

# Take Up Winder

## CONTENTS

<b>INTRODUCTION</b>	<b>3</b>
<b>DESCRIPTION</b>	<b>4</b>
<b>OPERATION</b>	<b>5</b>
SMALL DIAMETER FIBRES	5
LARGE DIAMETER FIBRES (CANES)	5
<b>MAINTENANCE</b>	<b>6</b>
ROUTINE	6
BEFORE EVERY RUN	6
EVERY 3 MONTHS	6
EVERY 6 MONTHS	6

## Introduction

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The Take Up Winder is a Traversing Drum type, fitted with a static eliminator bar and is suitable for use with winding drums up to 0.5m diameter with an overall width of 300mm

The Take Up Winder is suitable for use with both small diameter 'fibres' and larger diameter 'canes'.

The Take Up Winder works on conjunction with a 'nodding arm' type dancer.

(Drawing numbers 380187A, 287576A, 287573A, 380172A, 380264A, 380246A, 380254A, 380261A, 380309A & 380963A refer).

## Description

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Traversing Drum Type Take Up Winder with static eliminator bar suitable for use with winding drums up to 0.5m diameter with an overall width of 300mm.

Note : it is assumed that the standard drum is a Sonoco Crellin type 9808 / 9812 industry standard process spool.

The spools are supported on a 20mm diameter shaft with adaptor cones as needed to accommodate industry standard 25 and 50km shipping spools in addition to the type 9808 / 9812 industry standard process spools referred to above.

The dancer is a two pulley 'nodding arm' type with 150mm diameter pulleys.

Drum traverse allows the winding pitch to be adjusted and automatically maintained as drum speed changes.

## **Operation**

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The winder is automatically operated from the SCADA interface on the tower PC/PLC system and features two modes of operation:#

### **Small Diameter Fibres**

For small diameter fibres the dancer is utilised to control take up speed and winding tension.

### **Large Diameter Fibres**

For larger diameter fibres (canes) the winder can be set to 'torque' mode where the dancer is not used and instead the fibre is wound directly from the capstan onto the winding drum.

A positive speed differential is automatically maintained between the speed of the winding drum and the speed of the capstan. The winder drive train incorporates a special electronically controlled, variable resistance clutch which allows the amount of pulling force that the drum can apply to the fibre to be varied as required for proper layering of the fibre on the drum.

# Maintenance

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## Routine

### Before every start up attempt

Remove any fibre debris from the drum carriage, winder frame and floor area surrounding the winder.

Rotate the drum slowly and check its surface for damage, fibre debris, tape or other contamination. Clean drum surface if required with an alcohol moistened lint-free wipe.

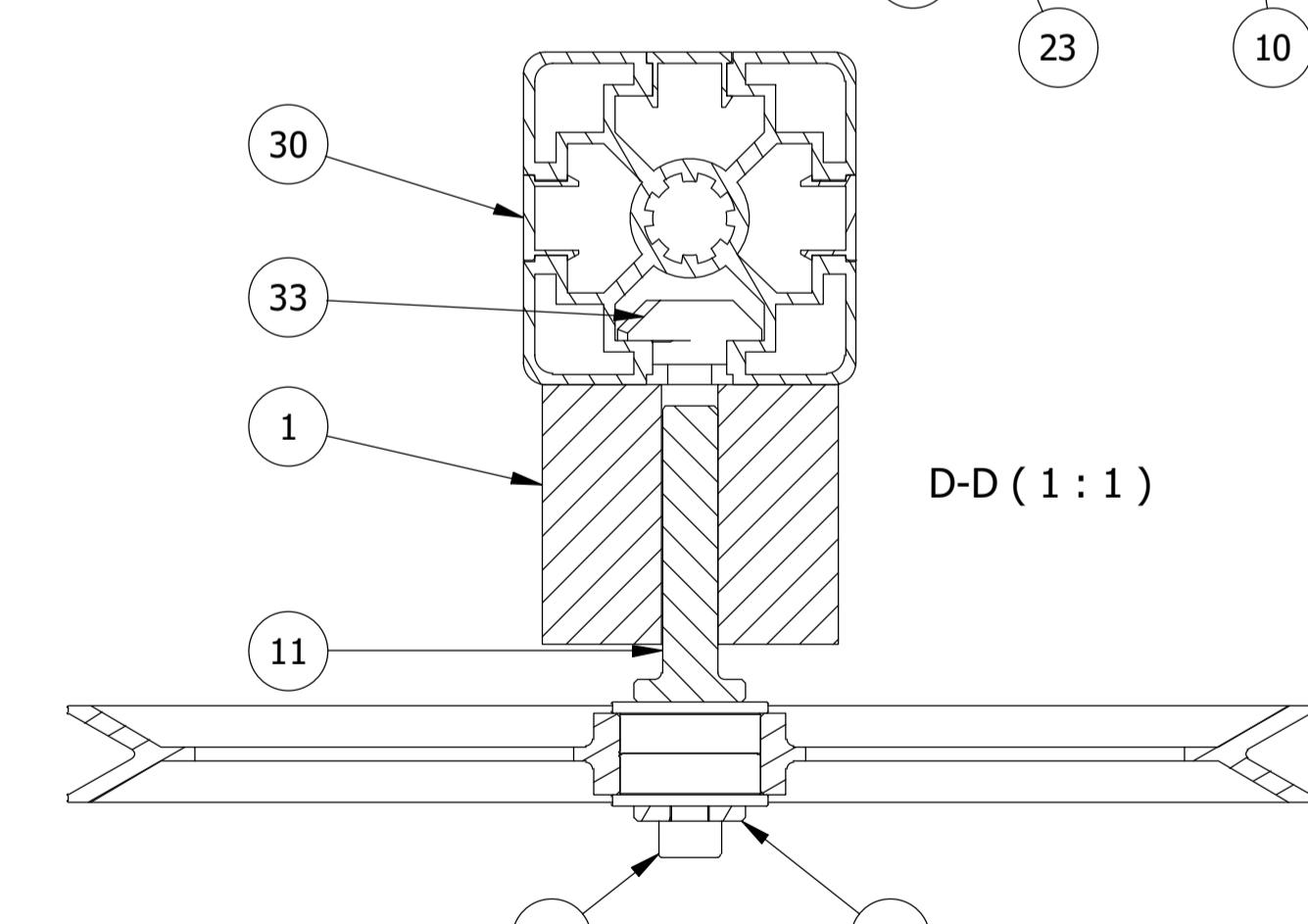
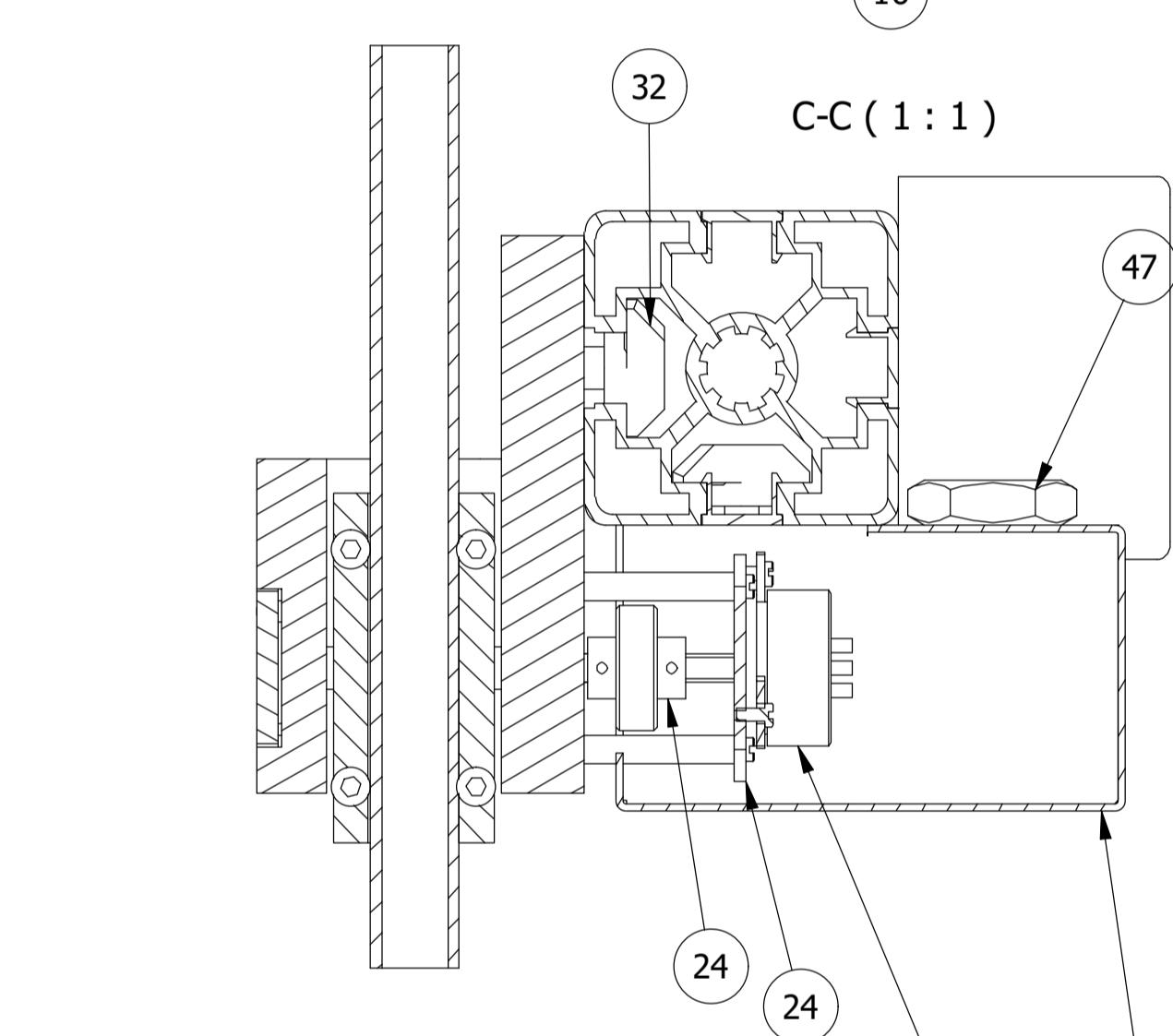
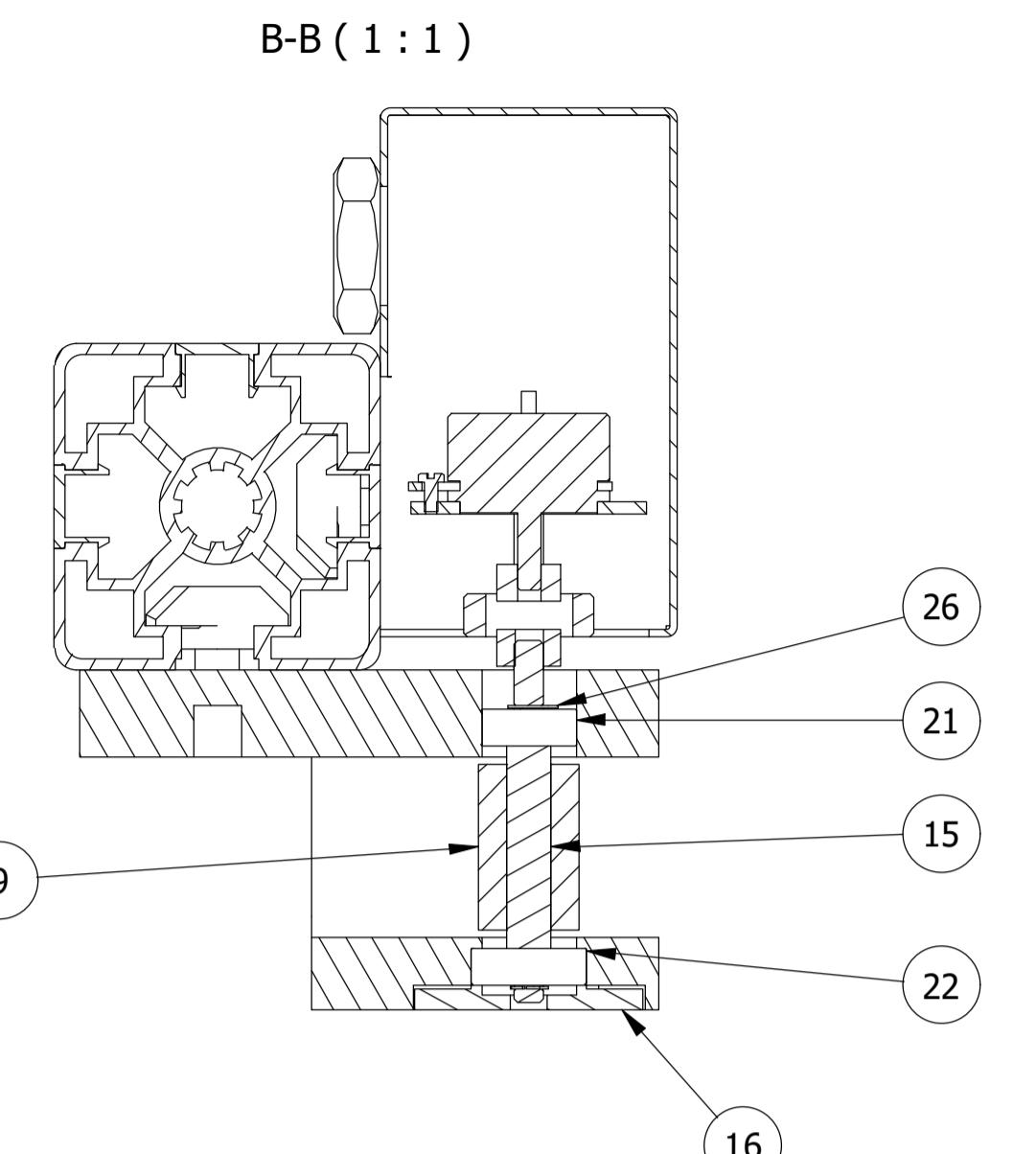
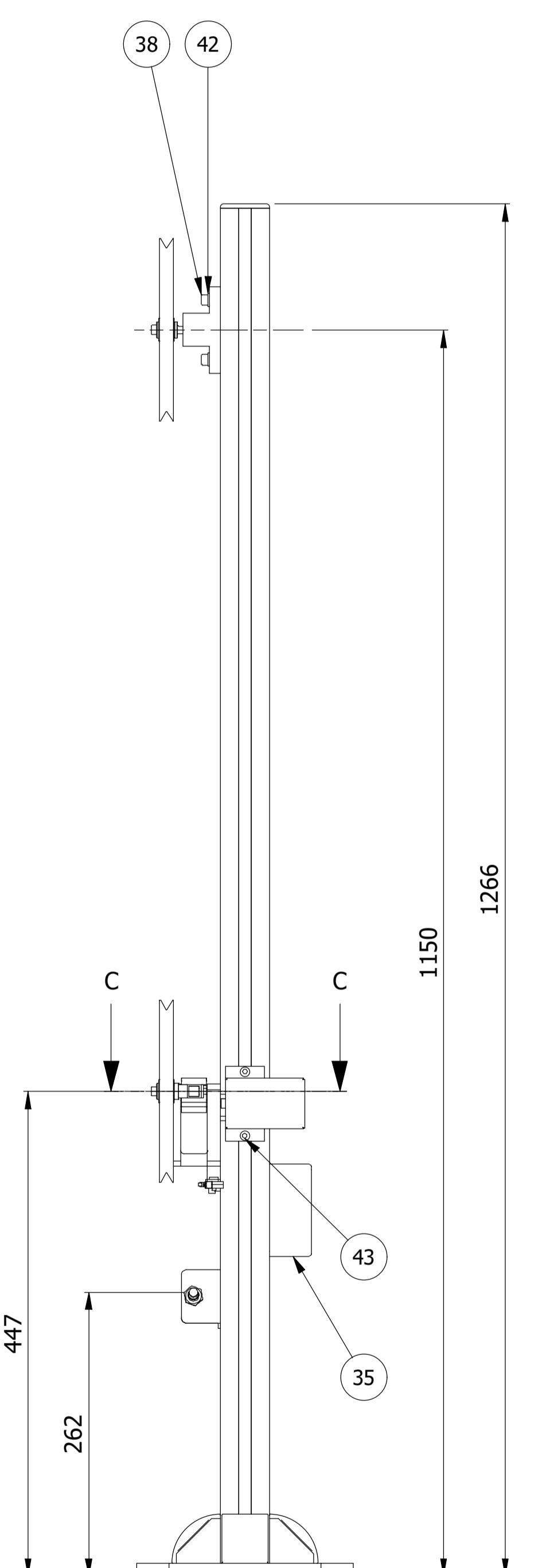
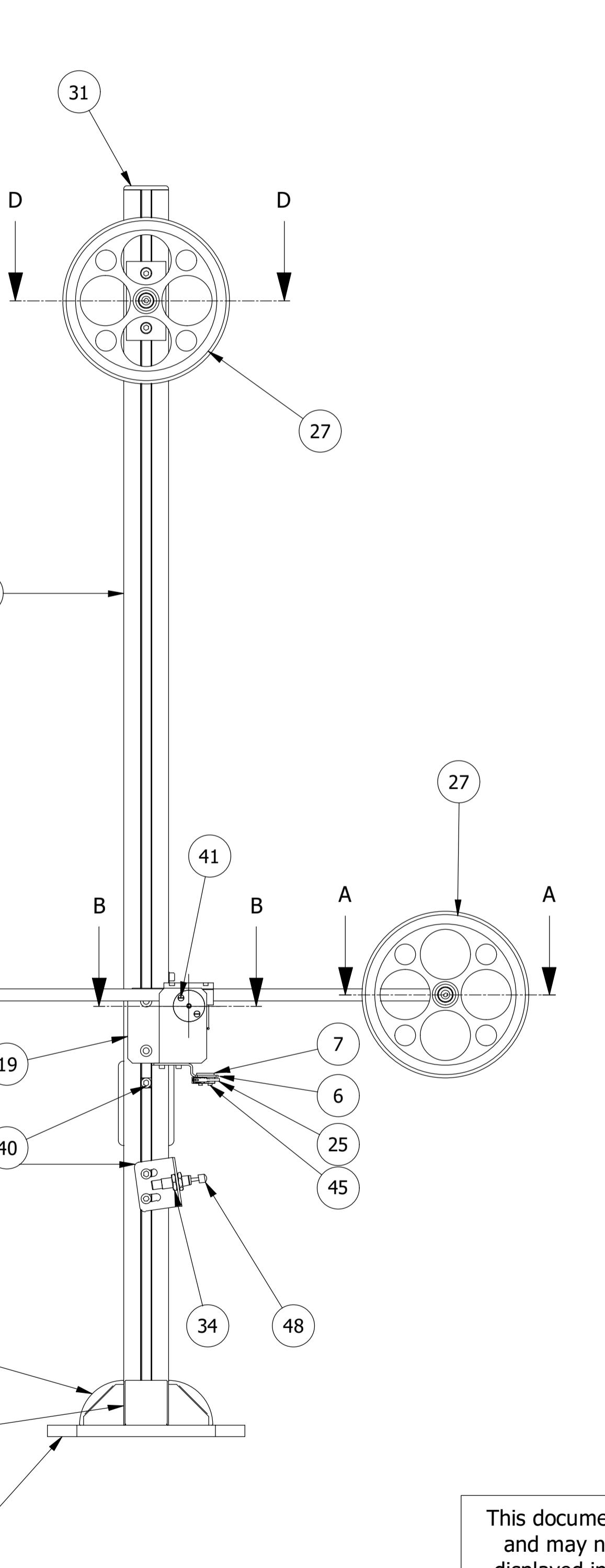
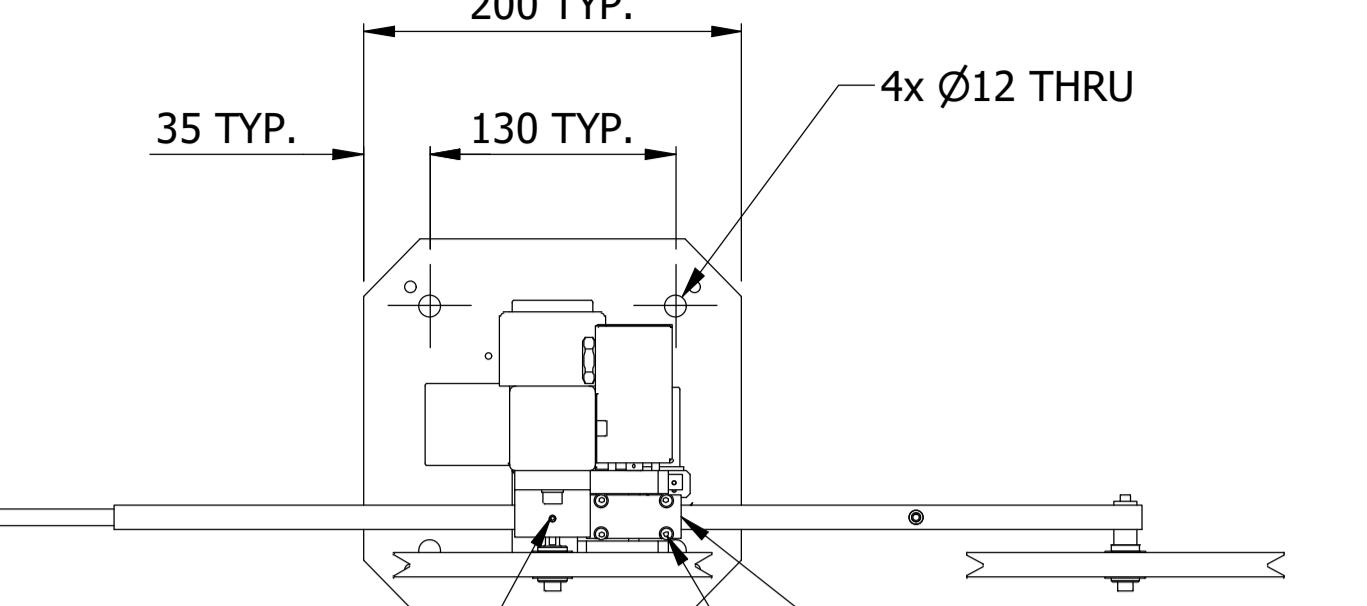
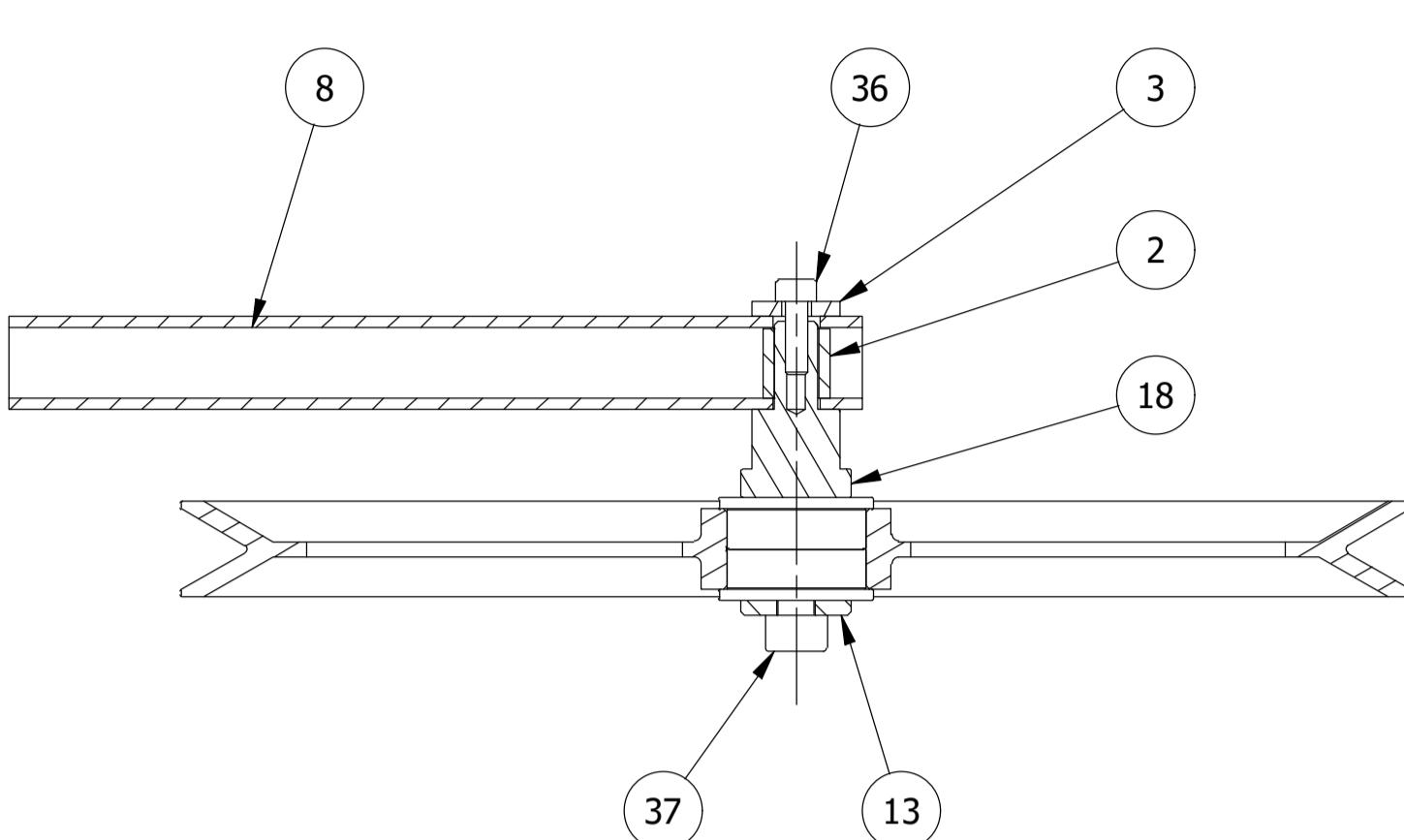
### Every 3 Months

Clean the surface of the rotating shaft with a tissue moistened with alcohol and the apply a MoS<sub>2</sub> free ball bearing grease, e.g. SKF Alfolub LGMT, Shell ALvania R2, G2 Esso Beacon 2 or BP Energrease LS2, using a cloth, spreading it as thinly as possible. Any more than a very thin film is required or it will attract dirt.

Move the drum carriage to one traverse limit and similarly wipe the exposed guide rails. Repeat for the opposite end.

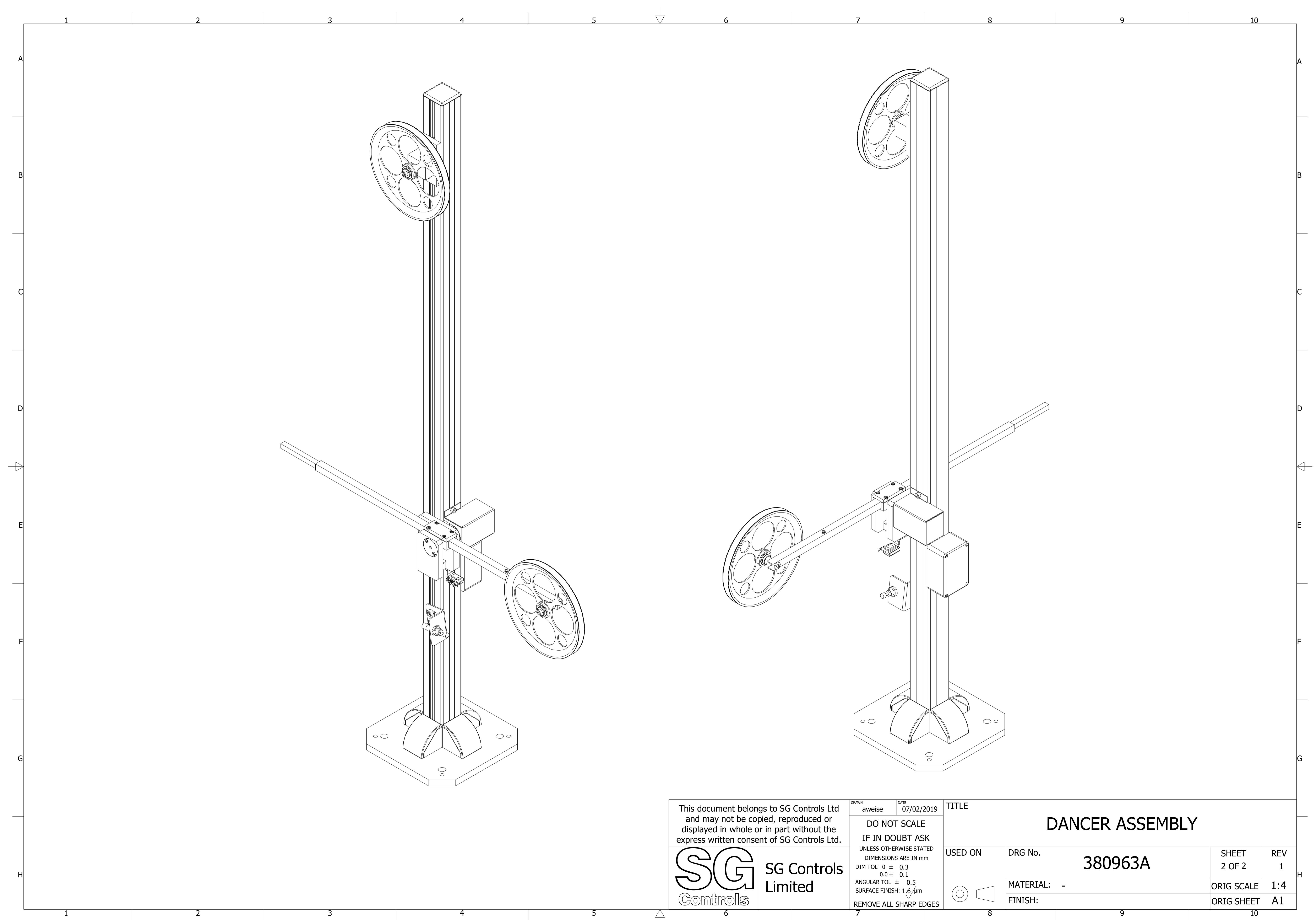
### Every 6 Months

Remove the drive train cover, check belt tension and look for signs of contamination, wear or damage on all components.



SEE SHEET 2 FOR ISOMETRIC VIEWS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	187545	PULLEY MOUNTING BLOCK
2	1	188760	COLLAR
3	1	188761	RETAINING WASHER
4	1	284531	FOOT PLATE
5	1	284532	MOUNTING BRACKET
6	1	284533	MOUNTING BRACKET - MICROSWITCH
7	1	284534	M2 RECT CLAMP WASHER
8	1	284536	NODDING ARM
9	1	284537	HOLDER - NODDING ARM
10	1	284538	POTENTIOMETER COVER
11	1	284539	SPINDLE - GUIDE PULLEY
12	1	284562	CLAMP PLATE
13	2	284565	CLAMP WASHER
14	1	286061	EXTRUSION 45X45X1250
15	1	286085	BEARING SPLINdle
16	1	286086	BEARING RETAINING CAP
17	1	286087	WEIGHT RECTANGULAR
18	1	286093	SPINDLE 10MM
19	1	380962	BEARING HOUSING (LH FEED) NODDING DANCER
20	3	A00026	StScr-M3x5 S/S
21	1	B00050	Bearing 4x13x5
22	1	B00052	Bearing 4x16x5
23	1	EE0015018	SERVO POT
24	1	EL80090	POT MOUNTING KIT
25	1	EL82590	MICROSWITCH - V6 6A
26	2	H00073	C-CLIP Ø4 S/S
27	2	H04476	VEE GROOVE PULLEY 150 DIA
28	4	H04478	45X45 CORNER BRACKET
29	4	H04479	45X45 ELBOW CAP
30	3	H04480	10MM COVER PROFILE
31	1	H04481	45X45 END CAP
32	2	H04482	T-NUT M5 10MM
33	6	H04483	M6 T-NUT 10MM
34	2	H04534	HxNut M10 S/S
35	1	H05442	BOX 85x56x39
36	1	ISO 4762 - M3 x 10	Hexagon Socket Head Cap Screw
37	1	ISO 4762 - M5 x 16	Hexagon Socket Head Cap Screw
38	2	K00086	HxCpHd M6x20 S/S
39	1	K00162	HxCpHd M5x8 S/S
40	4	K00164	HxCpHd M6x16 S/S
41	2	K00190	CskSlt M3x8 S/S
42	2	K00313	Washer 6mm Std S/S
43	2	K00409	HxCpHd M5x12 S/S
44	1	K00558	StScr-M4x6 S/S
45	2	K00581	HxCpHd M2x10 S/S
46	6	K00635	HxCpHd M3x10 S/S
47	1	K03064	HxNut M14 S/S
48	1	R00082-2	SHOCK ABSORBER



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DRAWN DATE  
aweise 07/02/2019

DO NOT SCALE  
IF IN DOUBT ASK  
UNLESS OTHERWISE STATED  
DIMENSIONS ARE IN mm  
DIM TOL: 0 ± 0.3  
0.0 ± 0.1  
ANGULAR TOL: ± 0.5  
SURFACE FINISH: 1.6 µm  
REMOVE ALL SHARP EDGES


TITLE  
**DANCER ASSEMBLY**

USED ON	DRG No.	380963A	SHEET 2 OF 2	REV 1
	MATERIAL:	-	ORIG SCALE	1:4
	FINISH:		ORIG SHEET	A1

1	2	3	4	5	6	7	8	9	10
PARTS LIST					REVISION HISTORY				
ITEM	QTY	PART NUMBER	DESCRIPTION		REV	DESCRIPTION	DCR No.	DATE	APPROVED
1	1	380310	IONISING BAR BRACKET		1	FIRST ISSUE		16.2.18	CK
2	4	BS 4320 - M6 (Form A)	Bright metal washers - Metric series						
3	2	BS 4320 - M8 (Form A)	Bright metal washers - Metric series						
4	1	EL83075	IONIZING BAR 340mm LONG						
5	2	H05162	T-SLOT NUT 10mm M8						
6	4	ISO 4762 - M6 x 12	Hexagon Socket Head Cap Screw						
7	2	ISO 4762 - M8 x 16	Hexagon Socket Head Cap Screw						

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DRAWN BY J. Cockerby	DATE 16/02/2018	TITLE IONISING BAR BRACKET ASSY		
DO NOT SCALE IF IN DOUBT ASK				
UNLESS OTHERWISE STATED DIMENSIONS ARE IN mm DIM TOL 0 ± 0.3 0.0 ± 0.1 ANGULAR TOL ± 0.5 SURFACE FINISH – 1.6 µm ✓ REMOVE ALL SHARP EDGES				
USED ON SG Controls Limited	DRG No. 380309A	SHEET 1 OF 1	REV 1	
MATERIAL: FINISH:		ORIG SCALE 1:2		
		ORIG SHEET A3		



PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	287948	GEARBOX MOUNTING BLOCK
2	1	380246A	WINDER WITH COVER
3	1	380254A	MAIN WINDER BODY ASSY
4	1	380276	WINDER MOTOR DRAG CHAIN REST
5	1	380277	WINDER REAR MOTOR COVER
6	4	BS 4183 - M5 x 12	Slotted pan head machine screws - Metric series
7	1	D00513	ROCKWELL MOTOR
8	1	D00572	GEARBOX 100:1 REDUCTION RATIO - KEYED SHAFT
9	2	EL82738	PROXIMITY SENSOR PNP N/C
10	1	EL82787	PROXIMITY SENSOR PNP N/O
11	1	H04370	CLAMPING PINTLE1
12	1	H04371	FIXED PINTLE1
13	4	H04976	PROFILE MOUNT
14	4	H04977	M6 SLOT NUT
15	1	H04978	ELC COUPLING
16	1	H04980	ENERGY CHAIN BRAKET SET
17	1	H05002	PROXIMITY SWITCH LUG
18	1	H05347	ENERGY CHAIN 30 X 15 X 360 LONG
19	4	ISO 4032 - M5	Hexagon nuts, style 1 - Product grades A and B
20	9	ISO 4762 - M6 x 10	Hexagon Socket Head Cap Screw
21	8	ISO 7089 - 5 - 140 HV	Plain washers - Normal series - Product grade A
22	2	K00061	Washer 5mm Std S/S
23	4	K00072	CskSlt M3x10 S/S
24	4	K00164	HxCpHd M6x16 S/S
25	4	K00313	Washer 6mm Std S/S
26	2	K00484	HxCpHd M5x10 S/S
27	4	K00494	HxCpHd M6x60 S/S
28	2	K00957	HxCpHd M3x12 S/S
30	1	L00071	SPINDLE AXIS 350mm TRAVEL
92	4	BS 4168 - M4 x 40	Hexagon Socket Head Cap Screw

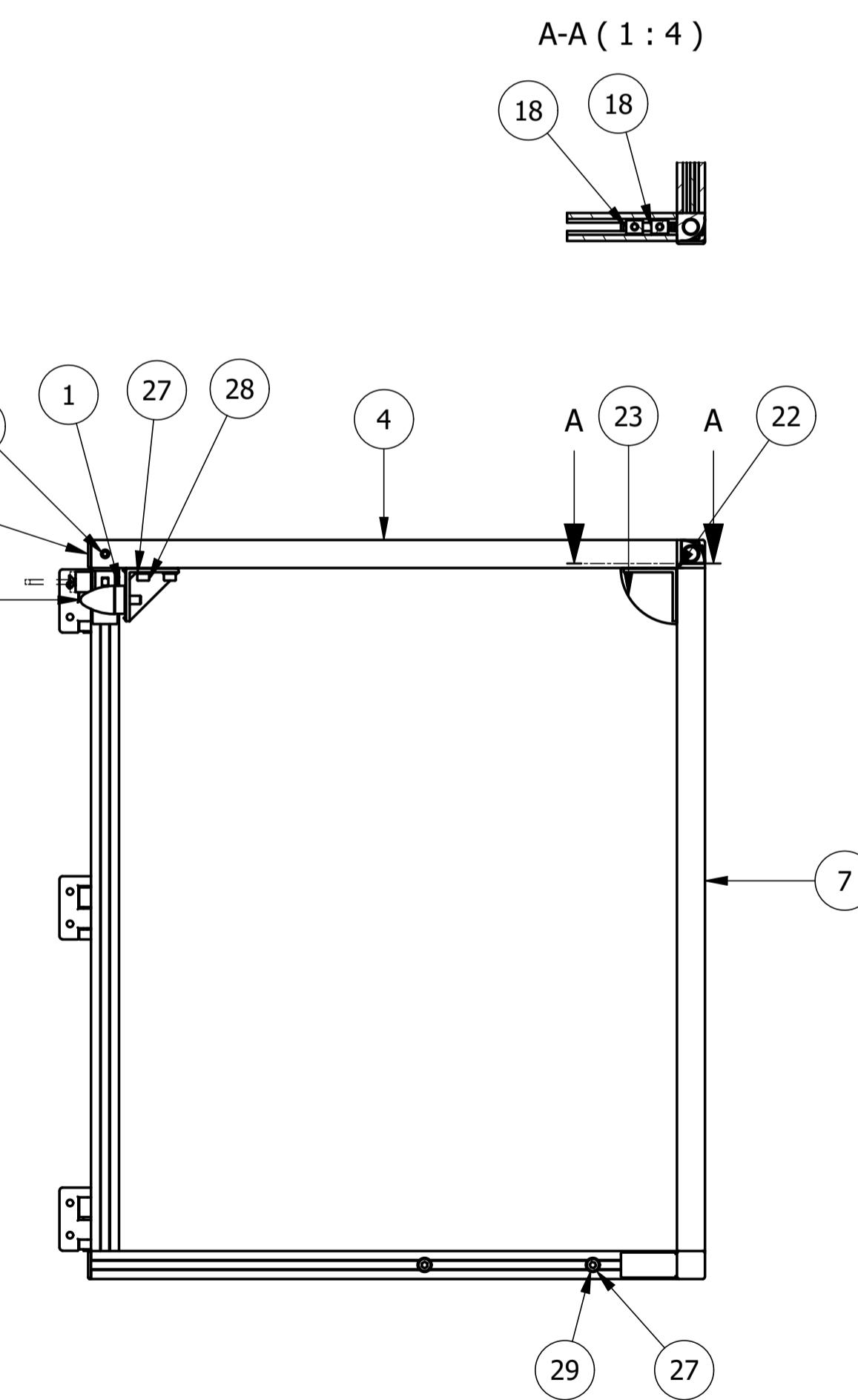
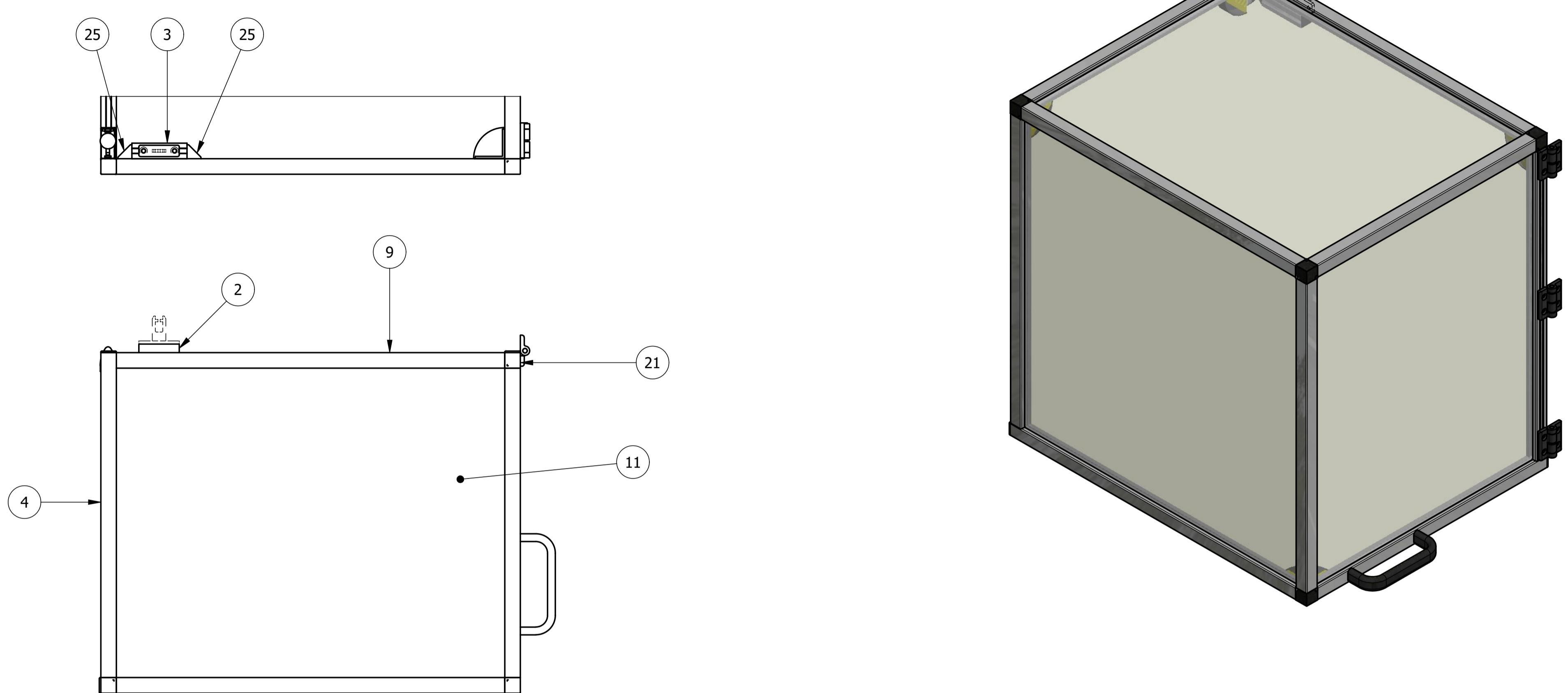
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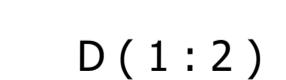
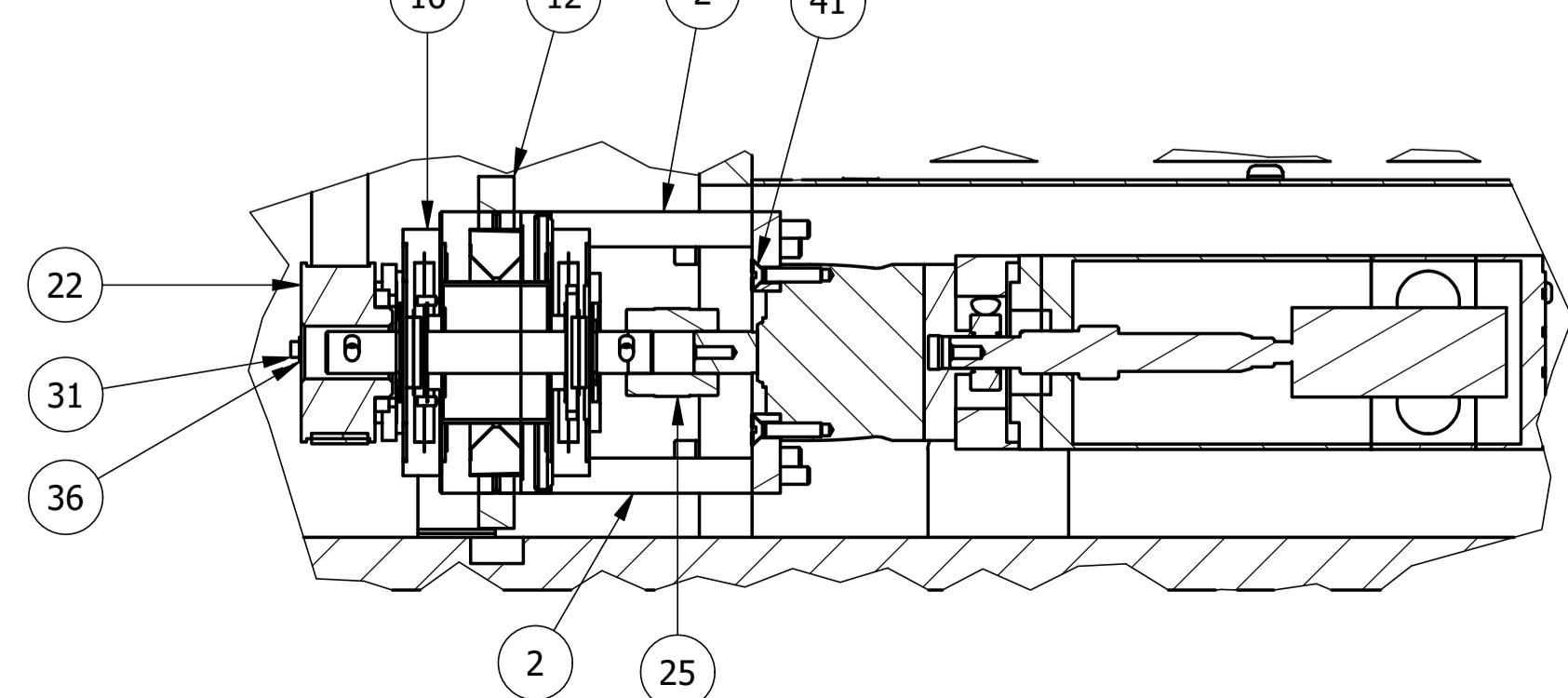
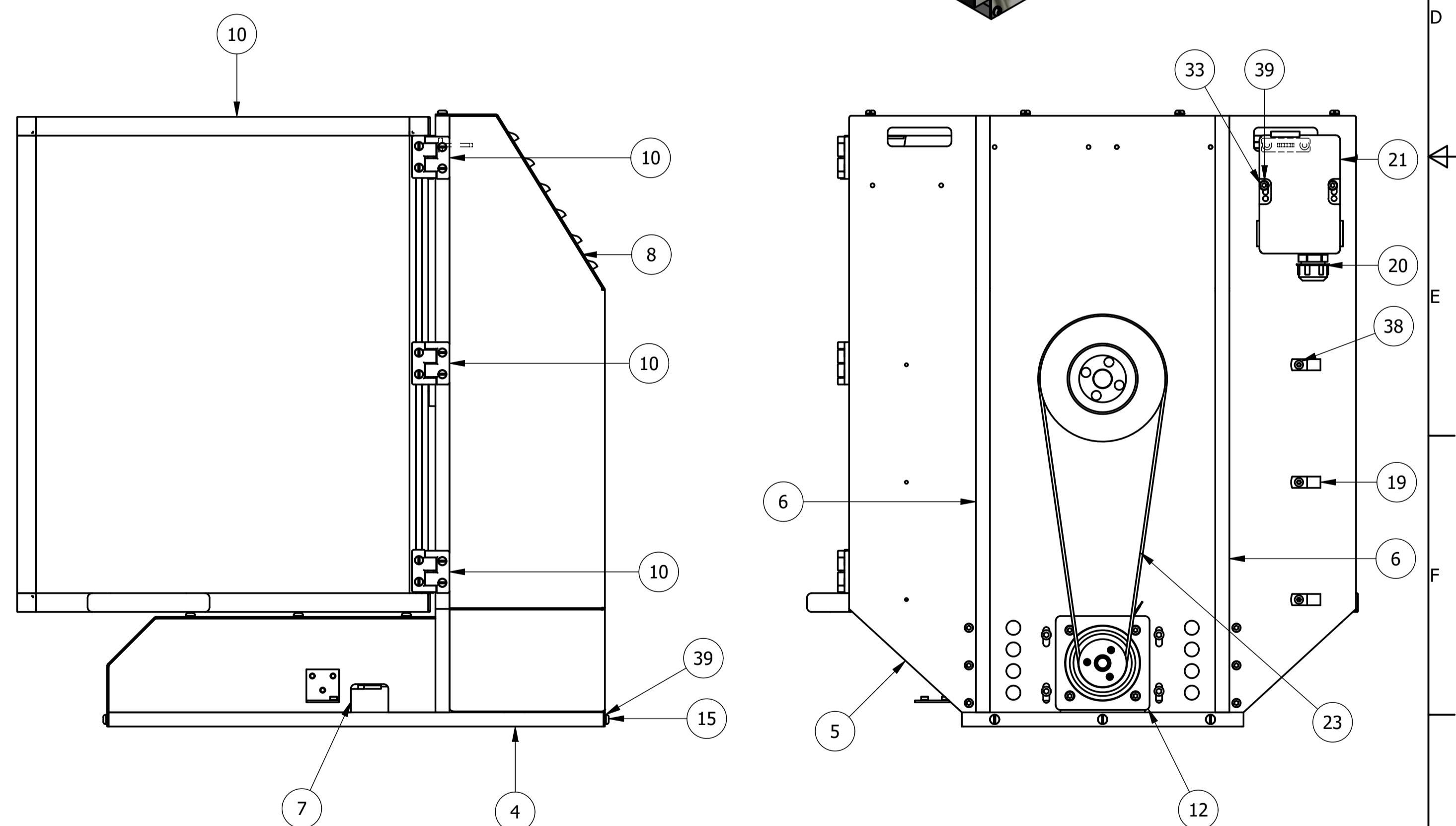
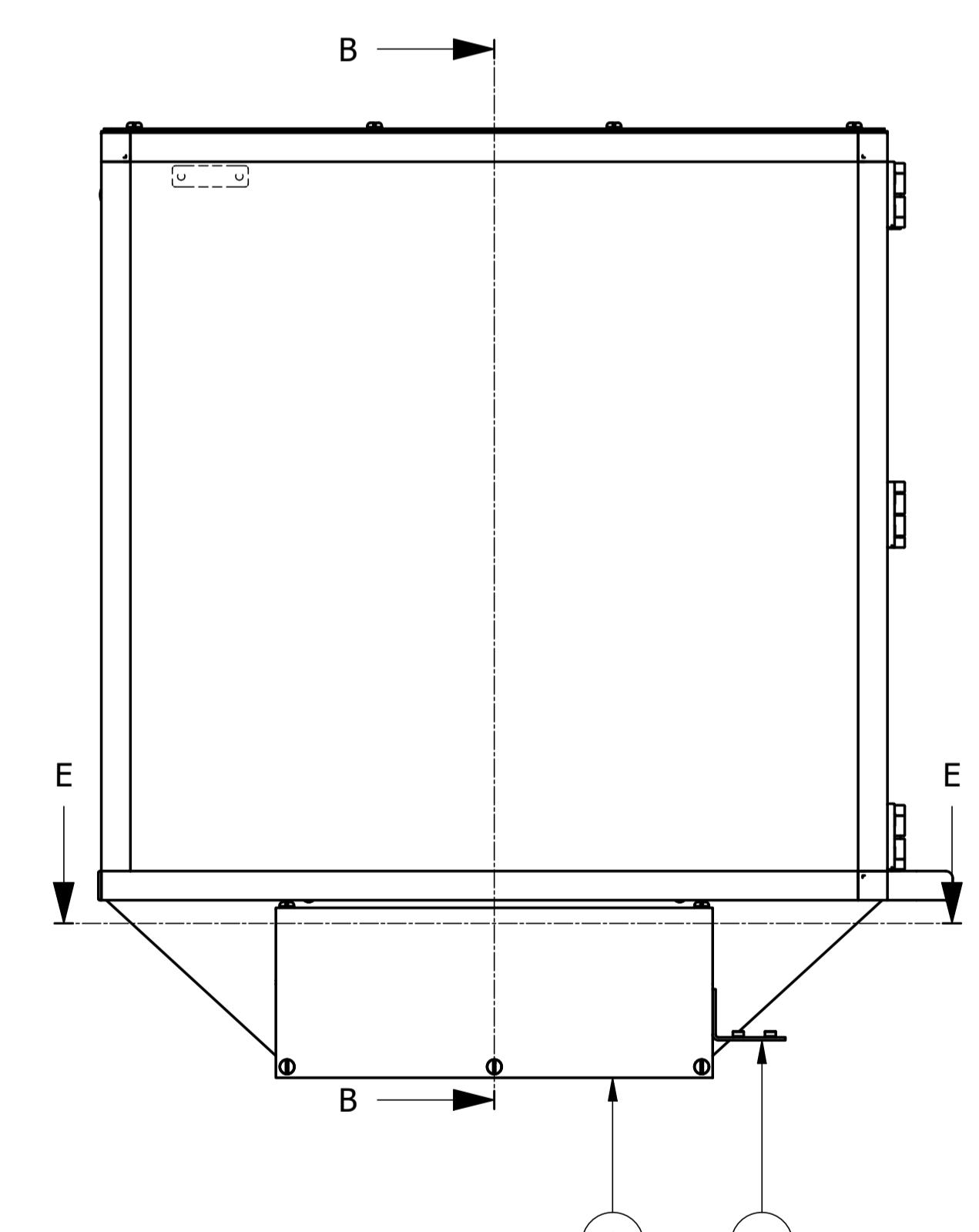
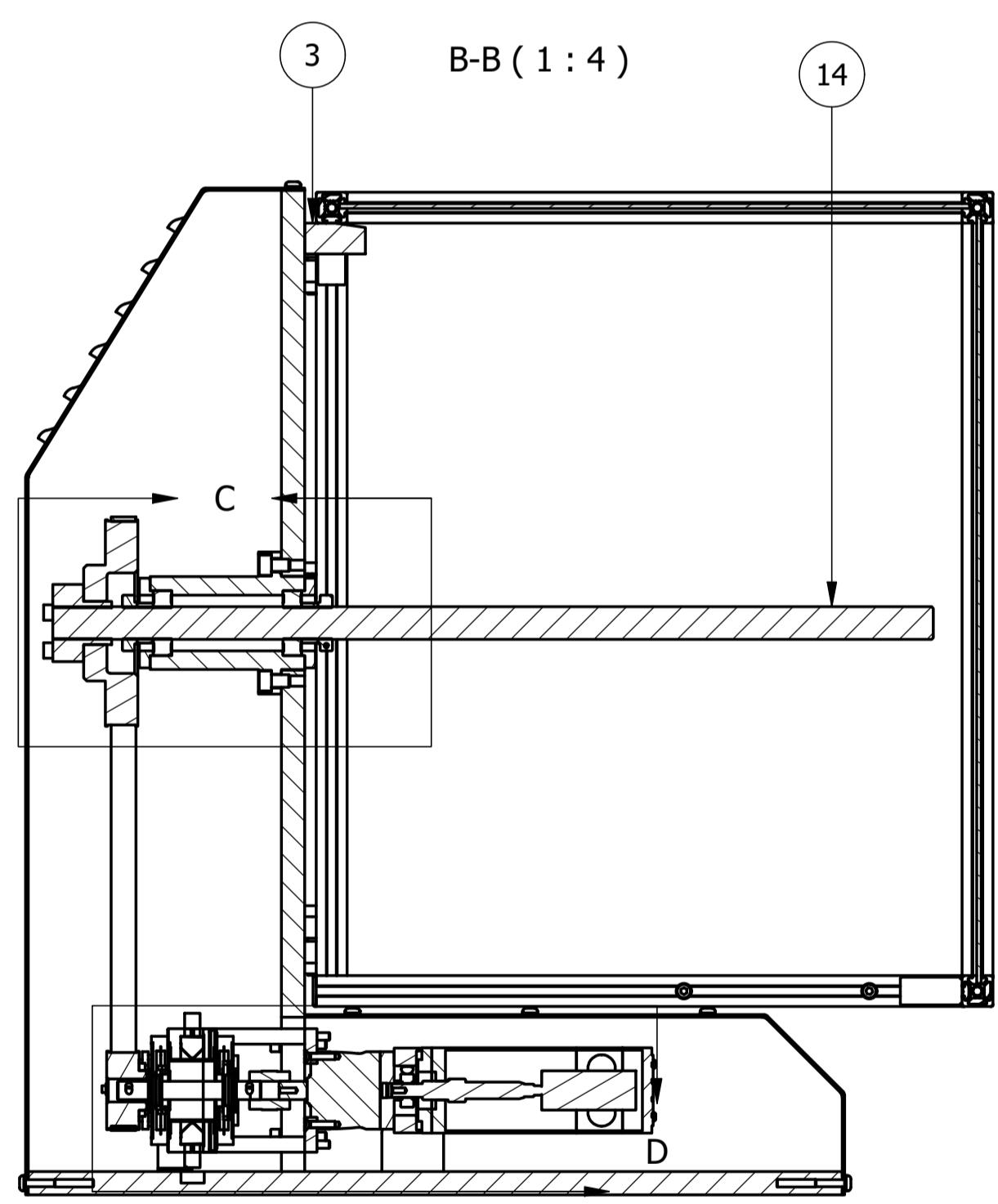
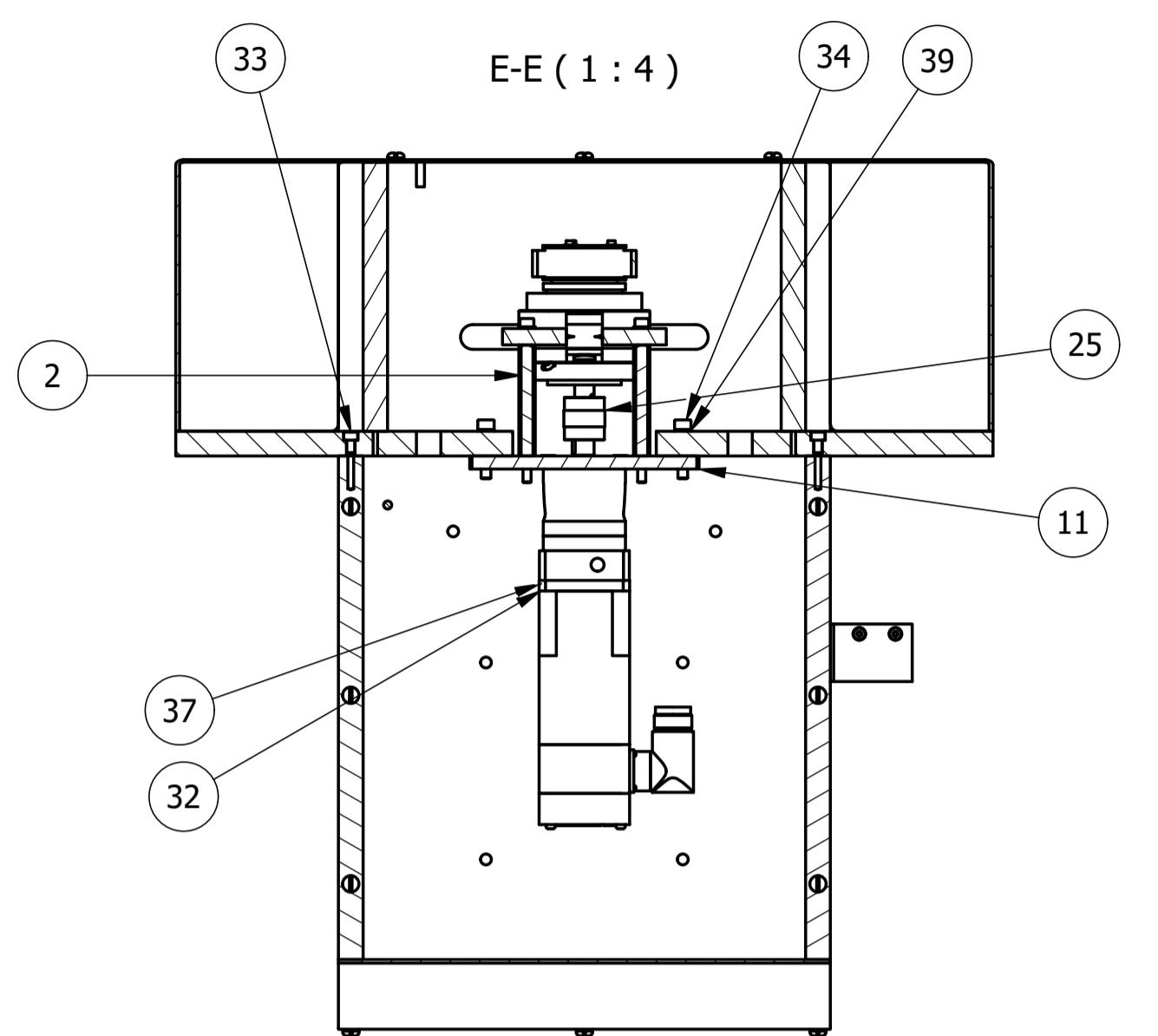
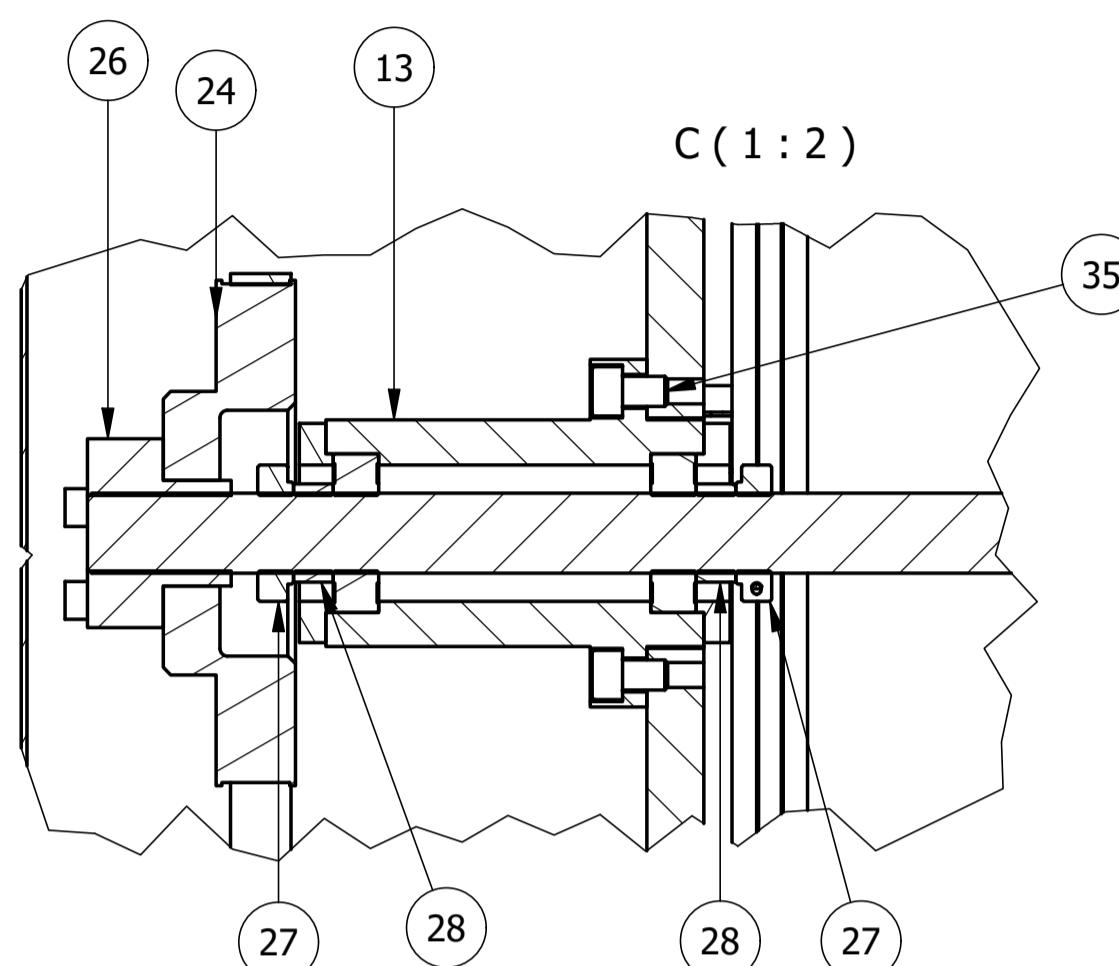
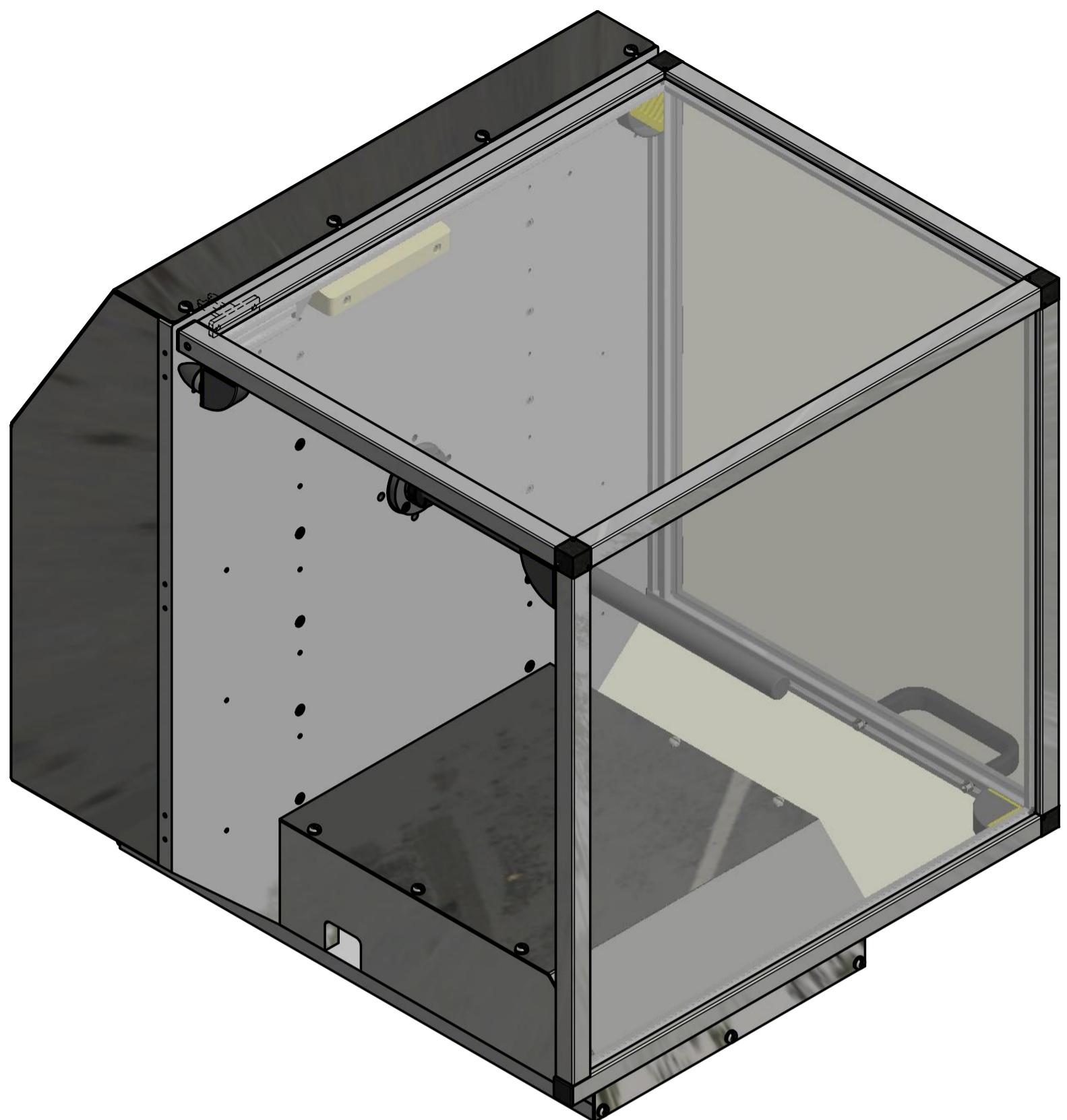
This document belongs to SG Controls Ltd and may not be copied, reproduced or displayed in whole or in part without the express written consent of SG Controls Ltd.		DRAWN mtofts	DATE 09/01/2018	TITLE <b>WINDER WITH COVER</b>			
		DO NOT SCALE IF IN DOUBT ASK					
		UNLESS OTHERWISE STATED DIMENSIONS ARE IN mm DIM TOL $0 \pm 0.3$ $0.0 \pm 0.1$ ANGULAR TOL $\pm 0.5$ SURFACE FINISH $-1.6 \mu\text{m}$		USED ON 380187A	DRG No. <b>380264A</b>	SHEET 2 OF 2	REV 1
<b>SG Controls</b>		SG Controls Limited		 	MATERIAL:  FINISH:	ORIG SCALE 1:10	
	6	7	8	9	10		

PARTS LIST			REVISION HISTORY							
ITEM	QTY	PART NUMBER	DESCRIPTION			REV	DESCRIPTION	DCR No.	DATE	APPROVED
1	1	286239	SPACER			1	FIRST ISSUE		30.1.18	CK
2	1	289508	EUROMASTER CATCH BLOCK							
3	1	380265	20x20x71 EXTRUSION							
4	1	380266	20x20x418 EXTRUSION							
5	1	380267	20x20x398 EXTRUSION							
6	1	380268	20x20x418 EXTRUSION WITH HOLES FOR HANDLE							
7	2	380269	20x20x487 EXTRUSION							
8	1	380270	20x20x520 EXTRUSION							
9	2	380271	20x20x500 EXTRUSION 2 GROOVE							
10	1	380272	20x20x487 EXTRUSION 3 GROOVE							
11	1	380273	TOP WINDOW PANEL 510x408							
12	1	380274	SIDE WINDOW PANEL 497x408							
13	1	380275	WINDER END WINDOW PANEL 510x497							
14	3	H04378	CORE SCREW T25							
15	1	H04527	RUBBER BUMP STOP							
16	6	H04621	M4 TEE NUT 6mm GROOVE							
17	3	H04624	END CAP 20X20							
18	16	H04637	M5 TEE NUT 6mm GROOVE							
19	1	H04726	HANDLE							
20	4	H04727	CORNER JOINT							
21	4	H04728	CORNER COVER							
22	4	H04729	CORNER BRACKET							
23	4	H04730	CORNER COVER							
24	6	H04731	HINGE							
25	2	H05346	20x20 AL EX 90 DEG ANGLE BRACKET							
26	9	ISO 2009 - M4 x 6	Slotted countersunk							
27	16	K00061	*Varies*							
28	14	K00162	HxCpHd M5x8 S/S							
29	2	K00282	M5x25 SKT CAP SCREW S/S							
30	2	K00429	M5x20 CSK SLOT S/S							



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		DO NOT SCALE IF IN DOUBT ASK	
		UNLESS OTHERWISE STATED DIMENSIONS ARE IN mm TOLERANCES: ±0.5 mm D.O.T. Angular Tolerance: 0.5° Surface Finish: 1.6 μm REMOVE ALL SHARP EDGES	
SG Controls	SG Controls Limited	USED ON DRG No. 380261A SHEET 1 OF 1 REV 1	(C) (S)
		MATERIAL: FINISH:	ORIG. SCALE 1:4 ORIG. SHEET A1

REVISION HISTORY				
REV	DESCRIPTION	DCR No.	DATE	APPROVED
1	FIRST ISSUE		26.1.18	CK



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<b>SG</b> <b>Controls</b>		<b>DO NOT SCALE</b> <b>IF IN DOUBT ASK</b> <small>UNLESS OTHERWISE STATED DIMENSIONS ARE IN mm DIM TOL 0.±0.3 0.0.±0.1 ANGULAR TOL ±0.5 SURFACE FINISH -1.6/<small>μm</small> REMOVE ALL SHARP EDGES</small>		USED ON 380264A	DRG No. <b>380254A</b>	SHEET 1 OF 2	REV 1
		 		MATERIAL:	ORIG SCALE 1:4		
				FINISH:	ORIG SHEET A1		

1 2 3 4 5 6 7 8 9 10

A A

H H

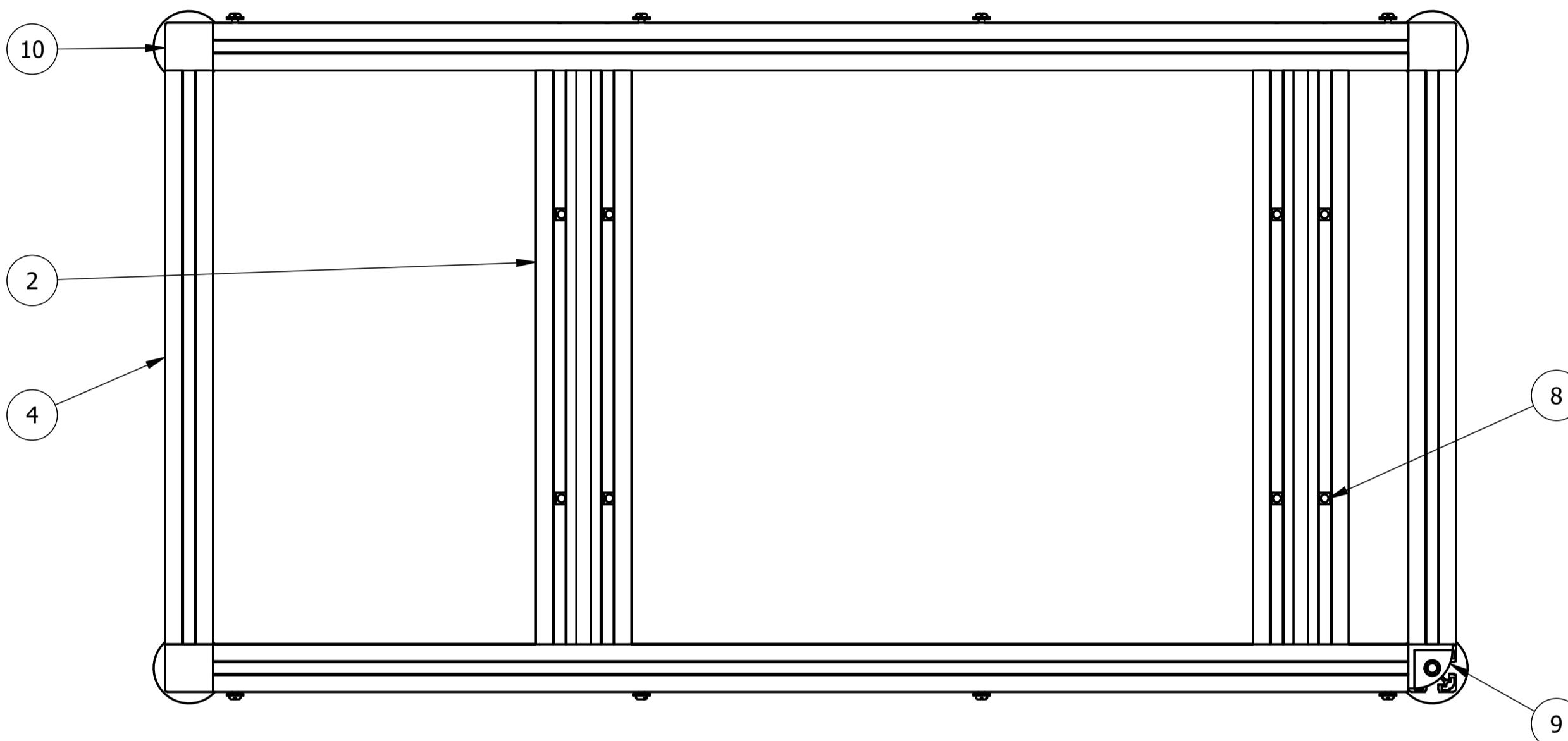
PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	288890	DRAG CHAIN BRACKET
2	4	288915	SPACER TUBE
3	1	288921	NYLON BLOCK
4	1	380255	WINDER BASE PLATE
5	1	380256	WINDER BACK PLATE
6	2	380257	WINDER BODY BACK WEB
7	2	380258	WINDER BODY FRONT WEB
8	1	380259	WINDER BACK COVER
9	1	380260	WINDER MOTOR COVER
10	1	380261A	WINDER GUARD ASSY
11	1	380262	MOTOR MOUNTING PLATE
12	1	380263	CLUTCH MOUNT PLATE
13	1	B01236	BEARING HOUSING 20mm BEARING ID
14	1	B01237	20mm SHAFT 570L
15	16	BS 4183 - M5 x 45	Slotted pan head machine screws - Metric series
16	1	D00525	ELECTRONIC CLUTCH
17	1	D00586	MOTOR MPL-A1530U-EJ72AA
18	1	D00603	GEARBOX 7:1 REDUCTION RATIO - KEYED SHAFT
19	3	EE039916	P-CLIP
20	1	EE067092	GLAND
21	1	EL82565	GUARDMASTER UNIT
22	1	G00530	WINDER CLUTCH PULLEY
23	1	G00557	TIMING BELT - 890mm L
24	1	G00558	PULLEY 42 TEETH 28mm BORE
25	1	H04978	ELC COUPLING
26	1	H05210	LOCKING BUSH 20mm X 28mm
27	2	H05344	SHAFT COLLAR 20mm ID
28	2	H05345	SHAFT BEARING SPACER
29	6	ISO 2009 - M4 x 6	Slotted countersunk flat head screws (common head style) - Product grade A
31	3	ISO 4762 - M2.5 x 4	Hexagon Socket Head Cap Screw
32	4	ISO 4762 - M4 x 6	Hexagon Socket Head Cap Screw
33	44	ISO 4762 - M5 x 8	Hexagon Socket Head Cap Screw
34	4	ISO 4762 - M6 x 30	Hexagon Socket Head Cap Screw
35	4	ISO 4762 - M8 x 12	Hexagon Socket Head Cap Screw
36	3	ISO 7089 - 3 - 140 HV	Plain washers - Normal series - Product grade A
37	4	ISO 7089 - 3.5 - 140 HV	Plain washers - Normal series - Product grade A
38	3	ISO 7089 - 4 - 140 HV	Plain washers - Normal series - Product grade A
39	26	ISO 7089 - 5	Plain washers - Normal series - Product grade A
40	4	K03044	HxCpHd M5x95 S/S
41	4	ISO 2009 - M4 x 20	Slotted countersunk flat head screws (common head style) - Product grade A

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DO NOT SCALE IF IN DOUBT ASK		USED ON	DRG No.	
UNLESS OTHERWISE STATED DIMENSIONS ARE IN mm DIM TOL: 0 ± 0.3 0.0 ± 0.1 ANGULAR TOL: 0 ± 0.5 SURFACE FINISH: -1.6 μm REMOVE ALL GUARD SPACES		380264A	380254A	SHEET 2 OF 2 REV 1
 <b>SG Controls Limited</b>		MATERIAL:	ORIG. SCALE 1:4	
		FINISH:	ORIG. SHEET A2	

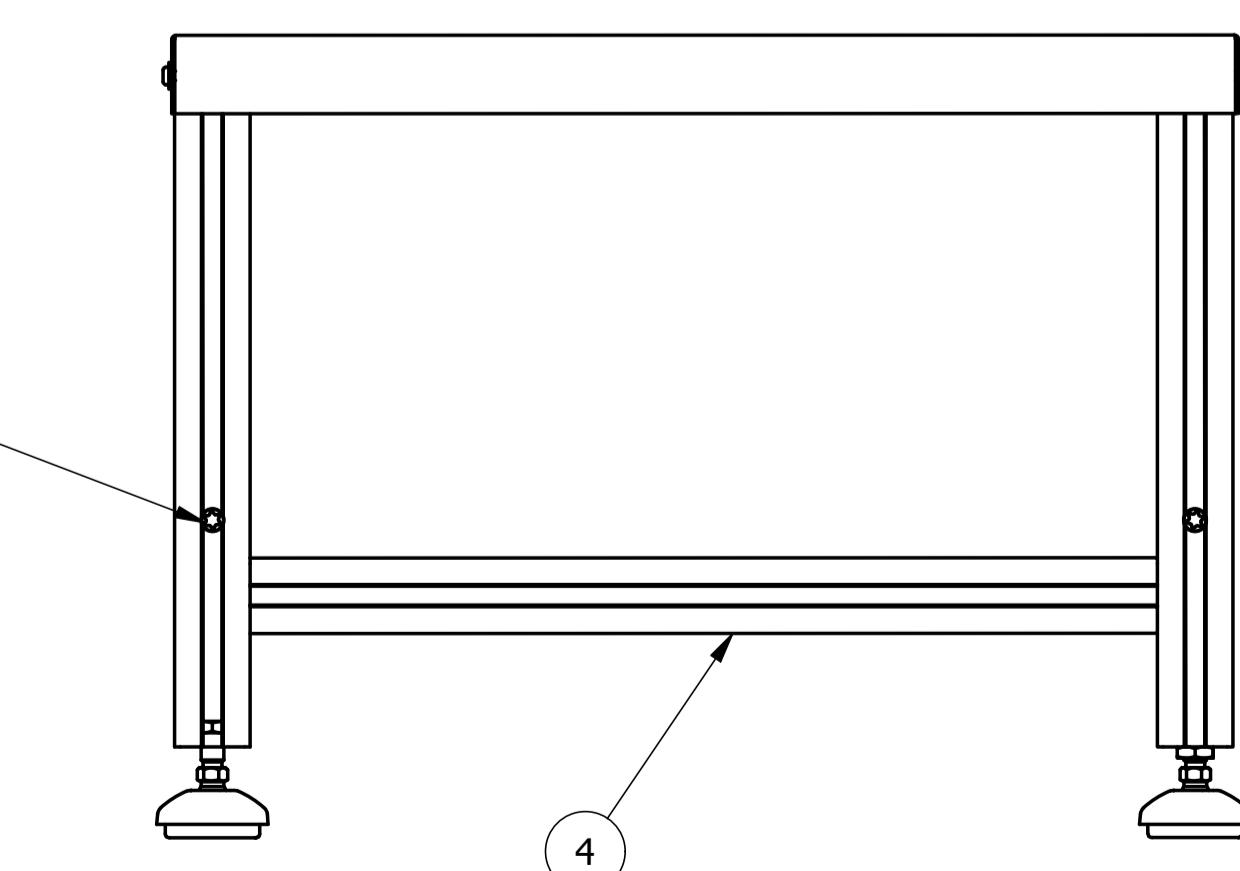
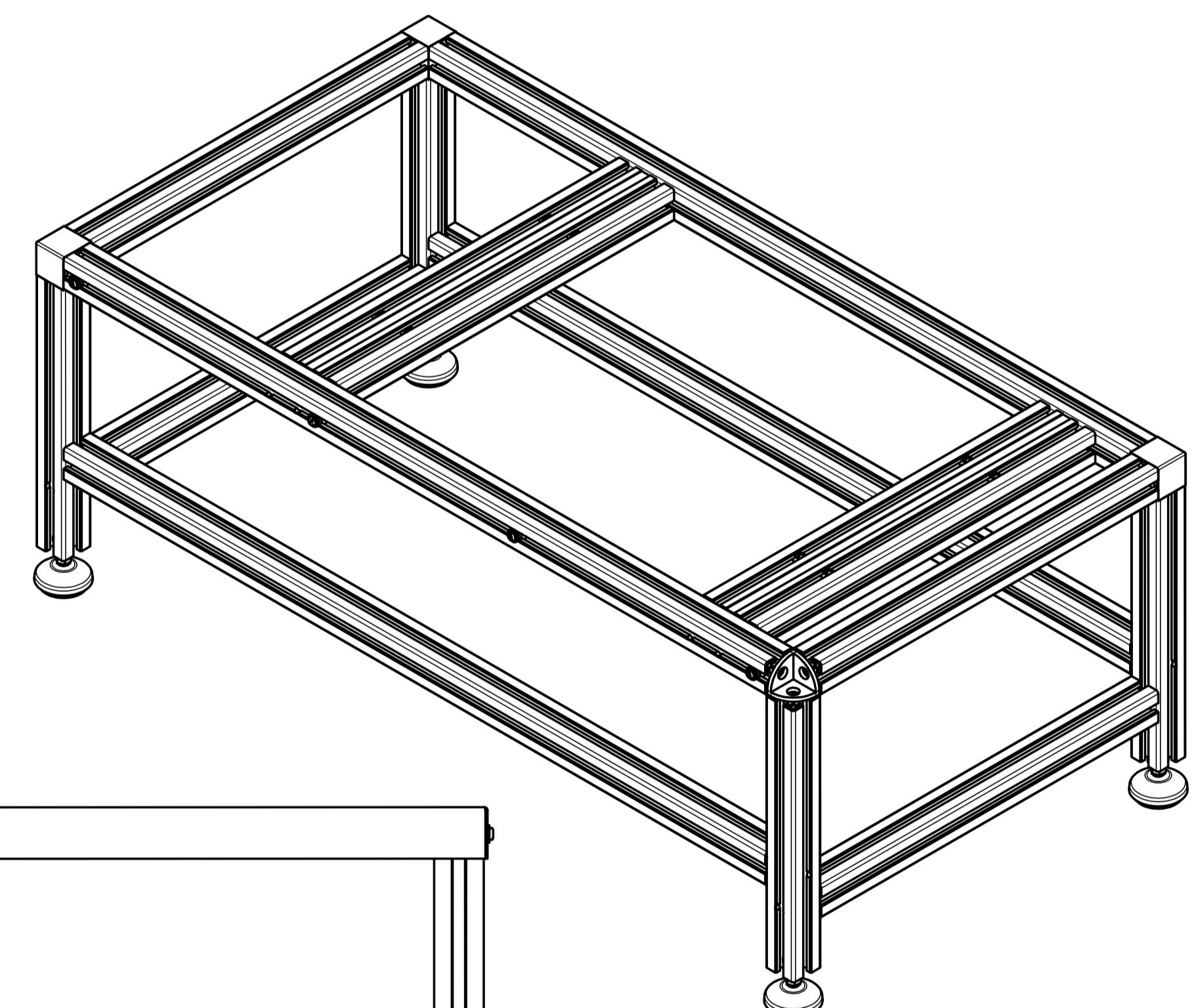
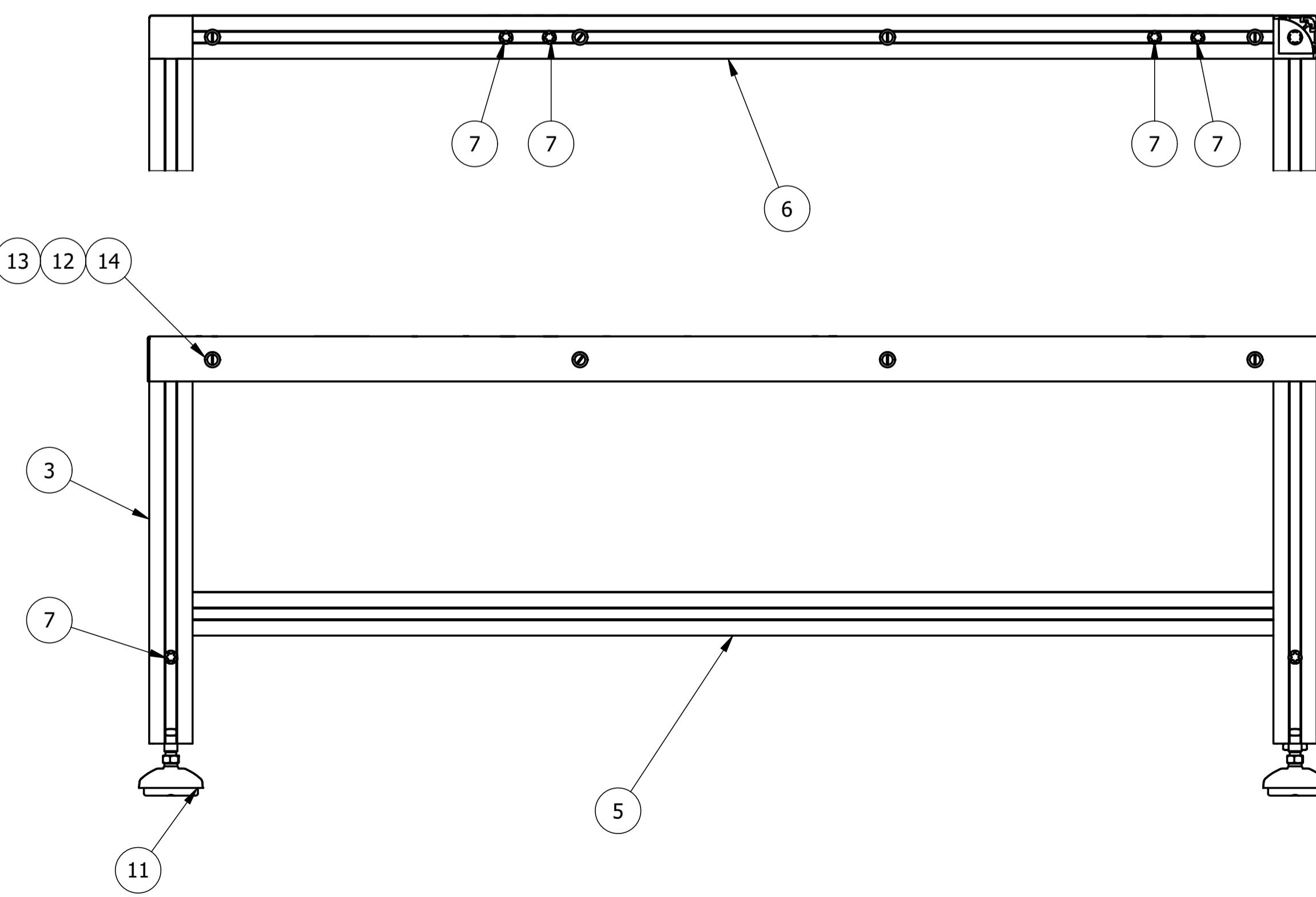
1 2 3 4 5 6 7 8 9 10

PARTS LIST				REVISION HISTORY				
ITEM	QTY	PART NUMBER	DESCRIPTION	REV	DESCRIPTION	DCR No.	DATE	APPROVED
1	1	380247	STAND COVER	1	FIRST ISSUE		26.1.18	CK
2	2	380248	STAND CROSS BEAM	2	ADD 2x HOLES IN COVER (rev2)		13/09/2019	LAR
3	4	380249	STAND LEG	3	rev3 COVER - additional HOLES		20/01/2020	LAR
4	4	380250	STAND CROSS SUPPORT SHORT					A
5	2	380251	STAND CROSS SUPPORT LONG					B
6	2	380253	STAND CROSS SUPPORT LONG TOP					C
7	16	H05055	S12x30 CORE SCREW					D
8	8	H05162	T-SLOT NUT 10mm M8					E
9	4	H05340	40x40 CORNER BRACKET & FIXINGS					F
10	4	H05341	40x40 CORNER BRACKET CAP SQUARE					G
11	4	H05342	M12 ADJUSTABLE FOOT					H
12	8	H05343	T NUT 10mm SLOT M5					
13	8	K00258	PnHd M5 x 16 S/S					
14	8	K02923	6mm PLAIN WASHER - LGE, S/S					

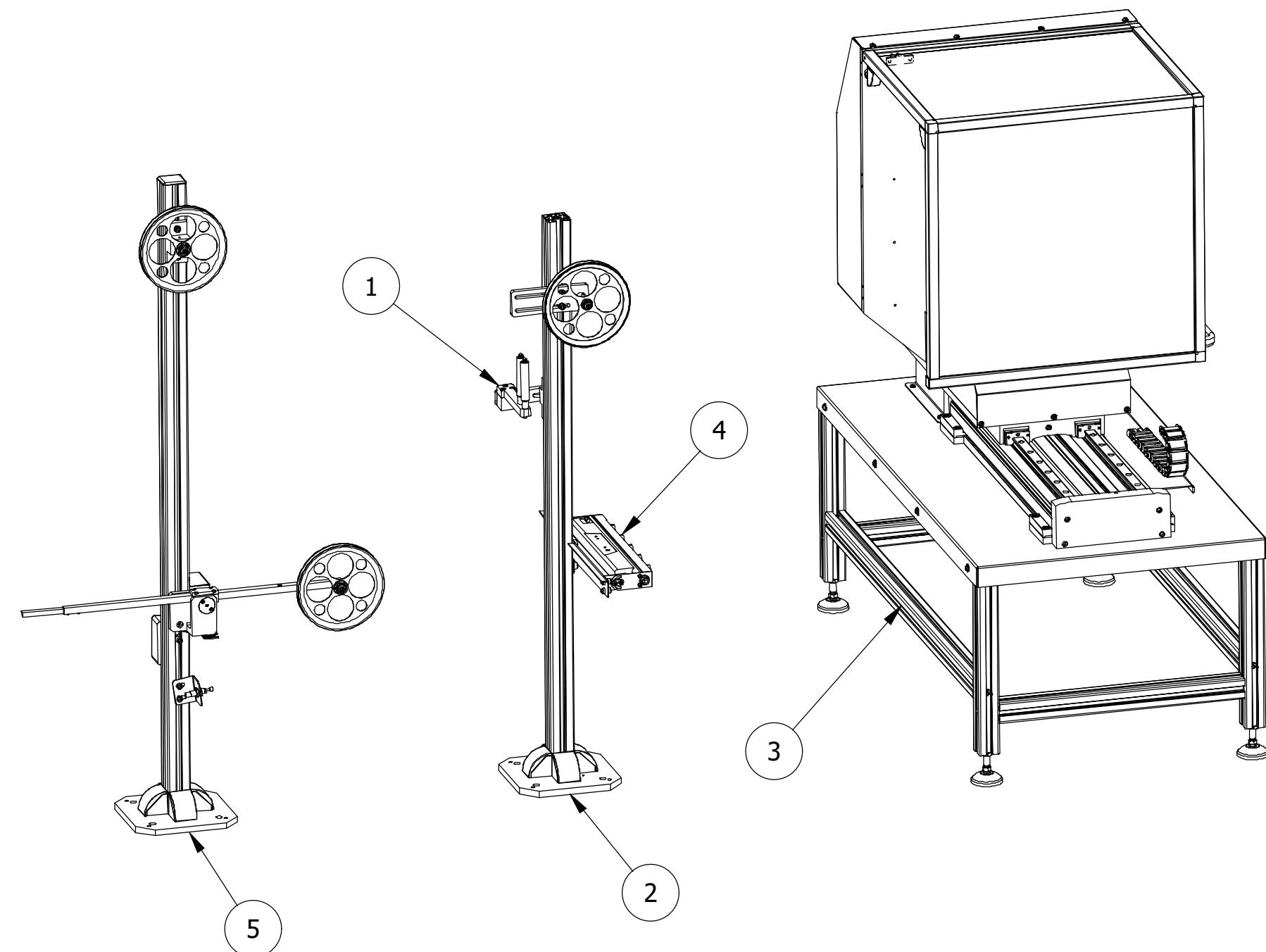
PLAN VIEW SHOWN W/O COVER ( 1 : 4 )



PARTIAL SIDE VIEW W/O COVER FITTED ( 1 : 4 )



1	2	3	4	5	6	7	8	9	10
A	B	C	D	E	F	G	H	I	J
REVISION HISTORY									
REV	DESCRIPTION			DCR No.	DATE		APPROVED		
1	FIRST ISSUE				07/02/19		LAR		



ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	287576A	ROLLER MOUNTING ASSEMBLY
2	1	380172A	ADJUSTABLE PULLEY GUIDE STAND
3	1	380264A	WINDER WITH COVER
4	1	380309A	IONISING BAR BRACKET ASSY
5	1	380963A	DANCER ASSEMBLY

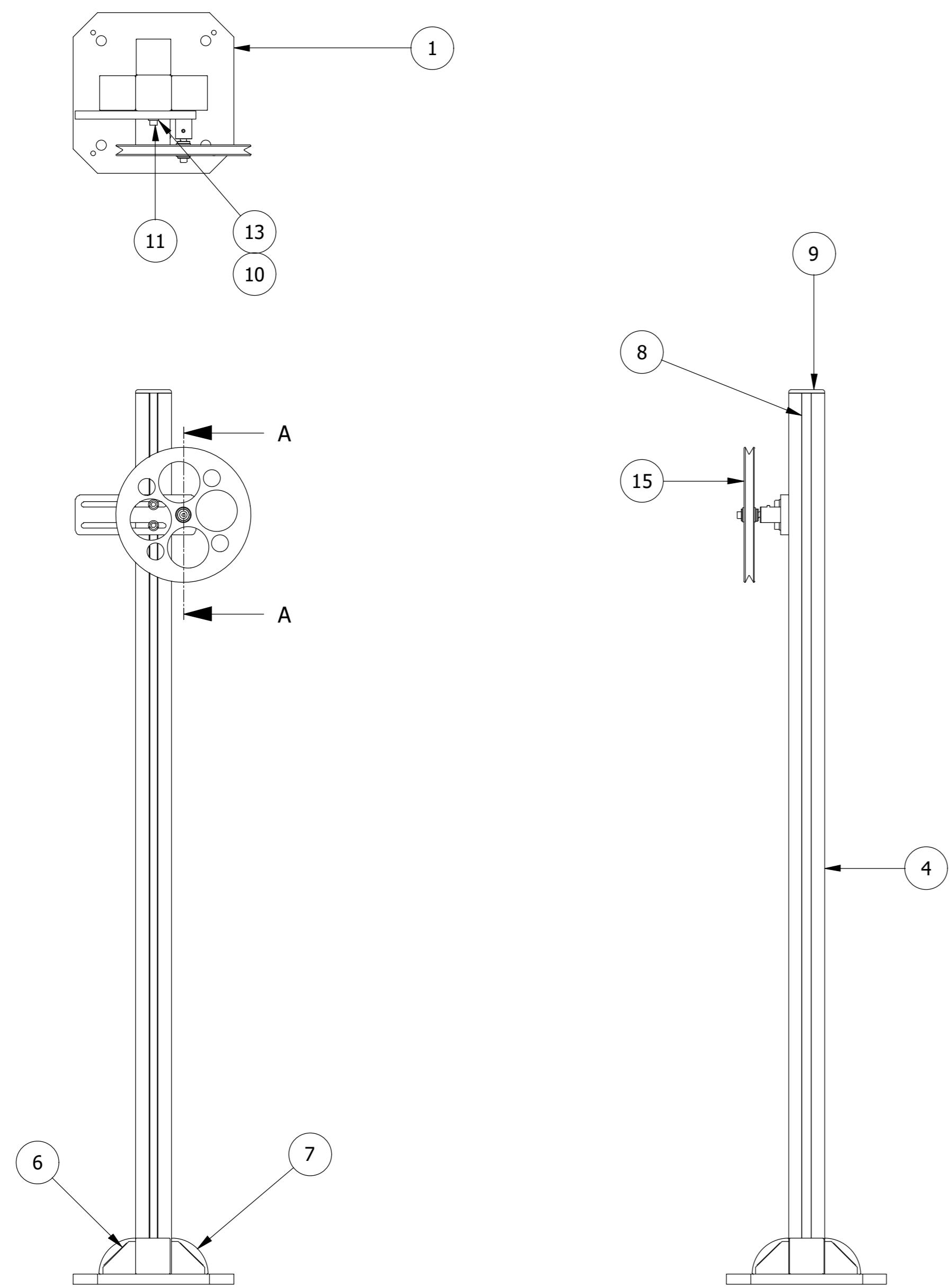
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DRAWN LAR	DATE 07/02/2019	TITLE <b>WINDER SYSTEM - SOREQ TOWER</b>
DO NOT SCALE		
IF IN DOUBT ASK		
UNLESS OTHERWISE STATED		
DIMENSIONS ARE IN mm		
DIM TOL: 0 ± 0.3		
0.0 ± 0.1		
ANGULAR TOL: 0.5		
SURFACE FINISH: 1.6 µm		
REMOVE ALL SHARP EDGES		
USED ON 380000A	DRG No. <b>380187A</b>	SHEET 1 OF 1 REV 1
MATERIAL: -	ORIG SCALE 1:10	
FINISH:	ORIG SHEET A3	

1	2	3	4	5	6	7	8	9	10	
					▼					
A	B	C	D	E	F	G	H			

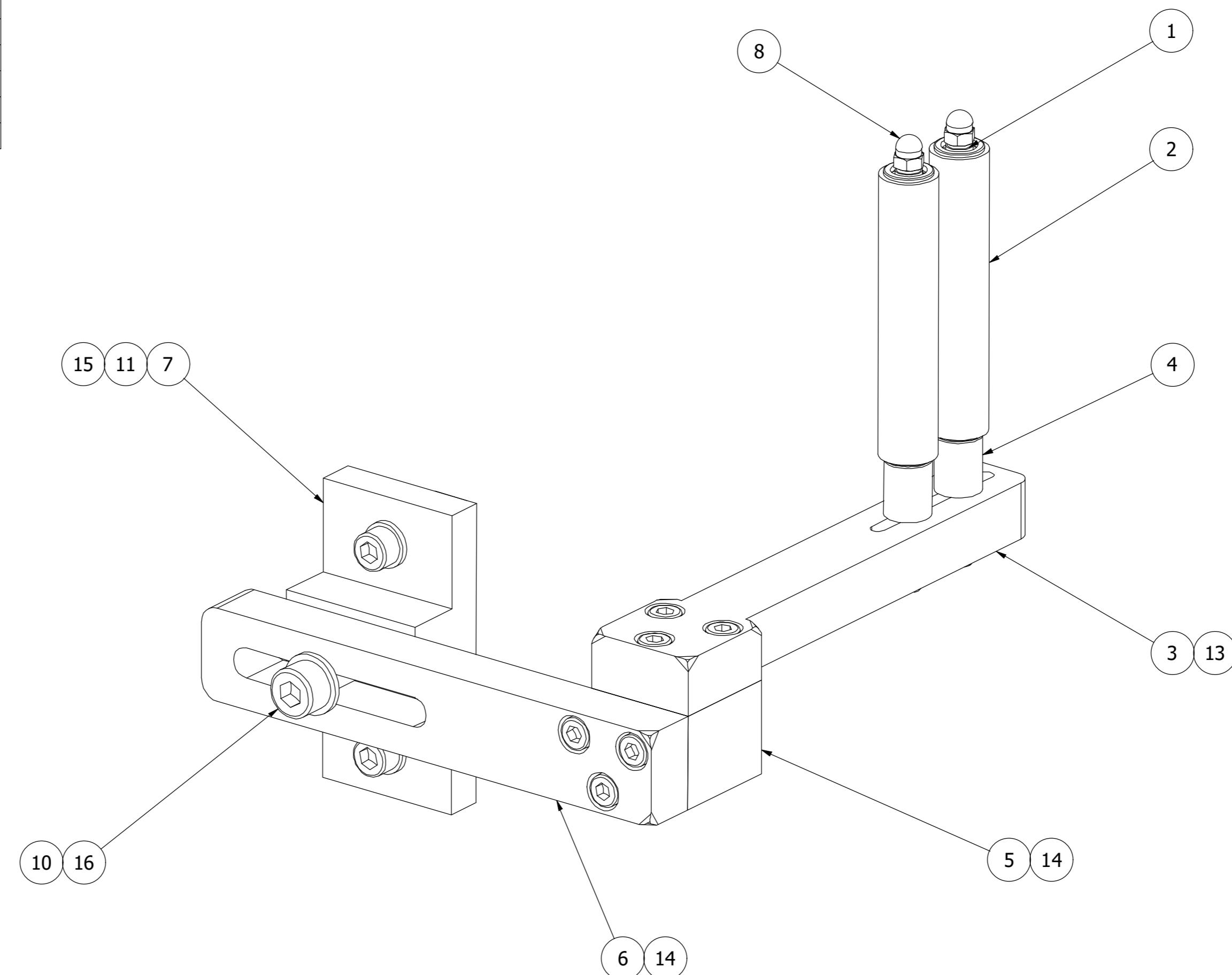


REVISION HISTORY				
REV	DESCRIPTION	DCR No.	DATE	APPROVED
1	FIRST ISSUE		05/12/17	CK

PARTS LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	284531	FOOT PLATE
2	1	284539	SPINDLE - GUIDE PULLEY
3	1	284565	CLAMP WASHER
4	1	286060	EXTRUSION 45X45X1100
5	1	380173.	ADJUSTABLE PULLEY MOUNTING BLOCK
6	4	H04478	45X45 CORNER BRACKET
7	4	H04479	45X45 ELBOW CAP
8	3	H04480	10MM COVER PROFILE
9	1	H04481	45X45 END CAP
10	2	H04483	M6 T-NUT 10MM
11	2	K00086	HxCpHd M6x20 S/S
12	1	K00162	HxCpHd M5x8 S/S
13	2	K00313	Washer 6mm Std S/S
14	1	K00558	StScr-M4x6 S/S
15	1	NEW-H04476	PULLEY 150MM

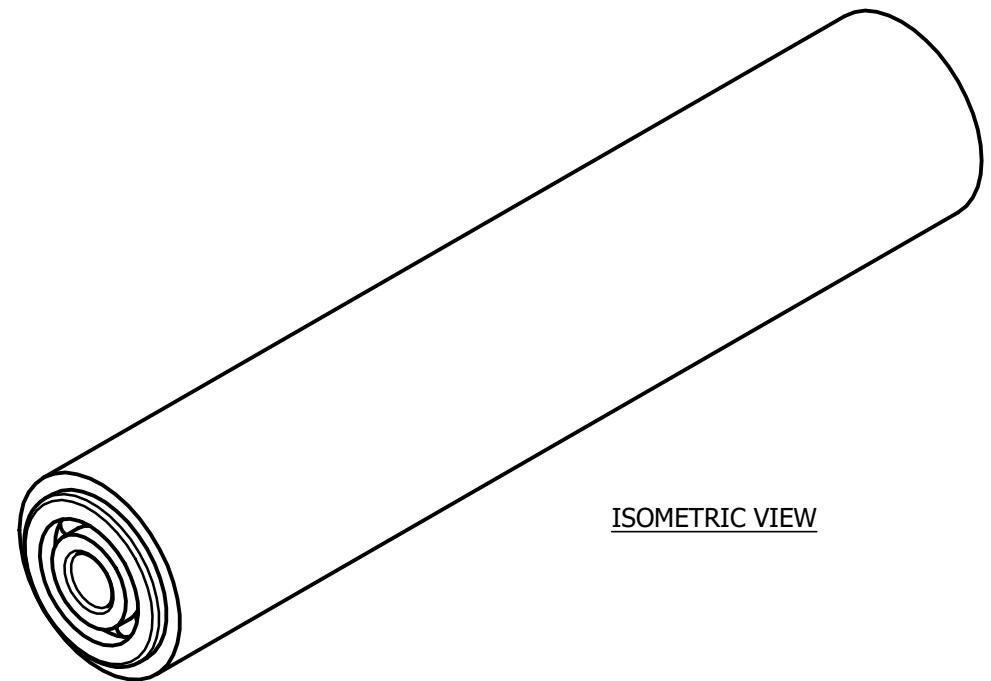
SG Controls Limited	DO NOT SCALE IF IN DOUBT ASK UNLESS OTHERWISE STATED DIMENSIONS ARE IN mm DIM. TOL. 0.0 ± 0.3 0.0 ± 0.1 ANGULAR TOL. ± 0.5 SURFACE FINISH -1.6 /im REMOVE ALL SHARP EDGES	USED ON	DRG. No.	SHEET	REV
			380172A	1 OF 1	1
	(CIRCLE)	MATERIAL:		ORIG. SCALE 1:5	
	(TRIANGLE)	FINISH:		ORIG. SHEET A2	

	1	2	3	4	5	6	7	8	9	10					
	PARTS LIST			REVISION HISTORY											
A	ITEM	QTY	PART NUMBER	DESCRIPTION							REV	DESCRIPTION	DCR No.	DATE	APPROVED
	1	2	282894	SPACER COLLAR							1	FIRST ISSUE		12.2.13	A
	2	2	287573A	75mm LONG ROLLER ASSEMBLY											
	3	1	287577	ROLLER GUIDE MOUNT PLATE											
	4	2	287578	SLEEVE PIN											
	5	1	287579	ROLLER JOINING BLOCK											
	6	1	287580	ROLLER PIVOT STRIP											
B	7	1	287582	ROLLER MOUNT BLOCK											B
	8	2	H02085	DomeNut M4 S/S											
	9	2	H04483	M6 T-NUT 10MM											
	10	1	K00065	Washer 8mm Std S/S											
	11	2	K00086	HxCpHd M6x20 S/S											
	12	2	K00087	Washer 4mm Std S/S											
	13	2	K00283	HxCpHd M4x25 S/S											
	14	6	K00293	HxCpHd M5x20 S/S											
C	15	2	K00313	Washer 6mm Std S/S											C
	16	1	K00882	HxCpHd M8x25 S/S											

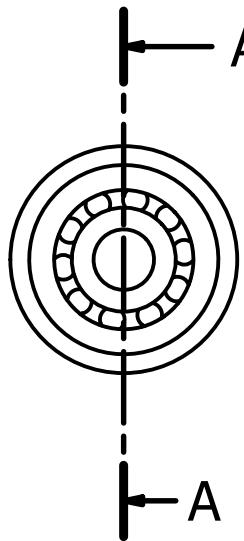


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DO NOT SCALE IF IN DOUBT ASK		USED ON	DRG No. 287576A	SHEET 1 OF 1	REV 1
UNLESS OTHERWISE STATED DIMENSIONS ARE IN mm DIM. TOL. 0.1 ± 0.3 0.1 ± 0.1 ANGULAR TOL. ± 0.5 SURFACE FINISH -1.6 /im REMOVE ALL SHARP EDGES		SG Controls Limited	MATERIAL:	ORIG. SCALE 1:1	
			FINISH:	ORIG. SHEET A2	

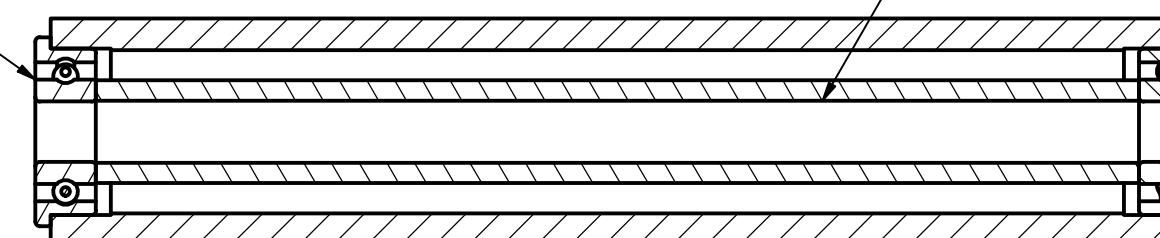
1	2	3	4	5	6	7	8	9	10
A									A
<b>REVISION HISTORY</b>									
REV	DESCRIPTION			DCR No.	DATE	APPROVED			
1	FIRST ISSUE				11.2.13				



ISOMETRIC VIEW



3  
2



A-A ( 2 : 1 )



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DRAWN LHA	DATE 11/02/2013	<b>TITLE</b> 75mm LONG ROLLER ASSEMBLY		
DO NOT SCALE IF IN DOUBT ASK				
UNLESS OTHERWISE STATED DIMENSIONS ARE IN mm DIM TOL $0.0 \pm 0.3$ $0.0 \pm 0.1$ ANGULAR TOL $\pm 0.5$ SURFACE FINISH $-1.6 \mu\text{m}$ REMOVE ALL SHARP EDGES	USED ON 287576A	DRG No. 287573A	SHEET 1 OF 1	REV 1
	(CIRCLE) (TRIANGLE)	MATERIAL: SEE DRG FINISH: N/A	ORIG SCALE 2:1	ORIG SHEET A3