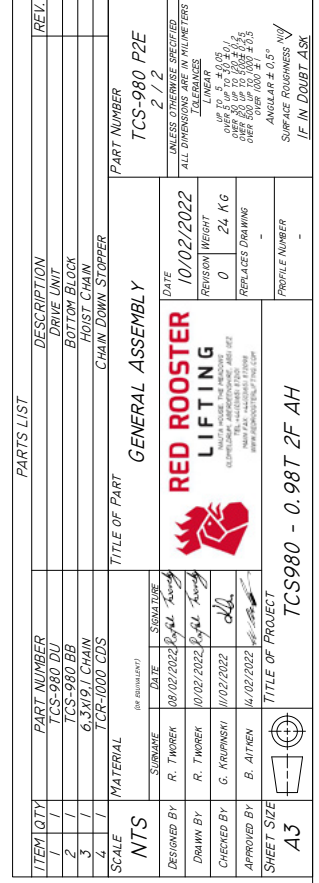
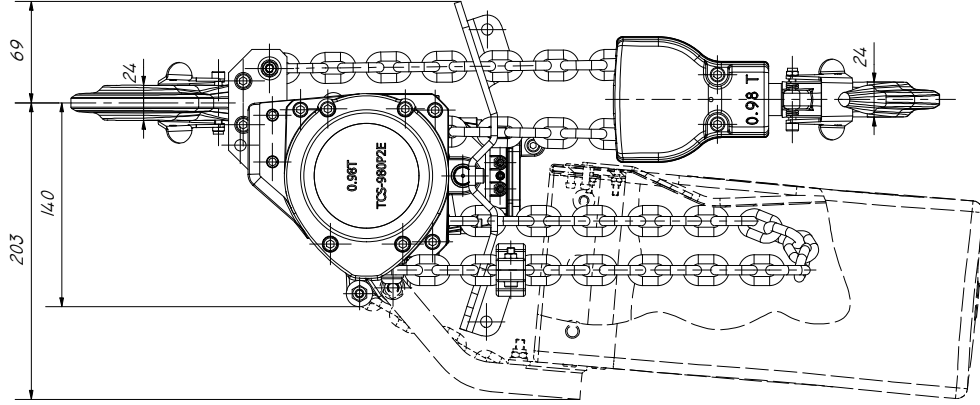
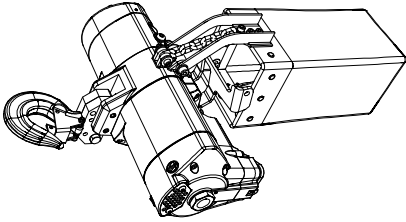
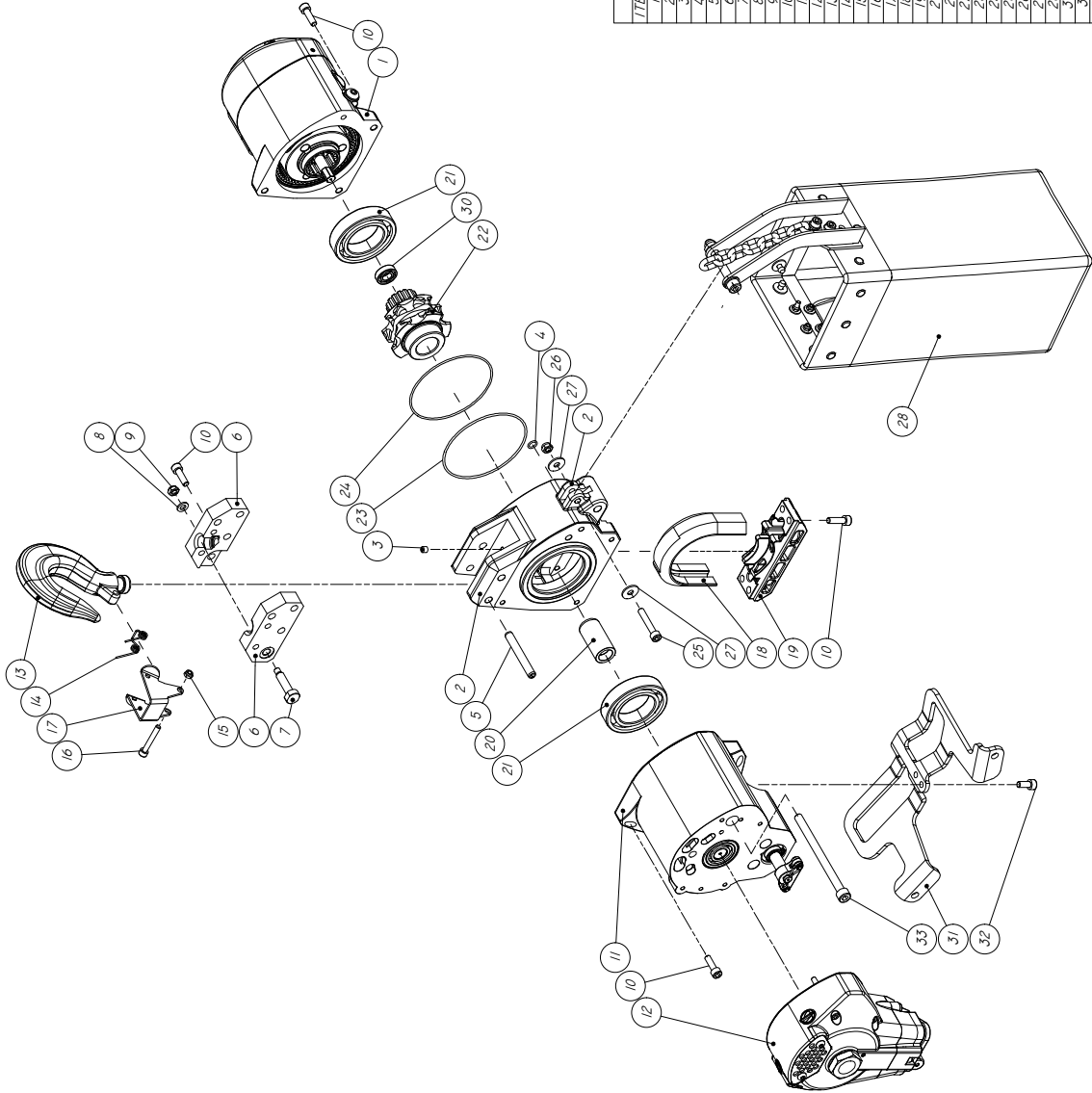


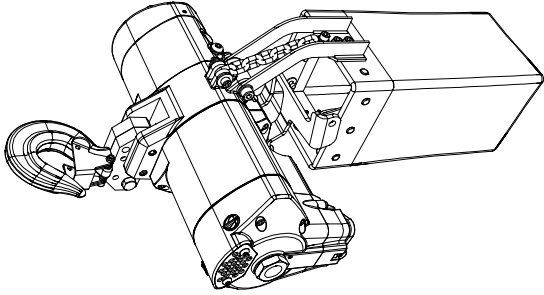
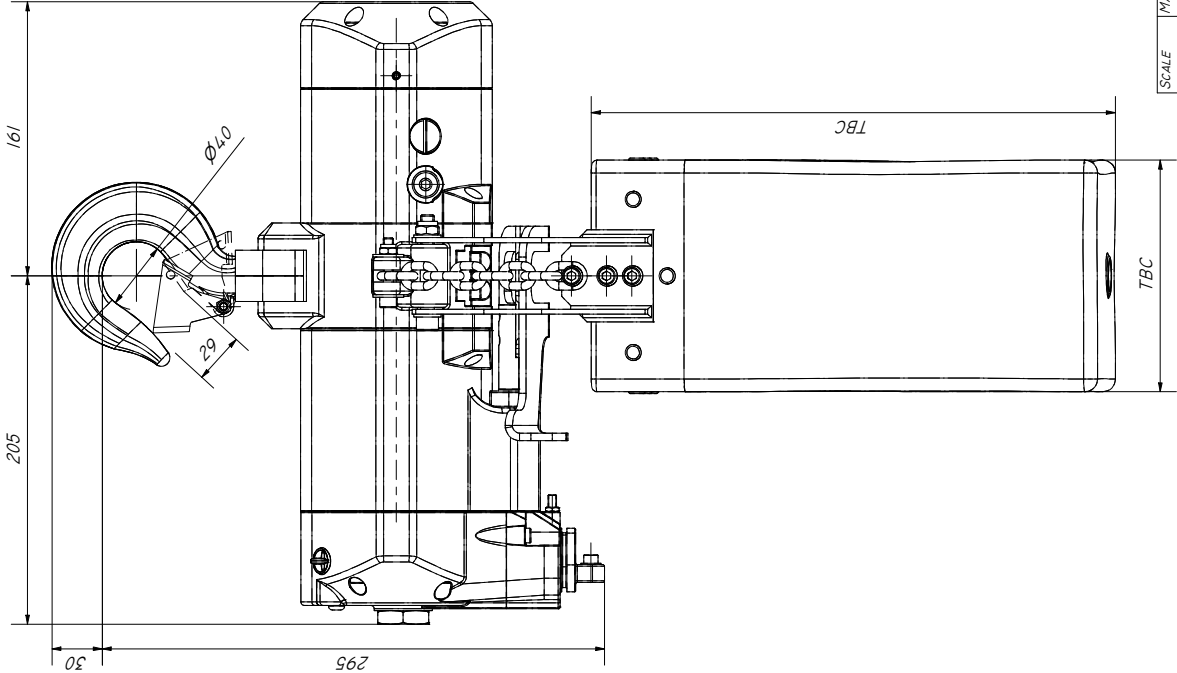
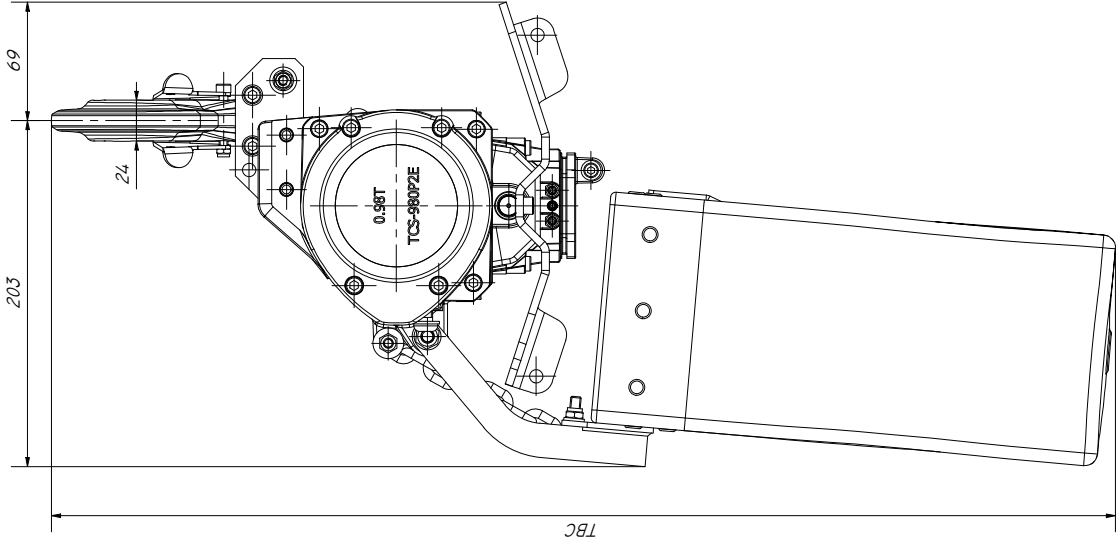


TCS-980 DU WITH TOP HOOK & CHAIN BAG



TCS-980 DU WITH TOP HOOK & CHAIN BAG - PARTS LIST				REV.
ITEM	QTY	PART NUMBER	DESCRIPTION	
1	1	TCS-980 GB	GEARBOX	
2	1	426230410	CENTRE HOUSING	
3	1	426230420	HEX SOCKET HEAD CAP SCREW M6X6	
4	1	13103006	U-NUT M6	
5	2	13003050	SPRING PIN 3X60	
6	2	426230450	HOOK AND PIECE	
7	2	426230460	HOOK JOINT BOLT	
8	1	13103006	WASHER M6	
9	1	13103006	U-NUT M6	
10	12	13106020	HEX SOCKET HEAD CAP SCREW M6X20	
11	1	TCS-980 AM	AIR MOTOR	
12	1	426230450	CONTROL VALVE	
13	1	426230450	UPPER HOOK	
14	1	130802258	HOOK SPRING	
15	1	134501005	U-NUT M5	
16	1	13105035	HEX SOCKET HEAD CAP SCREW M5X35	
17	1	426230350	HOOK SAFETY CLAW	
18	1	426230350	CHAIN GUIDE	
19	1	426230360	CHAIN SEPARATOR	
20	1	426230200	COUPLING	
21	2	13006009	BEARING 6008ZZ	
22	1	426230450	LOAD SHEAVE	
23	1	13103052	O-RING S-50	
24	1	13107043	O-RING ASS668-043	
25	1	ISO 4762 - M6 X 35	HEXAGON SOCKET HEAD CAP SCREW	
26	1	DIN 985 - M6	HEX NUT	
27	2	DIN 9021 - 6.4	WASHER	
28	1	CHAIN BAG	CHAIN BAG	0
29	1	13013001	BEARING Ø900	
30	1	426230110	CHAIN LEVER	
31	1	13106014	HEX SOCKET HEAD CAP SCREW M6X14	
32	2	13106014	HEX SOCKET HEAD CAP SCREW M6X10	
33	1	13106014	HEX SOCKET HEAD CAP SCREW M6X10	
SCALE				PART NUMBER
NTS				TCS-980 DU
				3 / 12
DESIGNED BY				DATE
R. THORER				07/02/2022
DRAWN BY				REVISION
R. THORER				0
CHECKED BY				WEIGHT
G. KRUPINSKI				20 KG
APPROVED BY				REPLACES DRAWING
B. AITKEN				-
SHEET SIZE				PROFILE NUMBER
A3				-
TITLE OF PROJECT				IF IN DOUBT ASK
TCS980 - 0.98T 2F 4H				
DRIVE UNIT				
RED ROOSTER LIFTING				
UNLESS OTHERWISE SPECIFIED				
ALL DIMENSIONS ARE IN MILLIMETERS				
TOLERANCES				
FRACTIONAL				
LINEAR				
UP TO 5 ± 0.05				
OVER 5 TO 10 ± 0.1				
OVER 10 TO 20 ± 0.15				
OVER 20 TO 50 ± 0.2				
OVER 50 TO 100 ± 0.3				
OVER 100 TO 200 ± 0.5				
ANGULAR ± 0.5°				
SURFACE ROUGHNESS				

TCS-980 DU WITH TOP HOOK & CHAIN BAG



SCALE	MATERIAL	TITLE OF PART	DRIVE UNIT	PART NUMBER
NTS	(IN EQUIVALENT)		RED ROOSTER LIFTING	TCS-980 DU
DESIGNED BY	SURNAME	DATE	DATE	4 / 12
R. TWOREK	R. TWOREK	07/02/2022	07/02/2022	
CHECKED BY	SURNAME	DATE	REVISION	
G. KRUPINSKI	G. KRUPINSKI	10/03/2022	0	
APPROVED BY	SURNAME	DATE	REPLACES DRAWING	
B. AITKEN	B. AITKEN	11/03/2022	-	
SHEET SIZE	TITLE OF PROJECT		PROFILE NUMBER	
A3	TCS980 - 0.98T 2F AH		-	

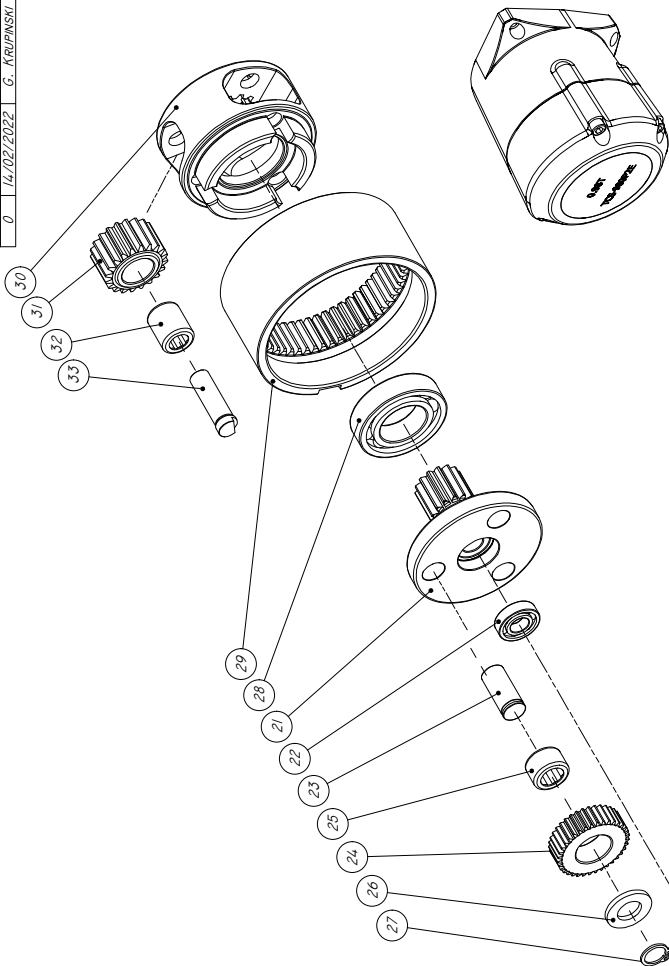
UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN MILLIMETERS

LINEAR
ANGULAR

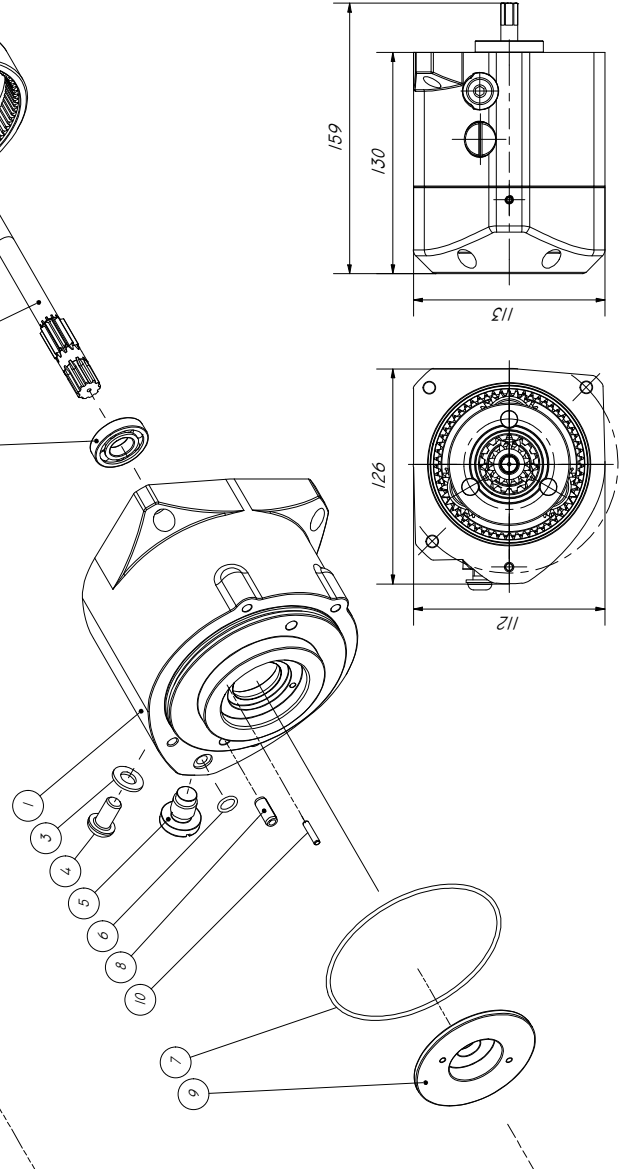
UP TO 5 ± 0.05
OVER 5 TO 30 ± 0.1
OVER 30 TO 100 ± 0.15
OVER 100 TO 300 ± 0.2
OVER 300 UP TO 500 ± 0.3

ANGULAR ± 0.5°
SURFACE ROUGHNESS $\sqrt{R}$
IF IN DOUBT ASK

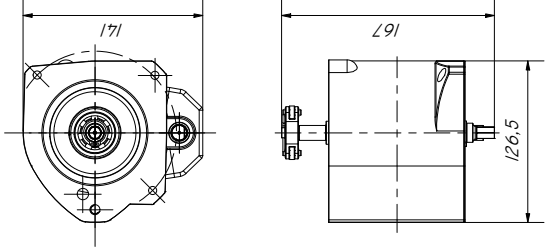
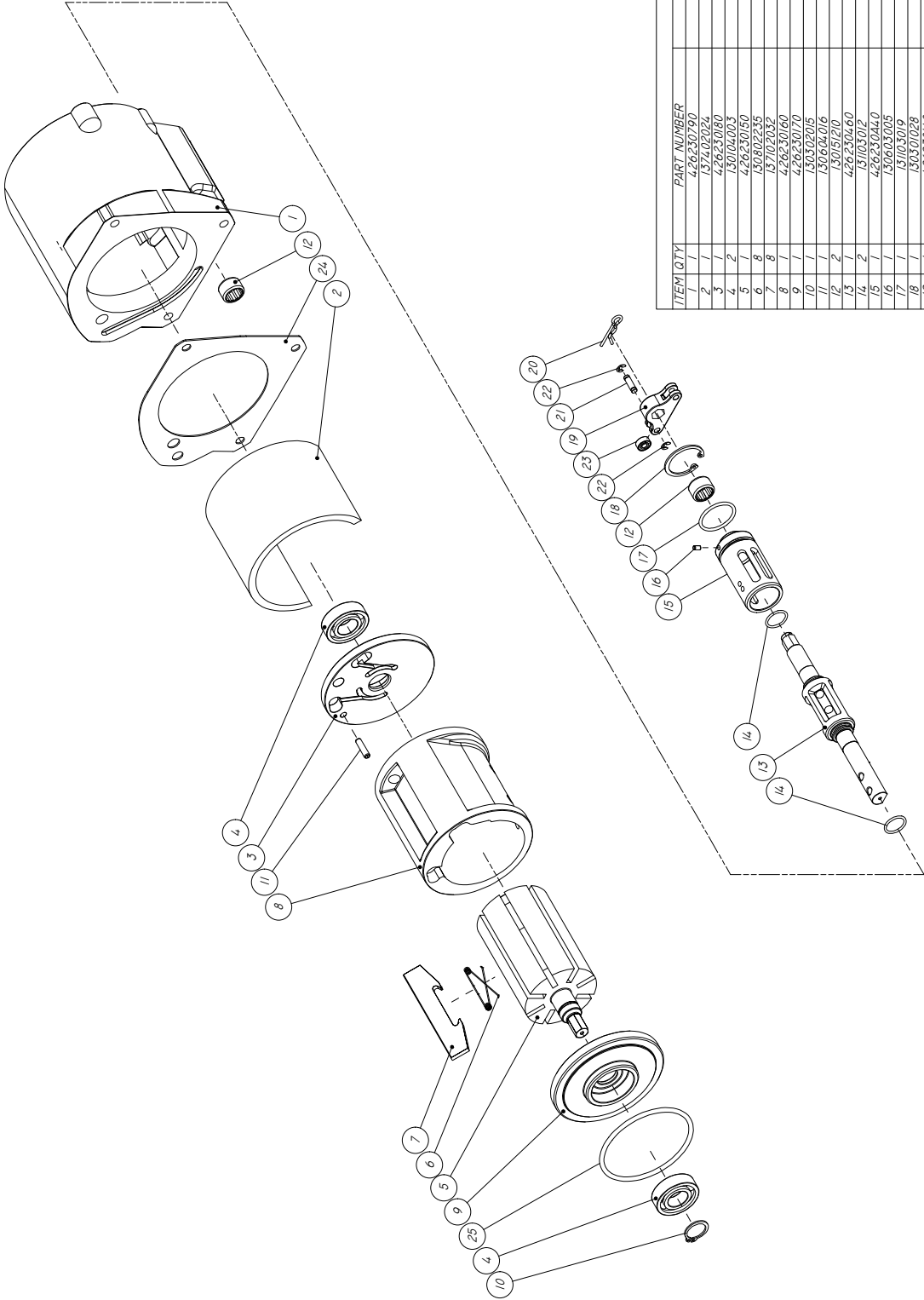
REVISION HISTORY		
REV.	DATE	APPROVED
0	14/02/2022	G. KRUPINSKI



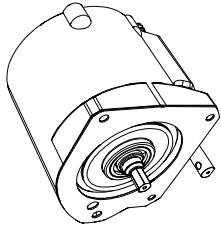
PARTS LIST			REV.
ITEM QTY	PART NUMBER	DESCRIPTION	
1	426230310	GEAR CASE	
2	13070004	BEARING EE-4	
3	13070005	WASHER P6	
4	13070015	HEX SOCKET HEAD CAP SCREW M8X15	
5	426230890	SCREW S-8	
6	13103006	O-RING S-8	
7	13103005	O-RING S-90	
8	130606015	SPRING PIN 6X15	
9	426230900	BRAKE PLATE	
10	130603014	SPRING PIN 3X14	
11	426230430	BRAKE DISC	
12	13103045	O-RING S-65	
13	426230400	BRAKE PISTON	
14	130802213	DISC SPRING	
15	426230410	BRAKE COVER	
16	132105005	HEX SOCKET SET SCREW M6X5	
17	131706045	HEX SOCKET HEAD CAP SCREW M6X15	
18	131700105	NAME PLATE	
19	426230460	FIRST PINION	
20	426230E10	FIRST RING GEAR	
21	426230E20	SECOND PINION	
22	130115001	BEARING 6900	
23	426230480	FIRST PIN	
24	426230470	FIRST STAR GEAR	
25	13031212	NEEDLE BEARING 1A1212	
26	13107012	WASHER M12	
27	13030202	RETAINING RING S-12	
28	130040016	BEARING 6005	
29	426230E50	SECOND RING GEAR	
30	426230E40	CAGE	
31	426230E30	SECOND STAR GEAR	
32	130040016	NEEDLE BEARING 1A1020Z	
33	426230E40	SECOND PIN	
SCALE			
NTS			
DESIGNED BY			
DRAWN BY			
CHECKED BY			
APPROVED BY			
SHEET SIZE			
A3			
TITLE OF PART			
GEARBOX			
PART NUMBER			
TSC-980 GB			
DATE			
20/01/2022			
REVISION			
0			
REPLACES DRAWING			
-			
PROFILE NUMBER			
-			
TITLE OF PROJECT			
TCS980 - 0.98T 2F 4H			
UNLESS OTHERWISE SPECIFIED			
ALL DIMENSIONS ARE IN MILLIMETERS			
TOLERANCES			
LINEAR			
UP TO 5 ± 0.05			
OVER 5 TO 10 ± 0.1			
OVER 10 TO 25 ± 0.15			
OVER 25 TO 50 ± 0.2			
OVER 50 TO 100 ± 0.3			
OVER 100 ± 0.5			
ANGULAR ± 0.5°			
SURFACE ROUGHNESS			
IF IN DOUBT ASK			



REVISION HISTORY		
REV.	DATE	APPROVED
0	14/02/2022	G. KRUPINSKI

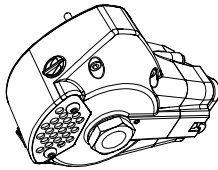
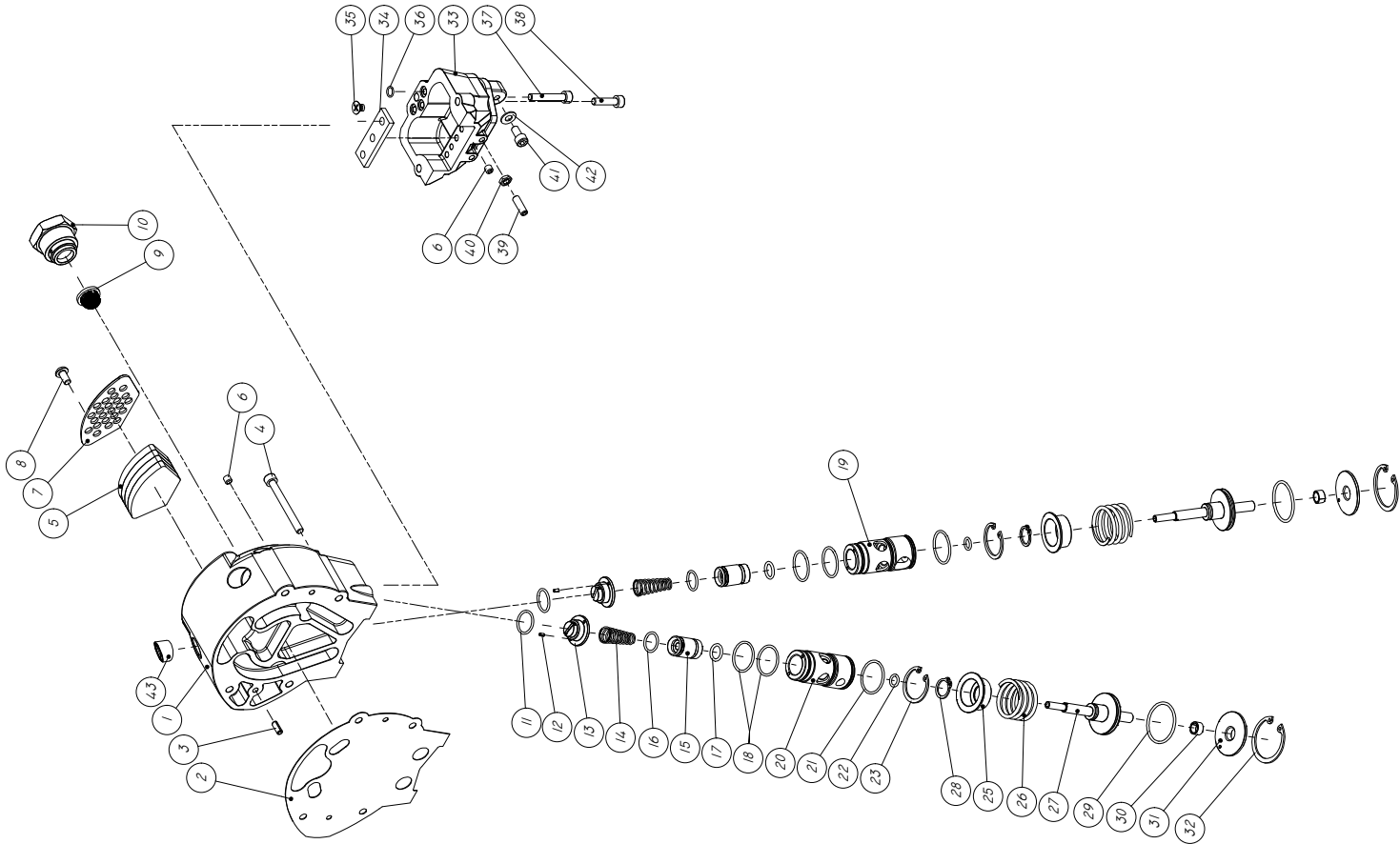
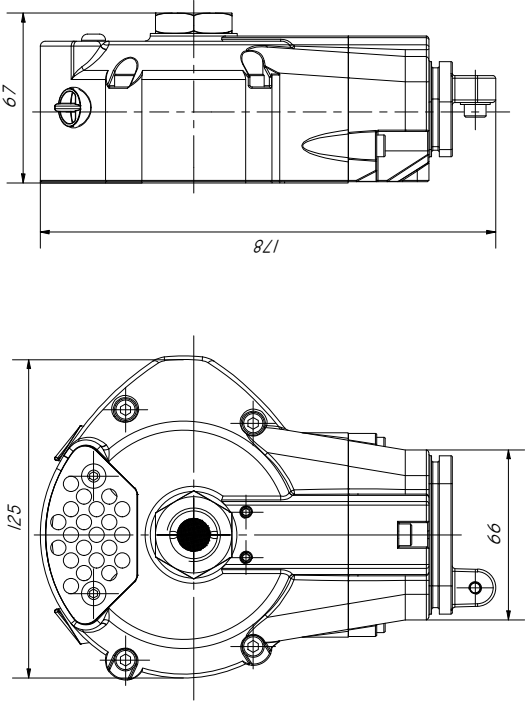


PARTS LIST			TITLE OF PART		
ITEM	QTY	PART NUMBER	DESCRIPTION	REV.	
1	1	426230790	MOTOR CASE		
2	1	137102024	SILENCER (M)		
3	1	426230180	BEAR PLATE		
4	2	130104003	BEARING 6002		
5	1	426230150	ROTOR		
6	8	130402235	LIFT SPRING		
7	8	137102032	VANE		
8	1	426230160	CYLINDER		
9	1	426230170	FRONT PLATE		
10	1	130302015	RETAINING RING S-15		
11	1	130604016	SPRING PIN 4x16		
12	2	130151210	NEEDLE BEARING TL1210		
13	1	426230460	LIMIT SHAFT		
14	2	131030102	O-RING S-14		
15	1	426230440	LIMIT SHAFT BUSHING		
16	1	130603005	SPRING PIN 3x5		
17	1	131030109	O-RING S-24		
18	1	130301028	RETAINING RING H-28		
19	1	426230140	LIMIT LEVER		
20	1	130790008	SNAP PIN 8		
21	2	426230120	ROLLER SHAFT		
22	4	130303003	RETAINING RING E-3		
23	2	130128104	BEARING 6104ZZ		
24	1	130151210	PIN 16x16		
25	1	131022019	O-RING G-65		
SCALE			PART NUMBER		
NTS			TCS-980 AM		
DESIGNED BY			AIR MOTOR		
DRAWN BY			1 / 1		
CHECKED BY			UNLESS OTHERWISE SPECIFIED		
APPROVED BY			ALL DIMENSIONS ARE IN MILLIMETERS		
SHEET SIZE			LINEAR		
A3			ANGULAR $\pm 0.5^\circ$		
			SURFACE FINISH $\sqrt{1.6}$		
			IF IN DOUBT ASK		



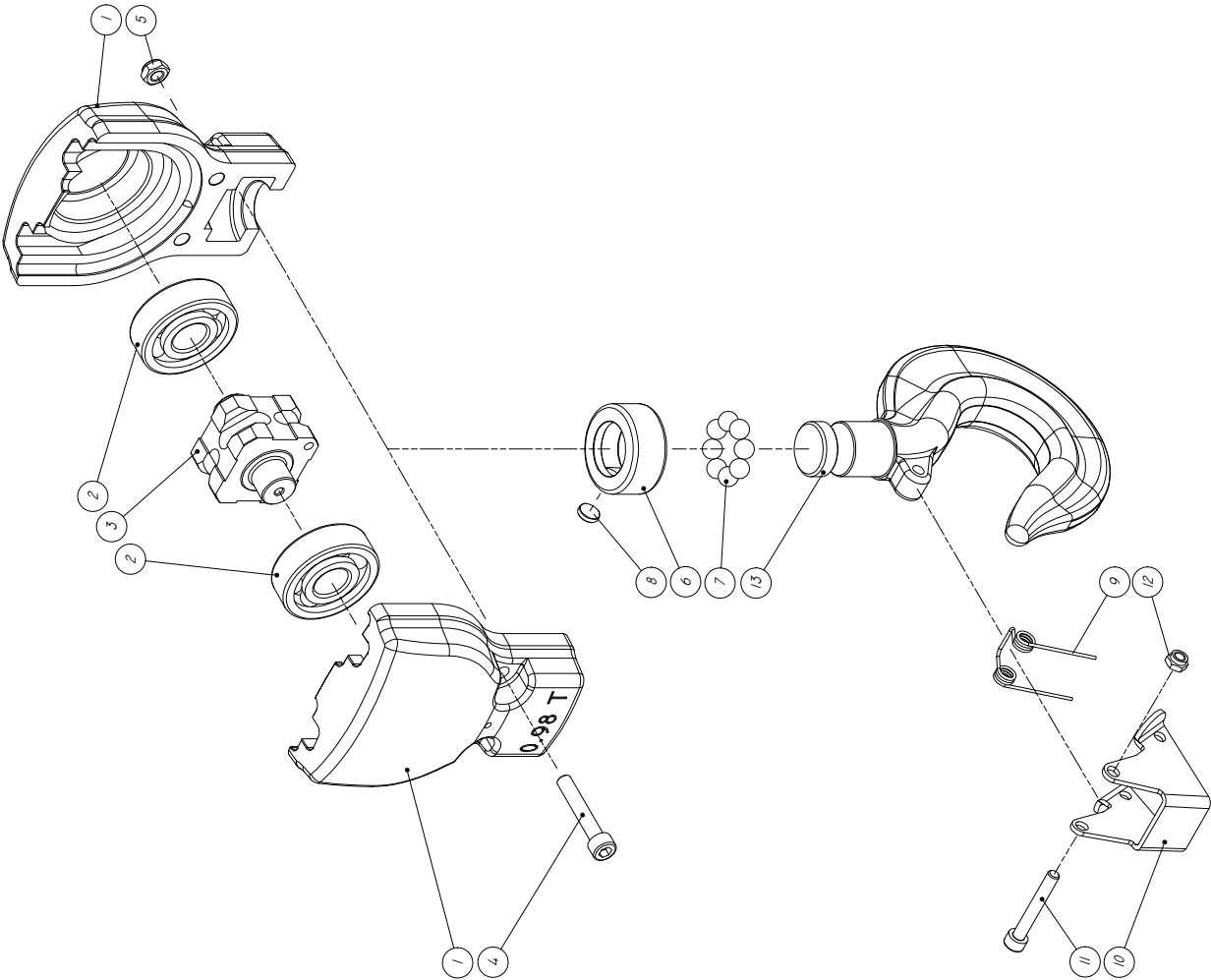
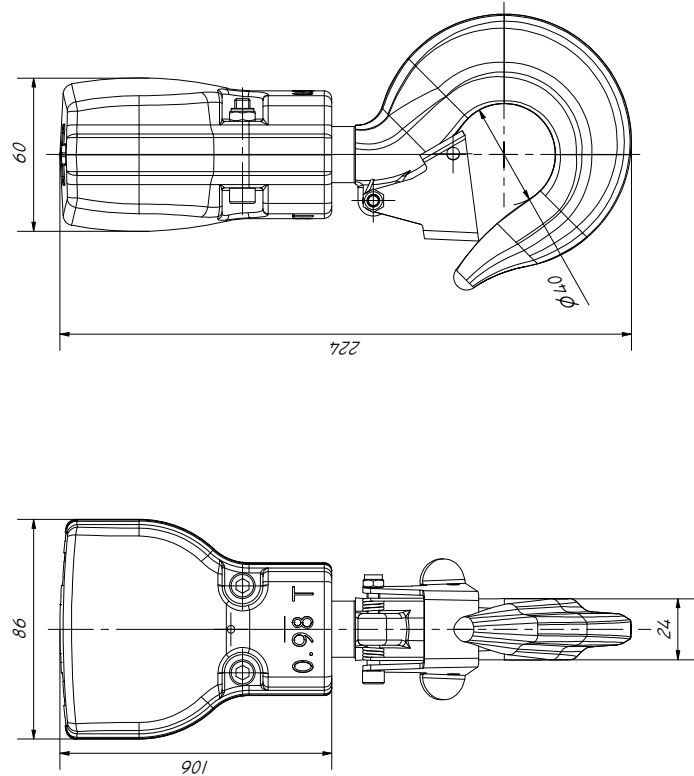
TCS980 - 0.98T 2F AH

REVISION HISTORY		
REV.	DATE	APPROVED
0	14/02/2022	G. KRUPINSKI

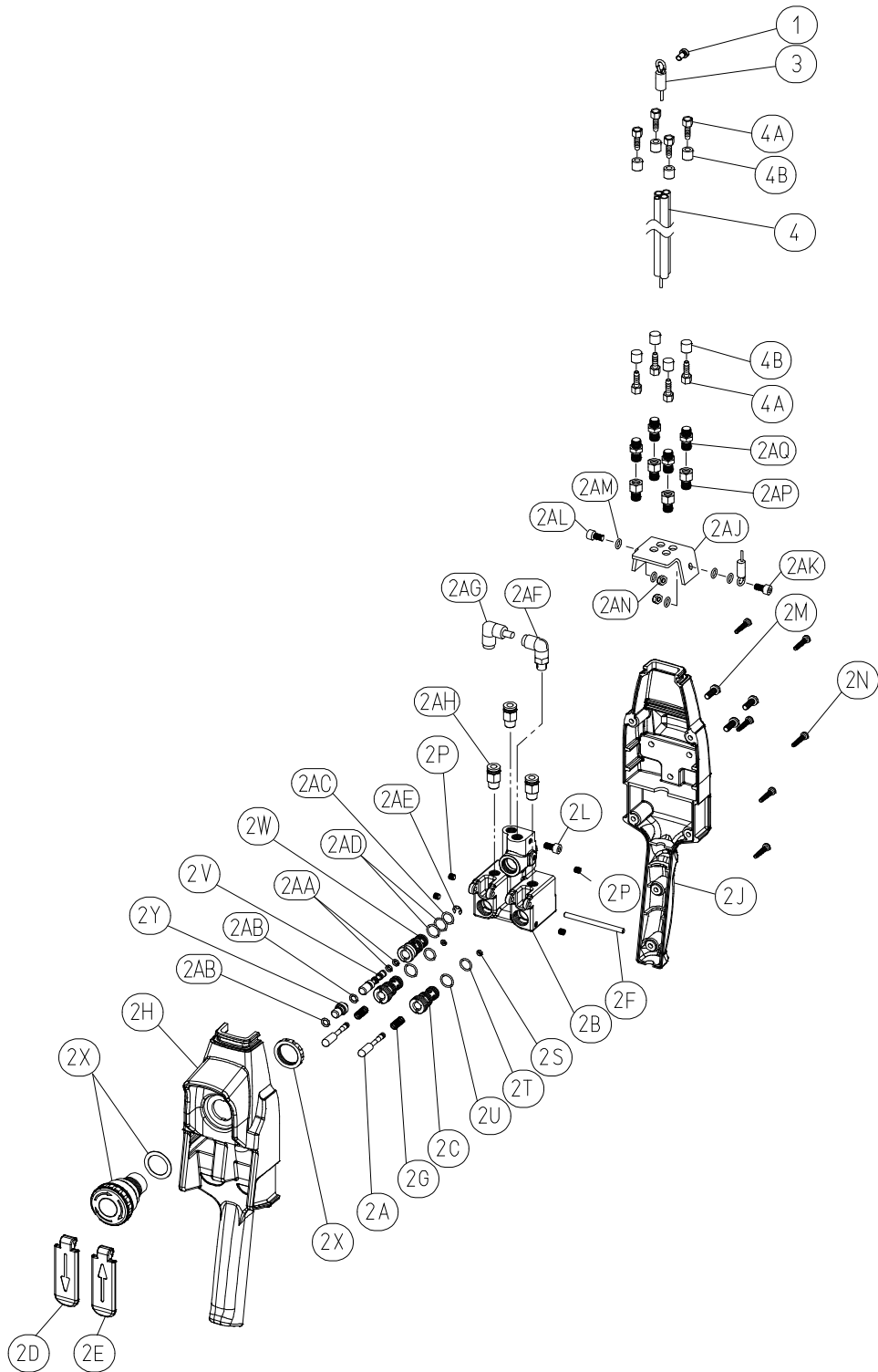


ITEM QTY		PART NUMBER	DESCRIPTION	REV.
1	1	426230061	VALVE BODY	
2	1	136102165	VALVE GASKET	
3	2	130604010	SPRING PIN 4X10	
4	4	131705050	HEX SOCKET HEAD CAP SCREW M5X10	
5	4	137402023	SILENCER (S)	
6	3	132105005	HEX SOCKET SET SCREW M5X5	
7	1	426230080	EXHAUST PLATE	
8	2	131905010	HEX SOCKET BUTTON HEAD SCREW M5X10	
9	1	136803032	1/2 INLET SCREEN	
10	1	134703070	INLET BUSHING	
11	2	131703015	ORING S-15	
12	2	130603030	SPRING PIN 2X4	
13	2	426230030	VALVE SPRING	
14	2	130802221	THROTTLE VALVE	
15	2	420161080	O-RING S-12.5	
16	2	131108012	O-RING ASS68-012 (HS90)	
17	2	13103016	VALVE BUSHING (U)	
18	4	426330E90	VALVE BUSHING (D)	
19	1	426230F00	O-RING S-22	
20	1	13103017	O-RING S-7	
21	2	13103005	RETAINING RING H-25	
22	2	13030025	SPRING SEAT	
23	2	426230C70	SPRING 26X20X2.6	
24	2	130802224	PISTON	
25	2	426230C60	RETAINING RING S-12	
26	2	130302012	O-RING ASS68-023	
27	2	13117023	DU BUSH DUB0705	
28	2	130219705	VALVE CAP	
29	2	426230A20	UNDER COVER	
30	2	13030032	PILOT SILENCER	
31	1	426230470	O-RING S-6	
32	1	137402033	CROSS-RECESSED HEAD SCREW M5X6	
33	3	132905206	HEX SOCKET HEAD CAP SCREW M5X10	
34	3	13103004	HEX SOCKET HEAD CAP SCREW M3X10	
35	3	131705030	HEX SOCKET SET SCREW M3X6	
36	2	131705020	HEX NUT M5	
37	2	132103016	HEX SOCKET HEAD CAP SCREW M5X10	
38	2	134403205	WASHER M5	
39	2	131705010	ADJUST CAP	
40	1	131507005		
41	2	426230A10		
42	2			
43	2			
SCALE NTS			TITLE OF PART	
DESIGNED BY			CONTROL VALVE	
DRAWN BY			TCS-980 CV	
CHECKED BY			1 / 1	
APPROVED BY			UNLESS OTHERWISE SPECIFIED	
SHEET SIZE A3			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
			TEXT	
			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
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			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
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			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
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			DIMENSIONS	
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			TOLERANCES	
			FRACTIONS	
			DECIMALS	
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			SURFACE FINISH	
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			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
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			SURFACE FINISH	
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			DIMENSIONS	
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			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
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			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
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			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
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			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
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			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
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			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
			TEXT	
			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
			TEXT	
			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
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			SURFACE FINISH	
			TEXT	
			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
			TEXT	
			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
			TEXT	
			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
			TEXT	
			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
			TEXT	
			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
			TEXT	
			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
			TEXT	
			DIMENSIONS	
			UNLESS OTHERWISE SPECIFIED	
			ALL DIMENSIONS ARE IN MILLIMETERS	
			TOLERANCES	
			FRACTIONS	
			DECIMALS	
			ANGLES	
			SURFACE FINISH	
			TEXT	

REVISION HISTORY		
REV.	DATE	APPROVED
0	14/02/2022	G. KRUPINSKI



PARTS LIST			TITLE OF PART		
ITEM QTY	PART NUMBER	DESCRIPTION	SCALE	DATE	SIGNATURE
1	2	HOOK CASE <td></td> <td>02/12/2021</td> <td><i>[Signature]</i></td>		02/12/2021	<i>[Signature]</i>
2	2	BEARING 6302ZZ <td></td> <td>21/01/2022</td> <td><i>[Signature]</i></td>		21/01/2022	<i>[Signature]</i>
3	1	FREE CHAIN WHEEL <td></td> <td></td> <td></td>			
4	2	HEX SOCKET HEAD CAP SCREW M6x35 <td></td> <td>26/01/2022</td> <td><i>[Signature]</i></td>		26/01/2022	<i>[Signature]</i>
5	2	U-NUT M6 <td></td> <td>26/01/2022</td> <td><i>[Signature]</i></td>		26/01/2022	<i>[Signature]</i>
6	1	SWIVEL HOOK OUTER RACE <td></td> <td></td> <td></td>			
7	8	STEEL BALL 5/16 <td></td> <td></td> <td></td>			
8	1	SWIVEL HOOK PLUG <td></td> <td></td> <td></td>			
9	1	HOOK SPRING <td></td> <td></td> <td></td>			
10	1	HOOK SAFETY CLAW <td></td> <td></td> <td></td>			
11	1	HEX SOCKET HEAD CAP SCREW M5x35 <td></td> <td></td> <td></td>			
12	1	U-NUT M5 <td></td> <td></td> <td></td>			
13	1	SWIVEL HOOK <td></td> <td></td> <td></td>			
PARTS LIST			TITLE OF PART		
DESCRIPTION			TITLE OF PROJECT		
REV.			TCS980 - 0.98T 2F 4H		
HOOK CASE			TCS980 - 0.98T 2F 4H		
BEARING 6302ZZ			TCS980 - 0.98T 2F 4H		
FREE CHAIN WHEEL			TCS980 - 0.98T 2F 4H		
HEX SOCKET HEAD CAP SCREW M6x35			TCS980 - 0.98T 2F 4H		
U-NUT M6			TCS980 - 0.98T 2F 4H		
SWIVEL HOOK OUTER RACE			TCS980 - 0.98T 2F 4H		
STEEL BALL 5/16			TCS980 - 0.98T 2F 4H		
SWIVEL HOOK PLUG			TCS980 - 0.98T 2F 4H		
HOOK SPRING			TCS980 - 0.98T 2F 4H		
HOOK SAFETY CLAW			TCS980 - 0.98T 2F 4H		
HEX SOCKET HEAD CAP SCREW M5x35			TCS980 - 0.98T 2F 4H		
U-NUT M5			TCS980 - 0.98T 2F 4H		
SWIVEL HOOK			TCS980 - 0.98T 2F 4H		
PART NUMBER			TITLE OF PROJECT		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
TCS-980 BB			TCS980 - 0.98T 2F 4H		
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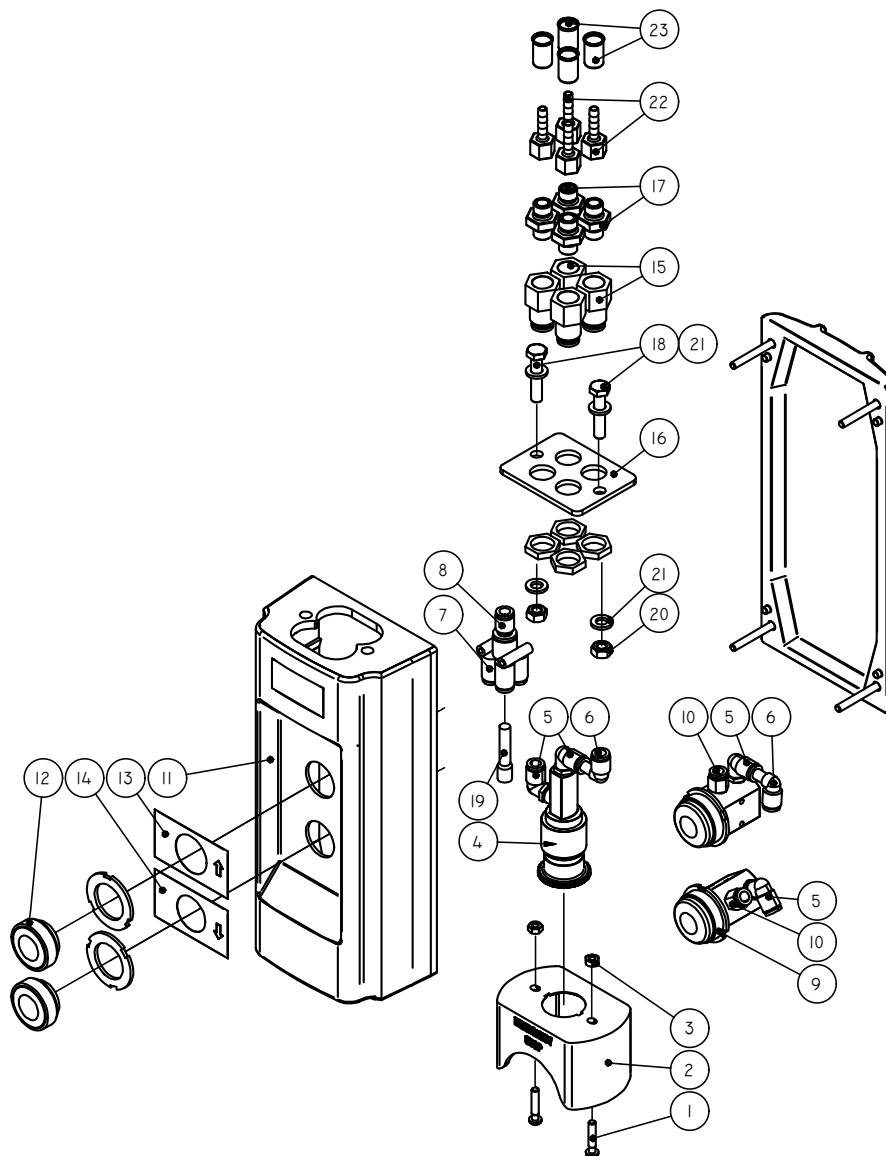




RED ROOSTER LIFTING

Pendant - VRD-2R

Fig. No.	Part Number	Part Name	Parts Per Hoist
1	131705008	HEX. SOCKET HEAD CAP SCREW M5X8	1
2	420228VRD	PENDANT VALVE ASSEMBLY	1
2A	420218VB0	THROTTLE VALVE	2
2B	420228VR0	VALVE BODY	1
2C	420218VF0	BUSHING	2
2D	420223W40	LEVER D	1
2E	420223W30	LEVER U	1
2F	130402053	LEVER PIN	1
2G	130802220	SPRING 6X14X0.6	2
2H	420228W50	FRONT CASE	1
2J	420228W60	REAR CASE	1
2L	131705010	HEX. SOCKET HEAD CAP SCREW M5X10	1
2M	132405014	PHILLIPS PAN HEAD MACHINE SCREW M5X14	3
2N	132904220	PHILLIPS PAN HEAD SELF-TAPPING SCREW 4X20	6
2P	132105005	HEX. SOCKET SET SCREW M5X5	4
2S	131109001	O-RING S-3 (HS90)	2
2T	131103008	O-RING S-10	2
2U	131103009	O-RING S-11.2	2
2V	420224V61	EMERGENCY STOP VALVE	1
2W	420228V50	EMERGENCY STOP BUSHING	1
2X	136690503	EMERGENCY STOP BUTTON	1
2Y	420228W00	PUSH ROD	1
2AA	131103002	O-RING S-5	2
2AB	131103004	O-RING S-6	2
2AC	131103008	O-RING S-10	1
2AD	131103009	O-RING S-11.2	2
2AE	130303004	RETAINING RING E-4	1
2AF	304P	1/8 BSP TO 6MM PUSH FIT ELBOW	1
2AG	P118	6MM PLUG IN ELBOW	1
2AH	P087	1/8 BSP TO 6MM PUSH FIT	3
2AJ	DRG-SI10394-T2	2 STATION PENDANT BRACKET	1
2AK	113/1	HEX. SOCKET HEAD CAP SCREW M6X16	1
2AL	113P	HEX. SOCKET HEAD CAP SCREW M6X20	1
2AM	145P	FLAT WASHER M6	5
2AN	139P	NYLOC NUT M6	2
2AP	P245	6MM TO 1/8 BSP BULKHEAD ADAPTOR	4
2AQ	P071/1	1/8 BSP HEX NIPPLE C/W 60° CONE	4
3	426230F1B	STRAINER WIRE	1
4	1/4-HOSE	1/4 ANTI-STATIC RUBBER HOSE	4
4A	P016/1	1/8 BSP TO 1/8 HOSETAIL SWIVEL	8
4B	P002/1	1/4 HOSE FERRULE	8



Pendant - VTP2M

Fig. No.	Part Number	Part Name	Parts Per Hoist
1	105P	M4 X 20 CHEESE HEAD SCREW	2
2	E/STOP/GUARD01	YELLOW E-STOP GUARD	1
3	113/1P	M4 NYLOCK NUT	2
4	BIK3206P-BS54	EMERGENCY STOP BUTTON	1
5	304P	8mm TO 6mm BANJO	4
6	P118	90° ELBOW 6mm	2
7	P112	4 WAY JUNCTION	1
8	301P	8mm TO 6mm REDUCER	1
9	BIK-3209-P-VALVE	PENDANT VALVE	2
10	P087	1/8" TO 6mm PUSHFIT	2
11	TP/HOUS/M	2 STATION MACHINED PENDANT	1
12	BIK-3209-294-B-COVER	COVER FOR BIK VALVES	2
13	XAC-B-LEGEND-UP	UP LEGEND	1
14	XAC-B-LEGEND-DOWN	DOWN LEGEND	1
15	P245	1/8" TO 6mm BULKHEAD AND NUT	4
16	DRG 2652-01	PLATE	1
17	P071/1	1/8" BSP NIPPLE C/W CONE	4
18	112P	M6 x 20 HEX BOLT	2
19	P117	8mm BLANKING PLUG	1
20	139P	M6 NYLOCK NUT	2
21	145P	M6 WASHER	2
22	P016/1	1/8" BSP SWIVEL TO 1/4" HOSE TAIL	4
23	P002/1	1/4" HOSE FURRULE	4