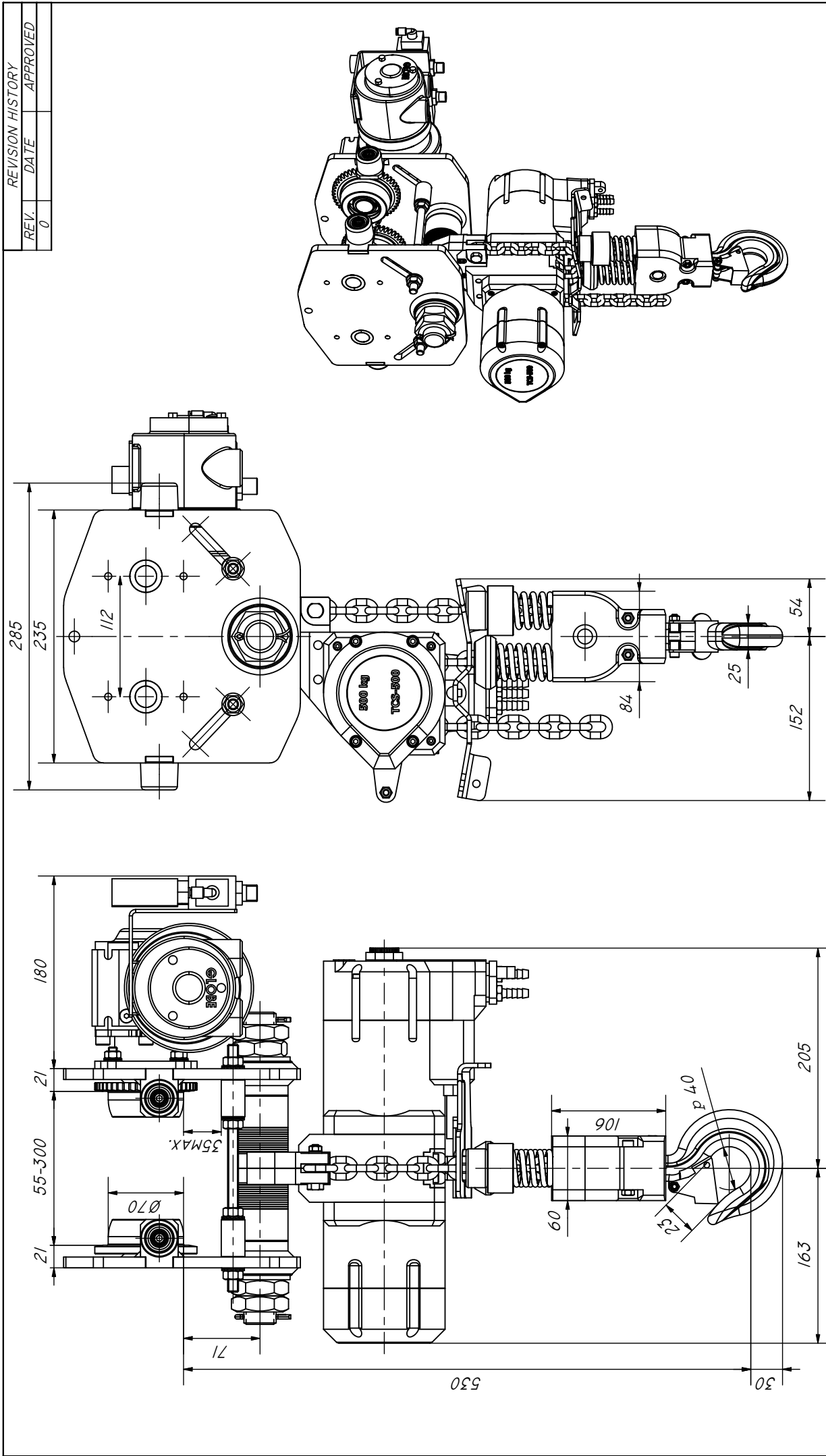
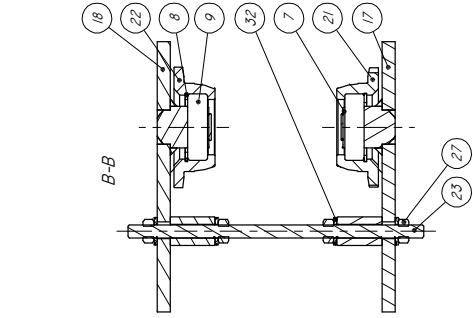
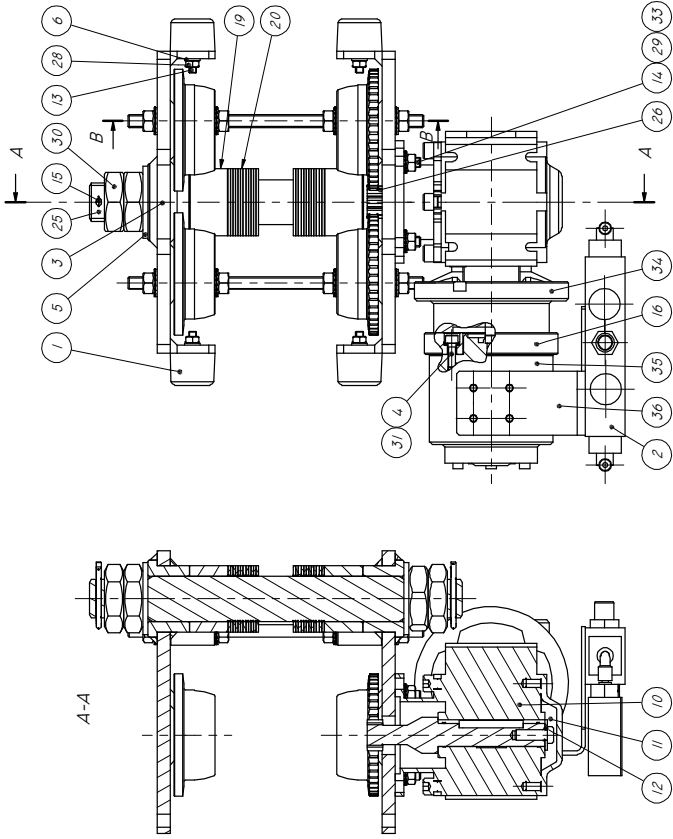
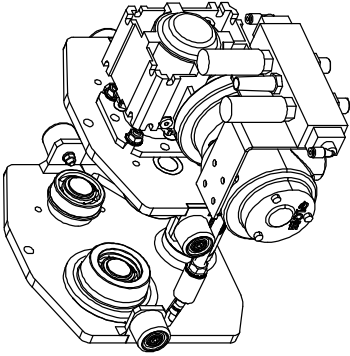
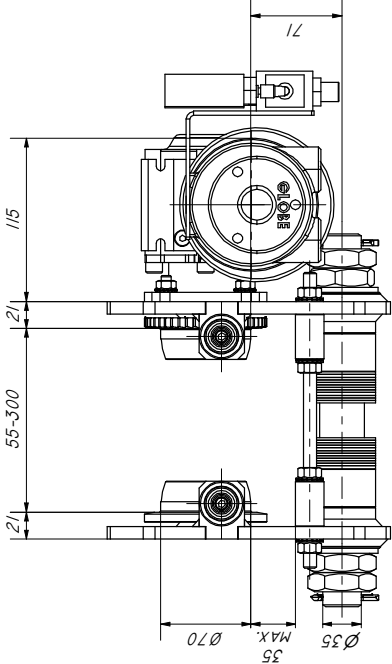
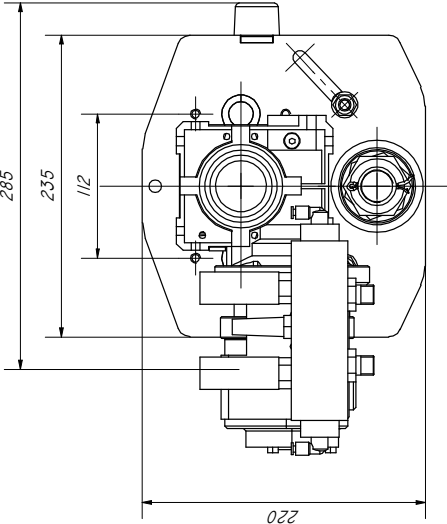


REVISION HISTORY		
REV.	DATE	APPROVED
0		



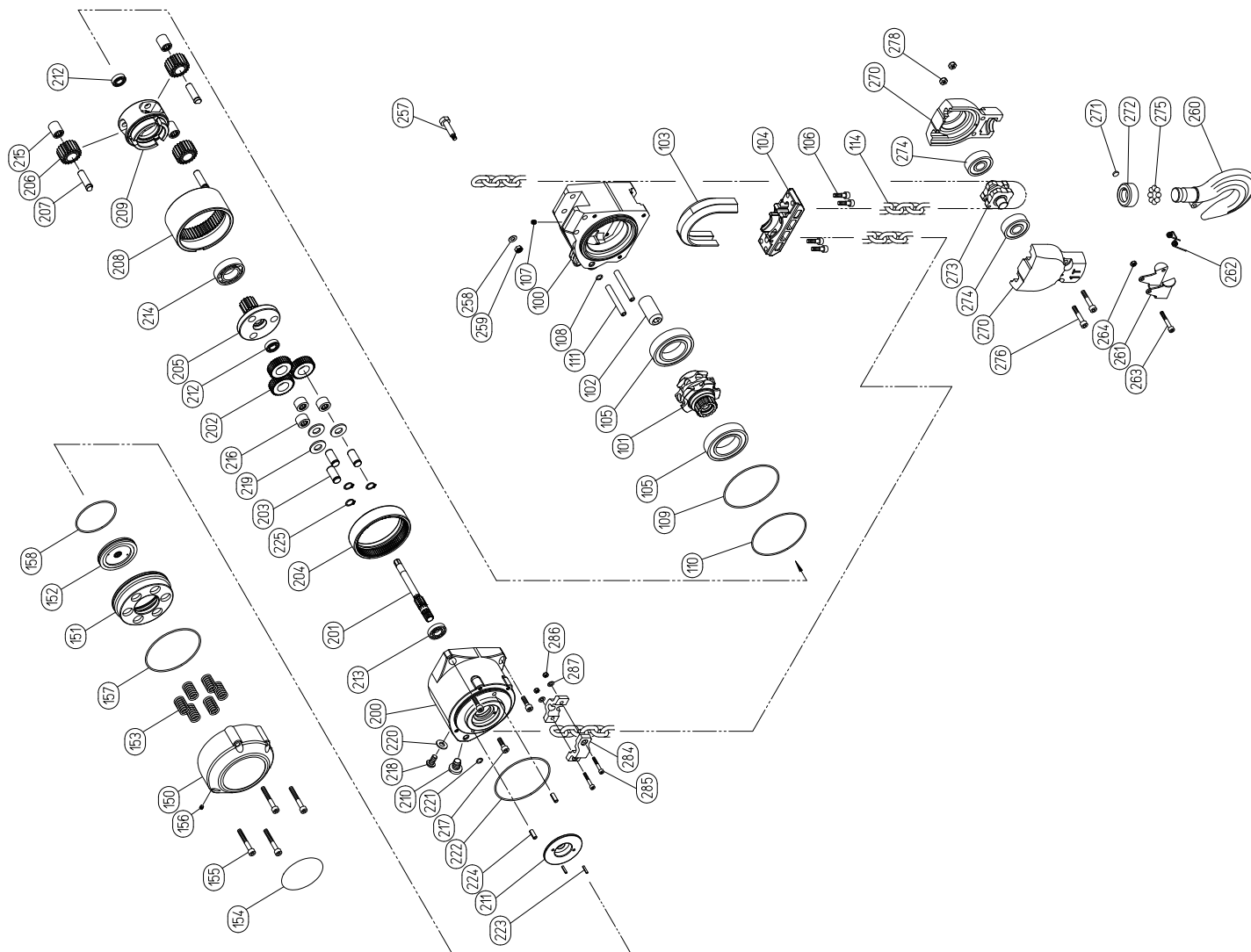
SCALE		MATERIAL		TITLE OF PART		PART NUMBER	
NOT TO SCALE				0,98T HOIST AND TROLLEY		DRG 1500-24	
DESIGNED BY		SURNAME		DATE		1 / 1	
DRAWN BY		T. MIKOLAJEWSKI		25/06/2014		UNLESS OTHERWISE SPECIFIED	
CHECKED BY		T. MIKOLAJEWSKI		29/01/2018		ALL DIMENSIONS ARE IN MILLIMETERS	
APPROVED BY		B. AITKEN				TOLERANCES	
SHEET SIZE		TITLE OF PROJECT		REVISION		LINEAR	
A4		TCS-980-AT2S		0		UP TO 5 b 0,05	
				REPLACES DRAWING		OVER 50 UP TO 120 b 0,1	
						OVER 120 UP TO 500 b 0,2	
						OVER 500 UP TO 1000 b 0,5	
						OVER 1000 b 0,5	
						ANGULAR b 0,5°	
						SURFACE ROUGHNESS	
						IF IN DOUBT ASK	

REVISION HISTORY		
REV.	DATE	APPROVED
0	17/04/2018	W. HARRISON



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	4		BUFFER
2	1		PILOT VALVE AND SILENCERS
3	2		SHOULDER WASHERS
4	3	ANSI B18.3 - 1/4 - 20 UNC - 3/4 HS HCS	HEXAGON SOCKET HEAD CAP SCREW
5	4	DIN 128 - A 31	WASHER
6	4	DIN 128 - A 6.4	WASHER
7	4	DIN 4.71 - 25 X 1.2	SPRING RETAINING RING
8	4	DIN 4.72 - 52 X 1.2	SPRING RETAINING RING
9	4	DIN 625 SNF - SKF 6205-2Z	DEEP GROOVE BALL BEARINGS SINGLE ROW WITH TWO Z SHIELDS
10	1	DIN 6885 - A 6 X 8 X 50	SHOULDER WASHERS
11	1	DIN 7084 - M8 X 25	CYLINDER HEAD CAP SCREW
12	1	DIN 912 - M8 X 35	WASHER
13	4	DIN 912 - M8 X 35	CYLINDER HEAD CAP SCREW
14	4	DIN 914 - M8 X 30	HEXAGON SOCKET SET SCREW
15	2	DIN EN ISO 1234 - 4X4.0	SPLIT PIN
16	1	DRG 1225-02	TRANSITION PIECE (FOR NORD GEARBOX)
17	1	DRG 1500-03	MOTOR PLATE
18	1	DRG 1500-09	SPACER
19	DEPENDS ON THE FLANGE	DRG 1500-10	SPACER WASHER
20	DEPENDS ON THE FLANGE	DRG 1500-11	GEAR WHEEL
21	2	DRG 1500-12	PLAIN WHEEL
22	2	DRG 1500-13	TIE ROD
23	2	DRG 1500-14	ANTI TIP ROLLER
24	4	DRG 1500-15 OR DRG 1500-16 OR DRG 1500-17	LOAD BAR (RANGE I - FLANGE 55-140MM)
25	1	DRG 1500-18	LOAD BAR (RANGE II - FLANGE 140-220MM)
26	1	DRG 1500-19	LOAD BAR (RANGE III - FLANGE 220-300MM)
27	8	ISO 4032 - M10	HEX NUT
28	4	ISO 4032 - M8	HEX NUT
29	4	ISO 4032 - M8	HEX NUT
30	4	ISO 4035 - M30	HEX NUT
31	3	NL-1-4IN	HEX NUT
32	4	NL-10SP	HEX NUT
33	4	NL-8SP	HEX NUT
34	1	SK 1514-0FH-IEC3-2G	1/4" NORDLOCK WASHER LARGE DIAMETER GLUED PAIR
35	1	VAL-1	M10 NORDLOCK WASHER LARGE DIAMETER GLUED PAIR
36	1	VAL-2	GEARBOX (RATIO 15:1)
37	1	VAL-3	AIR MOTOR GLOBE
38	1	VAL-4	VALVE BRACKET

SCALE		TITLE OF PART		PART NUMBER	
1:4		2TE AIR TROLLEY (AT2S)		DRG 15000-01 1 / 1	
DESIGNED BY		DATE		UNLESS OTHERWISE SPECIFIED ALL DIMENSIONS ARE IN MILLIMETERS	
DRAWN BY		29/01/2018		TO DIMENSIONS	
CHECKED BY		REVISION		LINEAR	
APPROVED BY		0		UP TO 5 ± 0.05 5 TO 30 ± 0.1 30 TO 100 ± 0.15 100 TO 300 ± 0.2 OVER 300 ± 0.3	
SHEET SIZE		REPLACES DRAWING		ANGULAR ±0.5°	
A3		PROFILE NUMBER		SURFACE FINISHES IF IN DOUBT ASK	
		TITLE OF PROJECT			
		2TE HOIST AND TROLLEY			
					



Brake Gears Suspension Body - TCS-980-AT2S-LF
17.09.15

Fig. No.	Part Number	Part Name	Parts Per Hoist
100	426230A00	CENTRE HOUSING	1
101	426230A50	LOAD SHEAVE	1
102	426230200	COUPLING	1
103	426230350	CHAIN GUIDE	1
104	426230360	CHAIN SEPARATOR	1
105	130106009	BEARING 6008ZZ	2
106	131706020	HEX SOCKET HEAD CAP SCREW M6X20	4
107	132106006	HEX SOCKET SET SCREW M6X6	1
108	131103006	O-RING S-8	1
109	131103052	O-RING S-90	1
110	131117043	O-RING AS568-043	1
111	130608060	SPRING PIN 8X60	2
114	AHC63/80	CHAIN 6.3mm	HOL
150	426230410	BRAKE COVER	1
151	426230400	BRAKE PISTON	1
152	426230430	BRAKE DISC	1
153	130802213	DISC SPRING	6
154	137301065	NAME PLATE	1
155	131706045	HEX SOCKET HEAD CAP SCREW M6X45	4
156	132105005	HEX SOCKET SET SCREW M5X5	1
157	131103052	O-RING S-90	1
158	131103045	O-RING S-65	1
200	426230310	GEAR CASE	1
201	426230A60	FIRST PINION	1
202	426230A70	FIRST STAR GEAR	3
203	426230A80	FIRST PIN	3
204	426230E10	FIRST RING GEAR	1
205	426230E20	SECOND PINION	1
206	426230E30	SECOND STAR GEAR	3
207	426230E40	SECOND PIN	3
208	426230E50	SECOND RING GEAR	1
209	426230240	CAGE	1
210	426230890	LOCK SCREW	1
211	426230900	BRAKE PLATE	1
212	130113001	BEARING 6009	2
213	130120004	BEARING EE-4	1
214	130104006	BEARING 6005	1
215	130131020	NEEDLE BEARING TA1020Z	3
216	130131212	NEEDLE BEARING TA1212	3
217	131706020	HEX SOCKET HEAD CAP SCREW M6X20	3
218	131908015	HEX SOCKET BUTTON SCREW M8X15	1
219	131307012	WASHER M12	3
220	131307008	WASHER M8	1
221	131103006	O-RING S-8	1
222	131103052	O-RING S-90	1
223	130606015	SPRING PIN 3X14	2
224	130606015	SPRING PIN 6X15	2
225	130302012	RETAINING RING S-12	3

Fig. No.	Part Number	Part Name	Parts Per Hoist
257	426224580	HOOK JOINT BOLT	1
258	131307006	WASHER M6	1
259	134501006	U-NUT M6	1
260	426221S20	SWIVEL HOOK	1
261	426221S30	HOOK SAFETY CLAW	1
262	130802258	HOOK SPRING	1
263	131705035	HEX SOCKET HEAD CAP SCREW M5X35	1
264	134501005	U-NUT M5	1
270	426251590	HOOK CASE	1
271	420846PY0	SWIVEL HOOK PLUG	1
272	420846PW0	SWIVEL HOOK OUTER RACE	1
273	426251F70	FREE CHAIN WHEEL	1
274	1301120036	BEARING 6302ZZ	2
275	130502020	STEEL BALL 5/16	8
276	131706035	HEX SOCKET HEAD CAP SCREW M6X35	2
278	134501006	U-NUT M6	2
284	420620JF0	CHAIN DOWN STOPPER	2
285	131705022	HEX SOCKET HEAD CAP SCREW M5X22	2
286	134401005	HEX NUT M5	2
287	131301005	SPRING WASHER M5	2

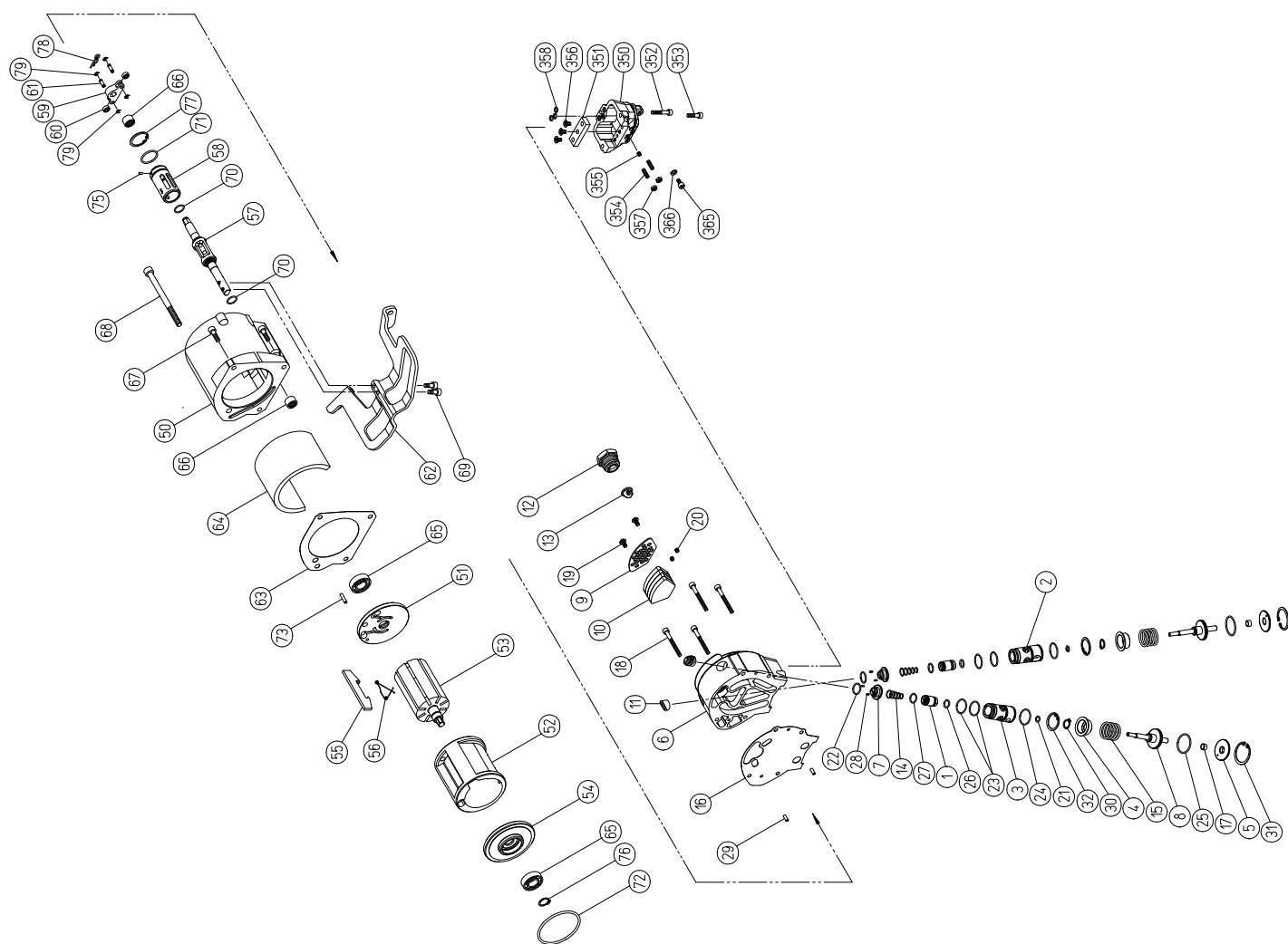
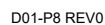


Fig. No.	Part Number	Part Name	Parts Per Hoist
001	420215VB0	THROTTLE VALVE	2
002	426320E90	VALVE BUSHING (U)	1
003	426230F00	VALVE BUSHING (D)	1
004	426230C70	SPRING SEAT	2
005	426230A20	VALVE CAP	2
006	426230061	VALVE BODY	1
007	426230A30	BUSH CAP	2
008	426230C60	PISTON	2
009	426230810	EXHAUST PLATE	1
010	137402023	SILENCER (S)	4
011	426230A10	ADJUST CAP	2
012	134703070	INLET BUSHING	1
013	136803032	NET SCREEN	1
014	130802221	VALVE SPRING	2
015	130802224	SPRING 26X20X2.6	2
016	136102165	VALVE GASKET	1
017	130219705	DU BUSH DUB0705	2
018	131705050	HEX SOCKET HEAD CAP SCREW M5X50	4
019	131905010	HEX SOCKET BUTTON SCREW M5X10	2
020	132105005	HEX SOCKET SET SCREW M5X5	2
021	131103005	O-RING S-7	2
022	131103013	O-RING S-15	2
023	131103016	O-RING S-20	4
024	131103017	O-RING S-22	2
025	131117023	O-RING AS568-023	2
026	131118012	O-RING AS568-012 (HS90)	2
027	131103011	O-RING S-12.5	2
028	130602004	SPRING PIN 2X4	4
029	130604010	SPRING PIN 4X10	2
030	130301032	RETAINING RING S-12	2
031	130301032	RETAINING RING H-32	2
032	130301025	RETAINING RING H-25	2
050	426230790	MOTOR CASE	1
051	426230180	REAR PLATE	1
052	426230160	CYLINDER	1
053	426230150	ROTOR	1
054	426230170	FRONT PLATE	1
055	137102032	VANE	8
056	130802235	LIFT SPRING	8
057	426230460	LIMIT SHAFT	1
058	426230A40	LIMIT SHAFT BUSHING	1
059	426230140	LIMIT LEVER	1
060	130128104	BEARING MR104ZZ	2
061	426230120	ROLLER SHAFT	2
062	426251110	CHAIN LEVER	1
063	136102166	MOTOR GASKET	1
064	137402024	SILENCER (M)	1
065	130104003	BEARING 6002	2

Fig. No.	Part Number	Part Name	Parts Per Hoist
066	130151210	NEEDLE BEARING TLA1210	2
067	131706020	HEX SOCKET HEAD CAP SCREW M6X20	3
068	131708110	HEX SOCKET HEAD CAP SCREW M8X110	1
069	131706014	HEX SOCKET HEAD CAP SCREW M6X14	2
070	131103012	O-RING S-14	2
071	131103019	O-RING S-24	1
072	131102009	O-RING G-65	1
073	130604016	SPRING PIN 4X16	1
075	130603005	SPRING PIN 3X5	1
076	130302015	RETAINING RING S-15	1
077	130301028	RETAINING RING H-28	1
078	130790008	SNAP PIN 8	1
079	130303003	RETAINING RING E-3	4
350	426230470	UNDER COVER	1
351	137402033	PILOT SILENCER	1
352	131705030	HEX SOCKET HEAD CAP SCREW M5X30	1
353	131705020	HEX SOCKET HEAD CAP SCREW M5X20	2
354	132105016	HEX SOCKET SET SCREW M5X16	2
355	132105005	HEX SOCKET SET SCREW M5X5	1
356	132905206	CROSS HEAD FLAT MACHINE SCREW M5X6	3
357	134403205	HEX NUT M5	2
358	131103004	O-RING S-6	3
365	131705010	HEX SOCKET HEAD CAP SCREW M5X10	1
366	131307005	WASHER M5	1

Lube Free Kit			
Fig. No.	Part Number	Part Name	Parts Per Hoist
055	KITTCS/LF	VANE	8
056	KITTCS/LF	LIFT SPRING	8
LF1	KITTCS/LF	EXHAUST PLUG	1
LF2	KITTCS/LF	EXHAUST GAUZE	1



Pendant - VRD-4R

Fig. No.	Part Number	Part Name	Parts Per Hoist
A	420218VB0	THROTTLE VALVE	4
B	420235VR0	VALVE BODY	1
C	420218VF0	BUSHING	4
D	420235X40	BUTTON	4
E	130802036	SPRING 6X18X0.32	4
F	420235W50	FRONT CASE	1
G	420235W60	REAR CASE	1
H	136608256	BOOT	1
J	420235VM0	ADJUST SCREW	1
K	131705310	HEX SOCKET HEAD CAP SCREW M5X10	1
L	132404114	PHILLIPS HEAD MACHINE SCREW M5X14	4
M	132904221	SELF TAPPING SCREW 4X20	6
N	132105305	HEX SOCKET HEAD CAP SCREW M5X5	4
P	131309206	WASHER M6	1
Q	130301912	RETAINING RING H-12	1
R	131109001	O-RING S-3 (HS90°)	4
S	131103005	O-RING S-7	1
T	131103008	O-RING S-10	4
U	131103009	O-RING S-11.2	4
V	420224V61	EMERGENCY VALVE	1
W	420228V50	EMERGENCY BUSHING	1
X	136690503	EMERGENCY SWITCH	1
Y	420228W00	PUSH ROD	1
Z	131103002	O-RING S-4	2
AA	131103004	O-RING S-6	2
AB	131103008	O-RING S-10	1
AC	131103009	O-RING S-11.2	2
AD	130303204	RETAINING RING E-4	1
AE	131307105	WASHER M5	1
AF	P128	1/8 BSP COMPACT ELBOW C/W 60° CONE	4
AG	P071/1	1/8 BSP NIPPLE C/W 60° CONE	2
AH	P016/1	1/8 BSP TO 1/4 HOSETAIL SWIVEL	12
AJ	P002/1	1/4 HOSE FERRULE	12
AL		STRAINER WIRE	1
AK	1/4-HOSE	1/4 ANTI STATIC RUBBER HOSE	6