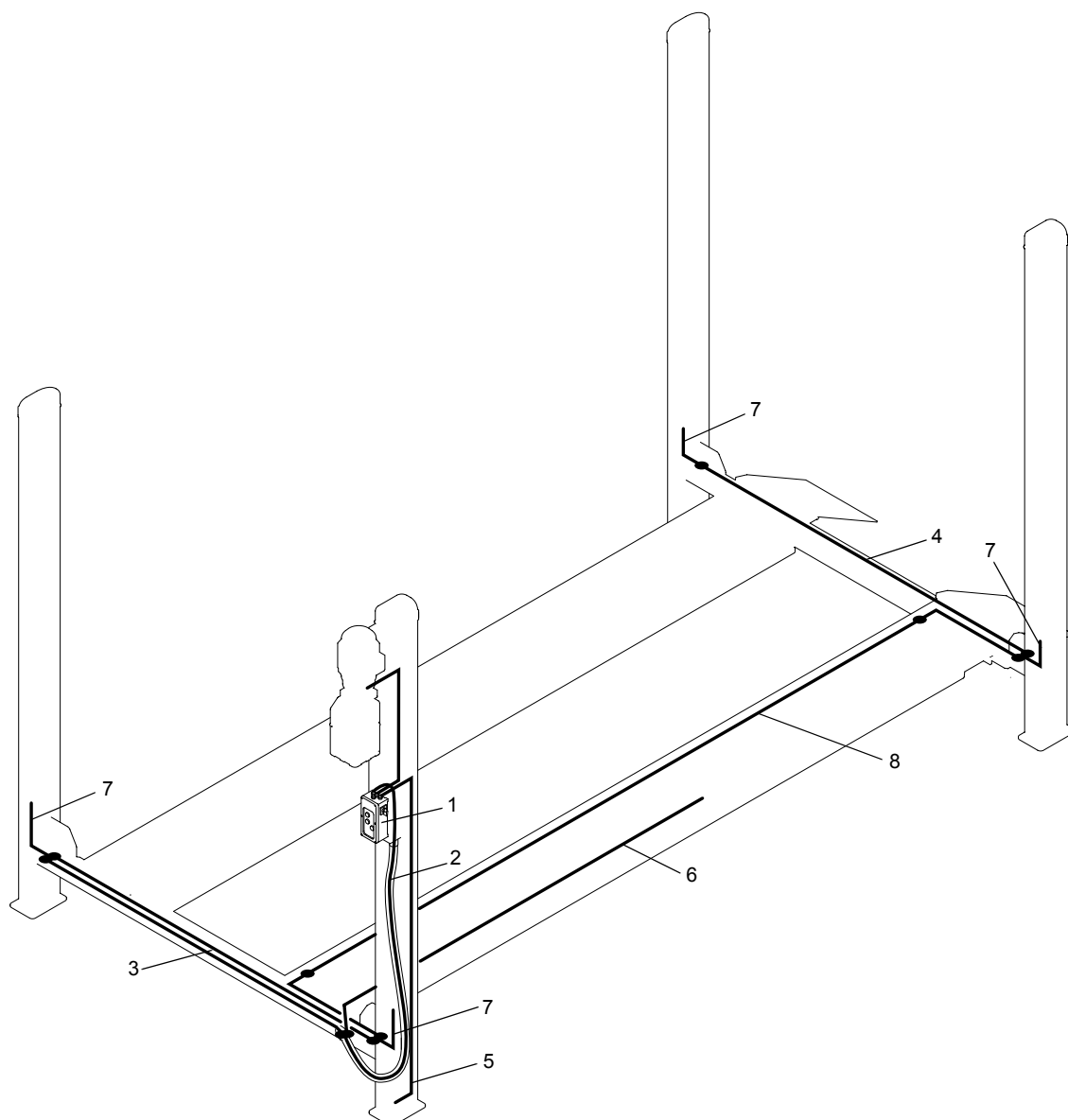


Figure 1.10 Electric cables

Table 1.9 Electric cables

Index	No.	Reference	Description	Remarks
1	1	43507100	Control box incl. cables	
2	1	43507105	Extension cable	
3	1	43507106	Cable tree cross beam 3-4	
4	1	43507107	Cable tree cross beam 1-2	
5	1	43507108	Switch foot protection (incl. cable)	
6	1	43507109	Switch highest position (incl. cable)	
7	4	43507110	Cable tree (slack-steel cable/steel cable breakage/locking pawl)	
8	1	43507111	Cable track	

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List of Parts Hydraulic Vehicle Lift ST 4055 / ST 4070

Table 1.10 Control box

Index	No.	Reference	Description	Remarks
		43507100	Control box 400V	
		43507300	Control box 230V	
1	1	3501.50.00.01	Bottom control box	
2	1	43507125	Cover control box, incl. sticker	
3	1	3501.50.90.02	Main switch, ASN AV4 ZM/Z20/F901 g/r	
4	1	69900075	Power board 400V, incl. components	400V control box
4	1	69900080	Power board 230V, incl. components	230V control box
5	1	69900070	Control board, incl. components	
6	1	69152006	Magnetic switch, 3RT 1017-1BB41 Siemens	
7	4	3501.50.90.08	Fuse 5A/slow, round 5x20	
8	2	69206005	Fuse 315mA/slow, round 5x20	400V control box
8	2	69206011	Fuse 500mA/slow	230V control box
10	2	69141039	Push button, Siemens 3SB3000-OAA11	
11	5	69141014	NO-contact, Siemens 3SB3400-OB	
12	1	69141040	Push button, 3SB3001-OAA...Z+3SB3901-OAC Siemens	
13	2	69062009	Rope swivel M20x1,5 22052u13 red Pflitsch	
14	1	69062050	Rope swivel M20x1,5 22052um2x6 Pflitsch	
15	1	69062008	Rope swivel M20x1,5 22052u11 green Pflitsch	
16	1	69062006	Rope swivel M20x1,5 22052u8 grey Pflitsch	
17	4	69062033	Connection nut M20x1,5 1420/220 Pflitsch	

1.12 Stickers

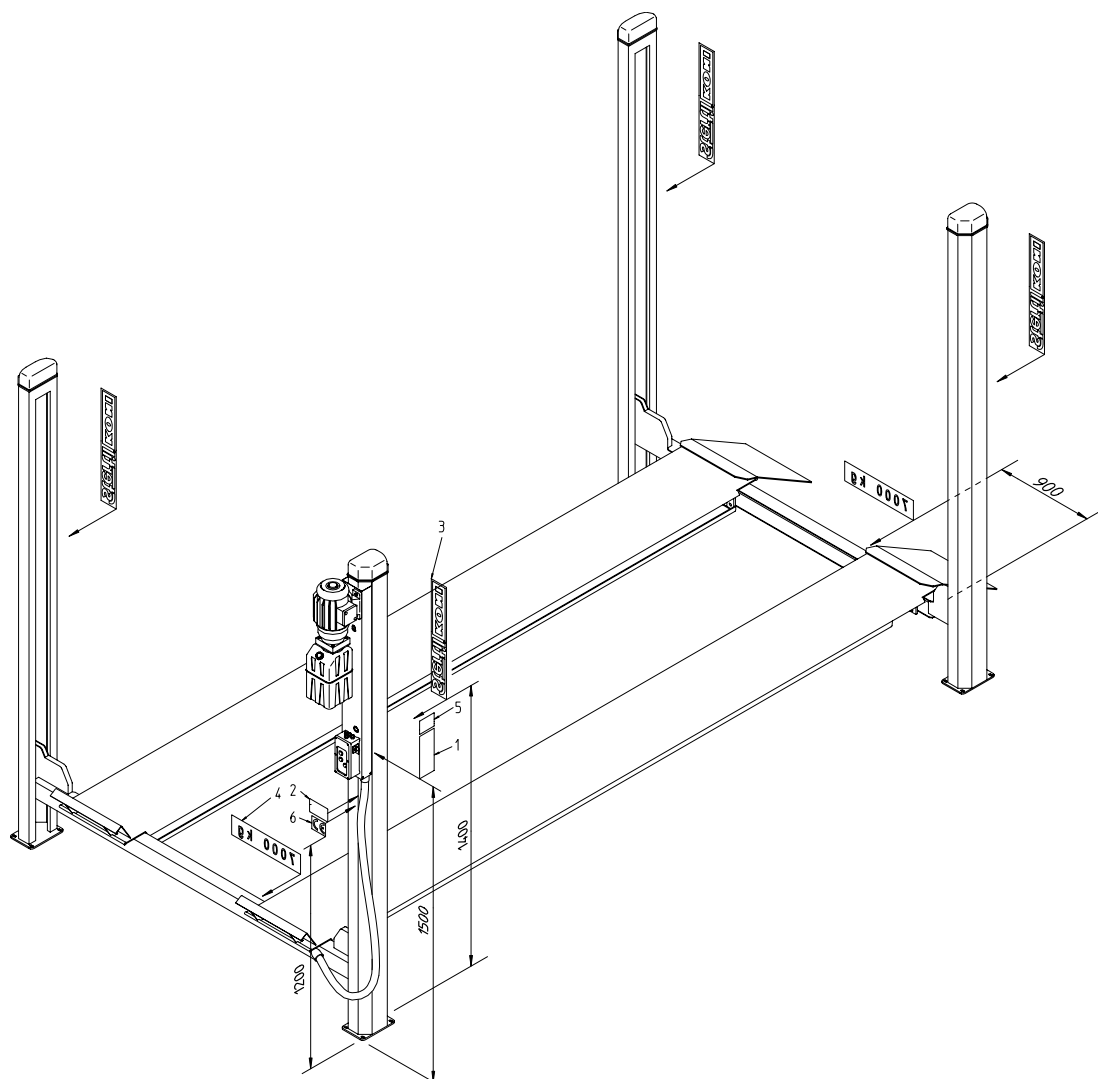


Figure 1.12 Stickers

Table 1.11 Stickers

Index	No.	Reference	Description	Remarks
1		60700179	Operation sticker	English
1		60700180	Operation sticker	German
1		60700181	Operation sticker	French
1		60700182	Operation sticker	Swedish
1		60700178	Operation sticker	Dutch
2		1005-01-01-92	Identification plate	
3		60700053	Stertil / Koni sticker	Medium
4		60700073	Capacity sticker 7000 kg	
5		1005-01-01-67	Service sticker	
6		60-700-006	CE sticker	

1.13 Hydraulic scheme

- C. Cylinder
- V. 2/2 valve
- S. Orifice
- O. Safety pressure valve
- F. Filter
- K. Non-return valve
- P. Pump
- M. Motor
- T. Tank
- R. Hose burst check valve
- N. Needle valve
- M1. Measuring point

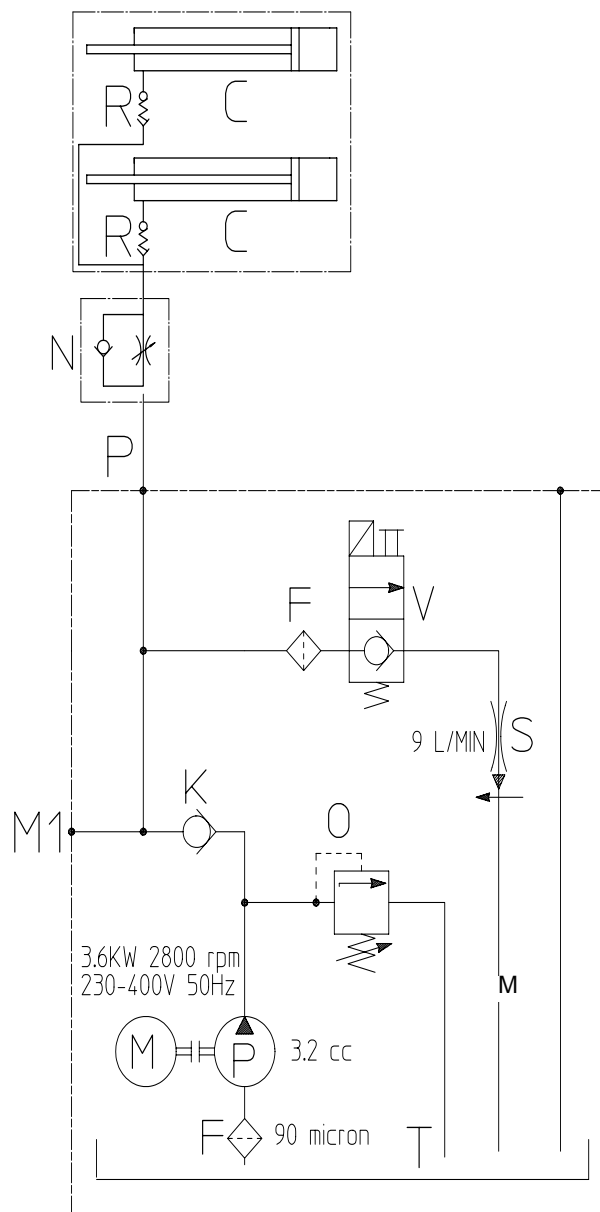


Figure 1.13 Hydraulic scheme

1.14 Lighting (option)

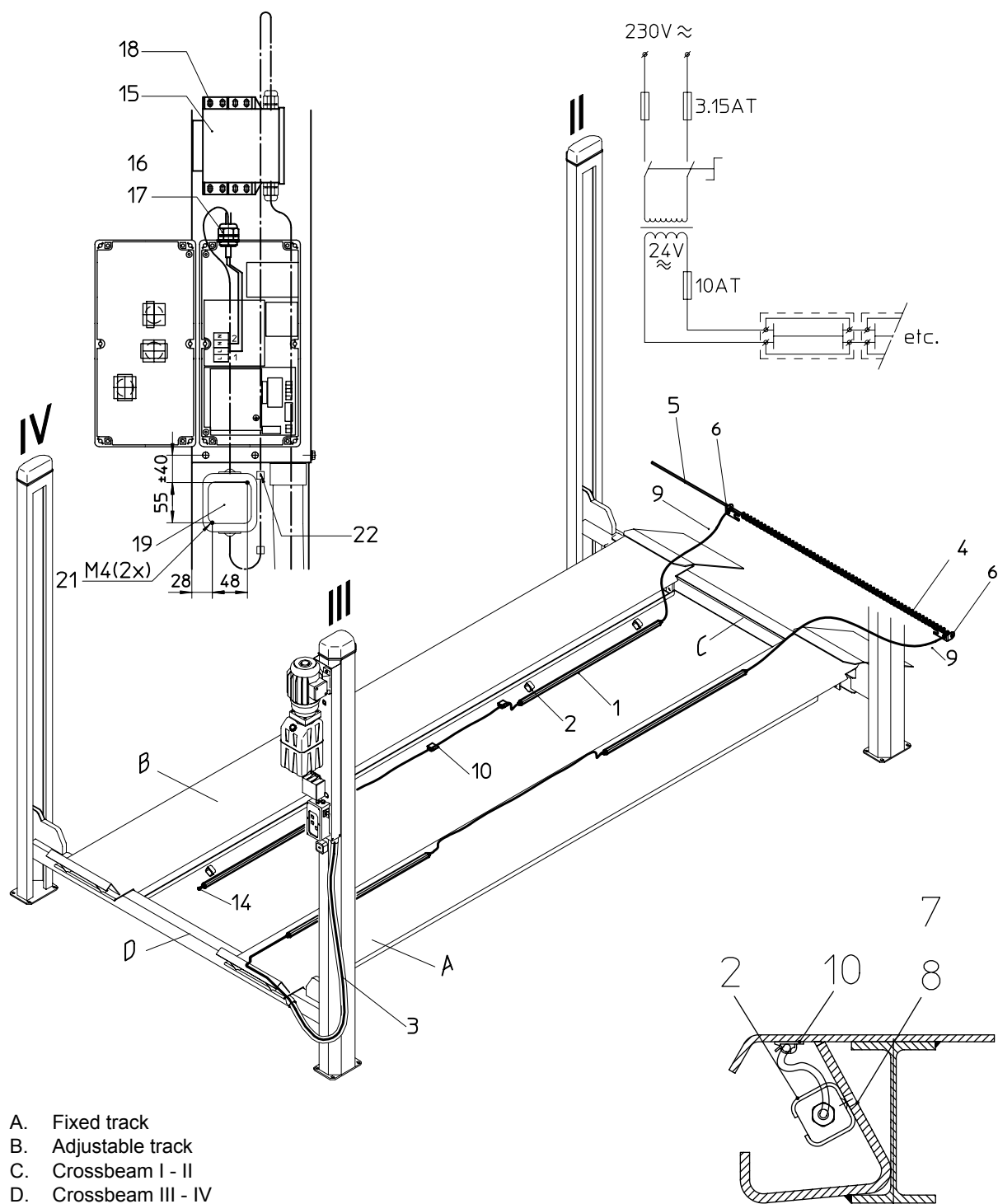


Figure 1.14 Lighting

Table 1.12 Lighting

Index	No.	Reference	Description	Remarks
		43509250	Track light set 4x24V tubes	
		44509250	Track light set 6x24V tubes	Only ST 4070-V and ST 4070-L/V
1	4/6	69700050	Tube light assembly	24V
2	8/12	69700051	Bracket	
3	1	43509253	Cable 2x1,5 mm ² L=8500	
4	1	43509251	Coiled cable 1000-350-1000 PUR-TPE	
5	1	43509255	Guide post	
6	1	43509252	Bracket	
7	8/12	65052910	Insert nut M5	
8	8/12	43509010	Screw M5x16 4.8 DIN963 GV	
9	2	66201106	Cable clamp	
10	12/18	66201026	Cable clamp	
11	1	65050904	Nut M10 DIN439B GV	
12	1	65003449	Screw M12x40 8.8 DIN963 GV	
13	1	1037.07.50.12	Nut M12 04 DIN439B	
14	1	69700053	Plastic bolt M16x1,5	
15	1	69500018	Transformer prim.230V sec.24V-10A	
16	1	69062005	Cable gland M20x1,5	
17	1	69062033	Lock nut M20x1,5	
18	3	1039.45.04.05	Screw 5,5x16 DIN7981 GV	
19	1	69110001	Switch 2-P WD	
21	2	65030220	Screw M4x12 4.8 DIN84 GV	
22	5	1038.13.50.01	Self adhesive catch	
23	4/6	1002.12.01.96	Fluorescent tube 36 Watt	

1.15 Dimensions

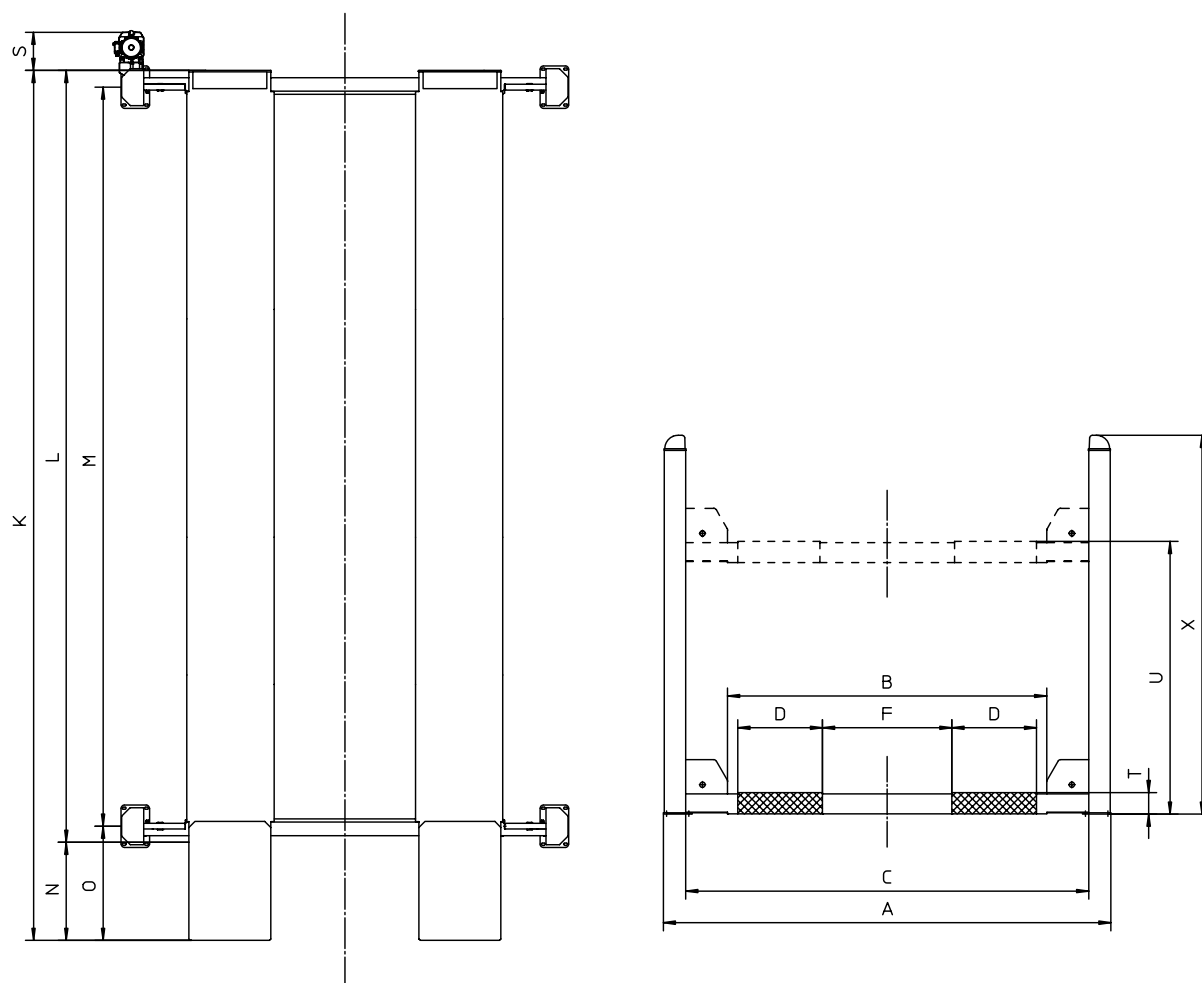


Figure 1.15 Dimensions

Table 1.13 Dimensions

Model	A	B	C	D	F-max	K	L	M	N	O	S	T	U	X
ST4055	3330	2375	3000	630	1100	5880	5150	4900	730	840	300	160	2030	2820
ST4055-L	3330	2375	3000	630	1100	6480	5750	5500	730	840	300	160	2030	2820
ST4055-V	3630	2675	3300	630	1250	5880	5150	4900	730	840	300	160	2030	2820
ST4055-LV	3630	2675	3300	630	1250	6480	5750	5500	730	840	300	160	2030	2820
ST4070	3330	2375	3000	630	1100	6480	5750	5500	730	840	300	160	2030	2820
ST4070-L	3330	2375	3000	630	1100	6980	6250	6000	730	840	300	160	2030	2820
ST4070-V	3630	2675	3300	630	1250	6480	5750	5500	730	840	300	160	2030	2820
ST4070-LV	3630	2675	3300	630	1250	6980	6250	6000	730	840	300	160	2030	2820
ST4070-S	3330	2375	3000	630	1100	5880	5150	4900	730	840	300	160	2030	2820
ST4070-SV	3630	2675	3300	630	1250	5880	5150	4900	730	840	300	160	2030	2820

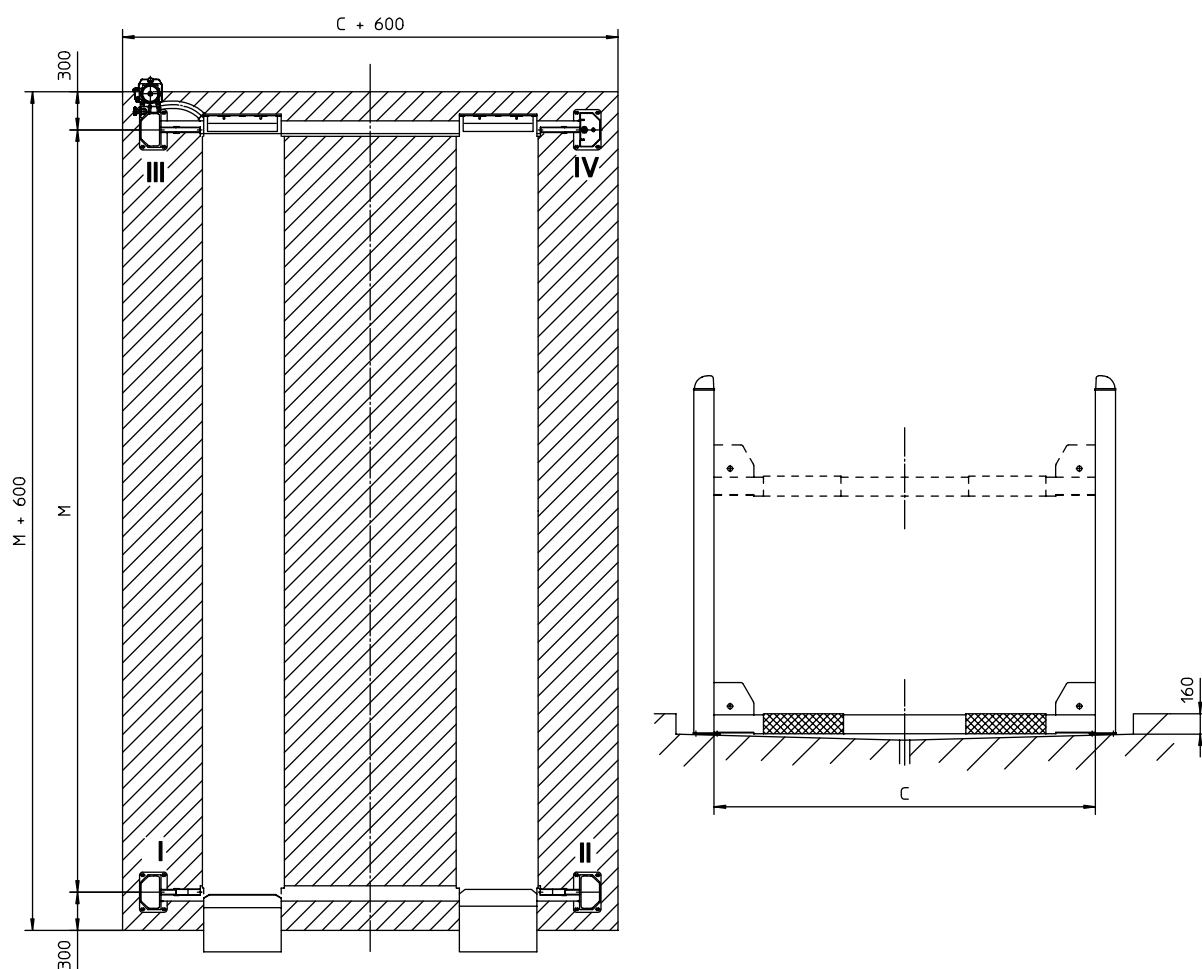


Figure 1.16 Dimensions pit

