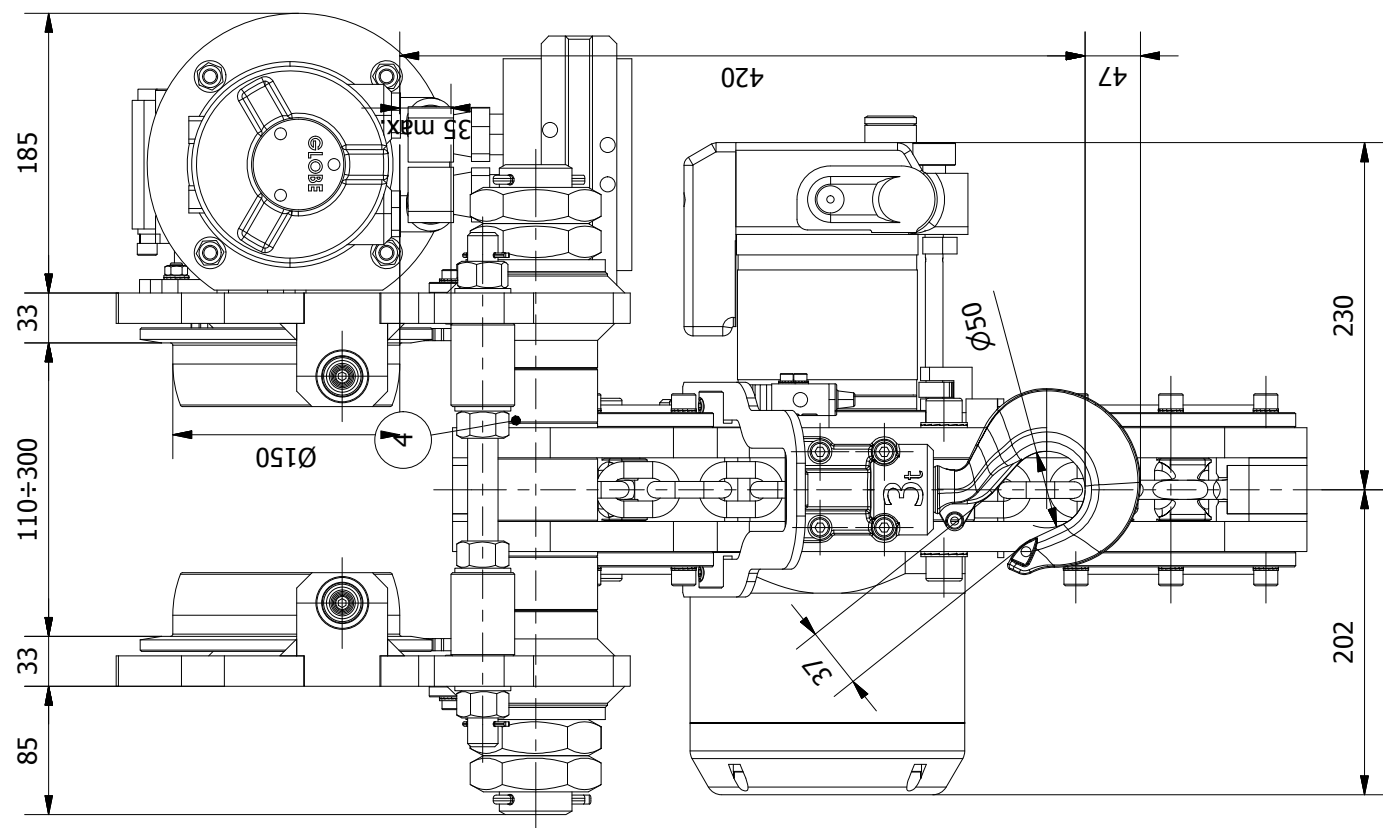
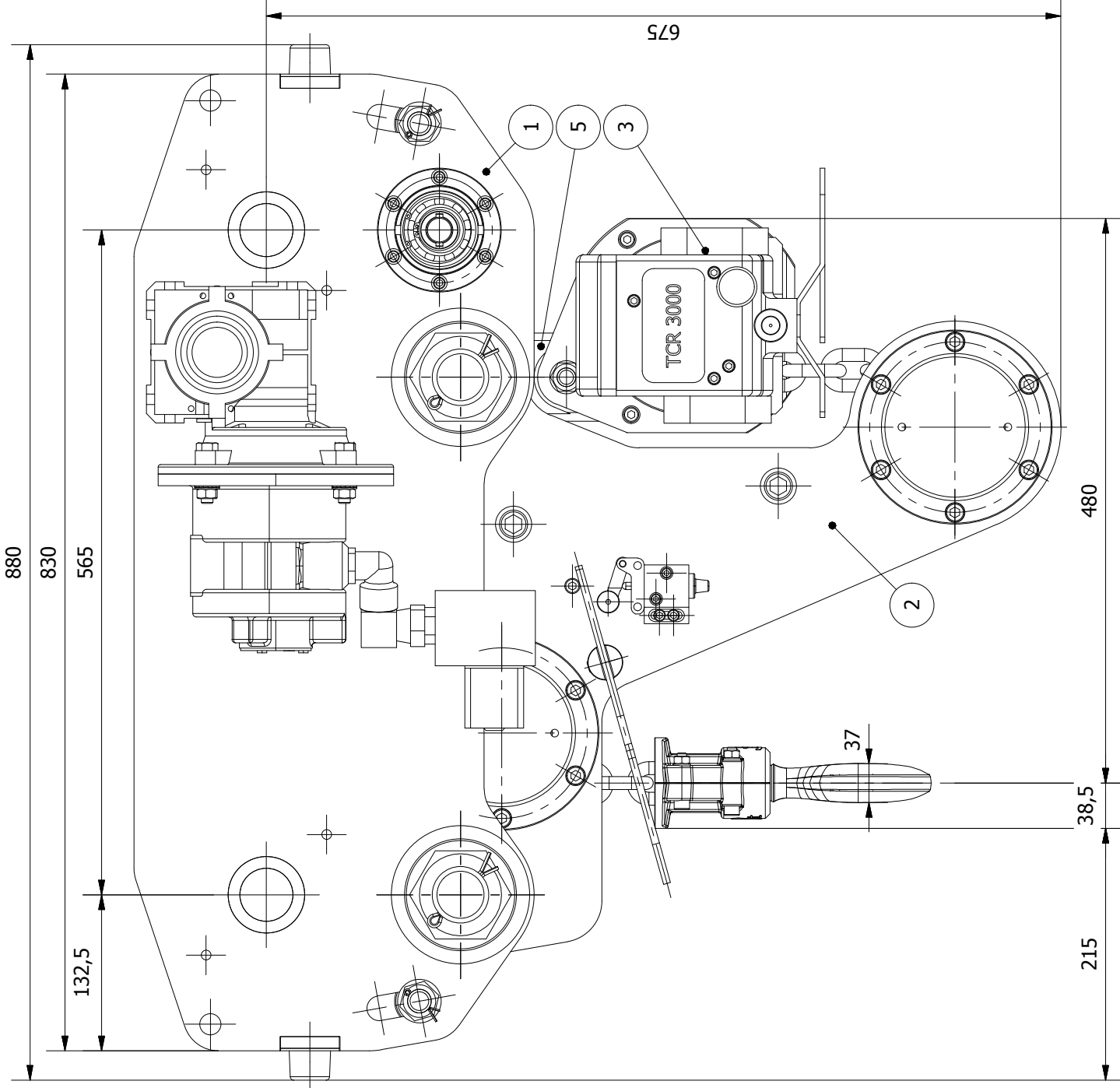




ITEM	QTY	PART NUMBER	DESCRIPTION	REV.	Title of project					Date	Material	Weight
					3TE Low Headroom					2014-11-03	-	305kg
1	1	DRG 1550-01	Trolley	0	Designed by	T. Mikołajewski					red rooster Red Rooster Industrial (UK) Ltd, Nautia House, The Meadows, Oidmedrum, Aberdeenshire, AB51 0EZ Tel: +44(0)1651 872101 Main Fax: +44(0)1651 872098 Sales Fax: +44(0)1651 871405 www.rnluk.com	Replaces draw
2	1	DRG 1530-01	Low Headroom Frame	0	Checked by	Summa	S. Przygoda	Date	Signature			Revision number
3	1	TCR 3000	Air Hoist	0	Approved by	B. Aitken						0
4	1	DRG 1528-29	Spacer	0	Scale	Title of part			Part number			
5	1	DRG 1528-26	Hoist Link	0	1:5			General Assembly			DRG 1550-00	

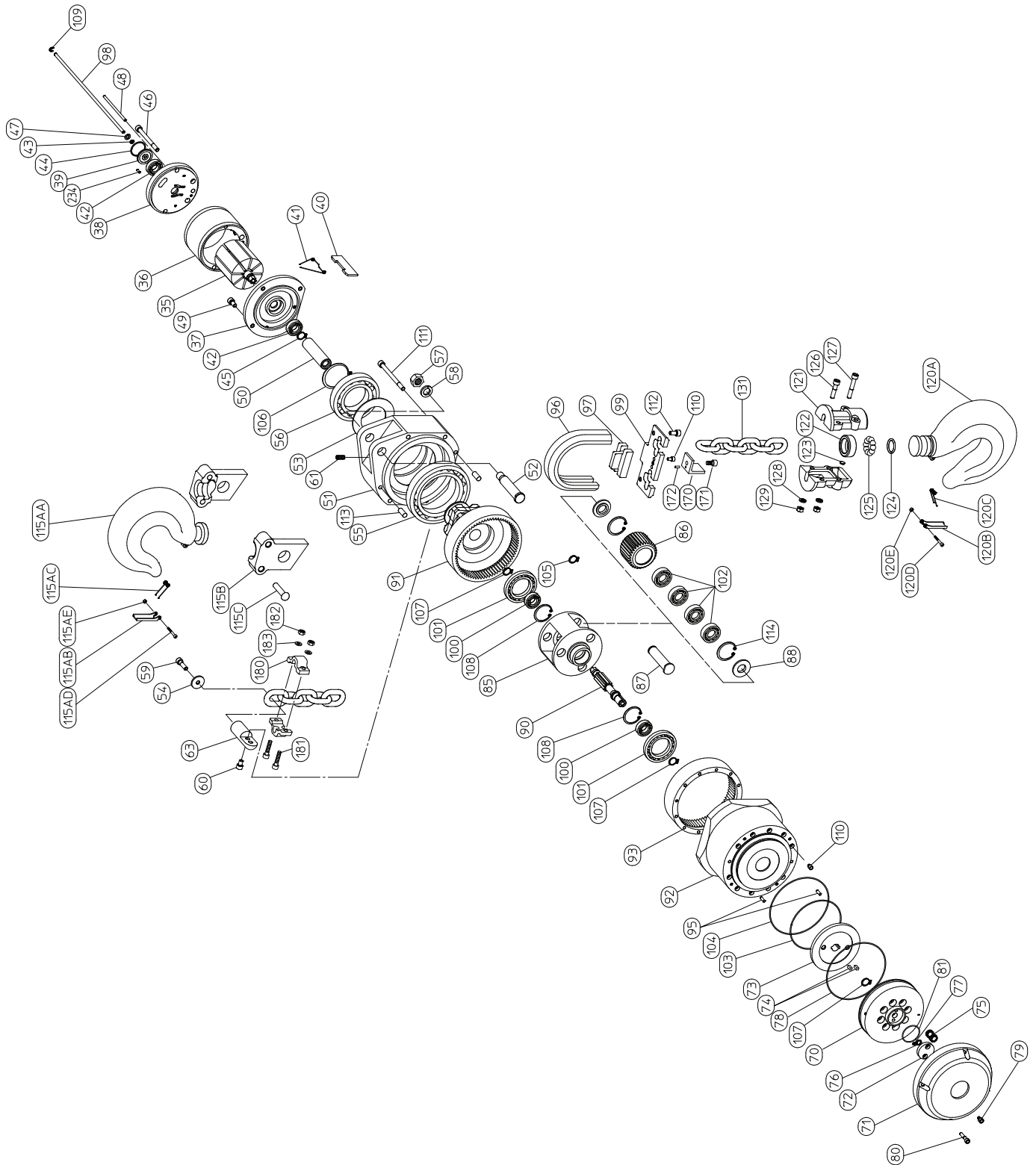


Fig. No.	Part Number	Part Name	Parts Per Hoist
035	426325150	ROTOR	1
036	426325160	STATOR	1
037	426325170	FRONT PLATE	1
038	426325180	REAR PLATE	1
039	426325190	REAR RETAINER	1
040	137102122	VANE	8
041	130802212	LIFT SPRING	8
042	130104004	BEARING 6003	2
043	131103004	O-RING S-6	1
044	131103026	O-RING S-32	1
045	130302017	RETAINING RING S-17	1
046	131708105	HEX SOCKET HEAD CAP SCREW M8X105	3
047	131307006	WASHER M6	1
048	130402054	KNOCK PIN	1
049	131708012	HEX SOCKET HEAD CAP SCREW M8X12	4
050	426325200	COUPLING	1
051	426324212	WHEEL HOUSING	1
052	426325220	HANGER PIN	1
053	426325230	SPACER	1
054	420875MN0	CHAIN END SET WASHER	1
055	130104019	BEARING 6019	1
056	130107013	BEARING 6212	1
057	134501016	U-NUT M16	1
058	131301016	SPRING WASHER M16	1
059	131708030	HEX SOCKET HEAD CAP SCREW M8X30	1
060	131708012	HEX SOCKET HEAD CAP SCREW M8X12	2
061	132108020	HEX SOCKET SET SCREW M8X20	1
063	426325730	SET PIECE	1
070	426325400	BRAKE PISTON	1
071	426325410	BRAKE COVER	1
072	426325420	PISTON COVER	1
073	426325430	BRAKE DISC	1
074	130408084	KEY	2
075	130802213	DISC SPRING	6
076	131103008	O-RING S-10	1
077	131101004	O-RING P-6	1
078	131103063	O-RING S-135	1
079	131706012	HEX SOCKET HEAD CAP SCREW M6X12	2
080	131706030	HEX SOCKET HEAD CAP SCREW M6X30	4
081	131117030	O-RING AS568-030	1
085	426325240	CAGE	1
086	426325250	STAR GEAR	3
087	426325260	PIN	3
088	426325270	THRUST COLLAR	6
090	426325290	PINION	1
091	426325300	WHEEL	1
092	426325310	GEAR CASE	1
093	426325320	RING GEAR	1
095	426325340	DOWEL PIN	4
096	426325351	CHAIN GUIDE	1
097	426325360	CHAIN SEPARATOR	1

Fig. No.	Part Number	Part Name	Parts Per Hoist
098	426325380	BRAKE TUBE	1
099	426325371	BOTTOM PLATE	1
100	130104004	BEARING 6003	2
101	130104010	BEARING 6009	2
102	130104005	BEARING 6004	12
103	131103058	O-RING S-115	1
104	131103063	O-RING S-135	1
105	130302020	RETAINING RING S-20	3
106	130302060	RETAINING RING S-60	1
107	130302017	RETAINING RING S-17	3
108	130301035	RETAINING RING H-35	2
109	130303005	RETAINING RING E-5	1
110	131706012	HEX SOCKET HEAD CAP SCREW M6X12	12
111	131708080	HEX SOCKET HEAD CAP SCREW M8X80	4
112	131708016	HEX SOCKET HEAD CAP SCREW M8X16	2
113	130406028	PARALLEL PIN 10X23	2
114	130301042	RETAINING RING H-42	6
115	42632557F	HOOK CP	1
115A	420655PAE	HOOK (W/SAFETY CLAW)	1
115AA	420655PF1	HOOK	1
115AB	420655P11	HOOK SAFETY CLAW	1
115AC	130802046	HOOK SPRING	1
115AD	131704028	HEX SOCKET HEAD CAP SCREW M4X28	1
115AE	134501004	U-NUT M4	1
115B	426325570	HOOK END PIECE	1
115C	133208035	RIVET 8X35	2
120	420875PAE	SWIVEL HOOK (W/SAFETYCLAW)	1
120A	420875PC1	SWIVEL UNDER HOOK	1
120B	420655P11	HOOK SAFETY CLAW	1
120C	130802046	HOOK SPRING	1
120D	131704028	HEX SOCKET HEAD CAP SCREW M4X28	1
120E	134501004	U-NUT M4	1
121	420875PZ1	SWIVEL HOOK JOINT	1
122	420875PW0	SWIVEL HOOK OUTER RACE	1
123	420875PY0	SWIVEL HOOK PLUG	1
124	131101025	O-RING P-25.5	1
125	130502024	STEEL BALL 3/8	10
126	131708035	HEX SOCKET HEAD CAP SCREW M8X35	2
127	131708050	HEX SOCKET HEAD CAP SCREW M8X50	2
128	131301008	SPRING WASHER M8	4
129	134501008	U-NUT M8	4
131	AHC112/80	LINK CHAIN 11.2mm	HOL
170	426325C90	STAY	1
171	131708015	HEX SOCKET HEAD CAP SCREW M8X15	1
172	130604010	SPRING PIN 4X10	1
180	420645JF0	CHAIN DOWN STOPPER	2
181	131708035	HEX SOCKET HEAD CAP SCREW M8X35	2
182	134401008	HEX NUT M8	2
183	131301008	SPRING WASHER M8	2
234	130406005	PARALLEL PIN 4X10 (H7)	2

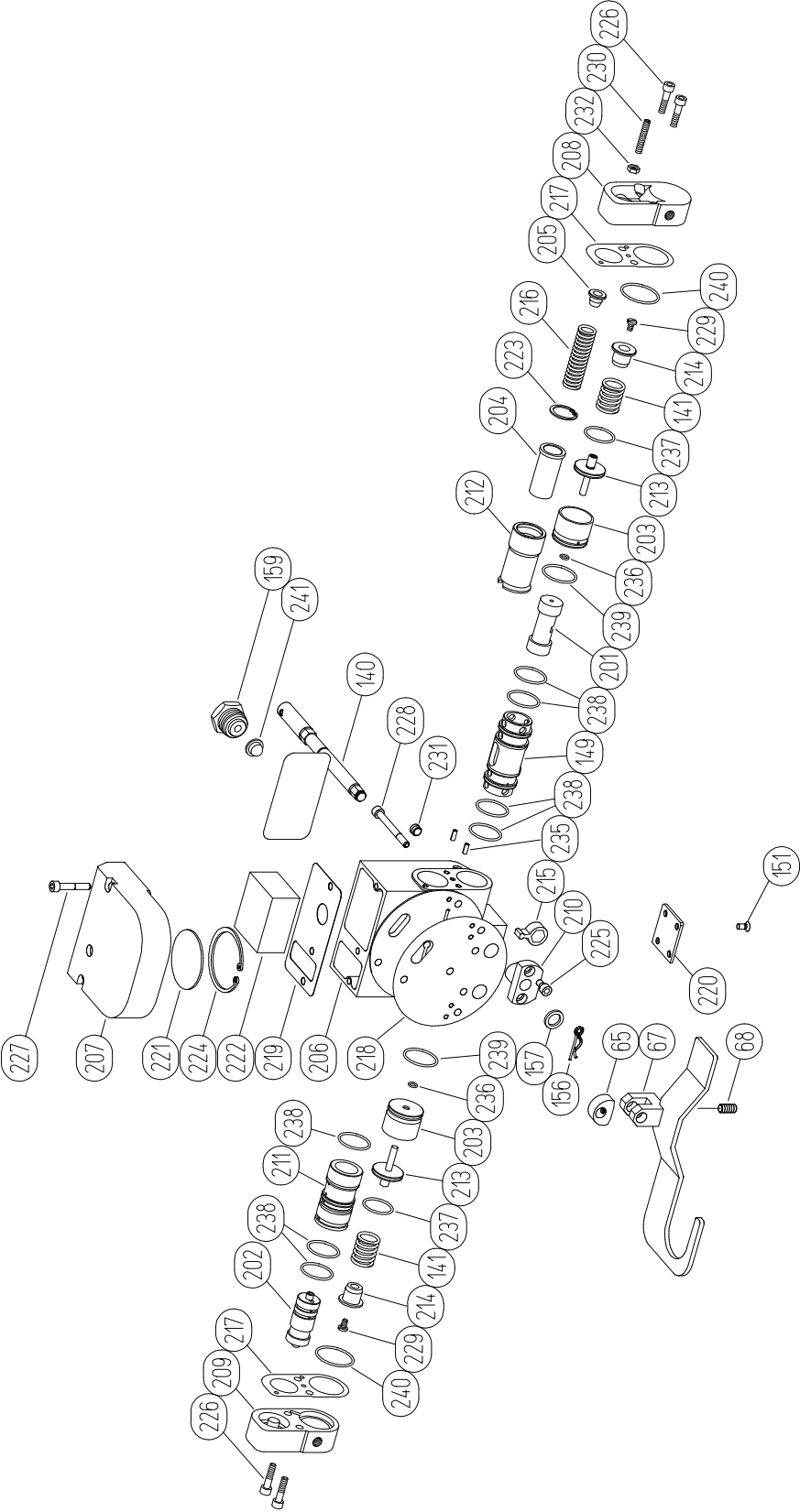
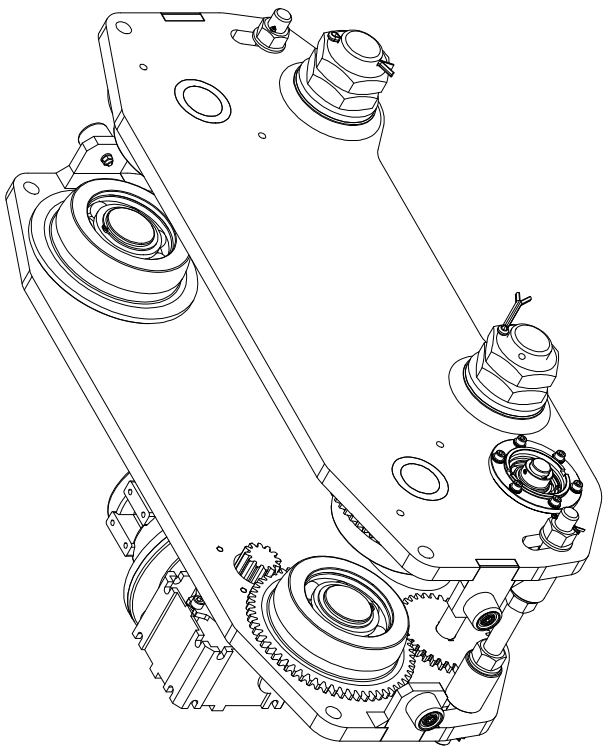
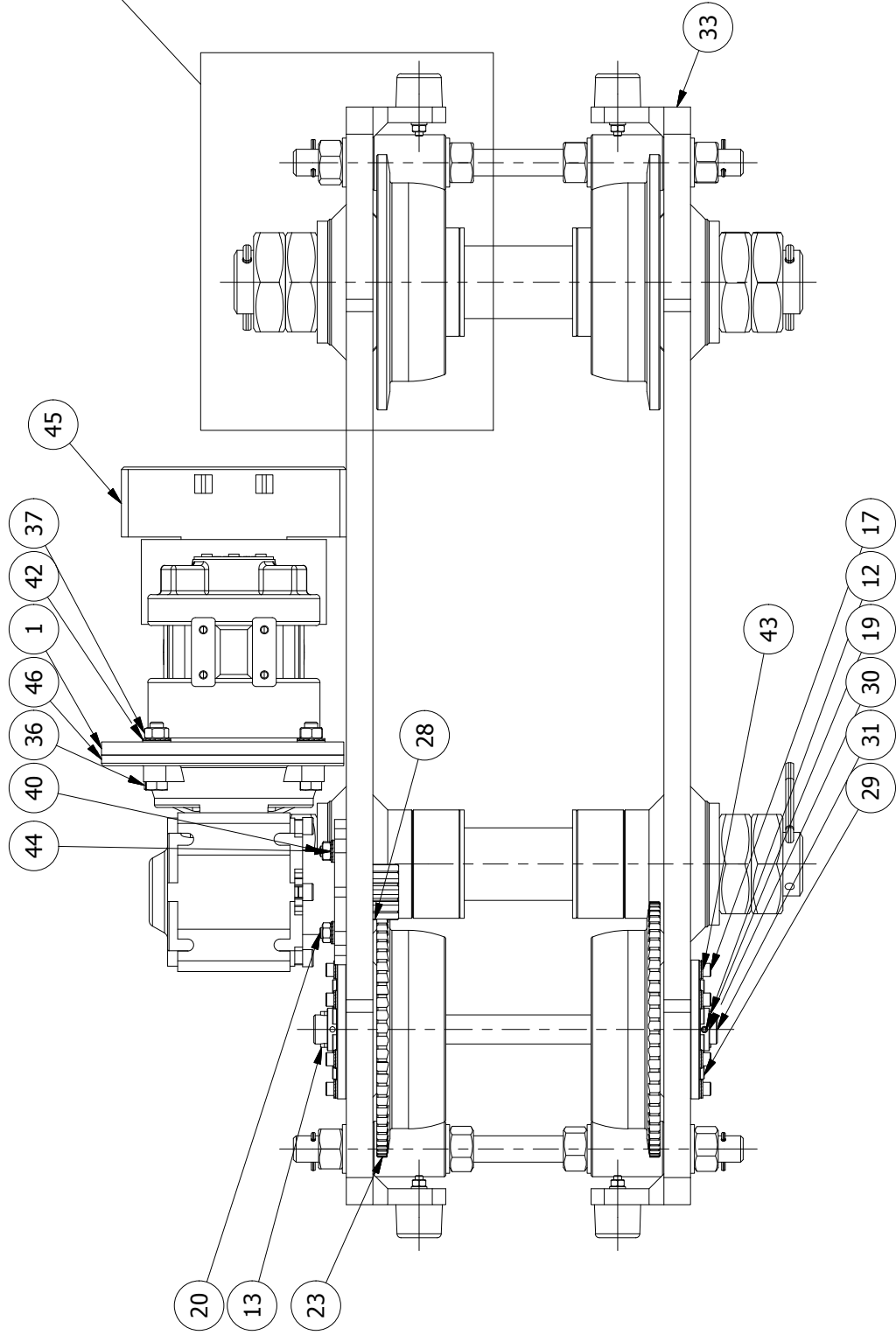
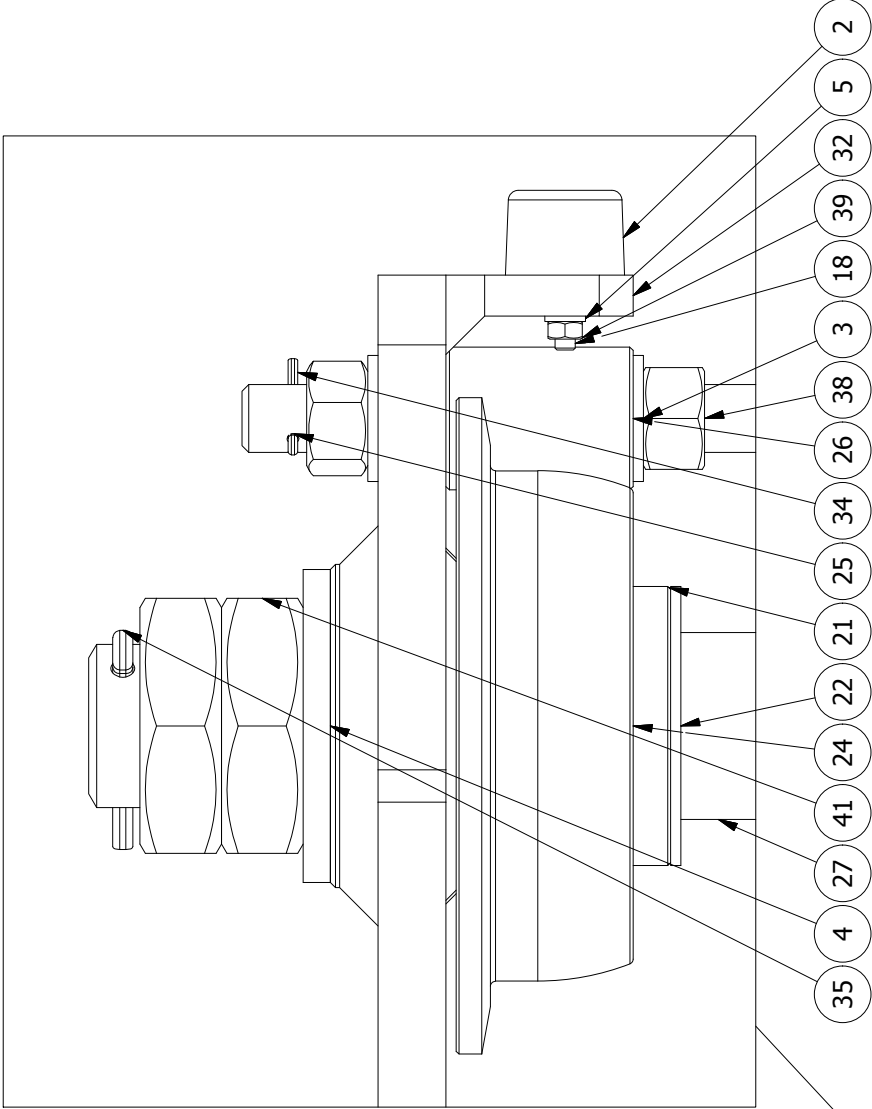
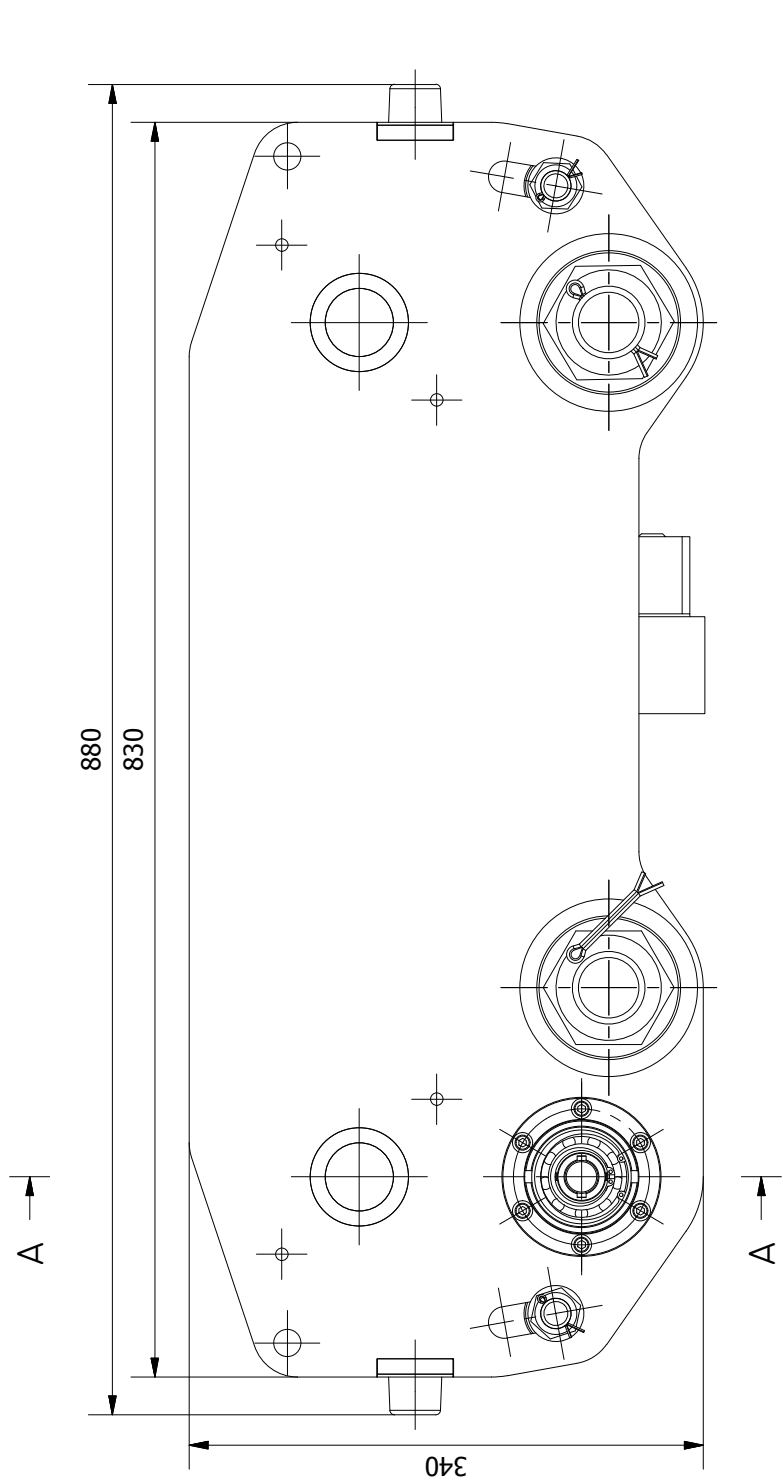


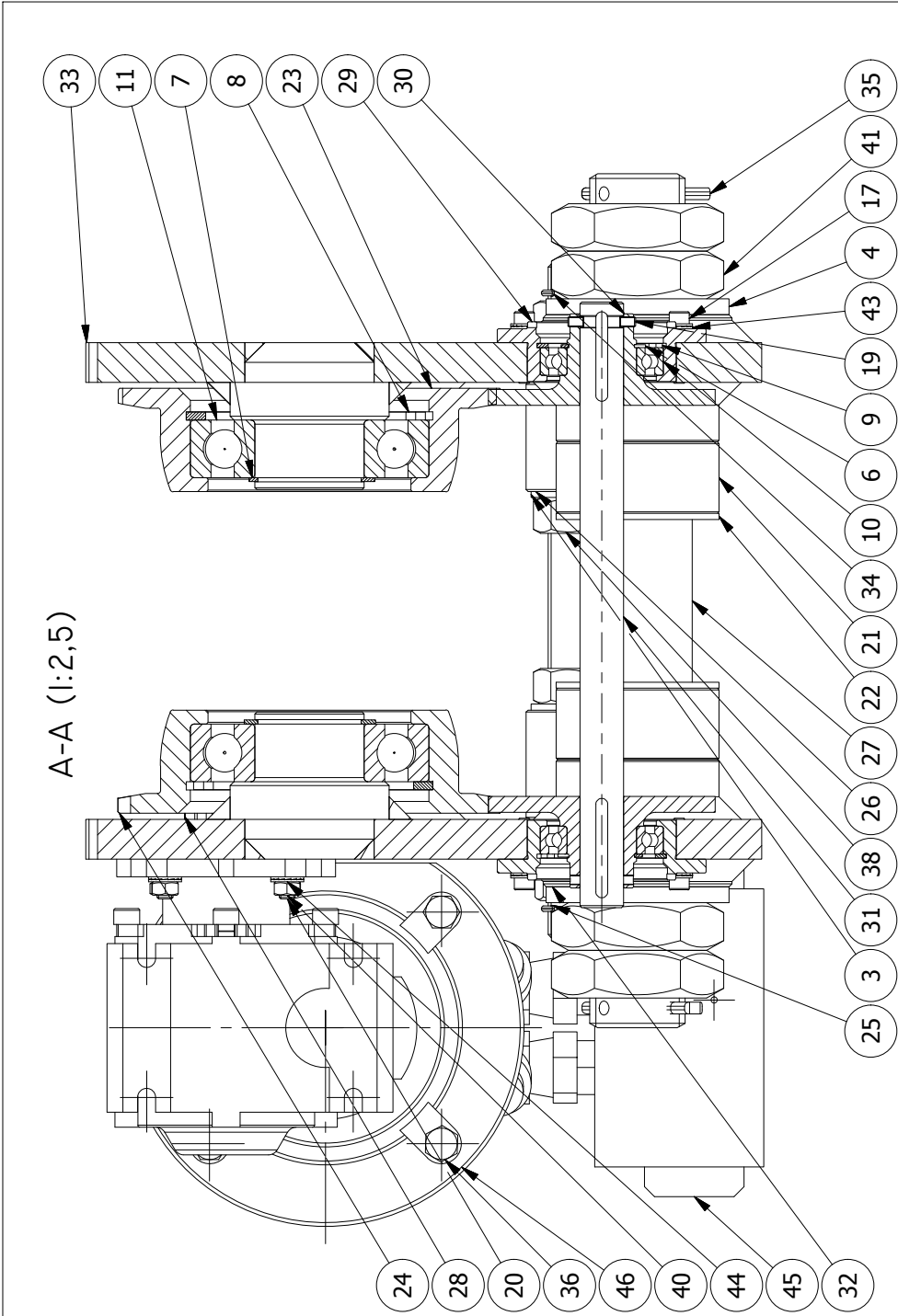
Fig. No.	Part Number	Part Name	Parts Per Hoist
065	426325740	CAM	1
067	426325113	CHAIN LEVER	1
068	132108008	HEX SOCKET SET SCREW M8X8	1
140	426326461	LIMIT SHAFT	1
141	130802217	SPRING 19.5X25X2.6	2
149	426325C30	MAIN BUSHING	1
151	132805010	HEX FLAT HEAD MACHINE SCREW M5X10	4
156	130790012	SNAP PIN 12	1
157	426325750	WASHER	1
159	134703070	INLET BUSHING	1
201	426224013	MAIN SPOOL	1
202	426224021	BRAKE SPOOL	1
203	426224C20	SPOOL CYLINDER	2
204	426224041	BRAKE RETAINER	1
205	426224051	BRAKE NUT	1
206	426224063	VALVE BODY	1
207	426224070	TOP COVER	1
208	426224083	SIDE COVER (L)	1
209	426224093	SIDE COVER (R)	1
210	426224101	LIMIT GUIDE	1
211	426224C40	BRAKE BUSHING	1
212	426224C50	LIMIT BUSHING	1
213	426224C60	SPOOL PISTON	2
214	426224C70	SPRING SEAT	2
215	426224140	LIMIT LEVER	1
216	130802216	SPRING 15X59X2.4	1
217	136102164	SIDE PACKING (N)	2
218	136102161	VALVE PACKING	1
219	136102192	TOP PACKING	1
220	136102163	UNDER PACKING	1
221	137402030	EXHAUST SILENCER	1
222	137402031	NYLON SILENCER	1
223	130301025	RETAINING RING H-25	1
224	130301058	RETAINING RING H-58	1
225	131706012	HEX SOCKET HEAD CAP SCREW M6X12	2
226	131706025	HEX SOCKET HEAD CAP SCREW M6X25	4
227	131706040	HEX SOCKET HEAD CAP SCREW M6X40	3
228	131706060	HEX SOCKET HEAD CAP SCREW M6X60	3
229	132405008	CROSS-RECESSED HEAD MACHINE SCREW M5X8	2
230	132306035	HEX SOCKET SET SCREW M6X35	1
231	134902003	HEX SOCKET PIP PLUG 1/8	1
232	134403006	HEX NUT M6	1
235	130604010	SPRING PIN 4X10	2
236	131103004	O-RING S-6	2
237	131103021	O-RING S-26	2
238	131103022	O-RING S-28	7
239	131103024	O-RING S-30	2

Fig. No.	Part Number	Part Name	Parts Per Hoist
240	131103027	O-RING S-34	2
241	136803032	1/2 NET SCREEN	1

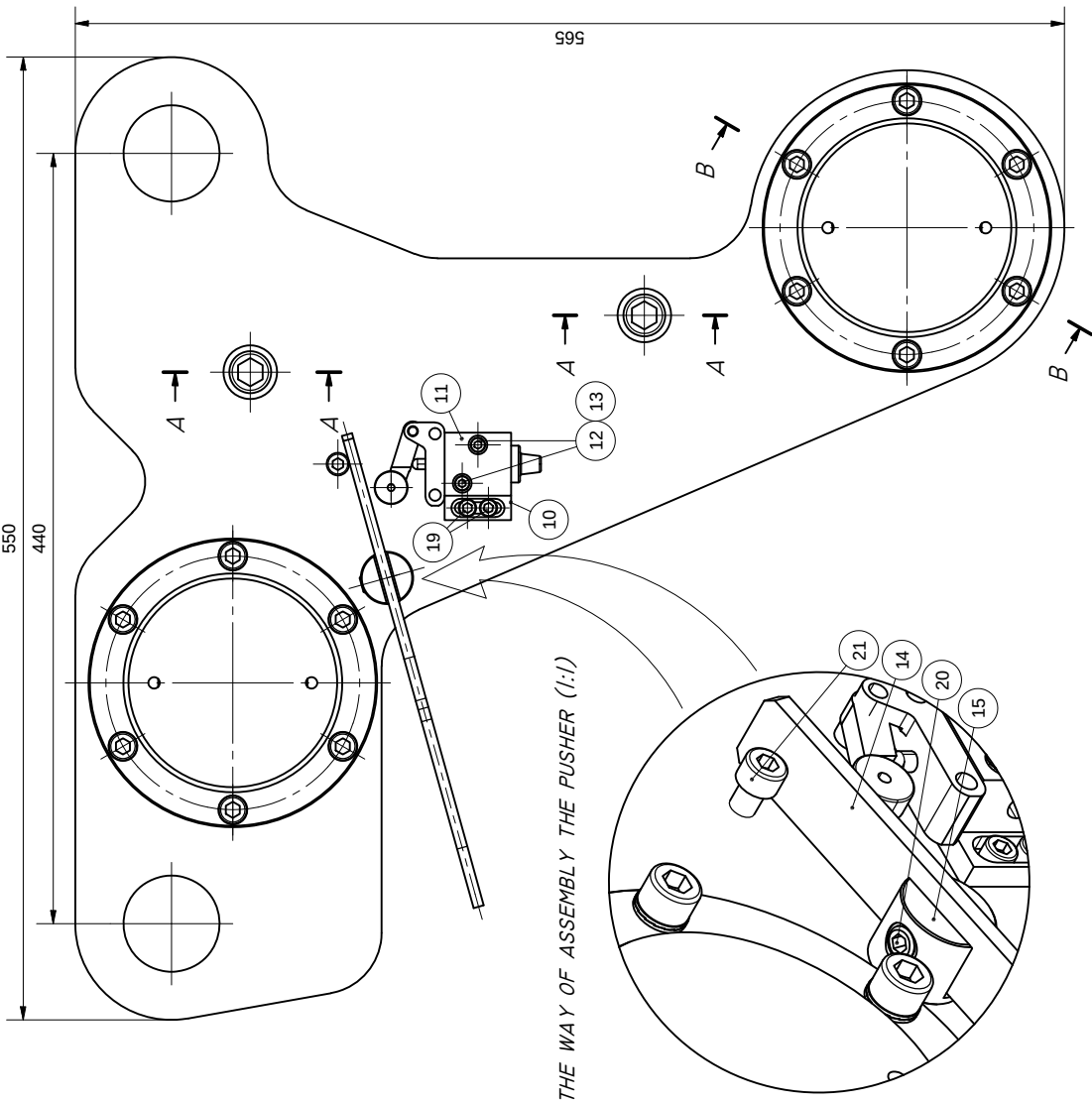


Title of project 3TE Low Headroom		Date 2014-11-03	Material -	Weight 160kg
Designed by T. Mikołajewski	Signature	 red rooster Red Rooster Industrial (UK) Ltd, Nauria House, The Meadows, Oldmeldrum, Aberdeenshire, AB51 0EZ Tel: +44(0)1651 872101 Main Fax: +44(0)1651 872098 Sales Fax: +44(0)1651 871405 www.rnik.com		
Checked by S. Przygoda	Date			
Approved by B. Aitken				
Scale 1:5	Title of part Trolley			Part number DRG 1550-01 sheet 1/2
		Replaces draw -		Revision number 0

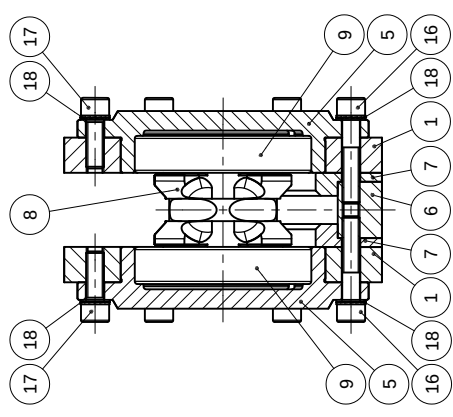
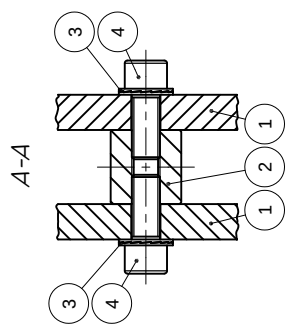
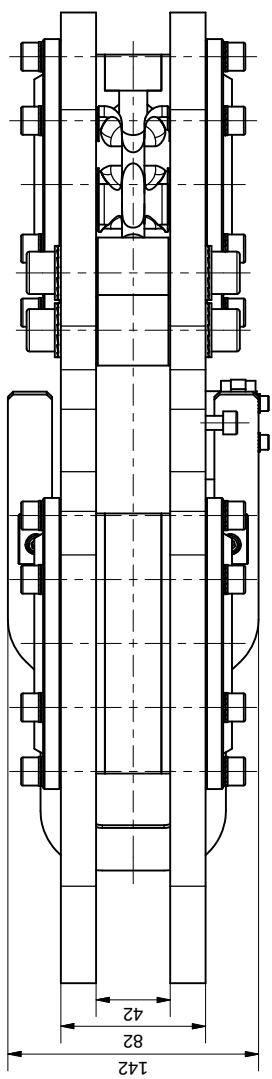
ITEM	QTY	PART NUMBER	DESCRIPTION	REV.
1	1		Air Motor GLOBE V56C	0
2	4		Buffer	0
3	8	DIN 125 - A 21	Washer	
4	4	DIN 125 - A 52	Washer	
5	4	DIN 125 - A 6,4	Washer	
6	2	DIN 471 - 35x1,5	Retaining rings for shaft	
7	4	DIN 471 - 55 x 2		
8	4	DIN 472 - 120 x 4		
9	2	DIN 472 - 62 x 2		
10	2	DIN 625 SKF - SKF 6007-2Z	Deep groove ball bearings single row with two Z shields SKF	
11	4	DIN 625 SKF - SKF 6311-2Z	Deep groove ball bearings single row with two Z shields SKF	
12	2	DIN 6885 - A 6 x 6 x 45	Parallel Key	
13	2	DIN 6885 - A 6 x 6 x 50	Parallel Key	
14	1	DIN 6885 - A 8 x 7 x 70	Parallel Key	
15	1	DIN 9021 - 10,5	Washer	
16	1	DIN 912 - M10 x 30	Cylinder Head Cap Screw	
17	12	DIN 912 - M6 x 30	Cylinder Head Cap Screw	
18	4	DIN 912 - M6 x 40	Cylinder Head Cap Screw	
19	2	DIN 913 - M5 x 8	Hexagon Socket Set Screw	
20	4	DIN 913 - M8 x 40	Hexagon Socket Set Screw	
21	depends on the Flange	DRG 1503-09	Spacer	0
22	depends on the Flange	DRG 1503-10	Spacer Washer	0
23	2	DRG 1503-11	Gear Wheel	0
24	2	DRG 1503-12	Plain Wheel	0
25	2	DRG 1503-13	Tie Rod	0
26	4	DRG 1503-14	Anti Tip Roller	0
27	2	DRG 1503-15 or DRG 1503-16 or DRG 1503-17	Load Bar (Range I - Flange 110÷180mm) Load Bar (Range II - Flange 180÷240mm) Load Bar (Range III - Flange 240÷300mm)	0 0 0
28	1	DRG 1503-25	Pinion Shaft (for Gearbox Bonfiglioli)	0
29	2	DRG 1528-20	Transfer Gearwheel Holder	0
30	2	DRG 1528-21	Transfer Gearwheel	0
31	1	DRG 1528-22	Transfer Shaft	0
32	1	DRG 1550-02	Side Plate - left	0
33	1	DRG 1550-03	Side Plate - right	0
34	4	ISO 1234 - 3,2 x 28	Split Pin	
35	4	ISO 1234 - 6,3 x 63	Split Pin	
36	4	ISO 4018 - M10 x 45	Śruba z łbem sześciokątnym	
37	4	ISO 4032 - M10	Hex Nut	
38	8	ISO 4032 - M20	Hex Nut	
39	4	ISO 4032 - M6	Hex Nut	
40	4	ISO 4032 - M8	Hex Nut	
41	8	ISO 4035 - M48	Hex Nut	
42	4	NL10sp	M10 NordLock Washer Large Diameter Glued Pair	0
43	12	NL6sp	M6 NordLock Washer Large Diameter Glued Pair	0
44	4	NL8sp	M8 NordLock Washer Large Diameter Glued Pair	0
45	1	Pilot Valve and Silencers		0
46	1	SK1S150-AFH-IEC-80-2G (ratio 30-1) R	NORD Gearbox	0



Title of project 3TE Low Headroom				Date 2014-11-03	Material -	Weight 160kg
Designed by T. Mikołajewski				red rooster Red Rooster Industrial (UK) Ltd, Nauria House, The Meadows, Oldmeldrum, Aberdeenshire, AB51 0EZ Tel: +44(0)1651 872101 Main Fax: +44(0)1651 872098 Sales Fax: +44(0)1651 871405 www.rnik.com		
Checked by S. Przygoda		Signature				
Approved by B. Aitken		Date				
Scale 1:5	Title of part Trolley			Part number DRG 1550-01 sheet 2/2	Revision number 0	



THE WAY OF ASSEMBLY THE PUSHER (1:1)



ITEM	QTY	PART NUMBER	DESCRIPTION	REV.
1	2	DRG 1530-02	Low Headroom - Side Plate	0
2	2	DRG 1528-30	Low Headroom Link	0
3	4	NL16sp	M16 NordLock Washer Large	0
4	4	DIN 912 - M16 x 40	Diameter Glued Pair	
5	4	DRG 1528-27	Cylinder Head Cap Screw	0
6	2	DRG 1528-33	Pocket Wheel Holder	0
7	4	DRG 1528-32	Chain Guide II	0
8	2	DRG 1207-01	Chain Guide I	0
9	4	DIN 625 SKF - SKF 6211 - 2Z	Pocket Idler Wheel 11.2 x 34 Chain row with two Z shields SKF	9
10	1	DRG 1525-20	Mounting Plate for Limit Switch	0
11	1	03 0293 02	Limit Switch	0
12	2	DIN 912 - M5 x 30	Cylinder Head Cap Screw	0
13	2	NL5sp	M5 NordLock Washer Large	0
14	1	DRG 1530-03	Diameter Glued Pair	
15	2	DRG 1530-04	Pusher Plate	0
16	8	DIN 912 - M10 x 50	Pusher Stub Axle	0
17	16	DIN 912 - M10 x 30	Cylinder Head Cap Screw	
18	24	NL10	Cylinder Head Cap Screw	
19	2	DIN 912 - M6 x 12	M10 NordLock Washer Glued Pair	0
20	2	DIN 913 - M10 x 12	Cylinder Head Cap Screw	
21	1	DIN 912 - M8 x 25	Hexagon Socket Set Screw	
Title of project		Date	Material	Weight
3TE Low Headroom (Beam Brake)		11/07/2014	-	60kg
Designed by	T. Mikolajewski	Signature	 red rooster Red Rooster Industrial (UK) Ltd, Havala House, The Meadows, Charnock Road, Bolton, GB, Mantel - 44(0)161 872098 Sales - 44(0)161 872099 www.redrooster.com	
Checked by	S. Przygoda	Date		
Approved by	B. Arken	Signature		
Scale	1:2,5	Title of part	Part number	
Low Headroom Frame			DRG 1530-01	
			Replaces draw	
			Revision number	
			0	