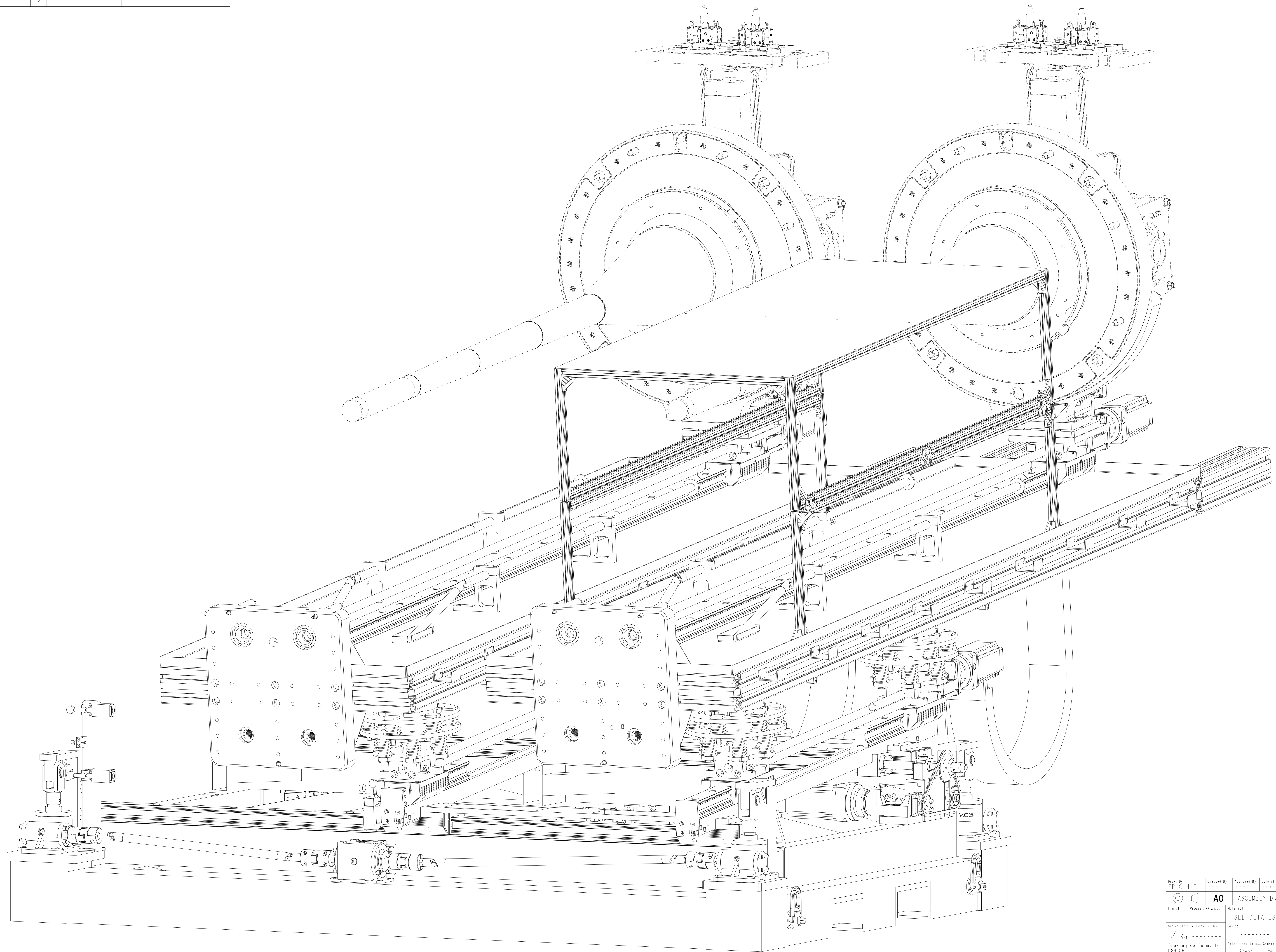
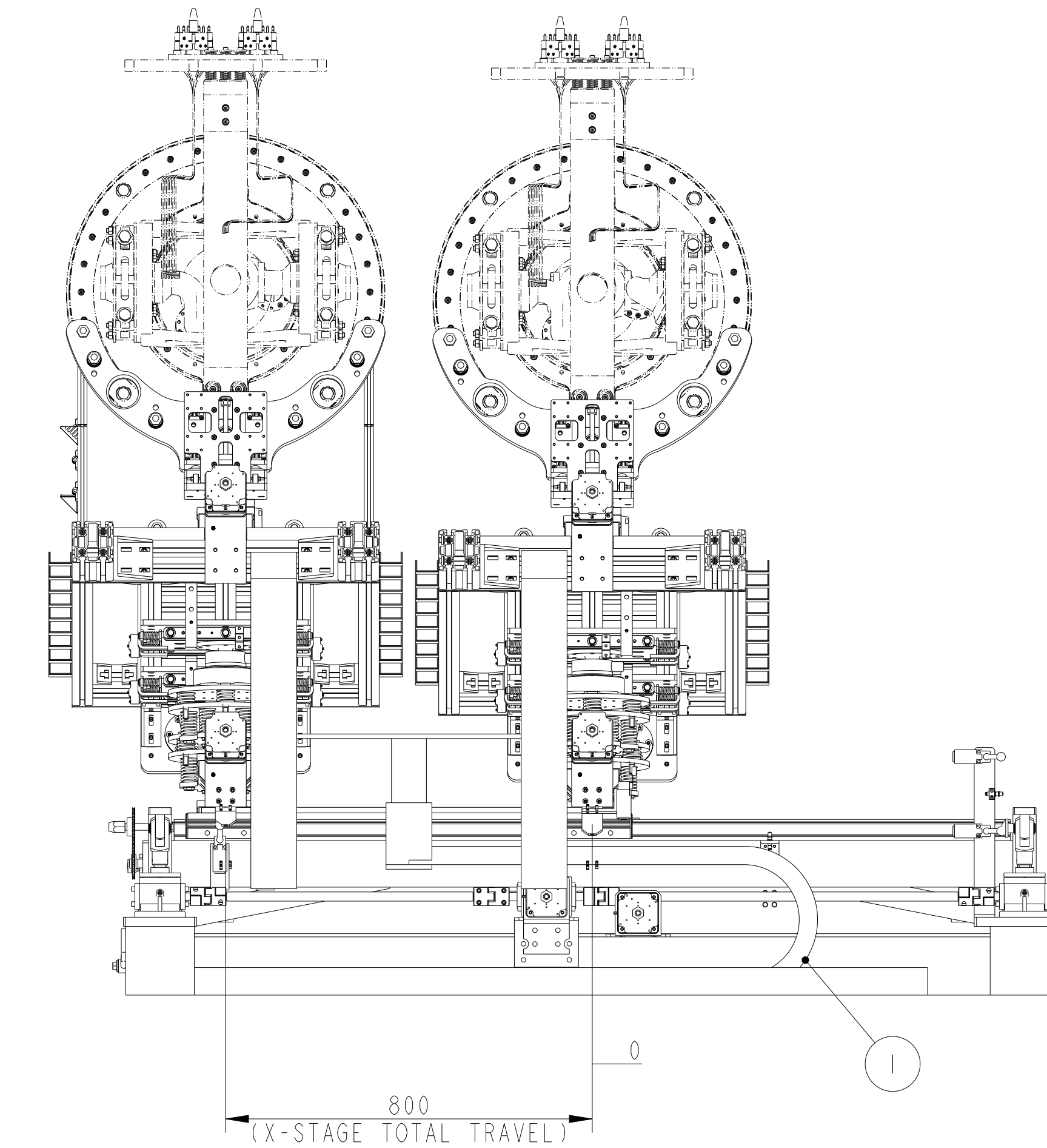
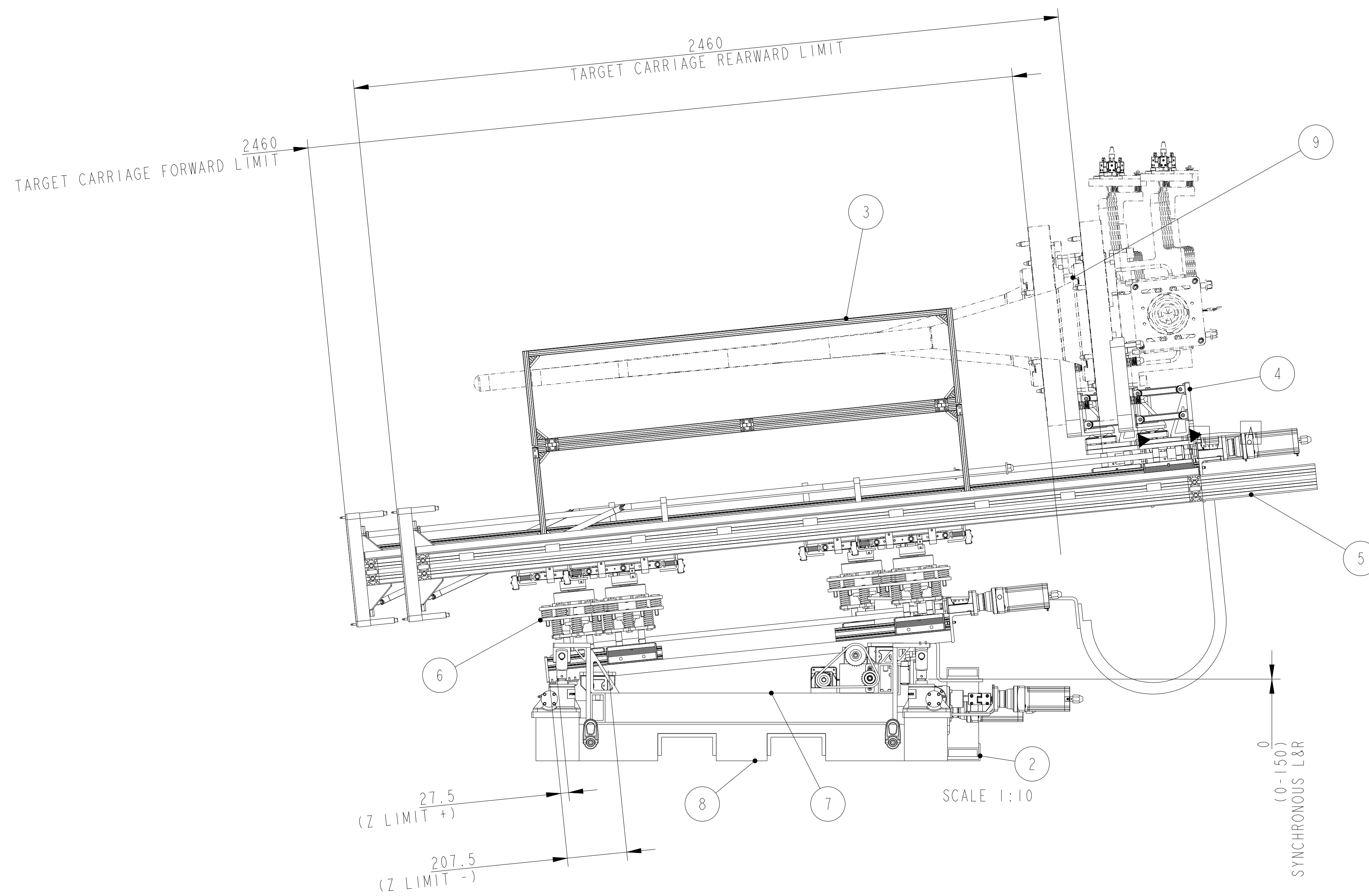
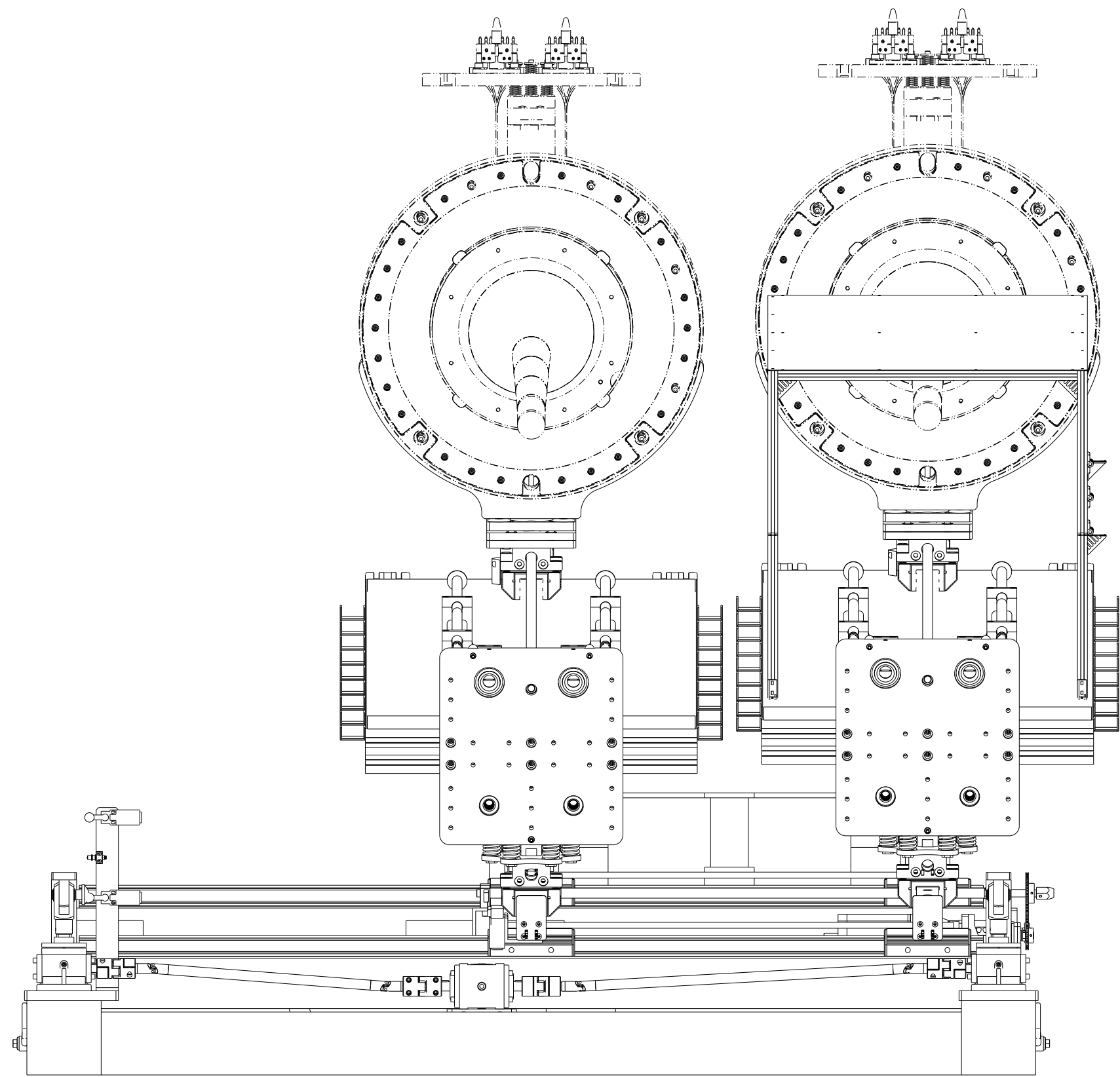
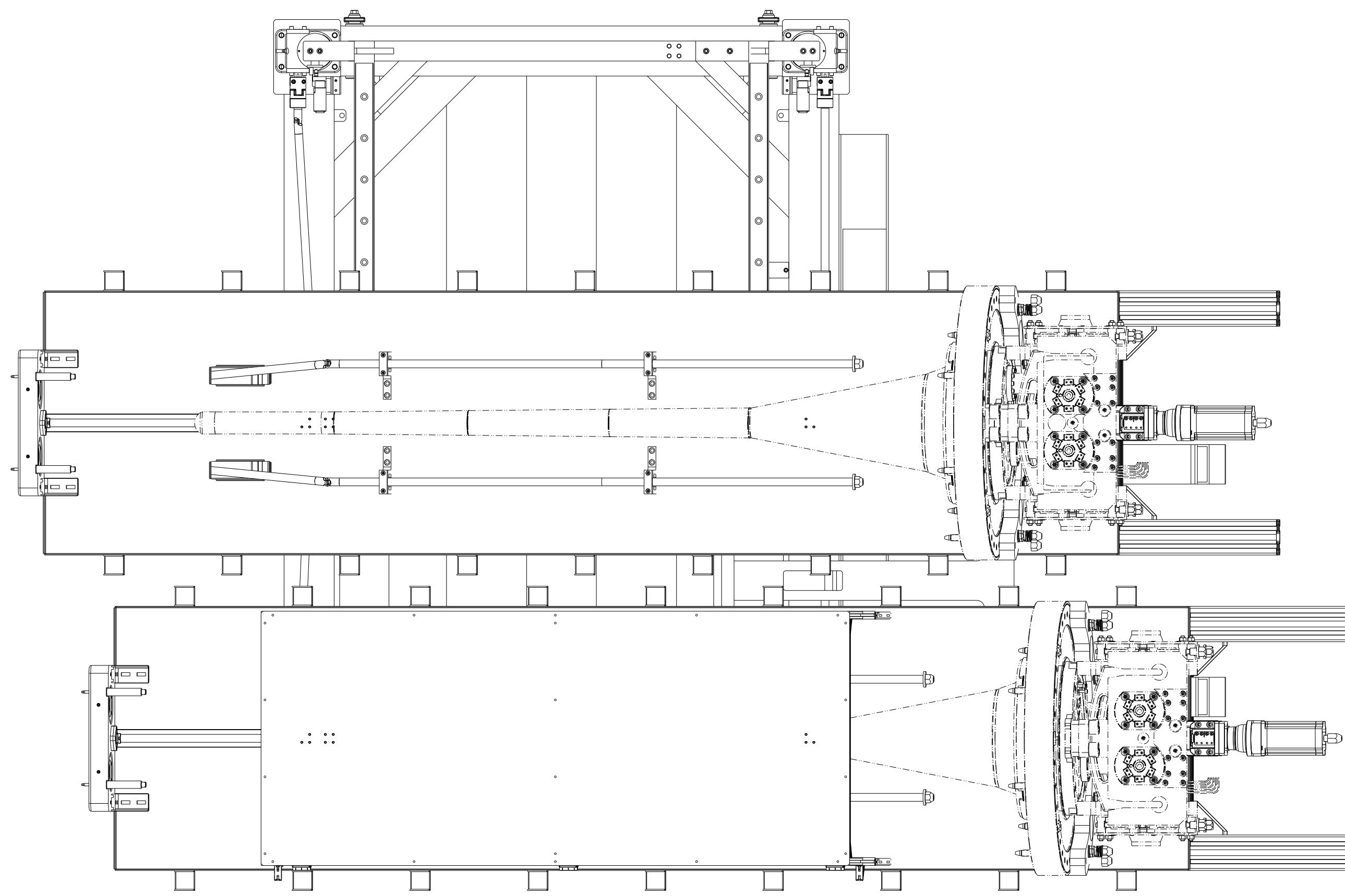


ITEM	DRG NO. / CAT No.	TITLE	QTY	MATERIAL	COMMENTS
1	TD-1283-0519	DRAG CHAIN	1	-----	
2	TD-1283-0516	DRAG CHAIN TRAY	1	-----	
3	TD-1283-0270	TARGET PROTECTIVE FRAME	1	-----	
4	TD-1283-0137	TARGET CARRIAGE ASSY	2	-----	
5	TD-1283-0110	TARGET TABLE	2	-----	
6	TD-1283-0086	Z CARRIAGE & COMPLIANCE STACK ASSY	2	-----	
7	TD-1283-0070	PITCH FRAME/JX & Z DRIVE ASSYS	1	-----	
8	TD-1283-0069	BASE FRAME/SCREW JACK DRIVE ASSY	1	-----	
9	TD-1263-783	TARGET ASSEMBLY	2	-----	



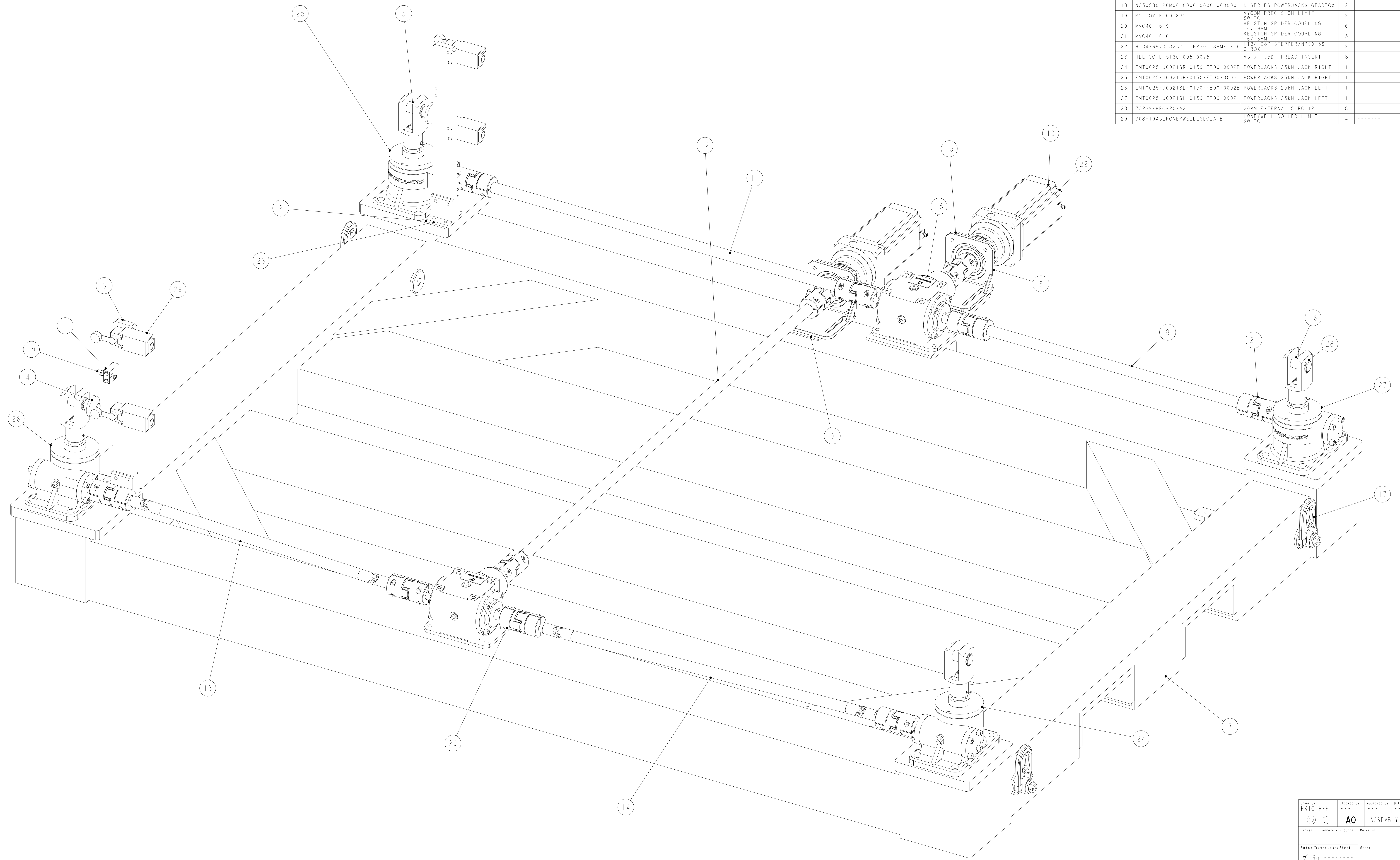
Drawn By ERIC H-F	Checked By AO	Approved By -----	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
Finish Remove All Burrs		Material SEE DETAILS		Title GA LBNF TXS		
Surface Texture Unless Stated Ra		Grade -----		Project -----		
Drawing conforms to BS8888		Tolerances Unless Stated Linear ± mm Angular ± °		Estimated Mass 1056 kg		
Tolerancing ISO 8015		Use On -----		Dimensions to mm unless stated		
				TD-1283-0090 Sheet No. 1/2 Issue A		

ITEM	DRG NO. / CAT No.	TITLE	QTY	MATERIAL	COMMENTS
1	TD-1283-0519	DRAG CHAIN	1	-----	
2	TD-1283-0516	DRAG CHAIN TRAY	1	-----	
3	TD-1283-0270	TARGET PROTECTIVE FRAME	1	-----	
4	TD-1283-0137	TARGET CARRIAGE ASSY	2	-----	
5	TD-1283-0110	TARGET TABLE	2	-----	
6	TD-1283-0086	Z CARRIAGE & COMPLIANCE STACK ASSY	2	-----	
7	TD-1283-0070	PITCH FRAME/X & Z DRIVE ASSYS	1	-----	
8	TD-1283-0069	BASE FRAME/SCREW JACK DRIVE ASSY	1	-----	
9	TD-1263-783	TARGET ASSEMBLY	2	-----	



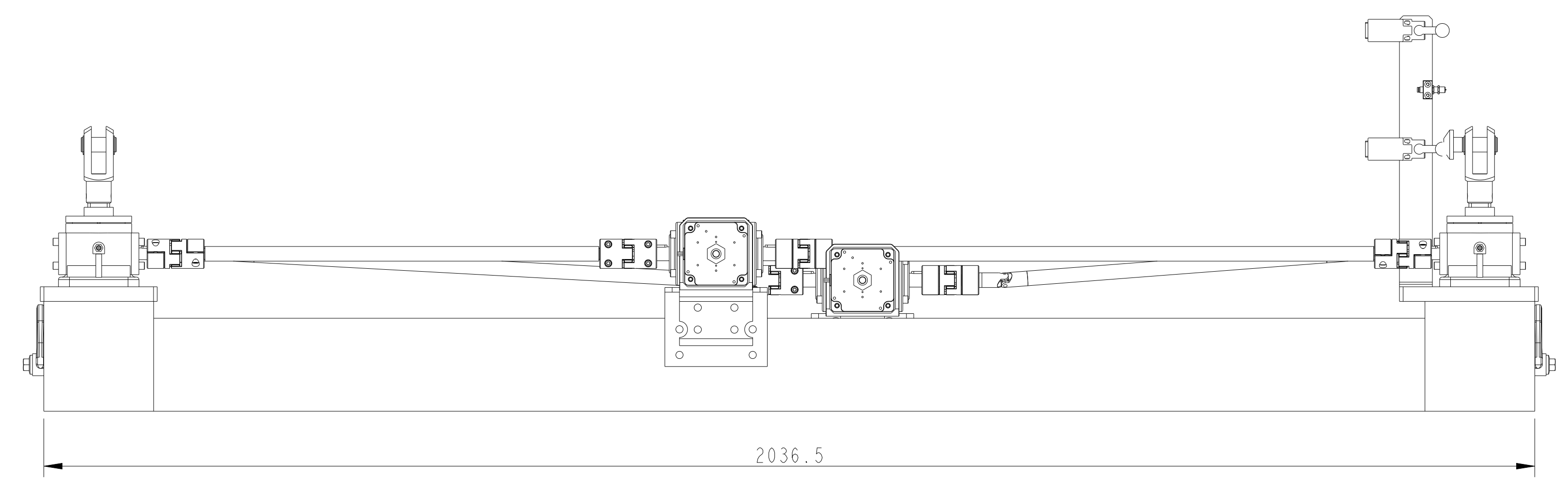
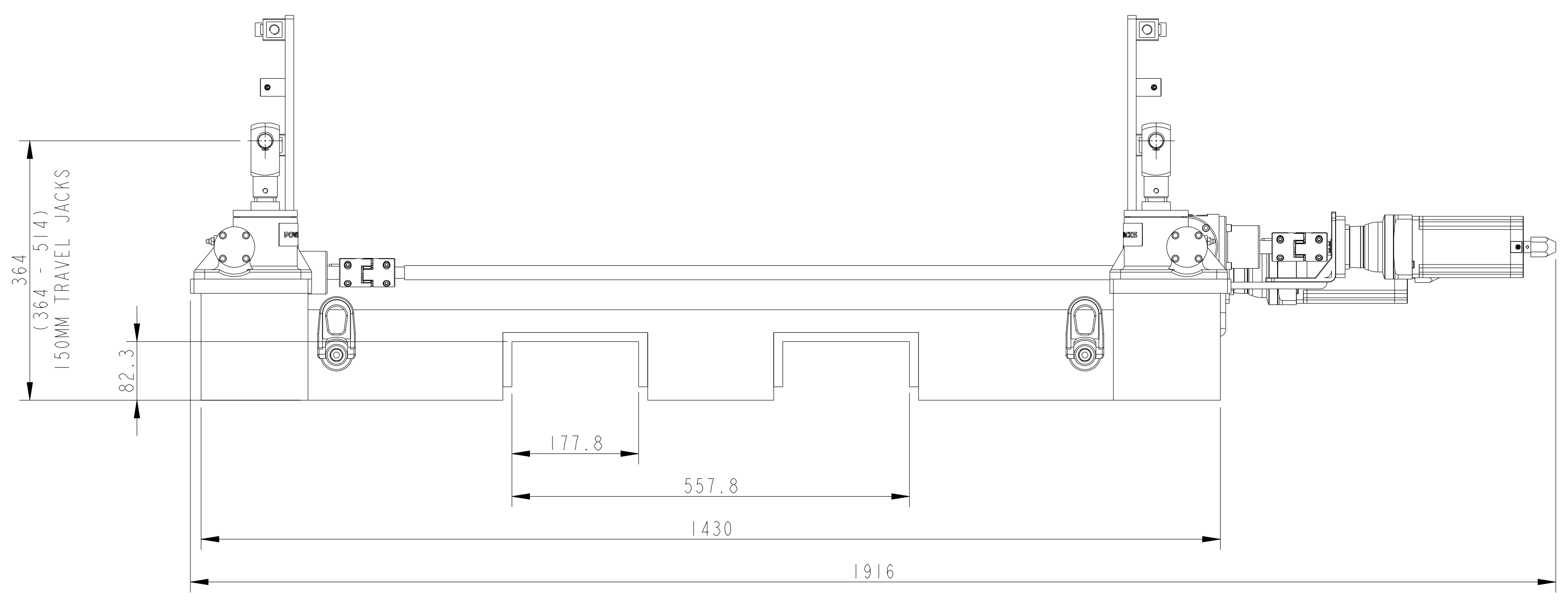
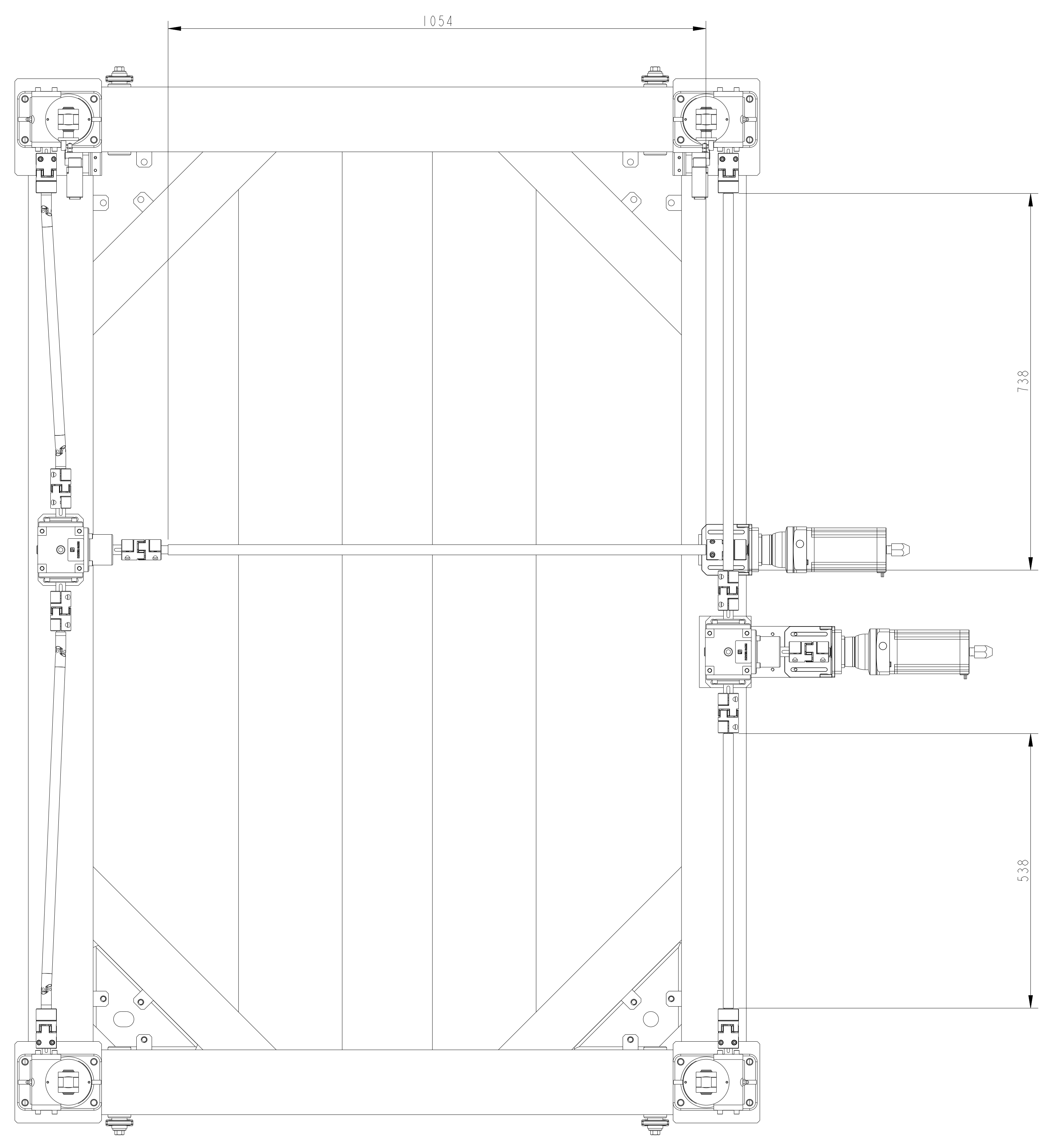
Drawn By ERIC H-F	Checked By AO	Approved By	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
Finish Remove All Burrs Surface Texture Unless Stated Drawing conforms to BS8888 Tolerancing ISO 8015		Material SEE DETAILS Grade Tolerances Unless Stated Linear ± mm Angular ± °		Title <b>GA</b> LBNF TXS Project Estimated Mass 1056 kg Used On Dimensions in mm unless stated		
TECHNOLOGY DEPARTMENT Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110DX				TD-1283-0090 Sheet No. 2/2 Issue A		

ITEM	DRG NO. / CAT No.	TITLE	QTY	MATERIAL	COMMENTS
1	TD-1283-0537	.	2	-----	
2	TD-1283-0536	.	4	-----	
3	TD-1283-0535	.	2	-----	
4	TD-1283-0534	.	2	-----	
5	TD-1283-0533	<PART NAME>	2	<CHANGE ME>	
6	TD-1283-0253	GEARBOX ADAPTER PLATE	2	-----	
7	TD-1283-0245	BASE FRAME FABRICATION	1	-----	
8	TD-1283-0217	20MM DRIVE SHAFT L	1	-----	
9	TD-1283-0199	MOTOR MOUNT SHIM	1	-----	
10	TD-1283-0108	MOTOR OVERRIDE HEX 2	2	-----	
11	TD-1283-0081	20MM DRIVE SHAFT R	1	-----	
12	TD-1283-0059	20MM DRIVE SHAFT LONGITUDINAL	1	-----	
13	TD-1283-0040	DOUBLE UJ SHAFT SHORT	1	-----	
14	TD-1283-0004	DOUBLE UJ SHAFT LONG	1	-----	
15	ST-M7	NEMA 34 MOTOR BRACKET	2	-----	
16	R3454-020	CLEVIS PIN 20MM	2	-----	
17	P4005-M012	DOUBLE SWIVEL LIFTING RING	4	-----	
18	N350S30-20M06-0000-0000-000000	N SERIES POWERJACKS GEARBOX	2	-----	
19	MY.COM.F100.S35	MYCOM PRECISION LIMIT SWITCH	2	-----	
20	MVC40-1619	KELSTON SPIDER COUPLING 16/15MM	6	-----	
21	MVC40-1616	KELSTON SPIDER COUPLING 16/15MM	5	-----	
22	HT34-687D-8232...NPS015S-MF1-10	HT34-687 STEPPER/NPS015S G-BOX	2	-----	
23	HELICOIL-5130-005-0075	M5 x 1.5D THREAD INSERT	8	-----	
24	EMT0025-U0021SR-0150-FB00-0002B	POWERJACKS 25kN JACK RIGHT	1	-----	
25	EMT0025-U0021SR-0150-FB00-0002	POWERJACKS 25kN JACK RIGHT	1	-----	
26	EMT0025-U0021SL-0150-FB00-0002B	POWERJACKS 25kN JACK LEFT	1	-----	
27	EMT0025-U0021SL-0150-FB00-0002	POWERJACKS 25kN JACK LEFT	1	-----	
28	73239-HEC-20-A2	20MM EXTERNAL CIRCLIP	8	-----	
29	308-1945.HONEYWELL.GLC.A1B	HONEYWELL ROLLER LIMIT SWITCH	4	-----	



SCALE 2:5

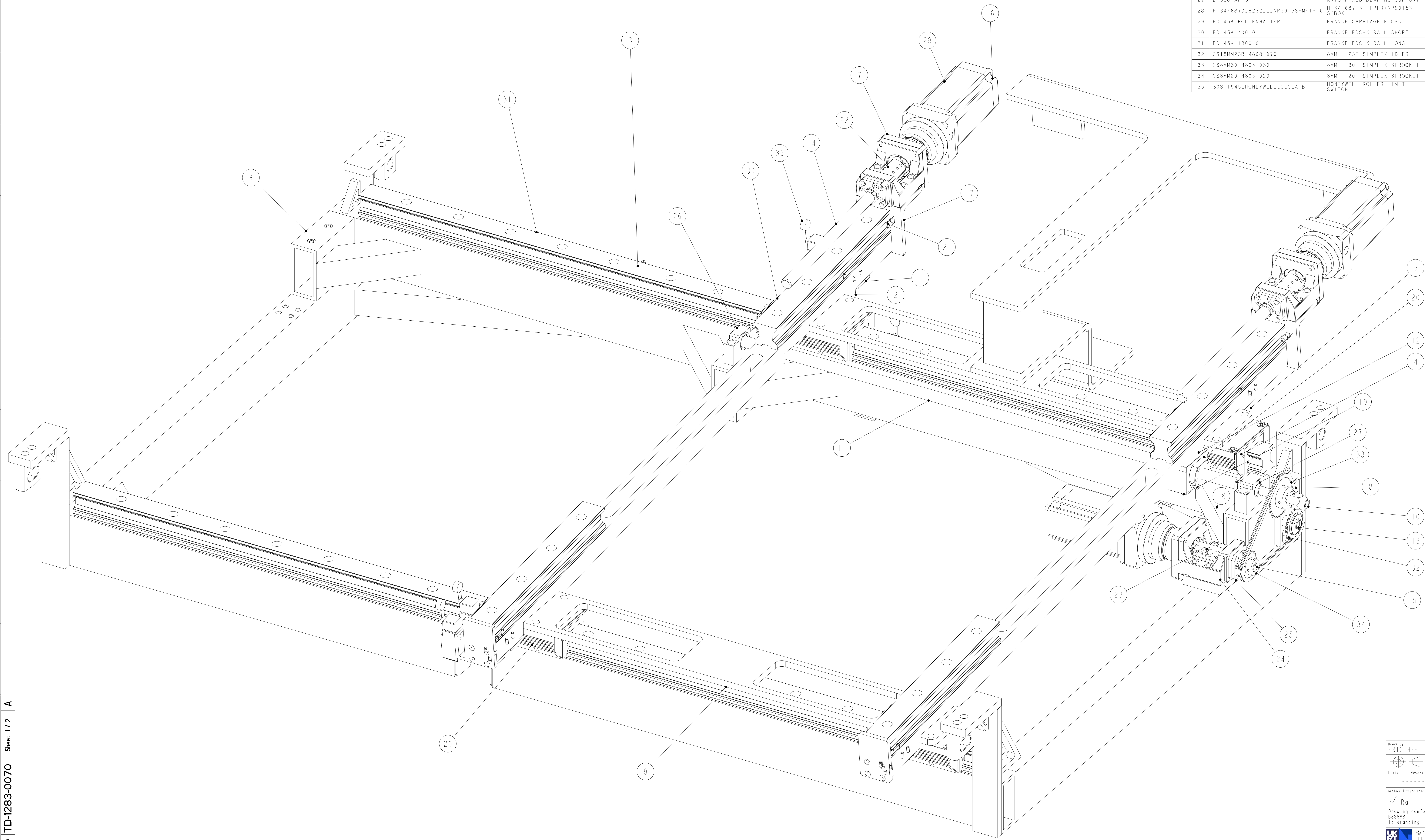
Drawn By ERIC H-F	Checked By AO	Approved By ASSEMBLY DRAWING MADE IN PTC CREO.	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Sheet No. WIP
Finish Remove All Burrs	Material	Title <b>BASE FRAME/SCREW JACK DRIVE ASSY</b>				Project -----
Surface Texture Unless Stated Ra	Grade	Tolerances Unless Stated Linear ± mm Angular ± °				Estimated Mass 190 kg
Drawing conforms to BS8888 Tolerancing ISO 8015	Grade	Project -----				Issue No. -----
TECHNOLOGY DEPARTMENT Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110DX					TD-1283-0069 Sheet No. 1/2 Issue A	



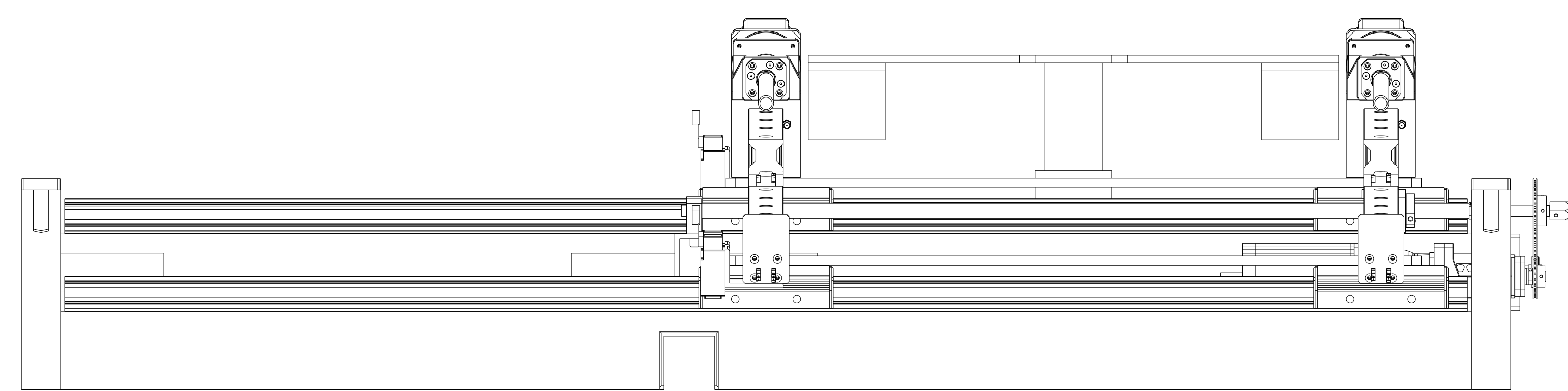
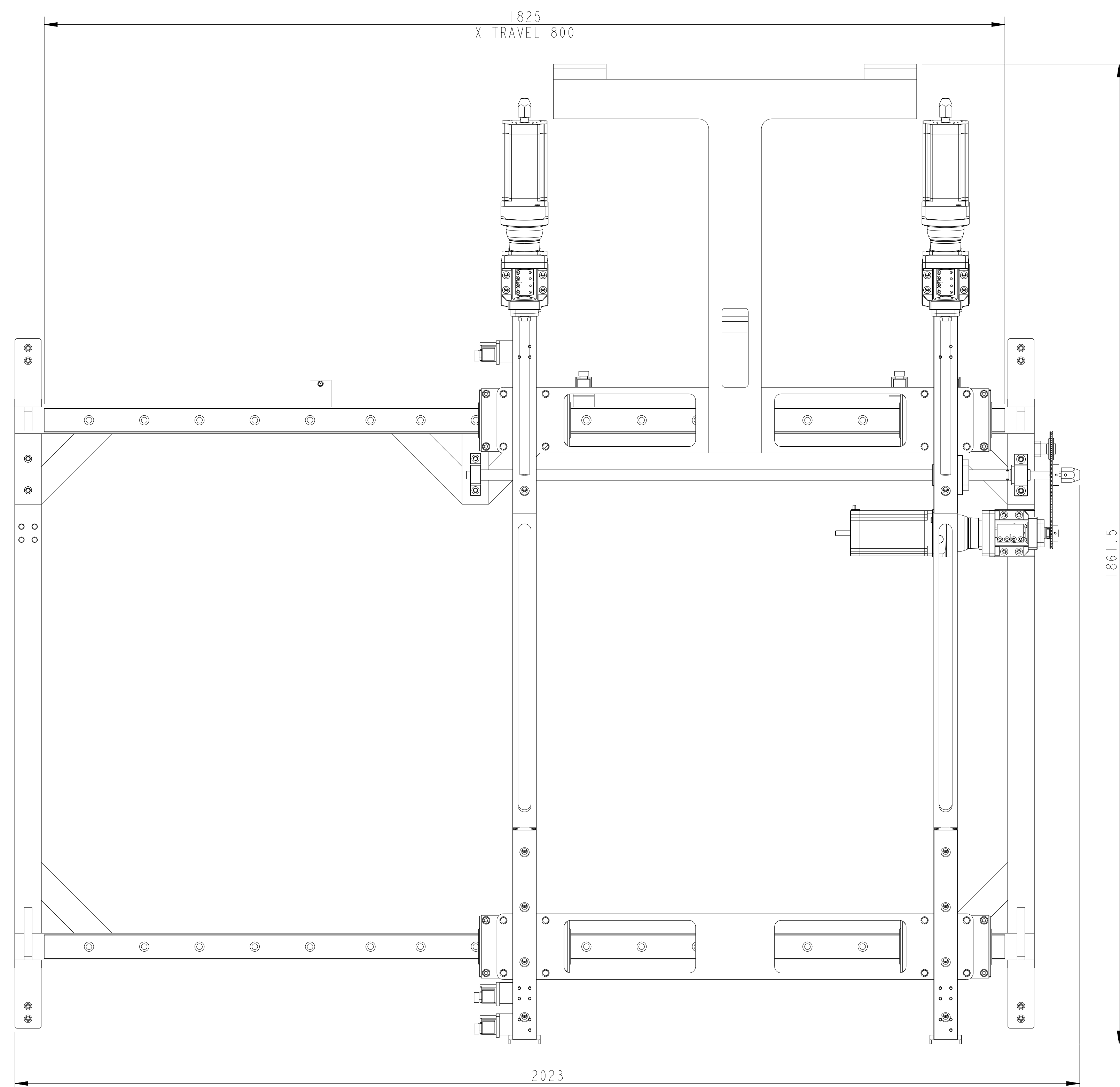
NOTES:  
APPROX MASS 190KG

Drawn By ERIC H-F	Checked By ---	Approved By ---	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
			<b>AO</b> ASSEMBLY DRAWING MADE IN PTC CREO. DO NOT SCALE			
Finish Remove All Burrs	Material	Tolerances Unless Stated		Title <b>BASE FRAME/SCREW JACK DRIVE ASSY</b>		
Surface Texture Unless Stated	Grade	Linear ± mm		Project -----		
✓ Ra	-----	Angular ± °		Estimated Mass <b>190 kg</b>		
Drawing conforms to BS8888	Tolerancing ISO 8015	Linear ± mm		Part No. <b>TD-1283-0069</b>		
		TECHNOLOGY DEPARTMENT Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110DX		Issue No. TD-1283-0090 Dimensions 1:1 mm unless stated		
				Sheet No. <b>2/2</b>		
				Issue <b>A</b>		

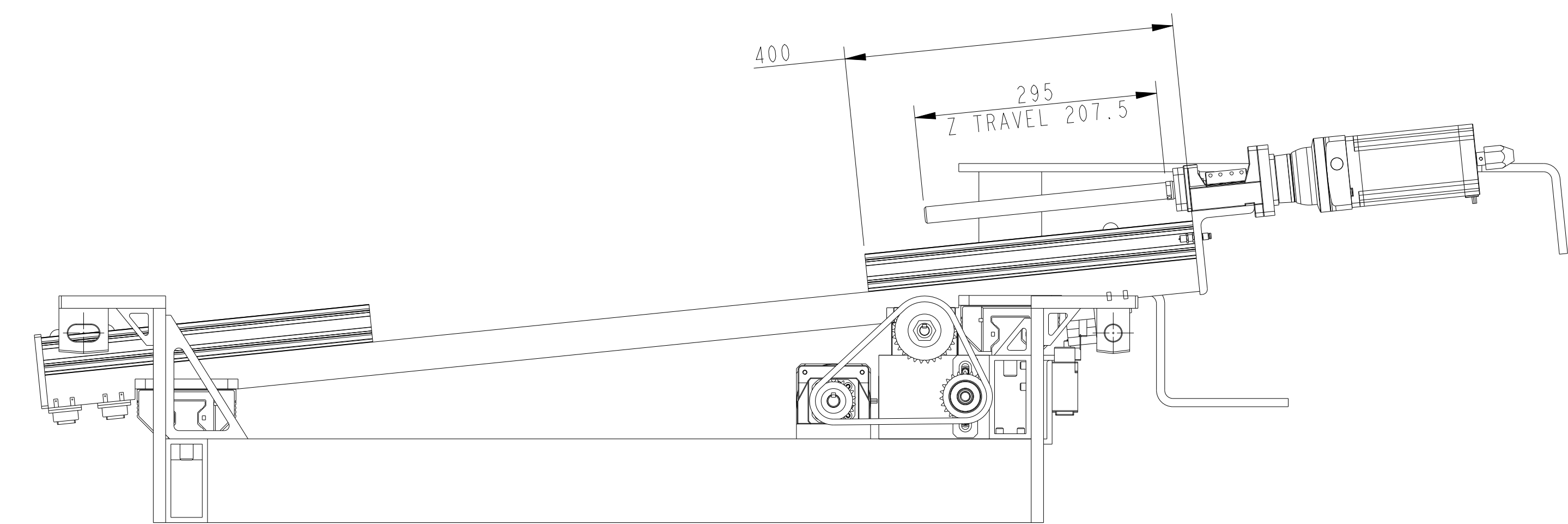
ITEM	DRG NO. / CAT No.	TITLE	QTY	MATERIAL	COMMENTS
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2	TD-1283-0527	.	1	.....	
3	TD-1283-0526	.	1	.....	
4	TD-1283-0525	.	3	.....	
5	TD-1283-0524	.	1	.....	
6	TD-1283-0260	X-STAGE FRAME	1	.....	
7	TD-1283-0253	GEARBOX ADAPTER PLATE	3	.....	
8	TD-1283-0243	CHAIN	1	.....	
9	TD-1283-0152	Z-STAGE & DRAG CHAIN FRAME	1	.....	
10	TD-1283-0150	MOTOR OVERRIDE HEX	1	.....	
11	TD-1283-0134	X-STAGE 20x10 LEAD SCREW	1	.....	
12	TD-1283-0132	X-DRIVE SPACER	1	.....	
13	TD-1283-0125	IDLER BOSS	1	.....	
14	TD-1283-0118	Z-STAGE 20x10 LEAD SCREW	2	.....	
15	TD-1283-0115	16/15MM STEPPED SHAFT	1	.....	
16	TD-1283-0108	MOTOR OVERRIDE HEX 2	2	.....	
17	TD-1283-0105	ANGLE BRACKET	2	.....	
18	RIVNUT-233-16-050-040	RIVNUT	16	.....	
19	R150610050	BALL NUT HOUSING	1	.....	
20	R150214063	BALL NUT	1	.....	
21	MYCOM_F100_S35	MYCOM PRECISION LIMIT SWITCH	3	.....	
22	MSPX-16-14-F	14/16MM SHAFT COUPLING	2	.....	
23	MCLC-16-16-F	16/16MM SHAFT COUPLING	1	.....	
24	MBA15-F	NEMA34 BRACKET FK15	3	.....	
25	L1390-FK15	FK15 FIXED BEARING SUPPORT	3	.....	
26	L1389-AF15	AF15 FLOATING BEARING SUPPORT	1	.....	
27	L1388-AK15	AK15 FIXED BEARING SUPPORT	1	.....	
28	HT34-687D_B232...NPS01SS-MF1-10	HT34-687 STEPPER/NPS01SS 0_BOX	3	.....	
29	FD_45K.ROLLENWALTER	FRANKE CARRIAGE FDC-K	4	.....	
30	FD_45K_400_0	FRANKE FDC-K RAIL SHORT	4	.....	
31	FD_45K_1800_0	FRANKE FDC-K RAIL LONG	2	.....	
32	CS8MM23B-4808-970	8MM - 23T SIMPLEX IDLER	1	.....	
33	CS8MM30-4805-030	8MM - 30T SIMPLEX SPROCKET	1	.....	
34	CS8MM20-4805-020	8MM - 20T SIMPLEX SPROCKET	1	.....	
35	308-1945_HONEYWELL_GLC.A1B	HONEYWELL ROLLER LIMIT SWITCH	6	.....	



Drawn By ERIC H-F	Checked By AO	Approved By ASSEMBLY DRAWING MADE IN PTC CREO. DO NOT SCALE	Date of Issue ..-.-/..-.-/..-.-	Mod. Sheet No. .....	MANUFACTURE ONLY WHEN DRAWING IS RELEASED WIP
Finish Remove All Burrs	Material .....	Title <b>PITCH FRAME/X &amp; Z DRIVE ASSYS</b>			
Surface Texture Unless Stated Ra	Grade .....	Project .....			
Drawing conforms to BS8888 Tolerancing ISO 8015	Tolerances Unless Stated Linear ± . mm Angular ± °	Estimated Mass 112 kg		TD-1283-0070	
TECHNOLOGY DEPARTMENT Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110DX		Issue On TD-1283-0090	Dimensions in mm unless stated	Sheet No. 1/2	Issue A



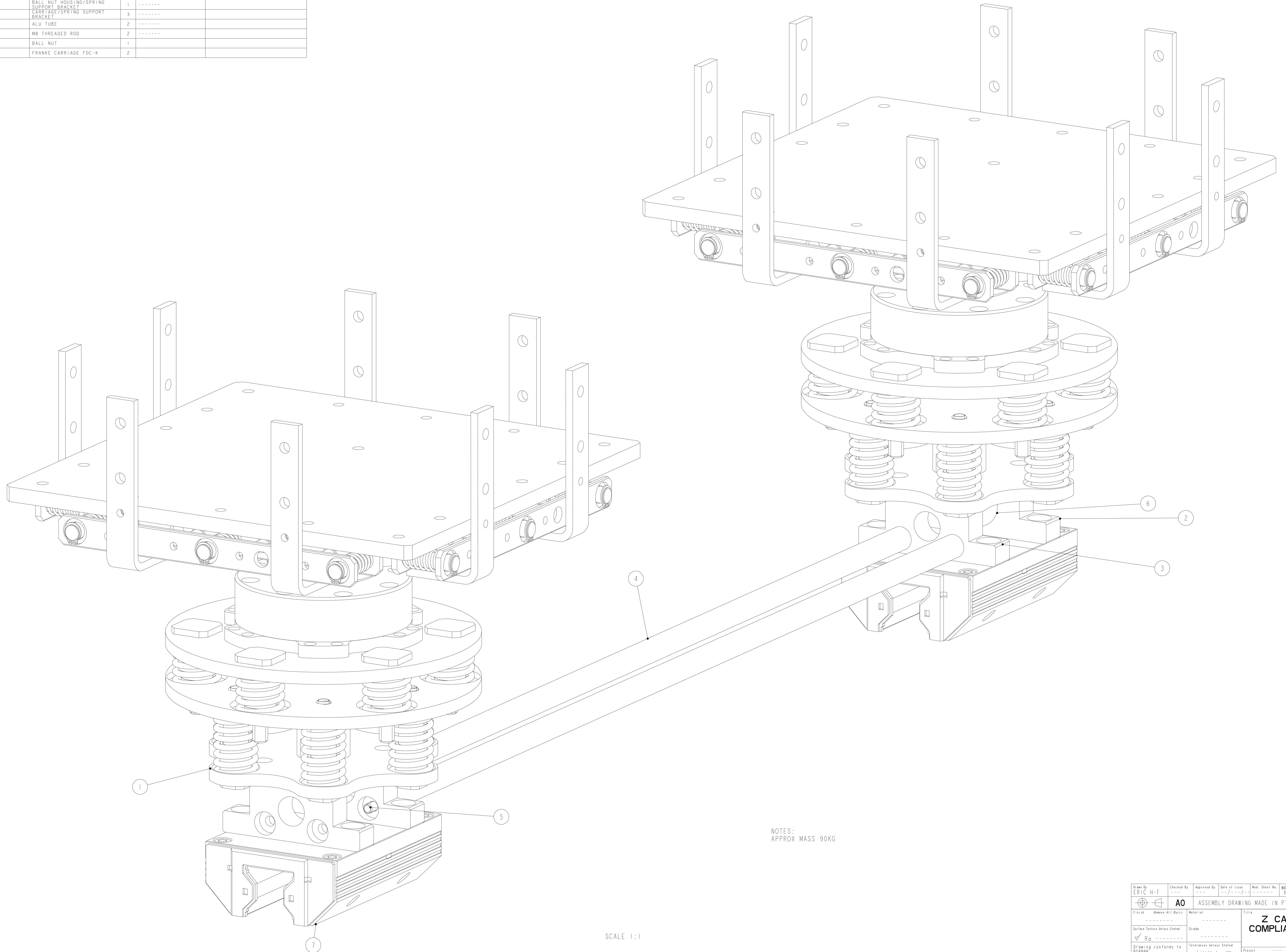
SCALE 1:5



NOTES:  
APPROX. MASS 112KG

Drawn By ERIC H-F	Checked By ---	Approved By ---	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
		<b>AO</b> ASSEMBLY DRAWING MADE IN PTC CREO. DO NOT SCALE		Title <b>PITCH FRAME/X &amp; Z DRIVE ASSYS</b>		
Surface Texture Unless Stated Ra	Material		Grade		Project -----	
Drawing conforms to BS8888 Tolerancing ISO 8015	Tolerances Unless Stated Linear ± mm Angular ± °		Estimated Mass 112 kg		<b>TD-1283-0070</b> Issue No. ----- Sheet No. <b>2/2</b> Issue <b>A</b>	
SCIENCE AND TECHNOLOGY FACILITIES COUNCIL		© 2024 ORNL/STFC TECHNOLOGY DEPARTMENT Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110DX		Use On TD-1283-0090 Dimensions in mm unless stated		

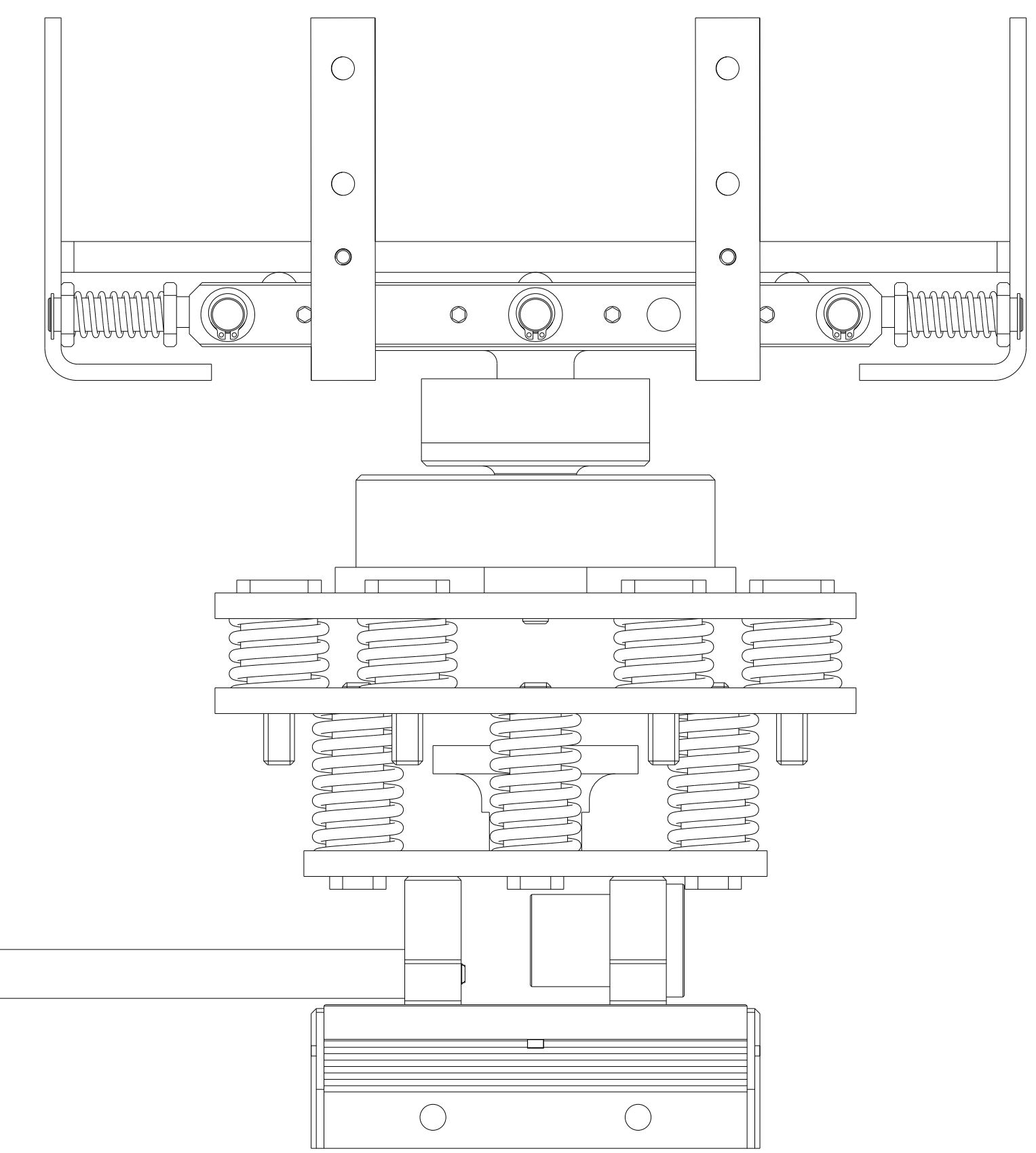
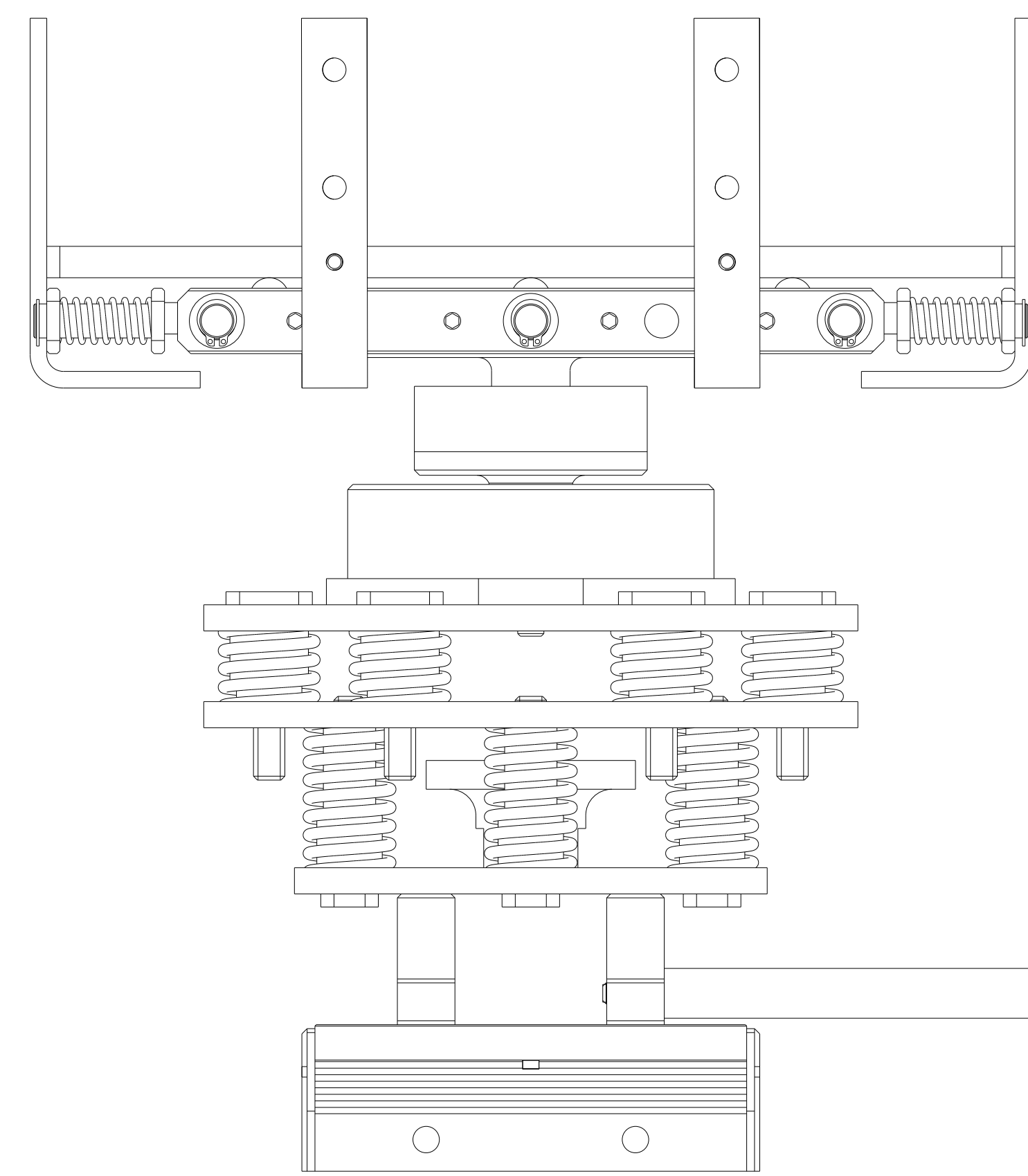
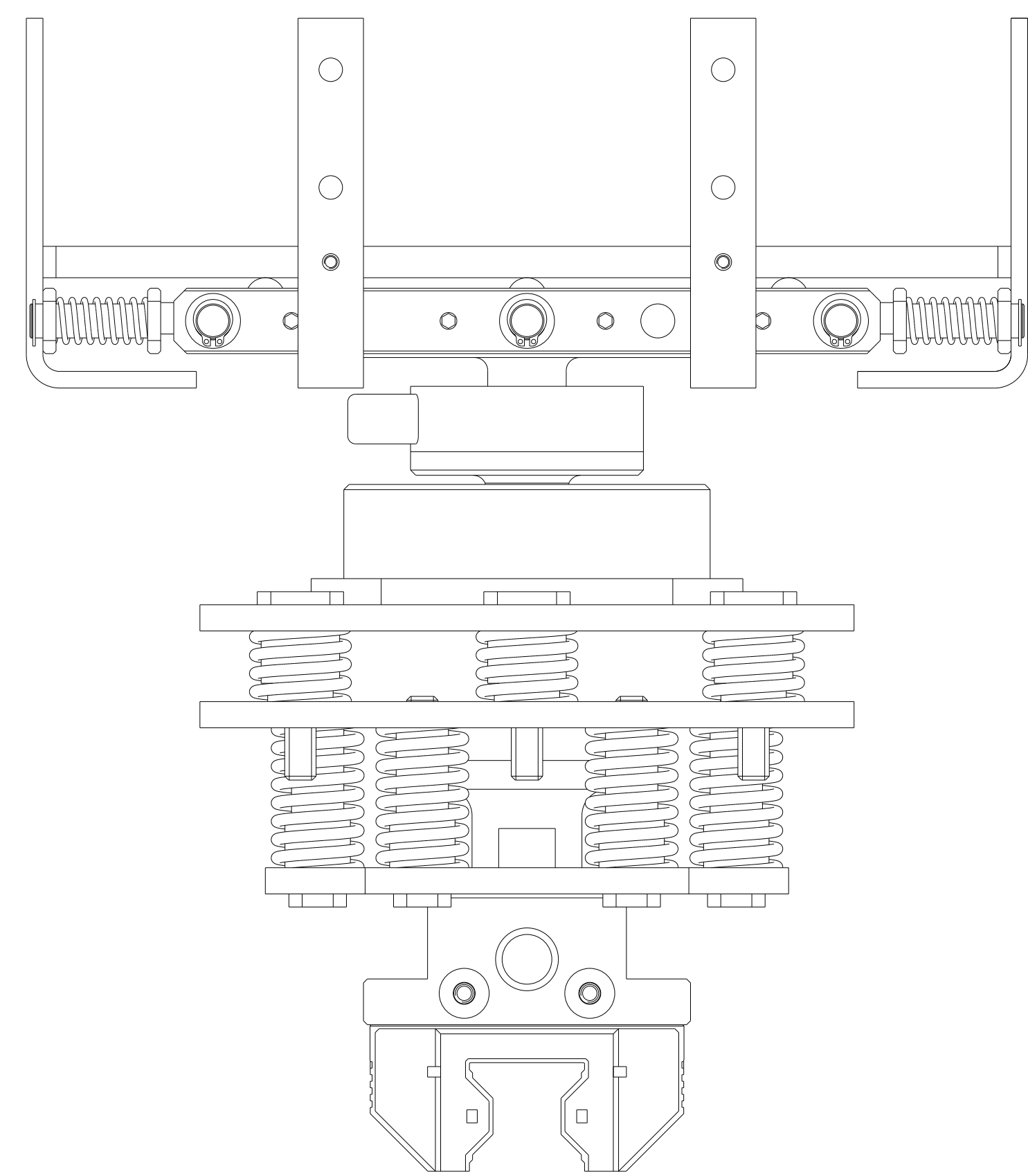
ITEM	DRG NO. / CAT No.	TITLE	QTY	MATERIAL	COMMENTS
1	TD-1283-0411	COMPLIANT STACK ASSY	2	-----	
2	TD-1283-0274	BALL NUT HOUSING/SPRING SUPPORT BRACKET	1	-----	
3	TD-1283-0273	CARRIAGE/SPRING SUPPORT BRACKET	3	-----	
4	TD-1283-0272	ALU TUBE	2	-----	
5	TD-1283-0271	M8 THREADED ROD	2	-----	
6	R150214063	BALL NUT	1		
7	FD_45K_ROLLENHALTER	FRANKE CARRIAGE FDC-K	2		



NOTES:  
APPROX MASS 90KG

SCALE 1:1

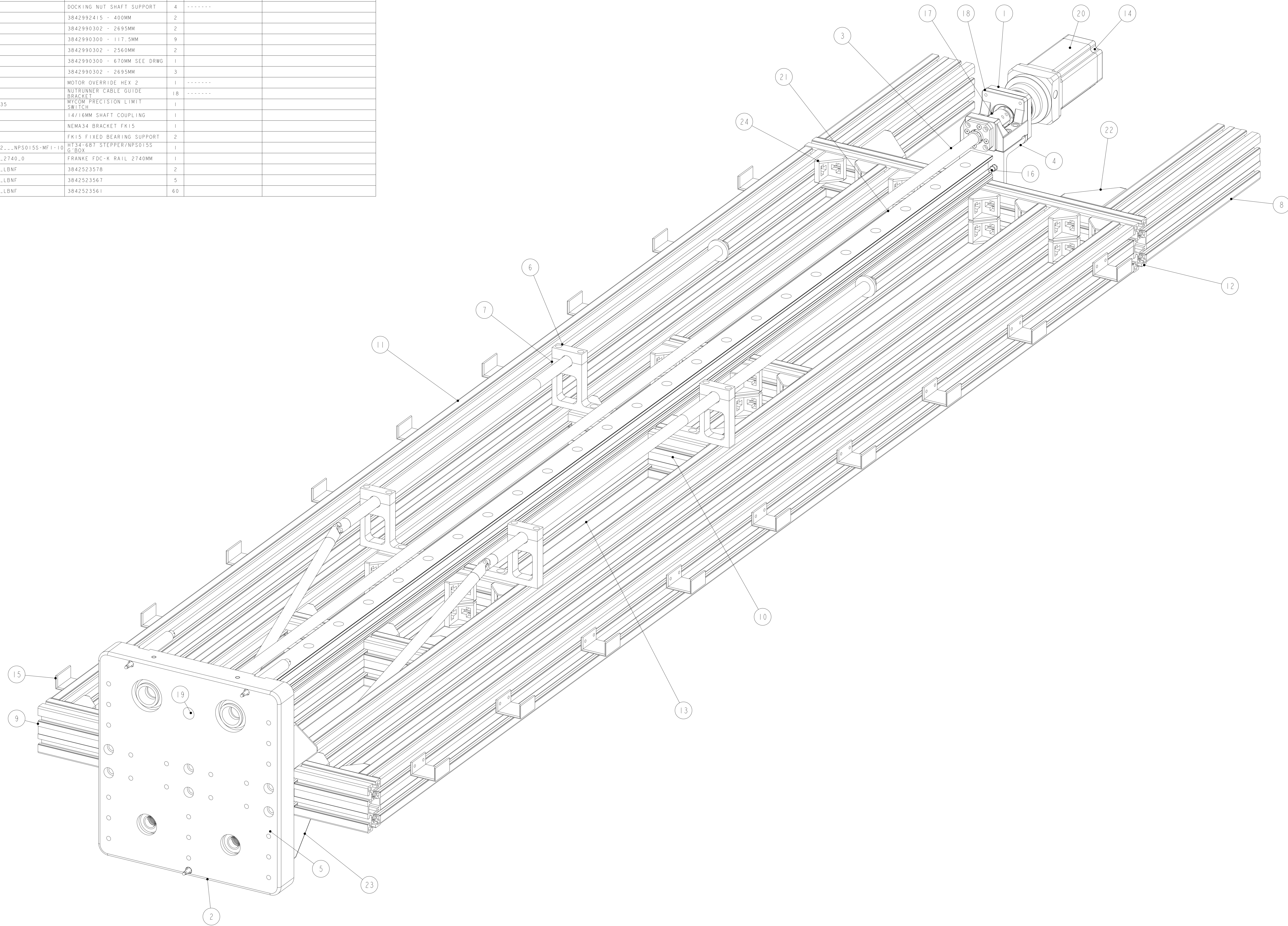
Drawn By ERIC H-F	Checked By	Approved By	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
Finish Remove All Burrs Surface Texture Unless Stated Ra Drawing conforms to BS8888 Tolerancing ISO 8015			Material Grade Tolerances Unless Stated Linear ± mm Angular ± °		Title <b>Z CARRIAGE &amp; COMPLIANT STACK ASSY</b> Project Estimated Mass 90 kg Used On TD-1283-0090	
UK TECHNOLOGY DEPARTMENT Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110DX				Issue No. 1/2 Issue Date A		



Drawn By ERIC H-F	Checked By ---	Approved By ---	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
		<b>AO</b>		<b>ASSEMBLY DRAWING MADE IN PTC CREO. DO NOT SCALE</b>		
Finish Remove All Burrs	Material -----	<b>Z CARRIAGE &amp; COMPLIANCE STACK ASSY</b>		Title		
Surface Texture Unless Stated Ra -----	Grade -----	Drawing conforms to BS8888 Tolerancing ISO 8015		Tolerances Unless Stated Linear ± mm Angular ± °		Project ----- Estimated Mass 90 kg Used On TD-1283-0090 Dimensions in mm unless stated
			TECHNOLOGY DEPARTMENT Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110DX		TD-1283-0086 Sheet No. 2/2 Issue A	

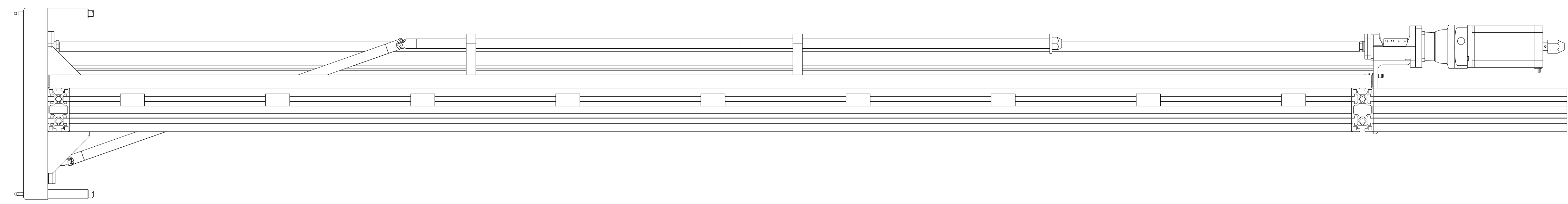
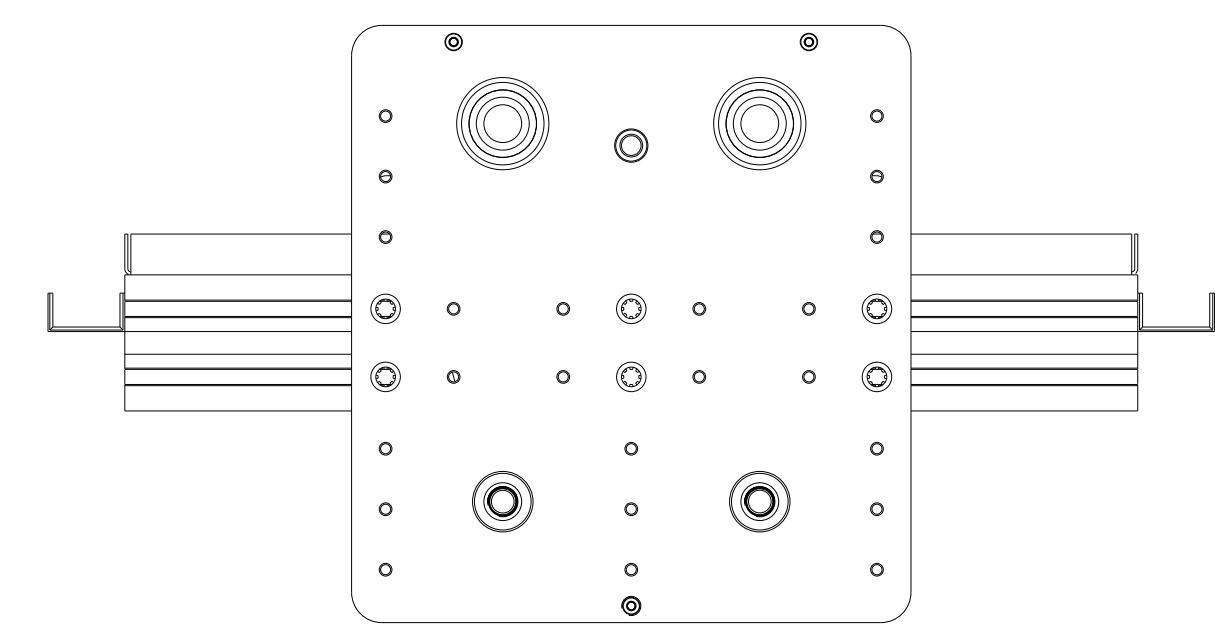
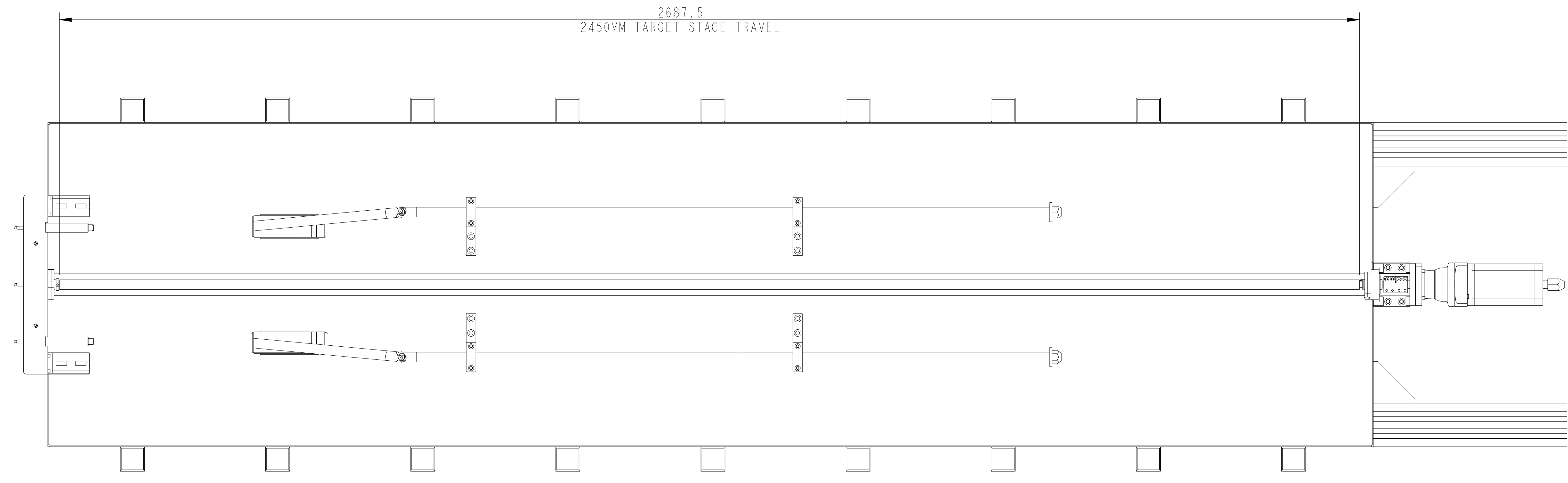


ITEM	DRG. NO. / CAT No.	TITLE	QTY	MATERIAL	COMMENTS
1	TD-1283-0253	GEARBOX ADAPTER PLATE	1	-----	
2	TD-1283-0166	TXS DOCKING INTERFACE	1	SEE DETAILS	
3	TD-1283-0154	TARGET DRIVE LEAD SCREW	1	-----	
4	TD-1283-0147	TARGET MOTOR ANGLE BRACKET	1	-----	
5	TD-1283-0129	DOCKING NUT SHAFT	1	-----	
6	TD-1283-0127	DOCKING NUT SHAFT CLAMP	4	-----	
7	TD-1283-0126	DOCKING NUT SHAFT SUPPORT	4	-----	
8	TD-1283-0123	3842992415 - 400MM	2		
9	TD-1283-0122	3842990302 - 2695MM	2		
10	TD-1283-0116	3842990300 - 117.5MM	9		
11	TD-1283-0114	3842990302 - 2560MM	2		
12	TD-1283-0113	3842990300 - 670MM SEE DRWG	1		
13	TD-1283-0111	3842990302 - 2695MM	3		
14	TD-1283-0108	MOTOR OVERRIDE HEX 2	1	-----	
15	TD-1283-0065	NUTRUNNER CABLE GUIDE BRACKET	18	-----	
16	MY_COM.F100.S35	MYCOM PRECISION LIMIT SWITCH	1		
17	MSPX-16-14-F	14/16MM SHAFT COUPLING	1		
18	MBA15-F	NEMA34 BRACKET FK15	1		
19	LI390-FK15	FK15 FIXED BEARING SUPPORT	2		
20	HT34-68TD_8232...NPS0155-MF1-10	HT34-687 STEPPER/NPS0155 G-BOX	1		
21	FDC45_8436SAN.2740_0	FRANKE FDC-K RAIL 2740MM	1		
22	BRACKET_90X90_LBNF	3842523578	2		
23	BRACKET_45X90_LBNF	3842523567	5		
24	BRACKET_45X45_LBNF	3842523561	60		

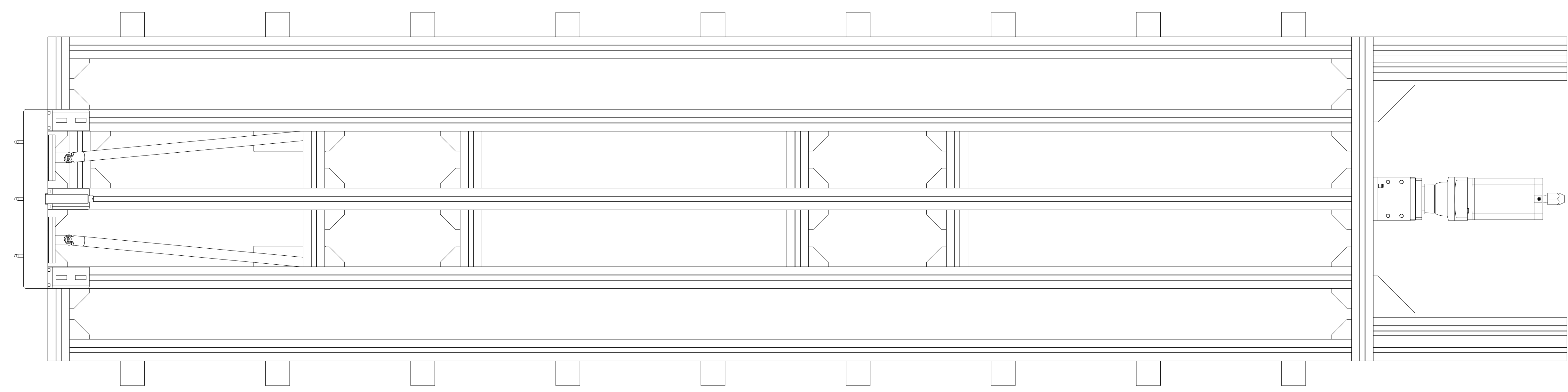
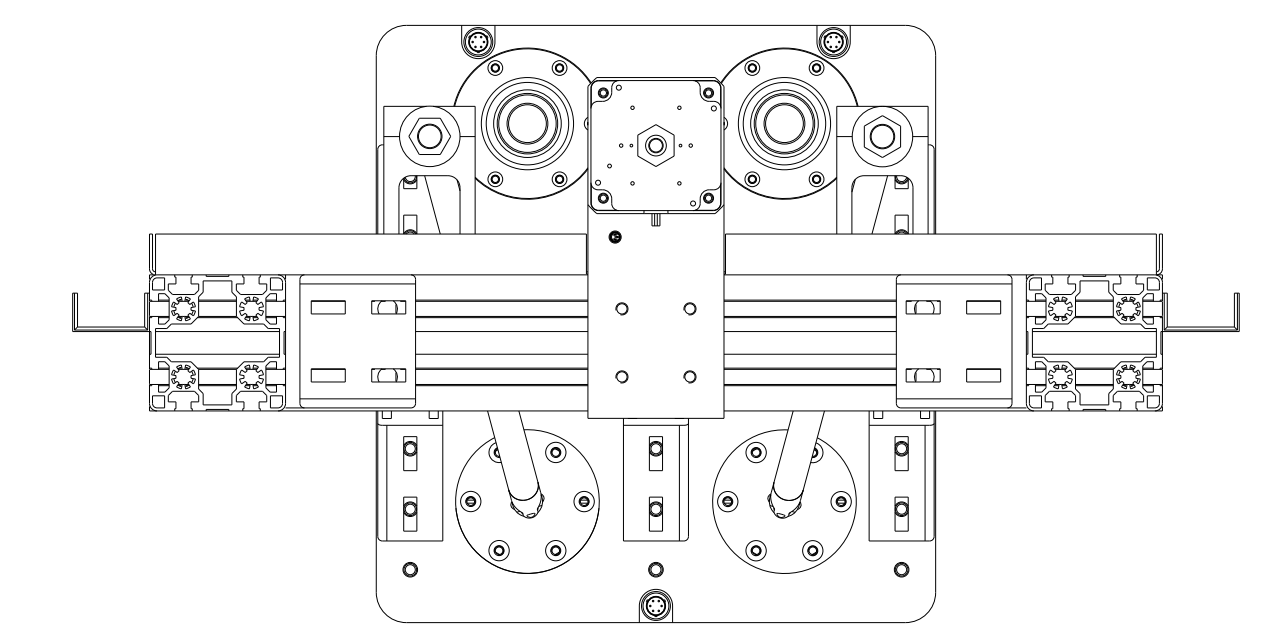


NOTES:  
APPROX MASS 132KG

Drawn By ERIC H-F	Checked By AO	Approved By	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Issue WIP
Finish Remove All Burrs Surface Texture Unless Stated Ra Drawing conforms to BS8888 Tolerancing ISO 8015		Material Grade Tolerances Unless Stated Linear ± mm Angular ± °		Title <h3>TARGET TABLE</h3> Project Estimated Mass 132 kg Use On TD-1283-0090 Dimensions unless stated Sheet No. 1/2 Issue A		
UK Science and Technology Facilities Council		© 2017 UKRI/STFC TECHNOLOGY DEPARTMENT Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110DX		TD-1283-010		

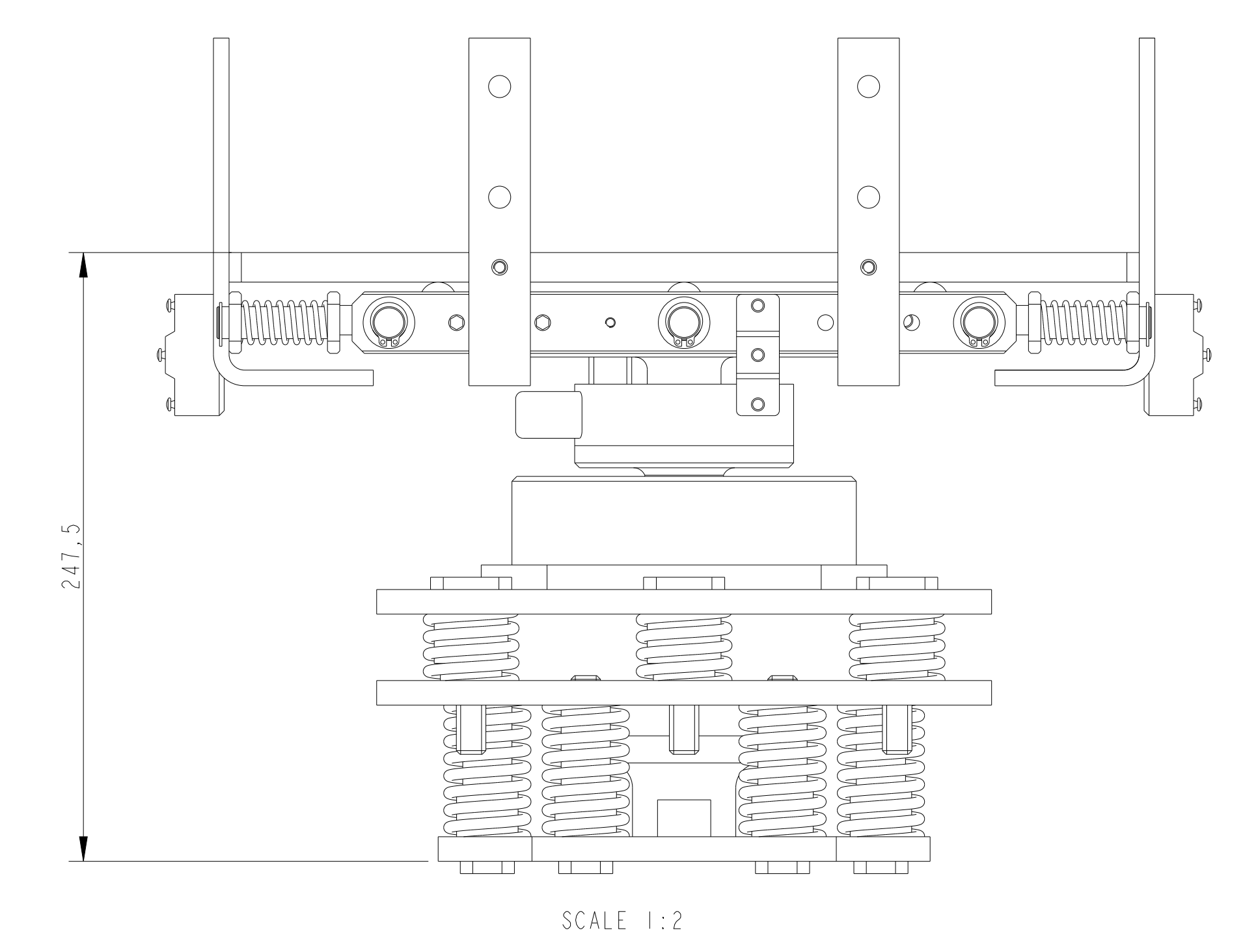
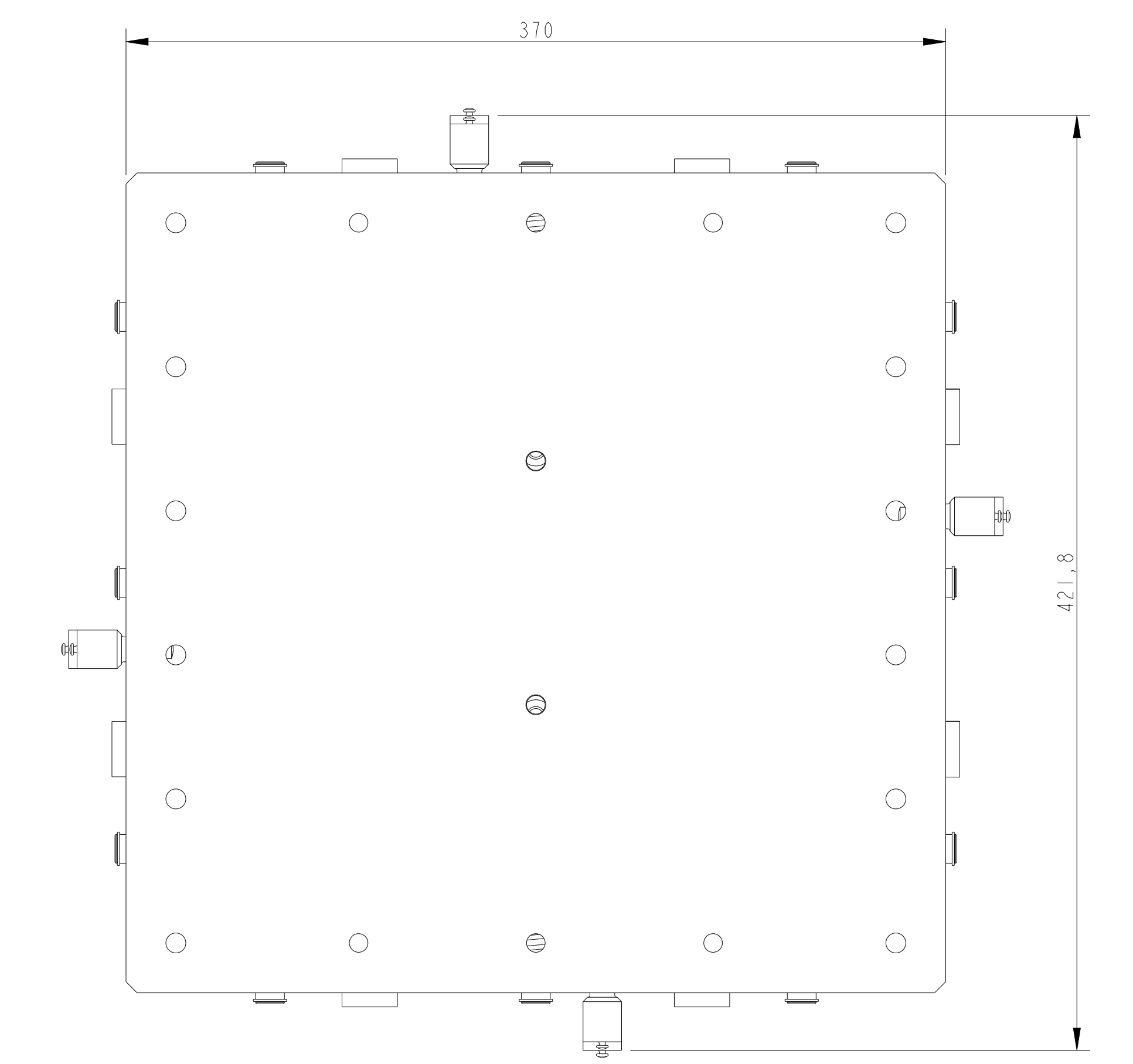
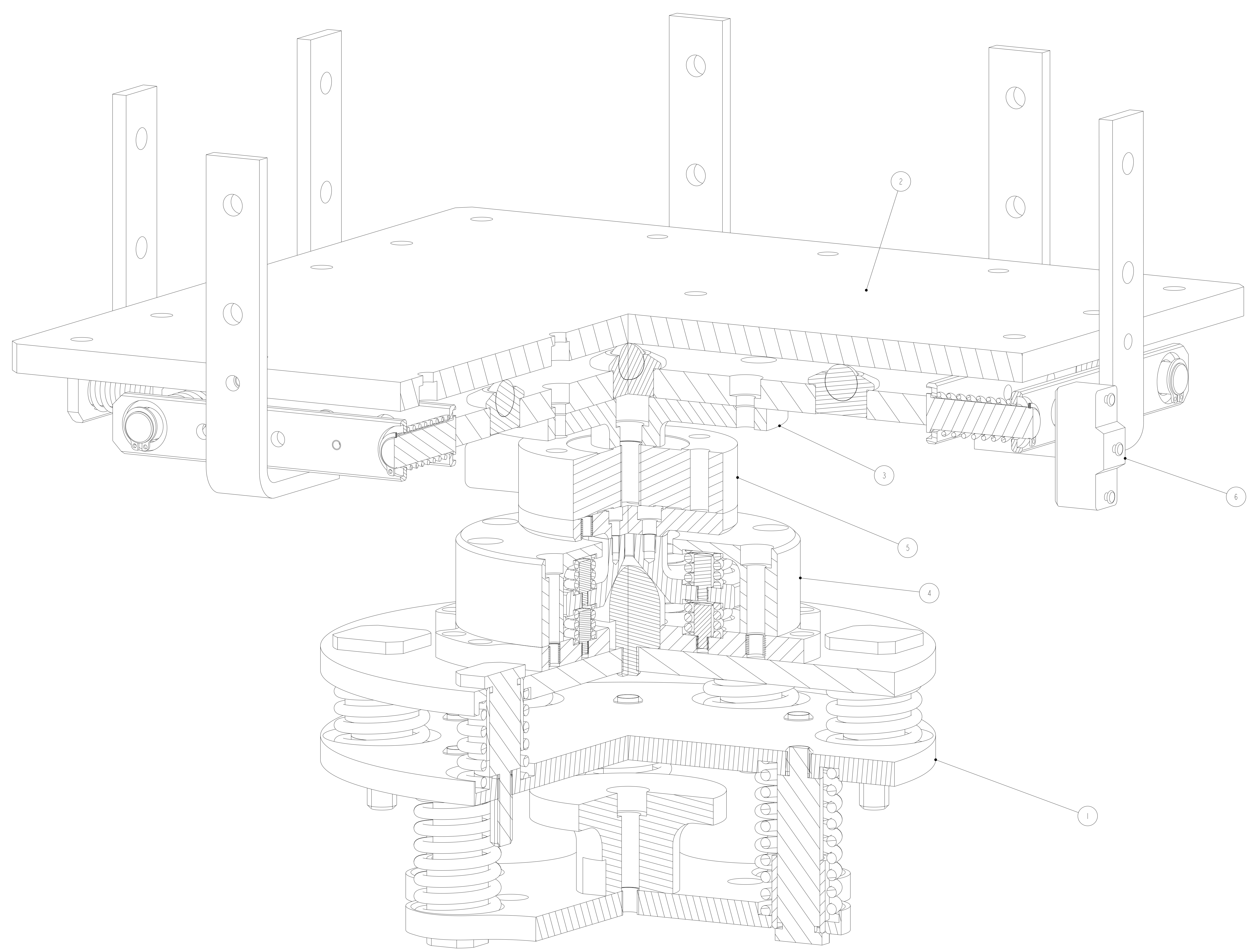


SCALE 1:5



Drawn By ERIC H-F	Checked By ---	Approved By ---	Date of Issue --/--/---	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
		<b>ASSEMBLY DRAWING MADE IN PTC CREO. DO NOT SCALE</b>				
Finish Remove All Burrs	Material	Title <b>TARGET TABLE</b>				
Surface Texture Unless Stated Ra	Grade	Project -----				
Drawing conforms to BS8888 Tolerancing ISO 8015	Tolerances Unless Stated Linear ± mm Angular ± °	Estimated Mass 132 kg		<b>TD-1283-0110</b>		
		TECHNOLOGY DEPARTMENT Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110DX		Issue No. 2/2	Sheet No. A	

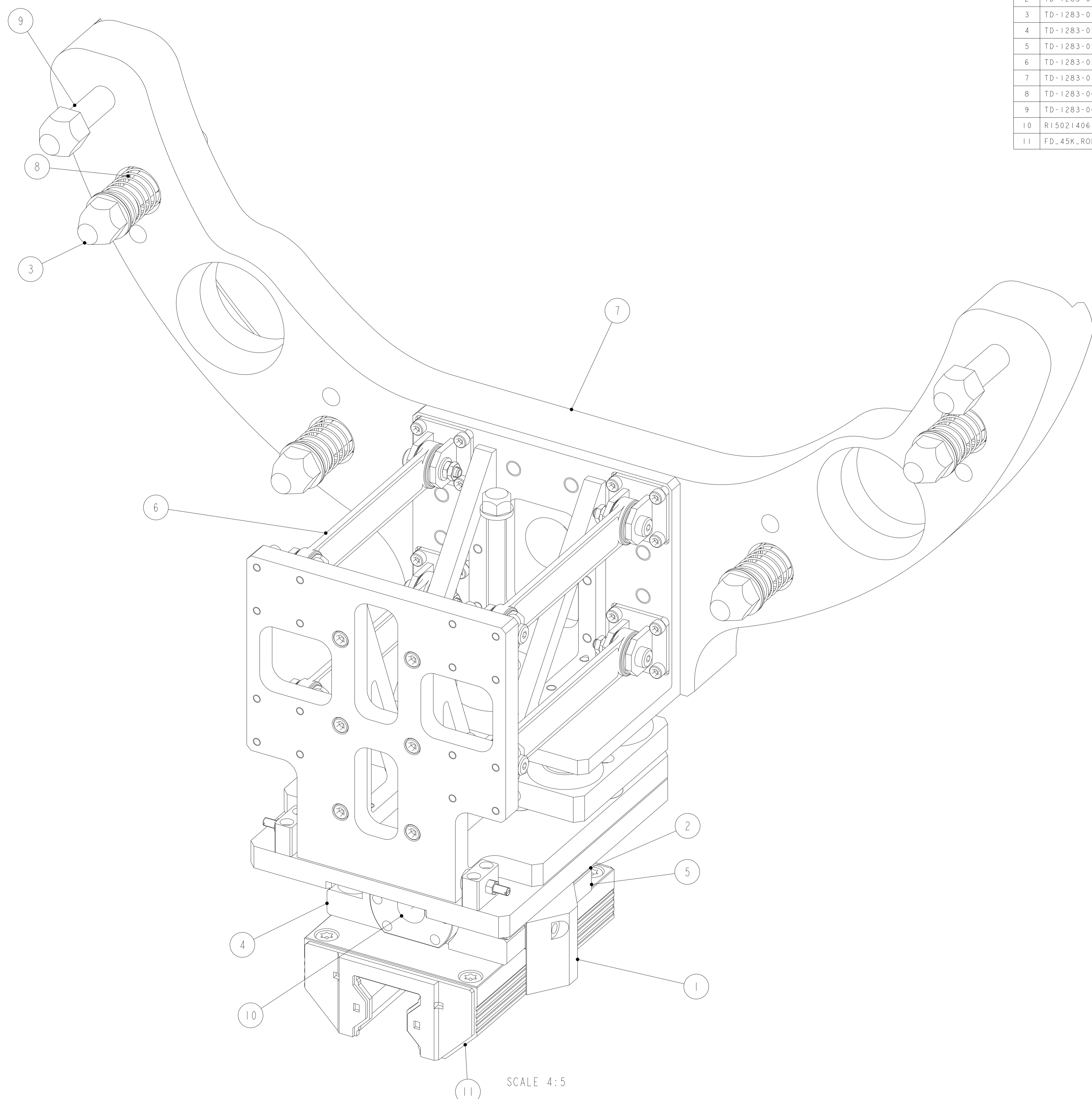
ITEM	DRG NO. / CAT No.	TITLE	QTY	MATERIAL	COMMENTS
1	TD-1283-0210	SPRING OVERLOAD SYSTEM	1	-----	
2	TD-1283-0145	BTU STAGE	1	-----	
3	TD-1283-0135	LOADCELL ADAPTER PLATE	1	-----	
4	TD-1283-0100	GIMBAL	1	-----	
5	LCMHD-2P5K	2.5kN LOAD CELL	1	-----	
6	HONEYWELL_BZ-2R0-A2	PLUNGER MICROSWITCH	4	-----	



SECTION XSEC0002-XSEC0002  
SCALE 3:2

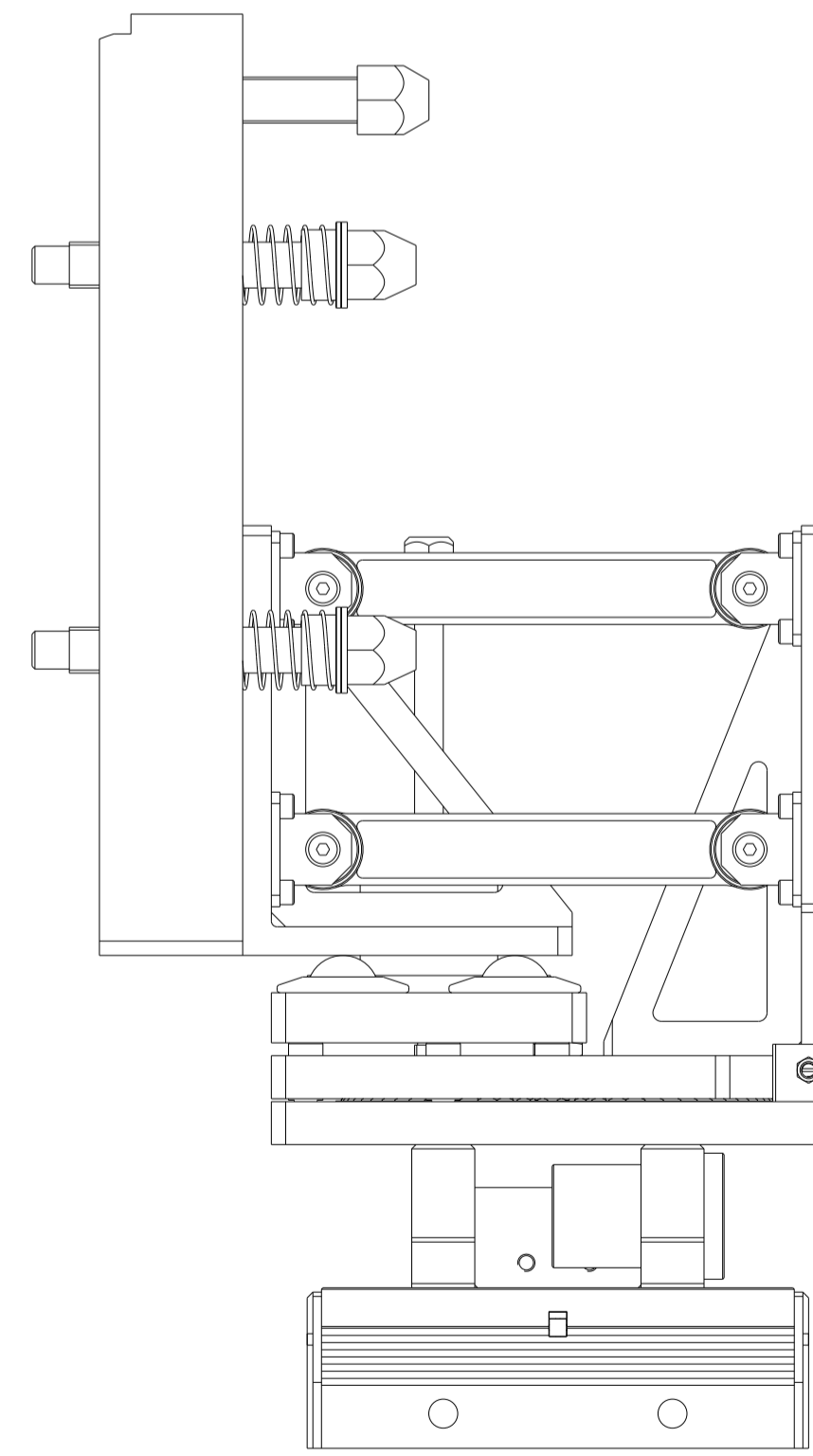
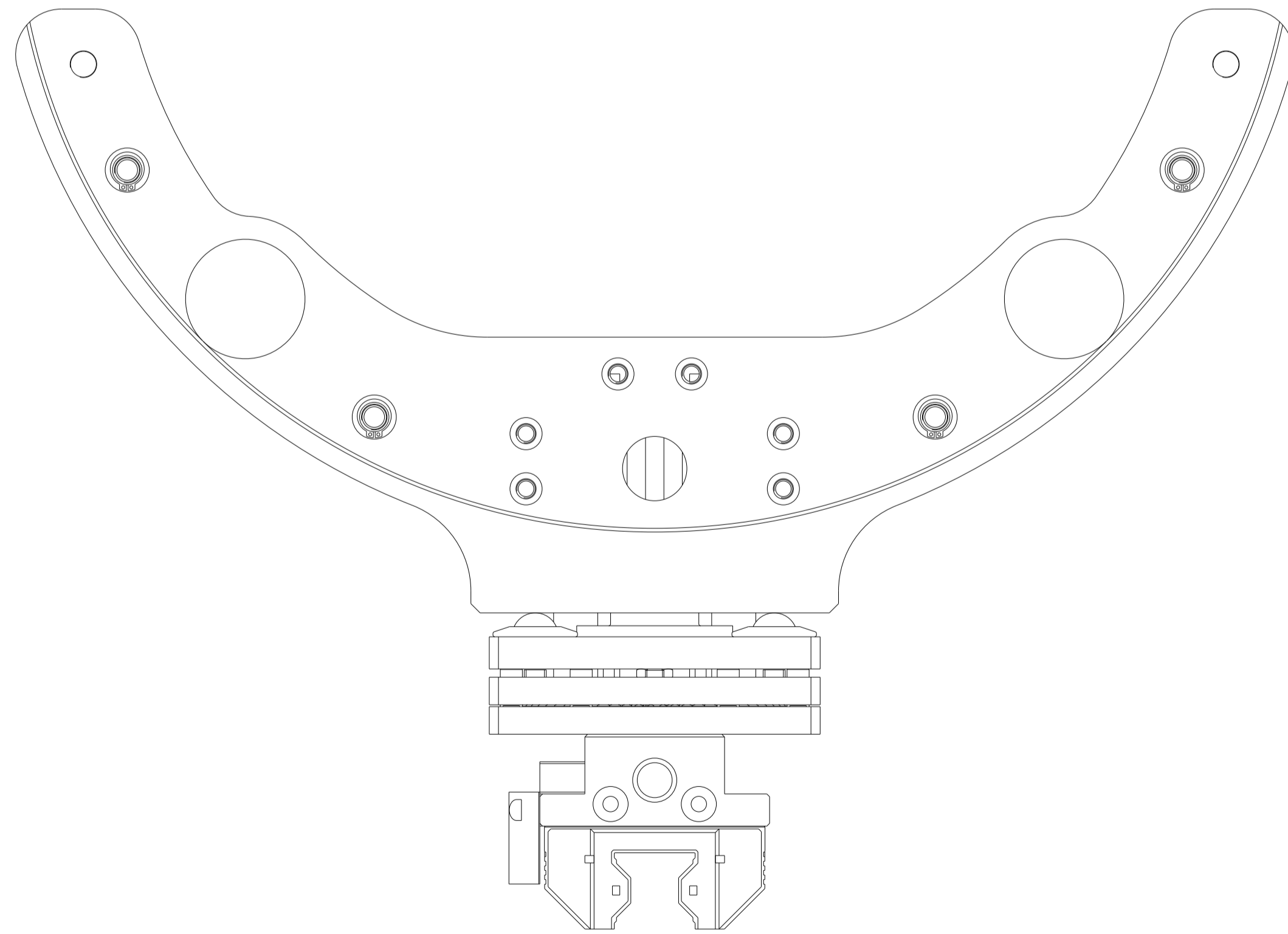
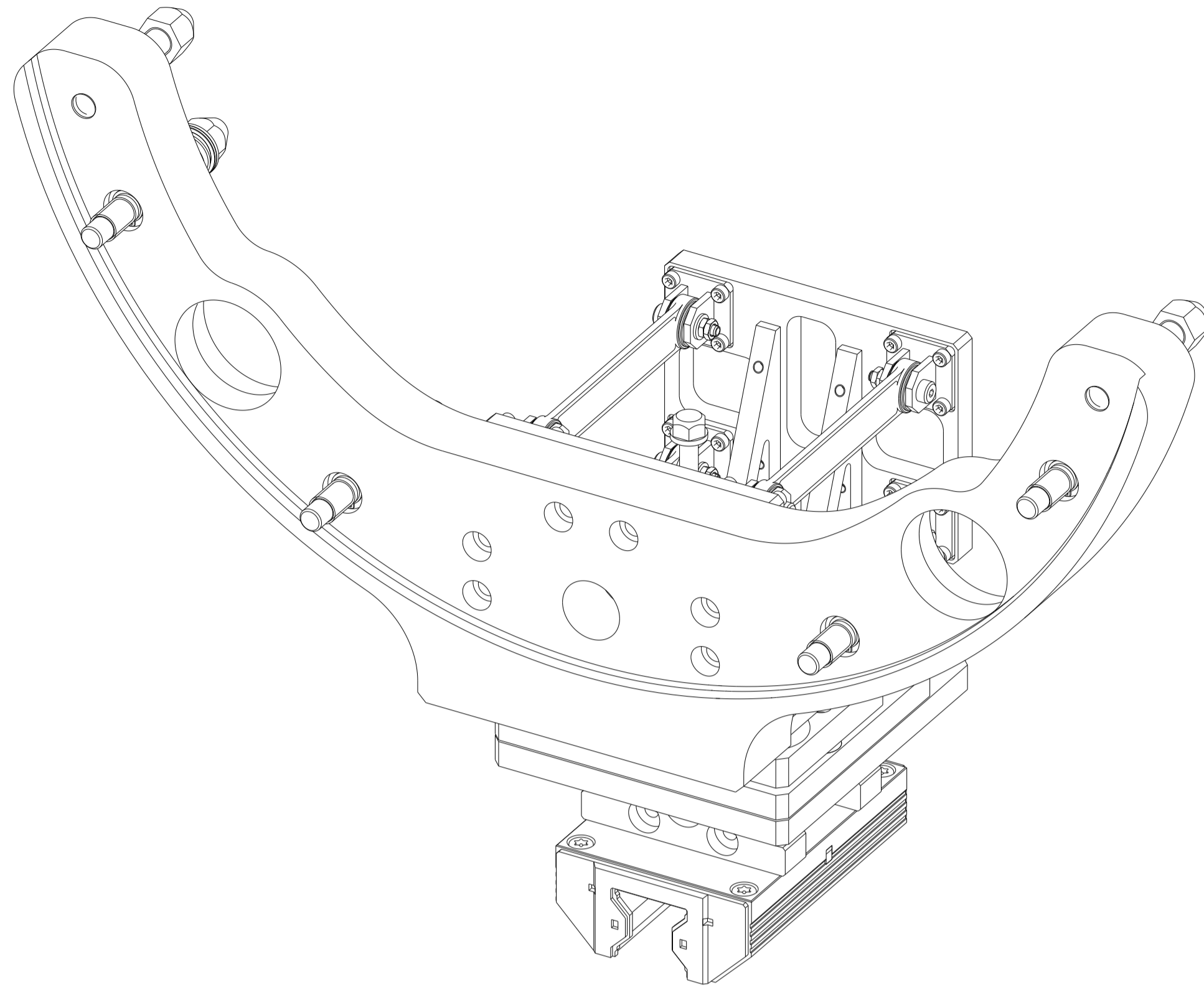
Drawn By ERIC H-F	Checked By AO	Approved By	Date of Issue --/--/--	Mod. Sheet No.	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
Title <b>COMPLIANT STACK ASSY</b>						Project TD-1283-0411
Finish Remove All Burrs	Material -----	Surface Texture Unless Stated Ra -----	Grades -----	Tolerances Unless Stated Linear ± mm Angular ± °	Estimated Mass 41 kg	Issue No. 1/1
Drawing conforms to BS8888 Tolerancing ISO 8015						© 2022 UKRI/STFC Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110DX
Use On TD-1283-0086						Dimensions in mm unless stated

ITEM	DRG NO. / CAT No.	TITLE	QTY	MATERIAL	COMMENTS
1	TD-1283-0539	.	1	-----	
2	TD-1283-0538	.	1	-----	
3	TD-1283-0404	CAPTIVE BOLT	4	SEE DETAILS	
4	TD-1283-0274	BALL NUT HOUSING/SPRING SUPPORT BRACKET	1	-----	
5	TD-1283-0273	CARRIAGE/SPRING SUPPORT BRACKET	1	-----	
6	TD-1283-0220	TCM	1	-----	
7	TD-1283-0175	TARGET/TXS INTERFACE PLATE	1	-----	
8	TD-1283-0092		4		BRONZE WASHER
9	TD-1283-0054	JACKING SCREW	2	-----	
10	R150214063	BALL NUT	1		
11	FD_45K_ROLLENHALTER	FRANKE CARRIAGE FDC-K	1		



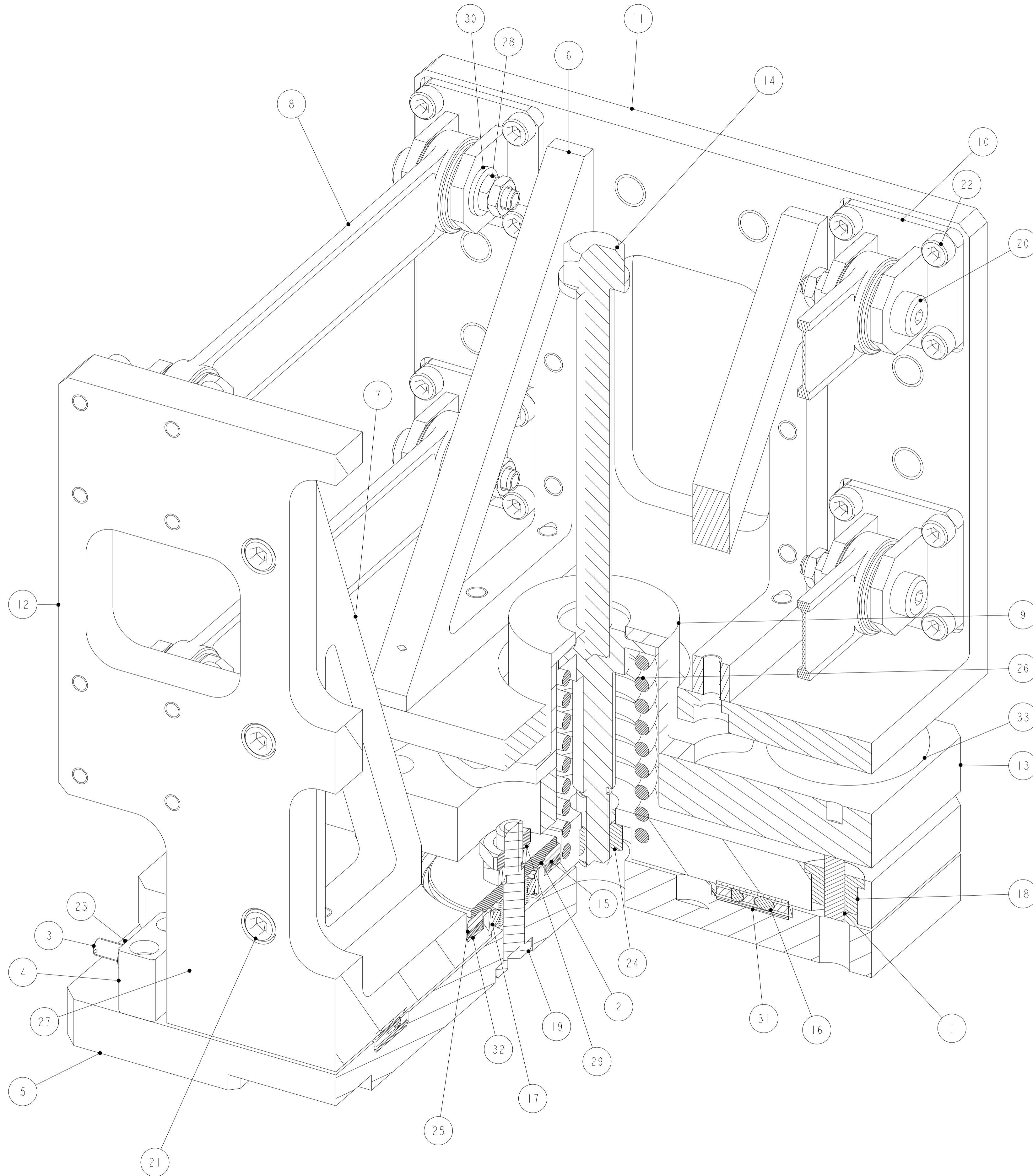
SCALE 4:5

Drawn By ERIC H-F	Checked By ---	Approved By ---	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
		<b>A1</b> ASSEMBLY DRAWING MADE IN PTC CREO. DO NOT SCALE		Title <b>TARGET CARRIAGE ASSY</b>		
Finish Remove All Burrs	Material -----	Grade -----		Project -----		
Surface Texture Unless Stated ✓ Ra	Tolerances Unless Stated Linear ± mm Angular ± °		Estimated Mass 32 kg			
Drawing conforms to BS8888 Tolerancing ISO 8015	© 2017 UKRI-STFC <b>TECHNOLOGY DEPARTMENT</b> Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110QX		Used On TD-1283-0090	Dimensions in mm unless stated	Sheet No. 1/2	Issue A



NOTES:  
APPROX MASS 32KG

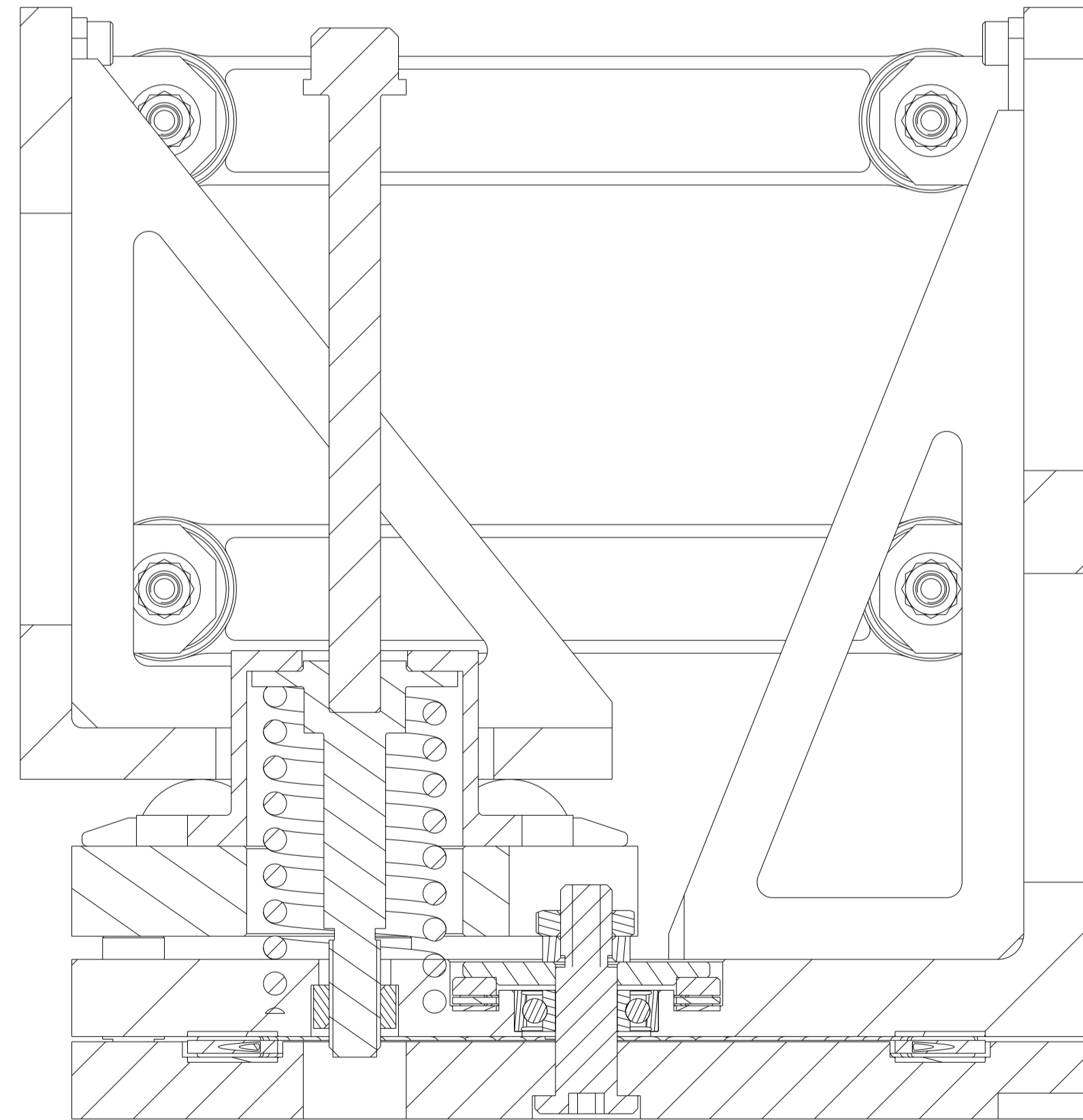
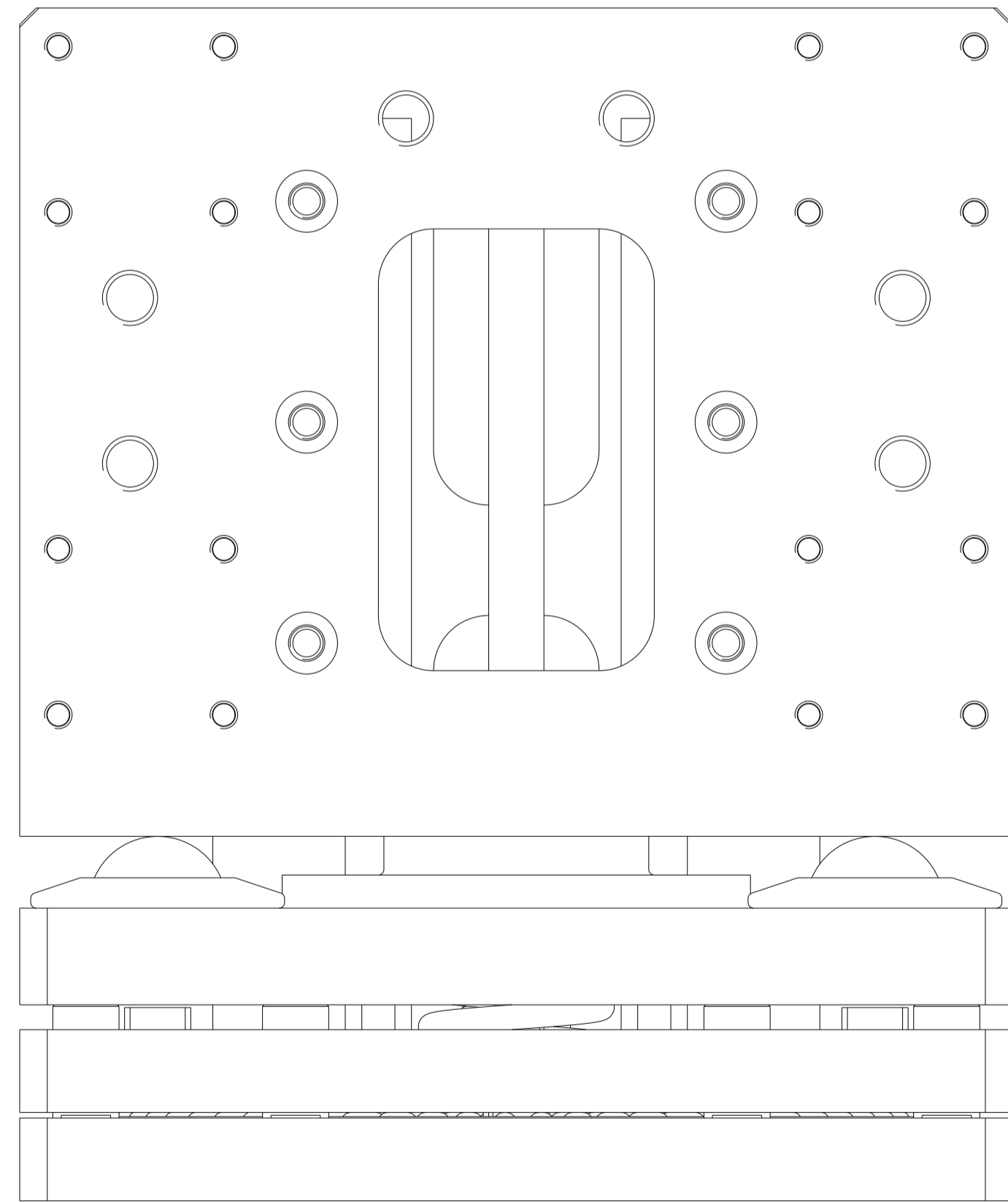
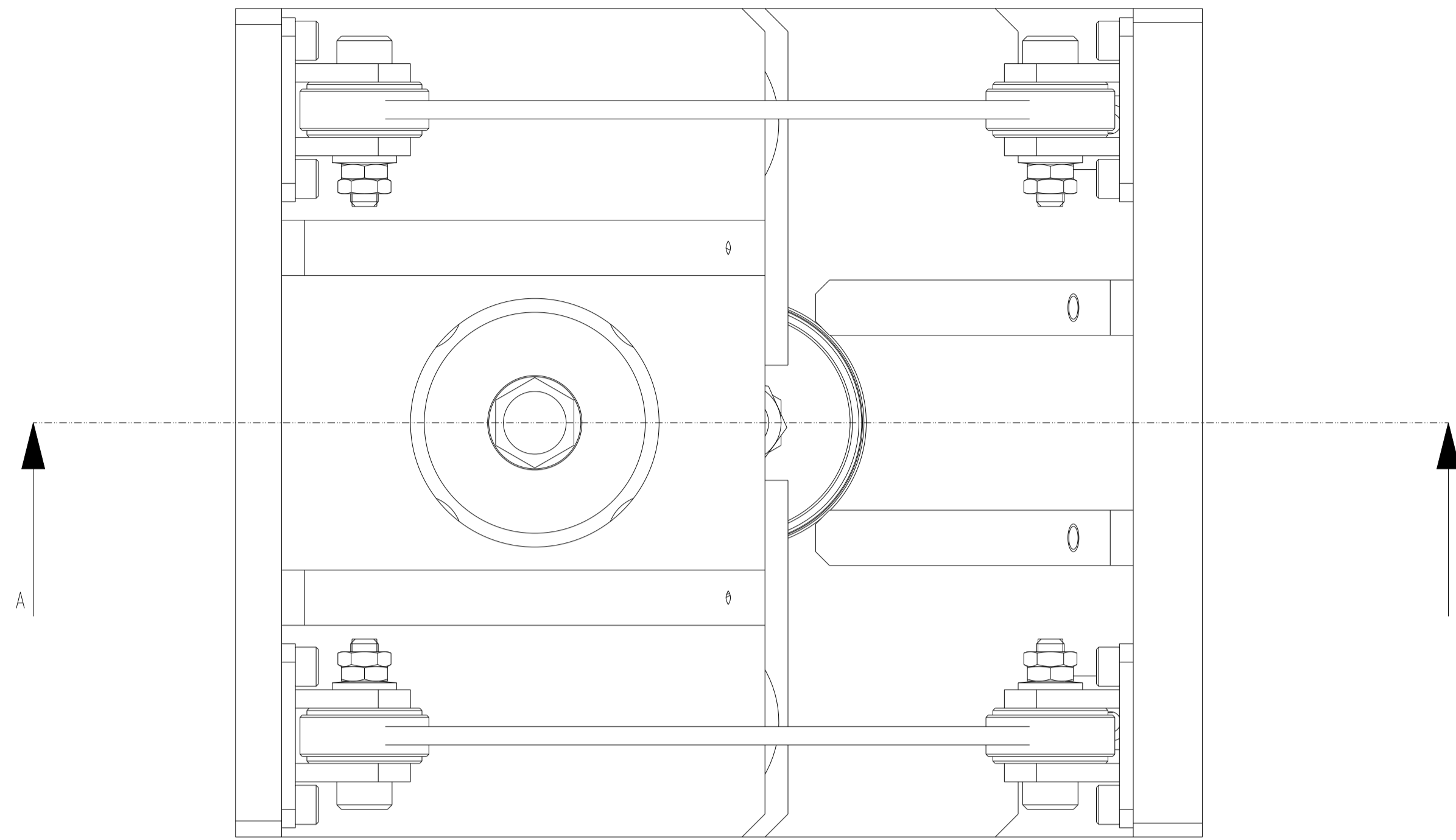
Drawn By ERIC H-F	Checked By ---	Approved By ---	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
		<b>A1</b>		ASSEMBLY DRAWING MADE IN PTC CREO. DO NOT SCALE		
Finish Remove All Burrs	Material -----	Title <b>TARGET CARRIAGE ASSY</b>		Project -----		
Surface Texture Unless Stated ✓ Ra	Grade -----	Tolerances Unless Stated Linear ± . mm Angular ± °		Estimated Mass 32 kg		
Drawing conforms to BS8888 Tolerancing ISO 8015	© 2017 UKRI-STFC <b>TECHNOLOGY DEPARTMENT</b> Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110QX		Used On TD-1283-0090	Dimensions in mm unless stated	Sheet No. <b>2/2</b>	Issue <b>A</b>
				<b>TD-1283-0137</b>		



SECTION X-X  
SCALE 3:2

ITEM	DRG NO. / CAT No.	TITLE	QTY	MATERIAL	COMMENTS
1	TD-1283-0240	VERTICAL GUIDE PIN	6	STAINLESS STEEL	
2	TD-1283-0239	THRUST BEARING CAP	1	STAINLESS STEEL	
3	TD-1283-0238	PRELOAD SCREW	2	STAINLESS STEEL	
4	TD-1283-0237	ADJUSTING SCREW BLOCK	2	ALUMINIUM ALLOY	
5	TD-1283-0235	BASE PLATE	1	STAINLESS STEEL	
6	TD-1283-0231	SUPPORT BRACKET SMALL	2	ALUMINIUM ALLOY	
7	TD-1283-0230	SUPPORT BRACKET LARGE	2	ALUMINIUM ALLOY	
8	TD-1283-0229	LINK/BUSHING ASSY	4	-----	
9	TD-1283-0228	SPRING HOUSING	1	STAINLESS STEEL	
10	TD-1283-0223	LINKAGE BRACKET	8	STAINLESS STEEL	
11	TD-1283-0221	UPPER BRACKET	1	STAINLESS STEEL	
12	TD-1283-0219	BASE BRACKET	1	STAINLESS STEEL	
13	TD-1283-0218	BTU PLATE	1	-----	
14	TD-1283-0117	PRELOAD WELDMENT	1	SEE DETAILS	
15	SKF_THRUST_BEARING_AXX_3552_2		1		
16	SKF_THRUST_BEARING_AXX_120155_2		1		
17	SKF_BEARING_6001_2		1		
18	PBMF-121812-M1	SKF FLANGED BRONZE BUSHING	6	-----	
19	P0134-120-025-A4	12x25 SHOULDER SCREW M10	1	-----	
20	P0130-080-020-M6	8x20 SHOULDER SCREW M6	8	-----	
21	M6_X_16_CAP_HEAD	M6 x 16mm Cap Head Screw	6	STAINLESS STEEL	
22	M5_X_12_CAP_HEAD	M5 x 12mm Cap Head Screw	32	STAINLESS STEEL	
23	M5_HEX_NUT	M5 Hex Nut	2	-----	
24	M10_HEX_NUT	M10 Hex Nut	1	-----	
25	LS3552	NEEDLE ROLLER RACEWAY WASHER THICK 35/52	1	-----	
26	LHC177P01S	COMPRESSION SPRING	1	-----	
27	LC075G02	COMPRESSION SPRING	2	-----	
28	HFN-M6-A2	M6 HALF NUT	16	-----	
29	HFN-M10-A2	M10 HALF NUT	2	-----	
30	HBW-M6-A2	M6 BELLEVILLE WASHER	8	-----	
31	AS120155	NEEDLE ROLLER RACEWAY WASHER 120/155MM	2	-----	
32	AS3552	NEEDLE ROLLER RACEWAY WASHER 35/52MM	1	-----	
33	67220-W0252	PUSHFIT STAINLESS BALL TRANSFER UNIT	4	-----	

Drawn By ERIC H-F	Checked By ---	Approved By ---	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
		<b>A1</b> ASSEMBLY DRAWING MADE IN PTC CREO. DO NOT SCALE				
Finish Remove All Burrs	Material -----	Title <b>TCM</b> (TARGET COMPLIANCE MECHANISM)				
Surface Texture Unless Stated ✓ Ra -----	Grade -----	Project -----				
Drawing conforms to BS8888	Tolerances Unless Stated Linear ± mm Angular ± °	Estimated Mass 22 kg				
Tolerancing ISO 8015		Used On TD-1283-0137				
		© 2017 UKRI-STFC <b>TECHNOLOGY DEPARTMENT</b> Rutherford Appleton Laboratory Harwell Campus, Didcot, OX110QX				
		Dimensions in mm unless stated	Sheet No. 1/2	Issue A	TD-1283-0220	



SECTION A-A

Drawn By ERIC H-F	Checked By ---	Approved By ---	Date of Issue --/--/--	Mod. Sheet No. -----	MANUFACTURE ONLY WHEN DRAWING IS RELEASED	Status WIP
		<b>A1</b>		ASSEMBLY DRAWING MADE IN PTC CREO. DO NOT SCALE		
Finish Remove All Burrs	Material -----	Title <b>TCM</b> (TARGET COMPLIANCE MECHANISM)				
Surface Texture Unless Stated √ Ra -----	Grade -----	Project -----				
Drawing conforms to BS8888	Tolerances Unless Stated Linear ± . mm Angular ± °	Estimated Mass 22 kg				
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