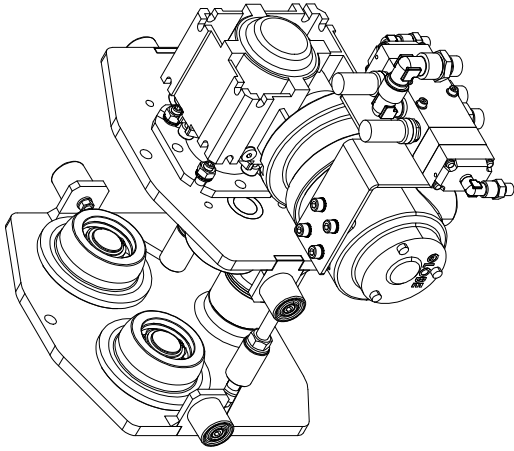
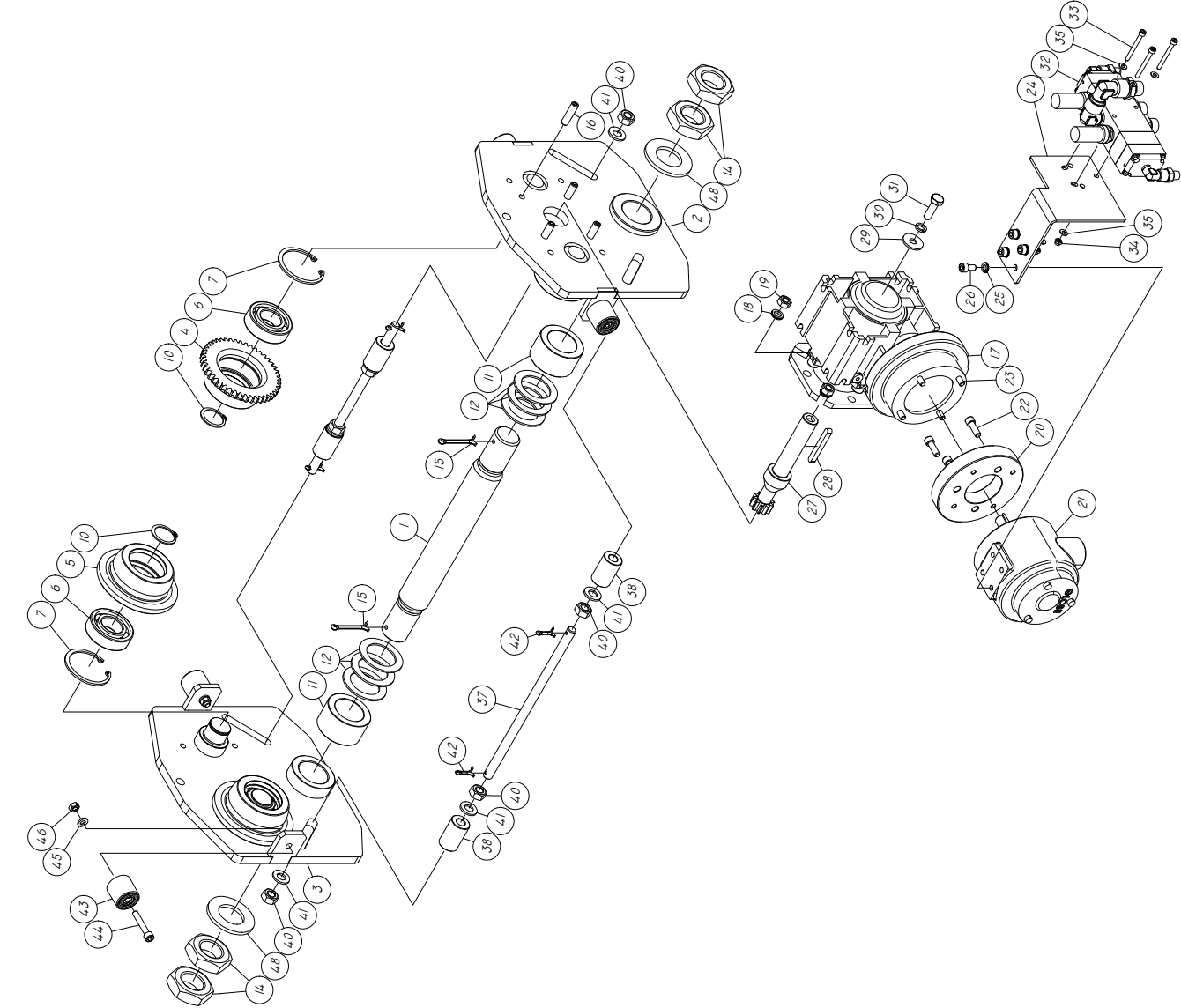


REVISION HISTORY		
REV.	DATE	APPROVED
0	29/04/2021	W. MORRISON



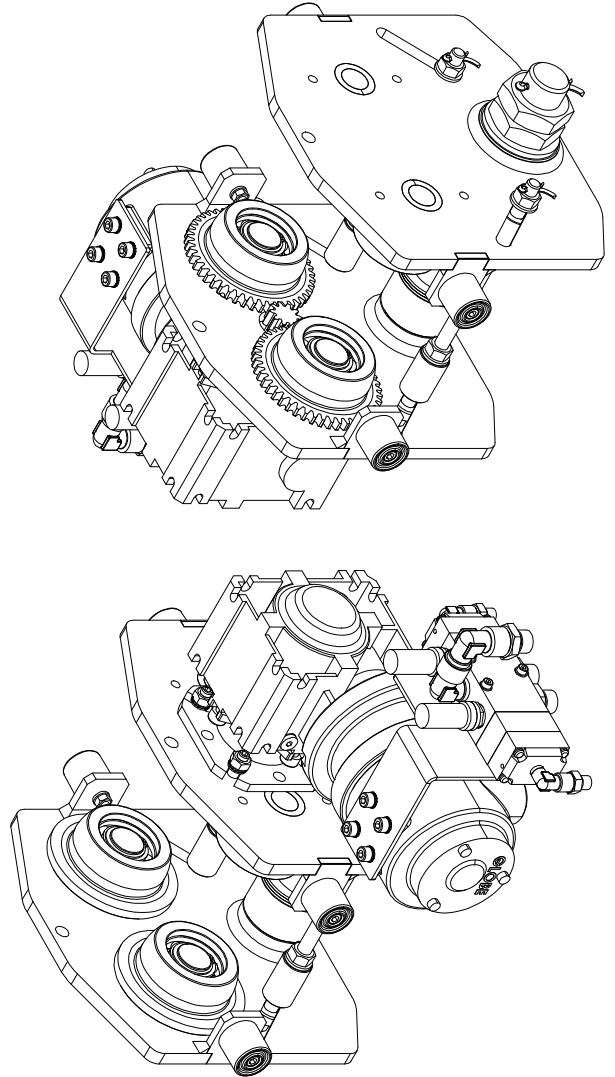
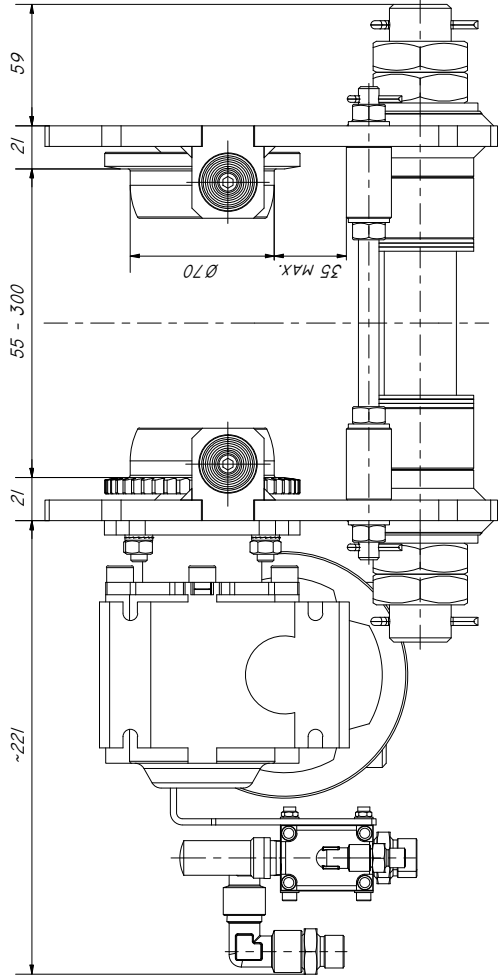
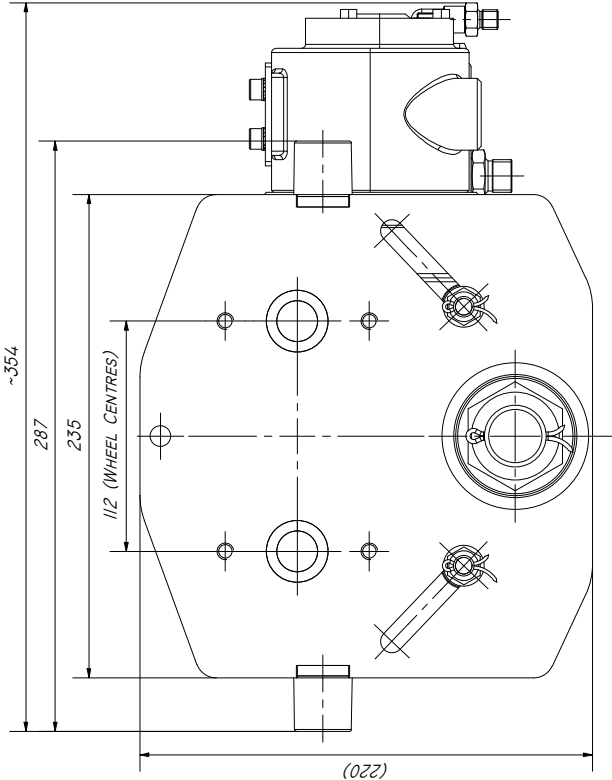
WEIGHT ~22KG

STANDARD 2T AIR TROLLEY PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	RRL 1500-15	VALVE BAR
2	1	RRL 1500-02	MOTOR MOTOR W
3	1	RRL 1500-03	SPACER PLATE W
4	2	RRL 1500-03	SPACER PLATE W
5	2	RRL 1500-12ST	GEAR WHEEL - STANDARD VERSION
6	2	RRL 1500-12ST	GEAR WHEEL - STANDARD VERSION
7	4	DIN 625 SKF - SKF 6205-2Z	DEEP GROOVE BALL BEARING SINGLE ROW WITH TWO Z SHIELDS SKF
8	4	DIN 472 - 52 x 2	SPRING RETAINING RING
9	4	DIN 471 - 25 x 1.2	SPRING RETAINING RING
10	4	RRL 1500-09	SPACER
11	2	RRL 1500-10	SPACER WASHER
12	6	ISO 4035 - M30	HEX NUT, PRODUCT GRADES A AND B
13	4	DIN EN ISO 1234 - 4x4.0	SPLIT PIN
14	2	DIN 913 - M8 x 30	HEXAGON SOCKET SET SCREW
15	4	SKS140AFH-IEC63-2C IS-I	NORD GEARBOX
16	4	NL 6	M8 NORDLOCK WASHER GLUED PAIR
17	1	ISO 4032 - M8	HEX NUT, PRODUCT GRADES A AND B
18	4	RRL TP-01	TRANSITION PIECE
19	4	VALJXX12	AIR MOTOR
20	1	ANSI B18.3 - 1/4 - 20 UNC - 3/4 HS HCS	HEXAGON SOCKET HEAD CAP SCREW
21	1	DIN 912 - M6 x 4.0	CYLINDER HEAD CAP SCREW
22	3	CVB-01	VALVE BRACKET (MOTOR - VALJXX12)
23	4	NL 6	M6 NORDLOCK WASHER GLUED PAIR
24	1	DIN 912 - M6 x 12	CYLINDER HEAD CAP SCREW
25	4	RRL 1500-37	PINION SHAFT
26	4	DIN 6885 - A 6 x 6 x 50	PARALLEL KEY
27	1	DIN 9021 - 8.4	SPRING WASHER
28	1	DIN 7980 - 8	HEX-HEAD BOLT
29	1	DIN 931-I - M8 x 25	2T AIR TROLLEY CONTROL VALVE C/W FITTINGS
30	1	RRL 1500-LV	CYLINDER HEAD CAP SCREW
31	1	DIN 912 - M4 x 4.0	HEX NUT
32	3	DIN 985 - M4	WASHER
33	3	DIN 125 - A 4.3	TIE ROD
34	2	RRL 1500-11	ANTI TIP ROLLER - STANDARD VERSION
35	2	RRL 1500-14ST	HEX NUT, PRODUCT GRADES A AND B
36	8	CSN EN ISO 1234 - 10.5	SPLIT PIN
37	8	CSN EN ISO 1234 - 3.2x16	1/4" BLACK RUBBER STOP
38	4	DIN 912 - M6 x 35	CYLINDER HEAD CAP SCREW
39	4	DIN 125 - A 6.4	WASHER
40	4	ISO 4032 - M6	HEX NUT, PRODUCT GRADES A AND B
41	4	DIN 125 - A 31	WASHER
42	2	DIN 125 - A 31	WASHER
43	2	DIN 125 - A 31	WASHER
44	2	DIN 125 - A 31	WASHER
45	2	DIN 125 - A 31	WASHER
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97	2	DIN 125 - A 31	WASHER
98	2	DIN 125 - A 31	WASHER
99	2	DIN 125 - A 31	WASHER
100	2	DIN 125 - A 31	WASHER

2T AT ASSEMBLY		2T AT	
SCALE	MATERIAL	TITLE OF PART	PART NUMBER
NTS	(SEE EQUIVANT)		RRL 1500-01
DESIGNED BY	SURNAME	DATE	1 / 12
O. MORGAN	17/02/2021	23/02/2021	
DRAWN BY	SURNAME	REVISION WEIGHT	
O. MORGAN	23/02/2021	0	
CHECKED BY	SURNAME	REPLACES DRAWING	
W. MORRISON	24/02/2021	-	
APPROVED BY	SURNAME	PROFILE NUMBER	
B. AITKEN	25/02/2021	-	
SHEET SIZE	TITLE OF PROJECT		
A3			

RED ROOSTER LIFTING		2T AT ASSEMBLY	
DATE	REVISION WEIGHT	DATE	REVISION WEIGHT
23/02/2021	0	23/02/2021	0
SEE ABOVE		SEE ABOVE	
REPLACES DRAWING		REPLACES DRAWING	
UNLESS OTHERWISE SPECIFIED		UNLESS OTHERWISE SPECIFIED	
ALL DIMENSIONS ARE IN MILLIMETERS		ALL DIMENSIONS ARE IN MILLIMETERS	
LINEAR		LINEAR	
OVER 100 ± 0.1		OVER 100 ± 0.1	
OVER 50 ± 0.05		OVER 50 ± 0.05	
OVER 20 ± 0.03		OVER 20 ± 0.03	
OVER 10 ± 0.02		OVER 10 ± 0.02	
ANGULAR ± 0.5°		ANGULAR ± 0.5°	
SURFACE ROUGHNESS		SURFACE ROUGHNESS	
IF IN DOUBT ASK		IF IN DOUBT ASK	

STANDARD 2T AIR TROLLEY



WEIGHT ~22KG

SCALE	MATERIAL	TITLE OF PART	PART NUMBER
NTS	(OR EQUIVALENT)	2T AT ASSEMBLY	RRL 1500-01
DESIGNED BY	SUBMITTER	DATE	2 / 12
DRAWN BY	O. MORGAN	23/02/2021	
CHECKED BY	O. MORGAN	REVISION WEIGHT	
APPROVED BY	W. MORRISON	0	SEE ABOVE
SHEET SIZE	B. AITKEN	REPLACES DRAWING	
A3		PROFILE NUMBER	

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN MILLIMETERS

LOOSE TOLERANCES

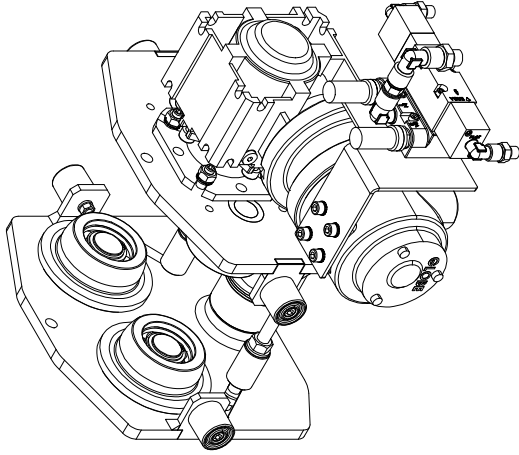
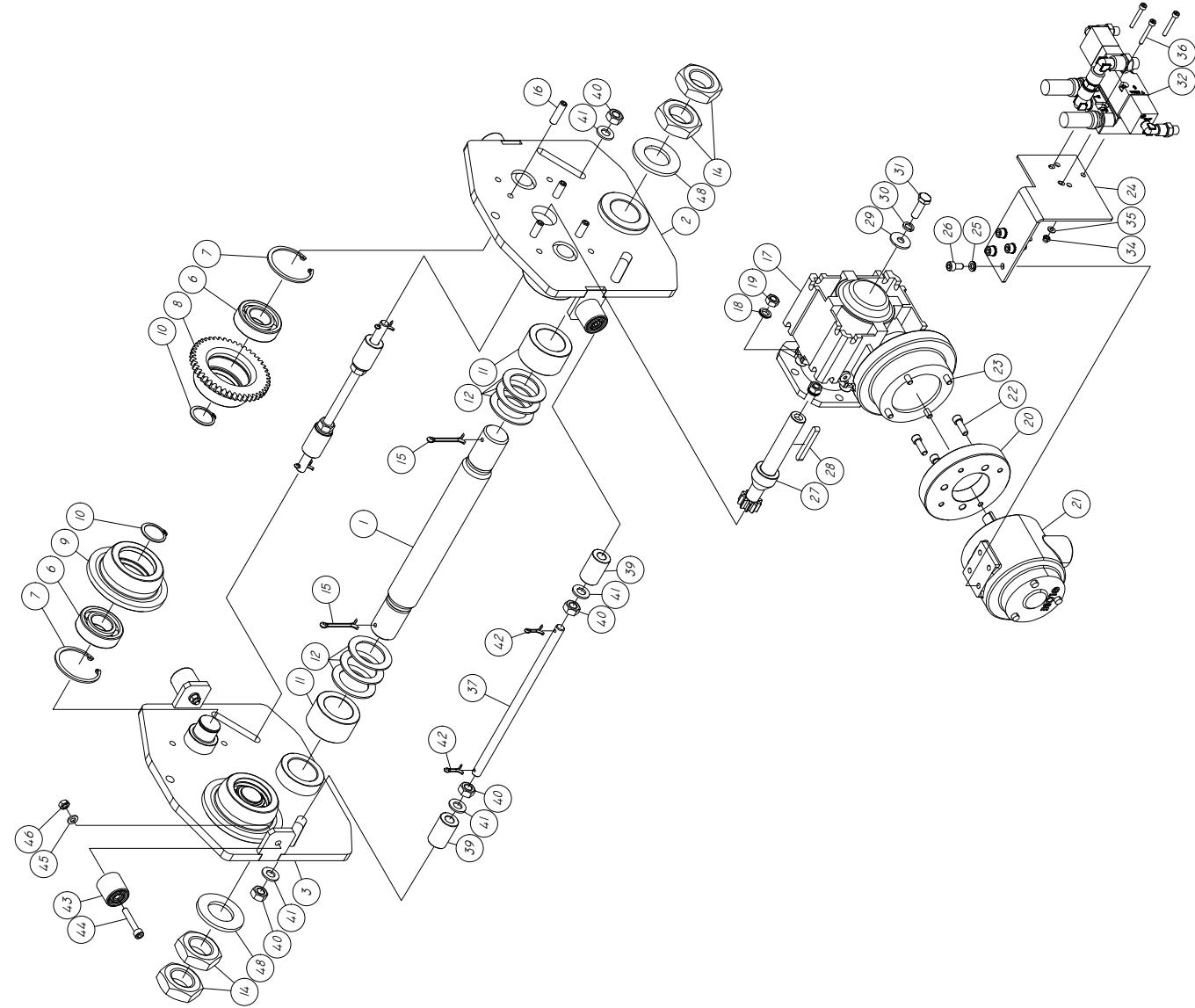
UP TO 5 ±0.05
OVER 5 TO 10 ±0.1
OVER 10 TO 30 ±0.15
OVER 30 TO 100 ±0.2
OVER 100 TO 300 ±0.3
OVER 300 TO 1000 ±0.5

ANGULAR ±0.5°

SURFACE FINISHES $\sqrt{R}$
IF IN DOUBT ASK

RED ROOSTER LIFTING

2T AT



WEIGHT ~22KG

ATEX 2T AIR TROLLEY PARTS LIST				
ITEM	QTY	PART NUMBER	DESCRIPTION	REV.
1	1	RRL 1500-15	LOAD BAR	0
2	1	RRL 1500-02	MOTOR PLATE W	0
3	1	RRL 1500-03	SIDE PLATE W	0
4	1	DIN 625 SKF - SKF 6205-2Z	DEEP GROOVE BALL BEARINGS SINGLE ROW WITH TWO Z SHIELDS SKF	0
6	4	DIN 472 - 52 x 2	SPRING RETAINING RING	0
7	4	RRL 1500-11AX	GEAR WHEEL - ATEX VERSION	0
8	2	RRL 1500-12AX	PLAIN WHEEL - ATEX VERSION	0
9	2	DIN 471 - 25 x 1.2	SPRING RETAINING RING	0
10	4	RRL 1500-09	SPACER	0
11	2	RRL 1500-10	HEX NUT. PRODUCT GRADES A AND B	0
12	0	ISO 10313-150	HEXAGON SOCKET SET SCREW	0
13	2	DIN EN 12161 - 4x4.0	NUT	0
14	2	DIN 913 - M8 x 40	HEXAGON SOCKET SET SCREW	0
15	4	SKS1404FH-FC6.5-2G 15-1	M8 NORDLOCK WASHER GLUED PAIR	0
16	4	ISO 10313 - M8	HEX NUT. PRODUCT GRADES A AND B	0
17	4	RRL 1P-01	TRANSITION PIECE	0
18	1	VAL-XXX12	AIR MOTOR	0
19	1	ANST B18.3 - 1/4 - 20 UNC - 3/4 HS HCS	HEXAGON SOCKET HEAD CAP SCREW	0
20	3	DIN 912 - M6 x 4.0	CYLINDER HEAD CAP SCREW	0
21	1	CIVB-01	VALVE BRACKET (MOTOR - VAL-XXX12)	0
22	1	NL 6	M6 NORDLOCK WASHER GLUED PAIR	0
23	4	DIN 912 - M6 x 12	CYLINDER HEAD CAP SCREW	0
24	4	RRL 1500-37	PISTON SHAFT	0
25	1	DIN 6885 - A 6 x 6 x 5.0	PARALLEL KEY	0
26	1	DIN 9021 - 8.4	WASHER	0
27	1	DIN 7980 - 8	SPRING WASHER	0
28	1	DIN 931-I - M8 x 25	HEX-HEAD BOLT	0
29	1	RRL 1500-CV	2T AIR TROLLEY CONTROL VALVE C/W FITTINGS	0
30	1	DIN 985 - M4	HEX NUT	0
31	3	DIN 125 - A 4.3	WASHER	0
32	3	DIN 912 - M4 x 3.0	CYLINDER HEAD CAP SCREW	0
33	2	RRL 1500-13	TIE ROD	0
34	4	RRL 1500-14AX	ANTI TIP ROLLER - ATEX VERSION	0
35	8	ISO 4032 - M10	HEX NUT. PRODUCT GRADES A AND B	0
36	8	DIN 125 - A 10.5	WASHER	0
37	4	CSN EN ISO 1234 - 3.2x16	SPLIT PIN	0
38	4	DSI787	1 1/8" BLACK RUBBER STOP	0
39	4	DIN 912 - M6 x 35	CYLINDER HEAD CAP SCREW	0
40	4	DIN 125 - A 6.4	WASHER	0
41	4	ISO 4032 - M6	HEX NUT. PRODUCT GRADES A AND B	0
42	2	DIN 125 - A 31	WASHER	0
43	2	DIN 125 - A 31	WASHER	0
44	2	DIN 125 - A 31	WASHER	0
45	2	DIN 125 - A 31	WASHER	0
46	2	DIN 125 - A 31	WASHER	0

SCALE

NTS

A3

SUBMITTER

O. MORGAN

DESIGNED BY

O. MORGAN

CHECKED BY

W. MORRISON

APPROVED BY

B. AITKEN

SHEET SIZE

A3

(OR EQUIVALENT)

DATE

17/02/2021

DATE

23/02/2021

DATE

24/02/2021

DATE

25/02/2021

SIGNATURE

2T AT ASSEMBLY

2T AT

PART NUMBER

RRL 1500-01

3 / 12

UNLESS OTHERWISE SPECIFIED

ALL DIMENSIONS ARE IN MILLIMETERS

TOLERANCES

UP TO 5 #0.05

OVER 5 TO 10 #0.1

OVER 10 TO 30 #0.15

OVER 30 TO 50 #0.2

OVER 50 UP TO 100 #0.3

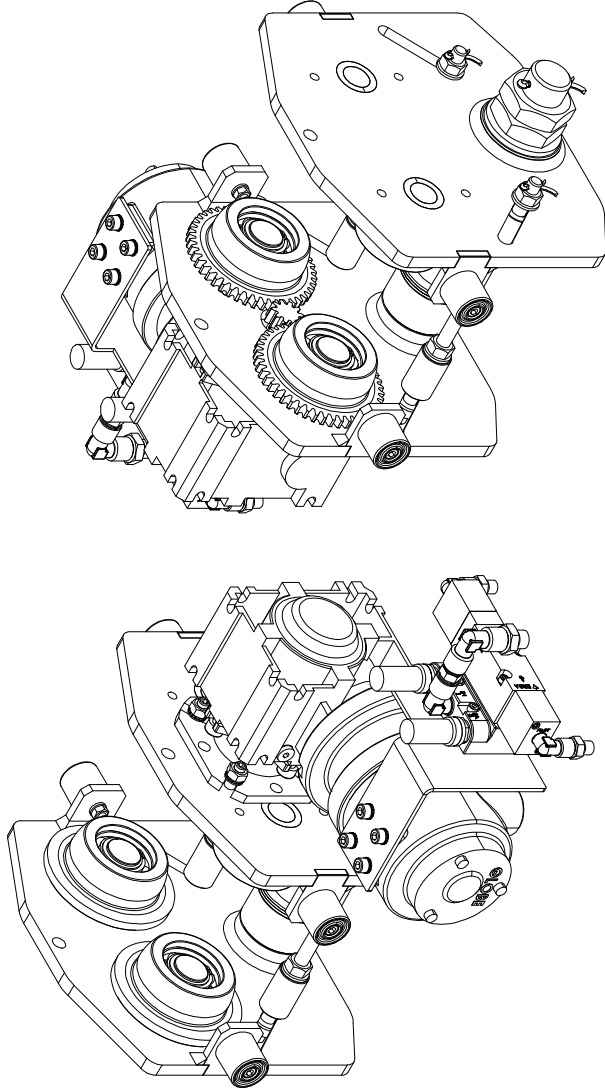
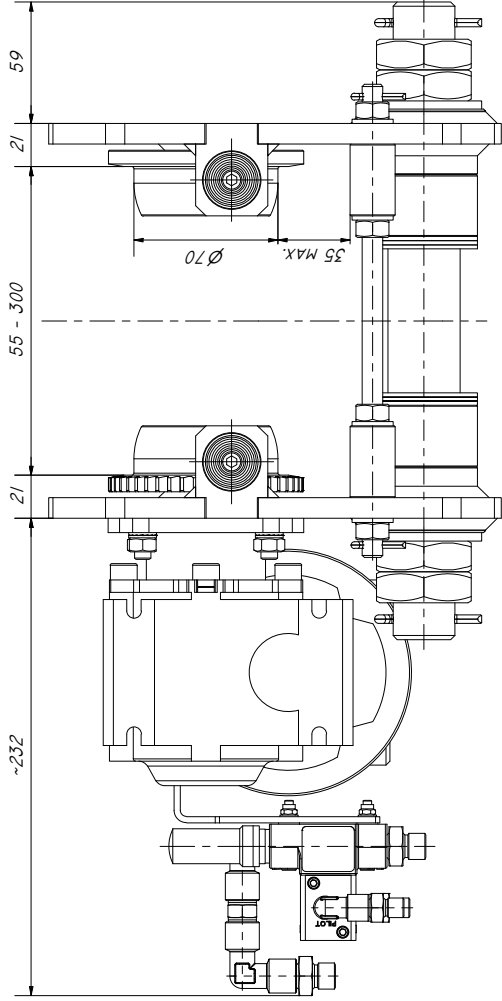
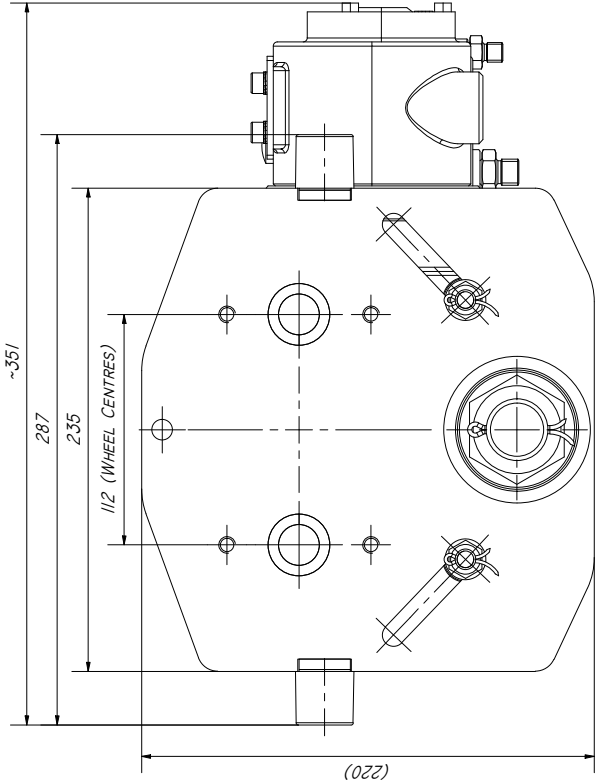
OVER 100 #0.5

ANGULAR ±0.5°

SURFACE FINISHES $\sqrt{R}$

IF IN DOUBT ASK

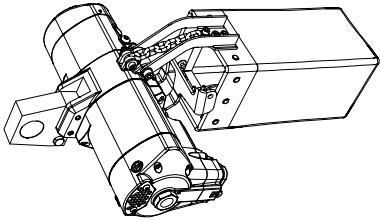
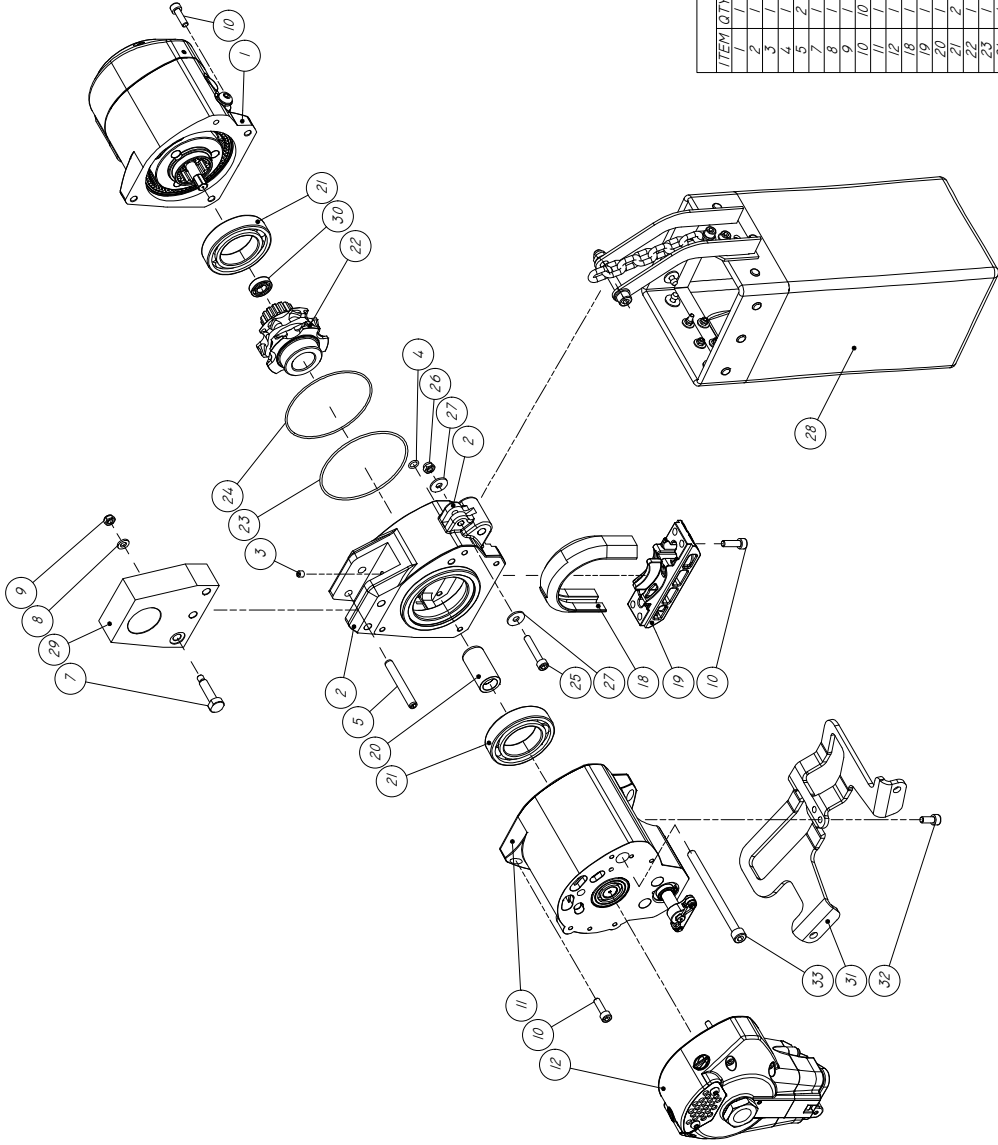
ATEX 2T AIR TROLLEY



WEIGHT ~22KG

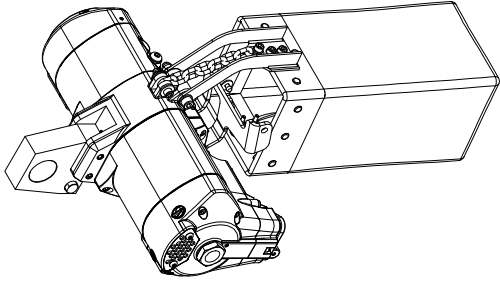
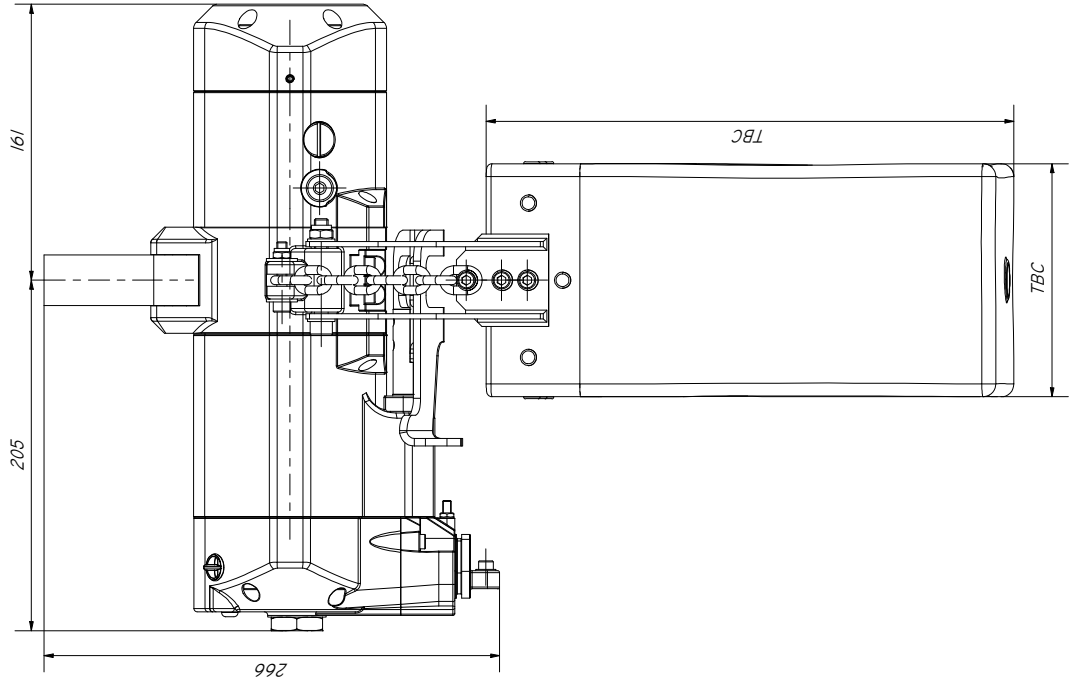
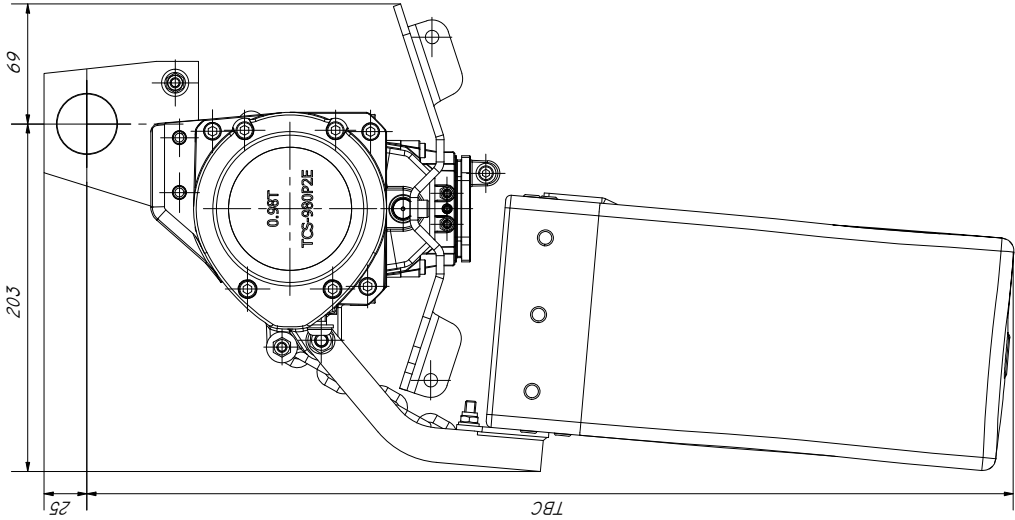
SCALE	MATERIAL	TITLE OF PART		TITLE OF PROJECT	
NTS	(BY EQUIVALENT)	SIGNATURE	DATE	SIGNATURE	DATE
DESIGNED BY	O. MORGAN	O. MORGAN	17/02/2021	D.M.B.	23/02/2021
DRAWN BY	O. MORGAN	O. MORGAN	23/02/2021	D.M.B.	23/02/2021
CHECKED BY	W. MORRISON	W. MORRISON	24/02/2021	W. MORRISON	24/02/2021
APPROVED BY	B. ALKEN	B. ALKEN	25/02/2021	B. ALKEN	25/02/2021
SHEET SIZE	A3	TITLE OF PROJECT		TITLE OF PROJECT	
		2T AT		2T AT	
		2T AT ASSEMBLY		2T AT ASSEMBLY	
		RED ROOSTER LIFTING		RED ROOSTER LIFTING	
		23/02/2021		23/02/2021	
		REVISION WEIGHT		REVISION WEIGHT	
		0		0	
		REPLACES DRAWING		REPLACES DRAWING	
		-		-	
		PROFILE NUMBER		PROFILE NUMBER	
		-		-	
		SURFACE FINISHES		SURFACE FINISHES	
		IF IN DOUBT ASK		IF IN DOUBT ASK	

TCS-980 DU WITH TOP EYE & CHAIN BAG FOR RRL 1500-00 (2T AIR TROLLEY)



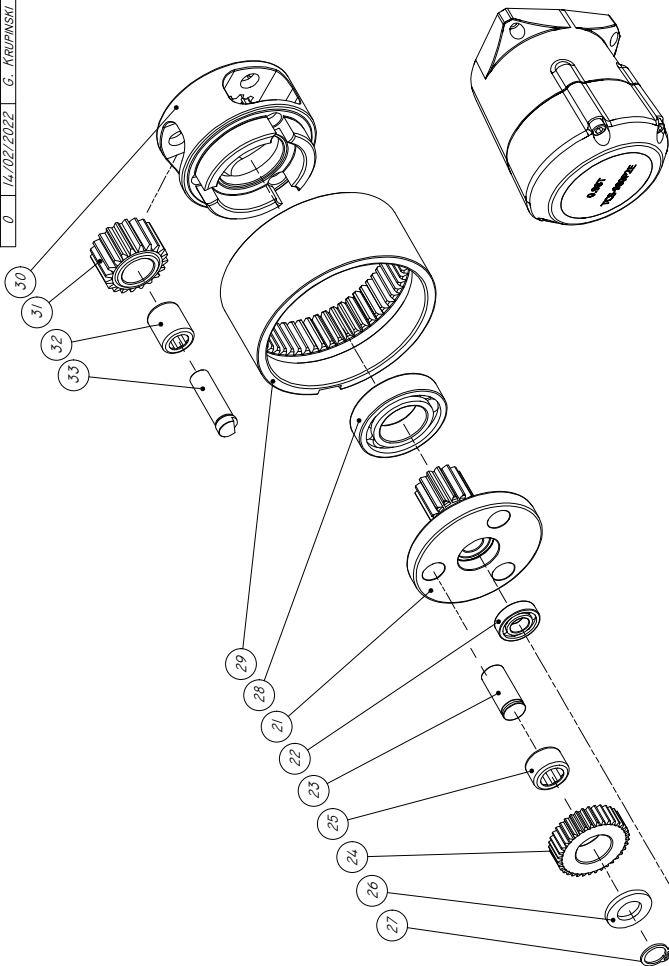
TCS-980 DU WITH TOP EYE & CHAIN BAG FOR RRL 1500-00 (2T AIR TROLLEY) - PARTS LIST									
ITEM QTY	PART NUMBER	DESCRIPTION	REV.						
1	1	TCS-980 GB							
2	1	CENTRE HOUSING							
3	1	HEX SOCKET SET SCREW M6X6							
4	1	O-RING S-8							
5	2	SPRING PIN 8X60							
6	1	HOOK JOINT BOLT							
7	1	WASHER M6							
8	1	LI-NUT M6							
9	1	HEX SOCKET HEAD CAP SCREW M6X20							
10	1	AIR MOTOR							
11	1	CONTROL VALVE							
12	1	CHAIN GUIDE							
13	1	CHAIN SEPARATOR							
14	1	COUPLING							
15	1	BEARING 6008ZZ							
16	1	LOAD SHEAVE							
17	1	O-RING S-90							
18	1	O-RING ASS568-043							
19	1	HEXAGON SOCKET HEAD CAP SCREW							
20	1	HEX NUT							
21	1	WASHER							
22	1	CHAIN BAG							
23	1	LINK PLATE FOR TCS-980							
24	1	BEARING 6900							
25	1	CHAIN LEVER							
26	1	HEX SOCKET HEAD CAP SCREW M6X14							
27	1	HEX SOCKET HEAD CAP SCREW M8X10							
28	1	ISO 4762 - M6 x 35							
29	1	DIN 985 - M6							
30	1	DIN 9021 - 6.4							
31	1	CHAIN BAG							
32	1	RRL 1500-39							
33	1	ISO13001							
34	1	426251110							
35	2	ISO1706014							
36	1	ISO170810							
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TCS-980 DU WITH TOP EYE & CHAIN BAG FOR RRL 1500-00 (2T AIR TROLLEY)

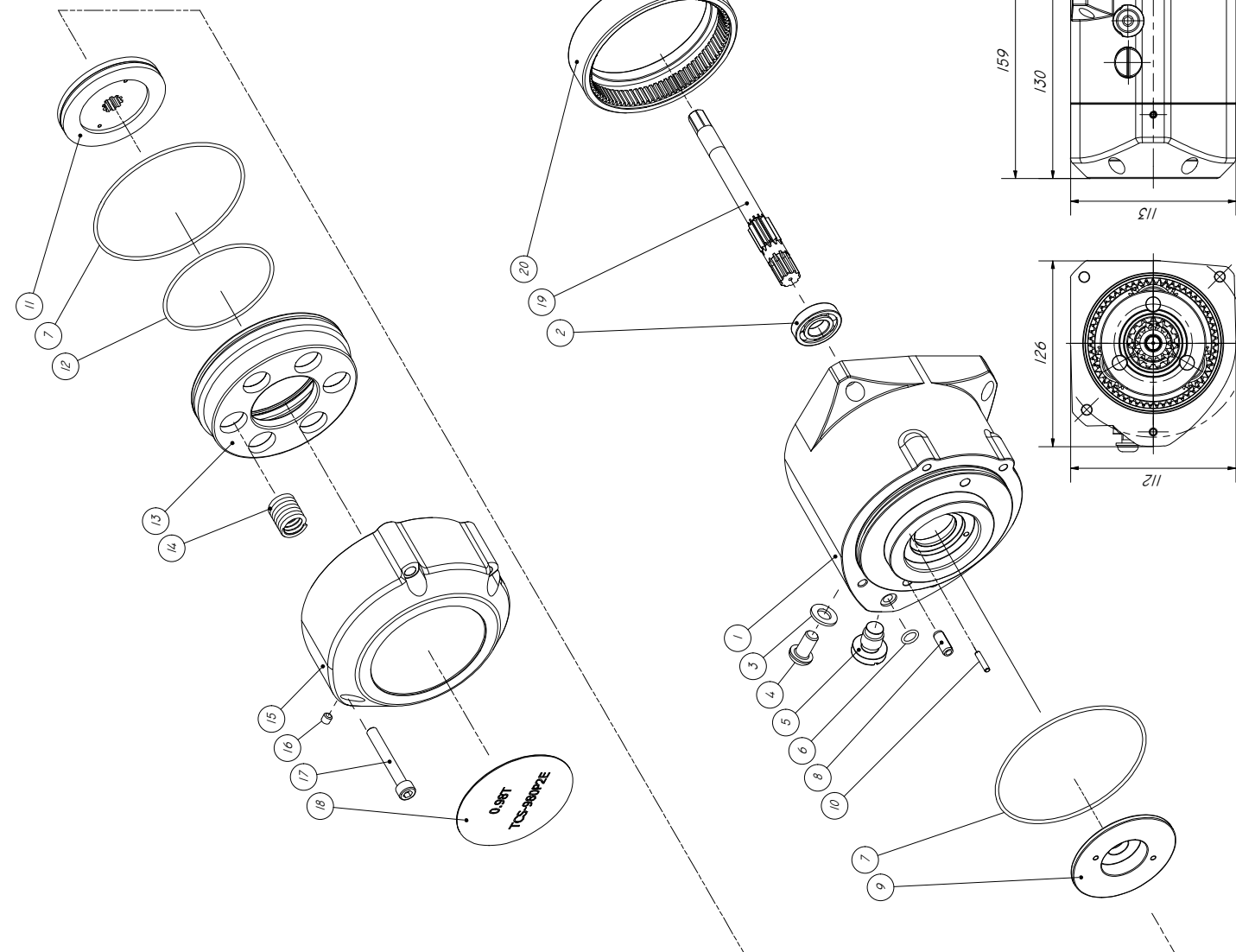


SCALE	MATERIAL	TITLE OF PART			PART NUMBER	
		SURNAME	DATE	SIGNATURE	TCS-980 DU	
NTS		R. TWOREK	19/01/2022	<i>R. Tworek</i>	8 / 12	
DESIGNED BY		R. TWOREK	07/02/2022	<i>R. Tworek</i>	DATE	
DRAWN BY		R. TWOREK	07/02/2022	<i>R. Tworek</i>	REVISION WEIGHT	
CHECKED BY		G. KRUPINSKI	10/03/2022	<i>G. Krupinski</i>	0 20 KG	
APPROVED BY		B. AITKEN	11/03/2022	<i>B. Aitken</i>	REPLACES DRAWING	
SHEET SIZE					-	
A3					PROFILE NUMBER	
					-	
		TCS980 - 0.98T 2F AH				
		RED ROOSTER LIFTING				
		UNLESS OTHERWISE SPECIFIED				
		ALL DIMENSIONS ARE IN MILLIMETERS				
		TOLERANCES				
		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 FINISHNESS N7				
		IF IN DOUBT ASK				

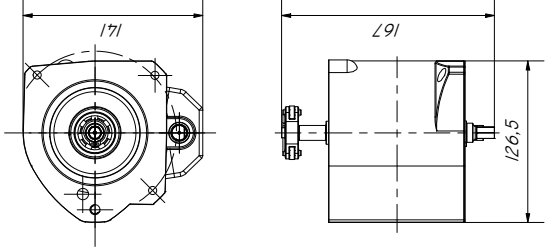
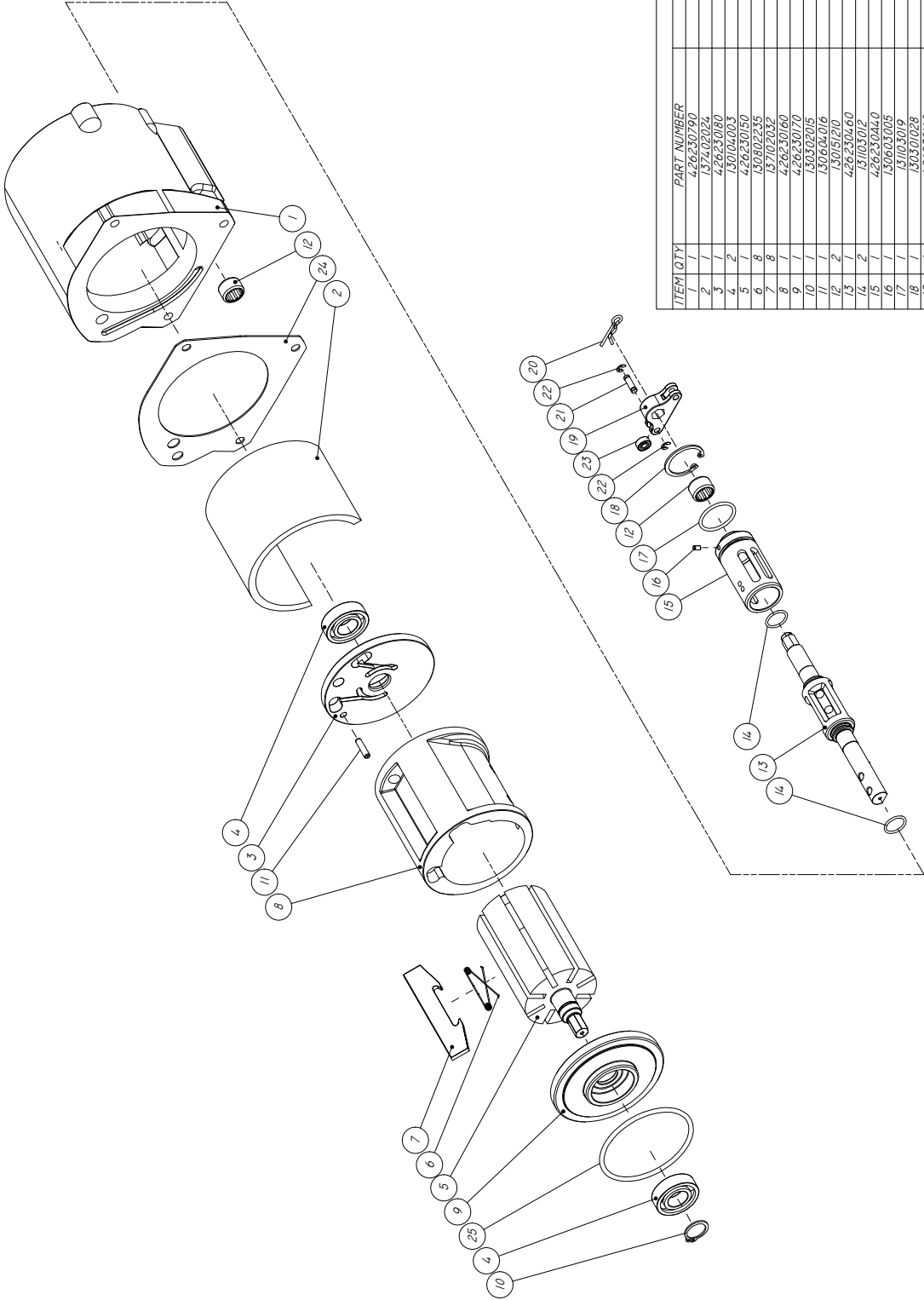
REVISION HISTORY		
REV.	DATE	APPROVED
0	14/02/2022	G. KRUPINSKI



PARTS LIST			REV.
ITEM QTY	PART NUMBER	DESCRIPTION	
1	426230310	GEAR CASE	
2	13070004	BEARING EE-4	
3	13070005	WASHER 16	
4	13070015	HEX SOCKET HEAD SCREW M8X15	
5	426230890	SCREW	
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	131701065	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			

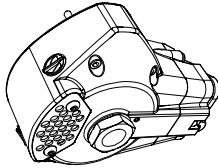
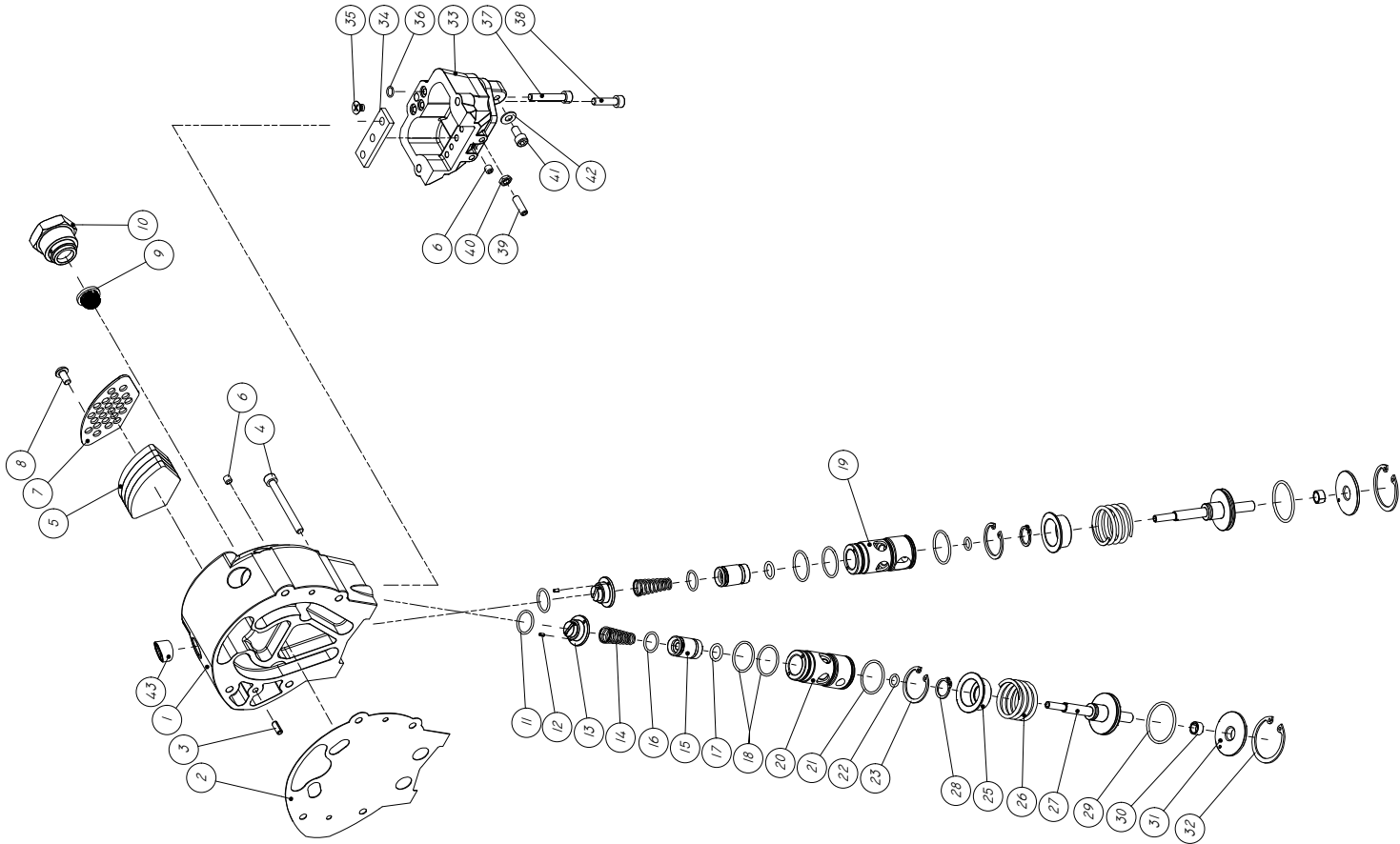
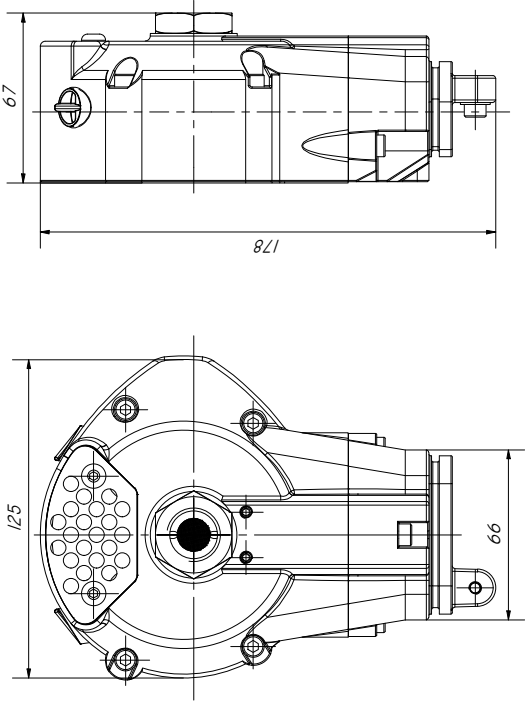


REVISION HISTORY		
REV.	DATE	APPROVED
0	14/02/2022	G. KRUPINSKI



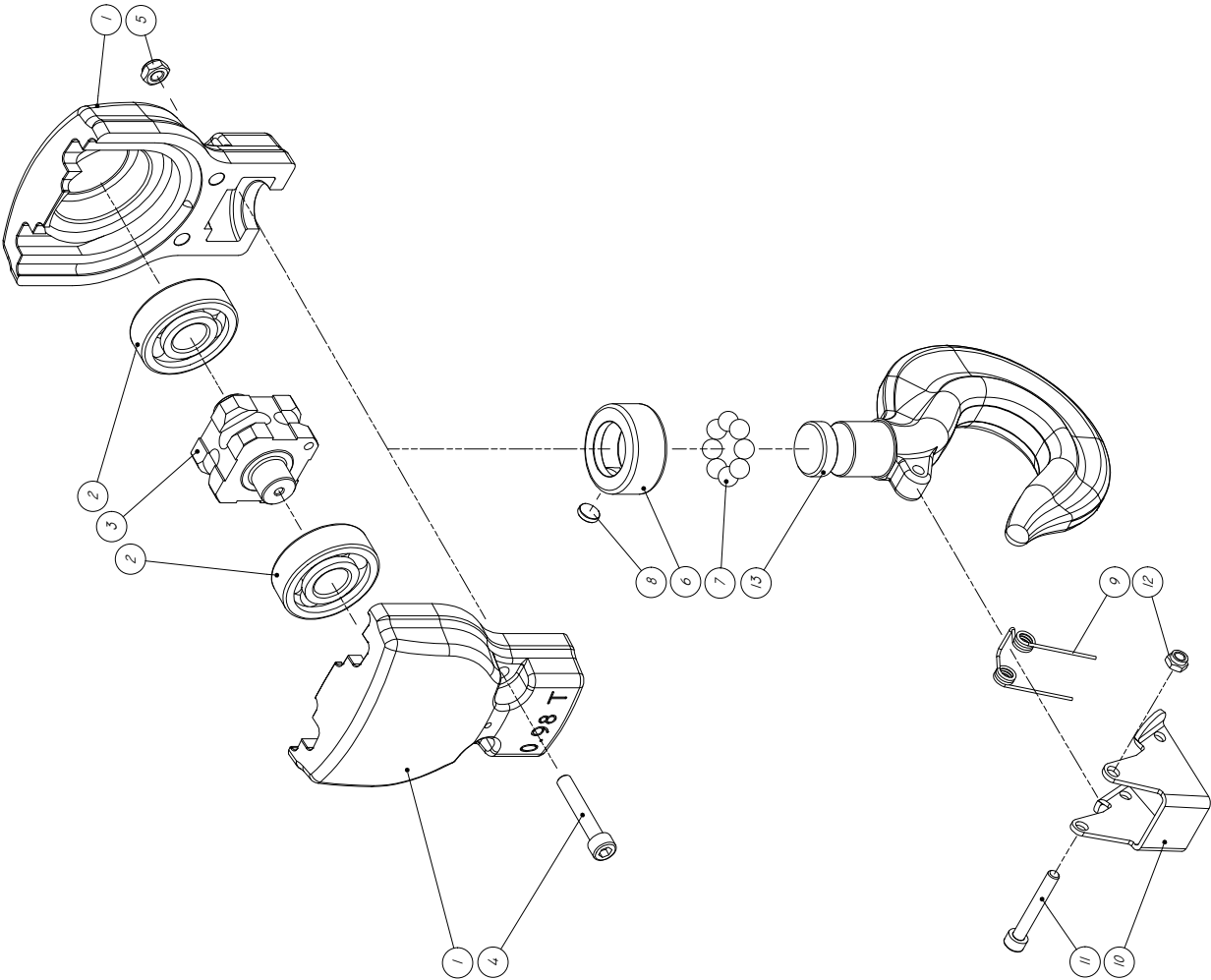
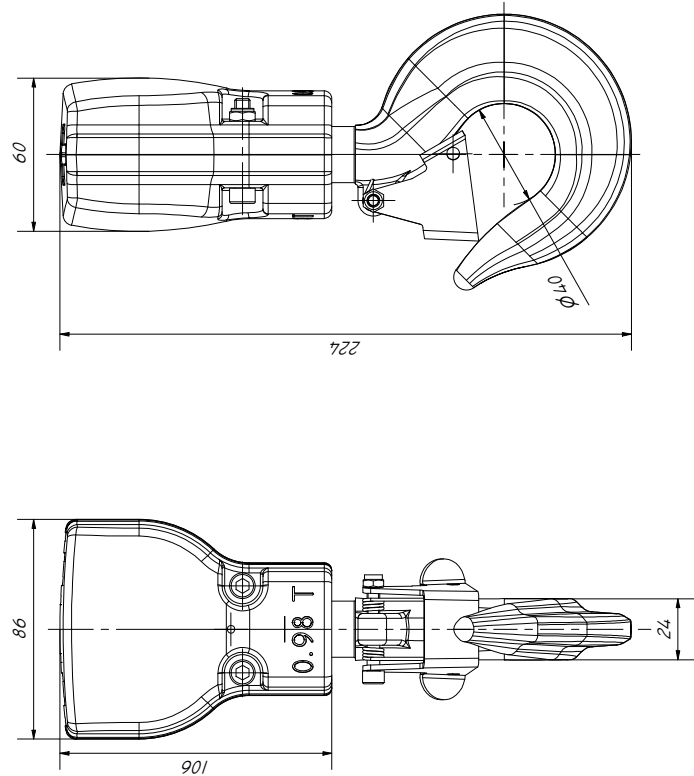
PARTS LIST			TITLE OF PART		TITLE OF PROJECT	
ITEM QTY	PART NUMBER	DESCRIPTION	MATERIAL	SCALE	DATE	SIGNATURE
1 1	426230790	MOTOR CASE	R. TWORK	19/01/2022	<i>R. Twork</i>	
2 1	137102024	SILENCER (M)	R. TWORK	24/01/2022	<i>R. Twork</i>	
3 1	426230180	BEAR PLATE	R. TWORK	25/01/2022	<i>R. Twork</i>	
4 2	130104003	BEARING 6002	G. KRUPINSKI	25/01/2022	<i>G. Krupinski</i>	
5 1	426230150	ROTOR	B. AITKEN	26/01/2022	<i>B. Aitken</i>	
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	PISTON GASKET				
25 1	131022019	O-RING G-65				
SCALE			TITLE OF PART			
NTS			AIR MOTOR			
DESIGNED BY			DATE			
DRAWN BY			SIGNATURE			
CHECKED BY			DATE			
APPROVED BY			SIGNATURE			
SHEET SIZE			TITLE OF PROJECT			
A3			TCS980 - 0.98T 2F AH			
PART NUMBER			TCS-980 AM			
UNLESS OTHERWISE SPECIFIED			1 / 1			
ALL DIMENSIONS ARE IN MILLIMETERS			DATE			
TOLERANCES			24/01/2022			
LINEAR			REVISION			
UP TO 5 ± 0.05			0			
OVER 5 TO 12 ± 0.1			WEIGHT			
OVER 12 TO 25 ± 0.15			6.4 KG			
OVER 25 TO 50 ± 0.2			REPLACES DRAWING			
OVER 50 TO 100 ± 0.25			-			
OVER 100 TO 200 ± 0.3			PROFILE NUMBER			
OVER 200 TO 300 ± 0.35			-			
OVER 300 TO 500 ± 0.5			SURFACE FINISH			
OVER 500 TO 1000 ± 0.5			ANGULAR ± 0.5°			
OVER 1000 TO 2000 ± 0.5			SURFACE FINISH			
OVER 2000 TO 3000 ± 0.5			ANGULAR ± 0.5°			
OVER 3000 TO 5000 ± 0.5			SURFACE FINISH			
OVER 5000 TO 10000 ± 0.5			ANGULAR ± 0.5°			
OVER 10000 TO 20000 ± 0.5			SURFACE FINISH			
OVER 20000 TO 30000 ± 0.5			ANGULAR ± 0.5°			
OVER 30000 TO 50000 ± 0.5			SURFACE FINISH			
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OVER 30000000000000000000000000000000000 TO 50000000000000000000000000000000000 ± 0.5			SURFACE FINISH			
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OVER 3000						

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

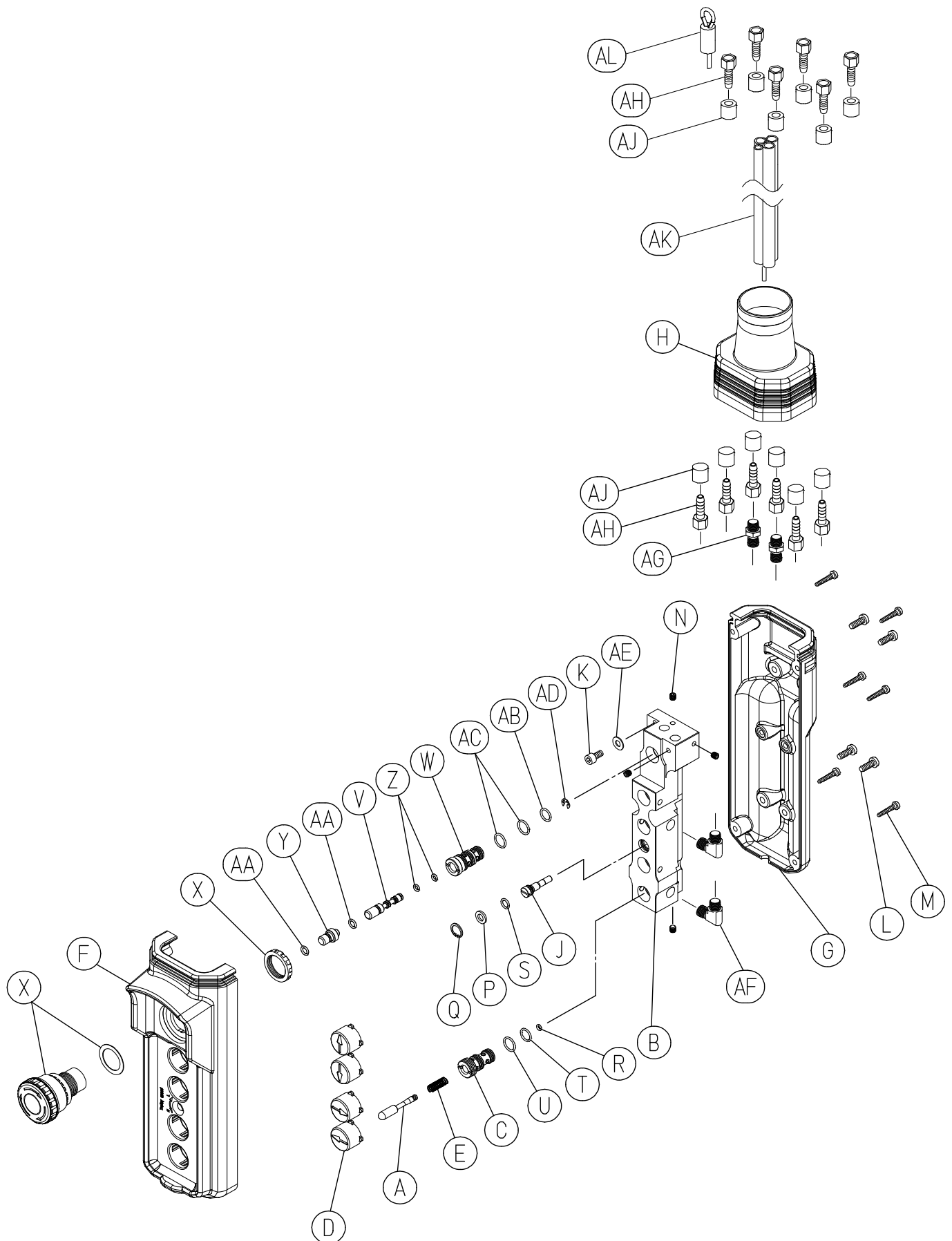


ITEM QTY		PART NUMBER	DESCRIPTION	REV.
1	1	426230061	VALVE BODY	
2	1	136102165	VALVE GASKET	
3	2	130604010	SPRING PIN 4X10	
4	4	131705050	HEX SOCKET HEAD CAP SCREW M5X10	
5	4	137402023	SILENCER (S)	
6	3	132105005	HEX SOCKET SET SCREW M5X5	
7	1	426230080	EXHAUST PLATE	
8	2	131905010	HEX SOCKET BUTTON 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	1	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	
			ANGULAR	
			UP TO 5° ± 0.05°	
			OVER 5° TO 10° ± 0.1°	
			OVER 10° TO 15° ± 0.15°	
			OVER 15° TO 20° ± 0.2°	
			OVER 20° TO 30° ± 0.3°	
			OVER 30° TO 45° ± 0.5°	
			ANGULAR ± 0.5°	
			SURFACE ROUGHNESS	
			IF IN DOUBT ASK	

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



PARTS LIST			REV.	
ITEM QTY	PART NUMBER	DESCRIPTION	DATE	REV.
1	2	HOOK CASE		
2	2	BEARING 6302ZZ		
3	1	FREE CHAIN WHEEL		
4	2	HEX SOCKET HEAD CAP SCREW M6x35		
5	2	U-NUT M6		
6	1	SWIVEL HOOK OUTER RACE		
7	8	STEEL BALL 5/16		
8	1	SWIVEL HOOK PLUG		
9	1	HOOK SPRING		
10	1	HOOK SAFETY CLAW		
11	1	HEX SOCKET HEAD CAP SCREW M5x35		
12	1	U-NUT M5		
13	1	SWIVEL HOOK		
SCALE	MATERIAL	TITLE OF PART	PART NUMBER	
NTS	(SEE DIMENSIONS)	BOTTOM BLOCK	TCS-980 BB 1 / 1 / 1	
DESIGNED BY	R. THWEK	DATE	21/01/2022	
DRAWN BY	R. THWEK	REVISION	WEIGHT	2.9 KG
CHECKED BY	G. KRUMPHAL	REPLACES DRAWING		
APPROVED BY	B. ATTEN	-		
SHEET SIZE		PROFILE NUMBER		
A3		-		
		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 TO 200 ± 0.5		
		ANGULAR ± 0.5°		
		SURFACE ROUGHNESS		
		IF IN DOUBT ASK		



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