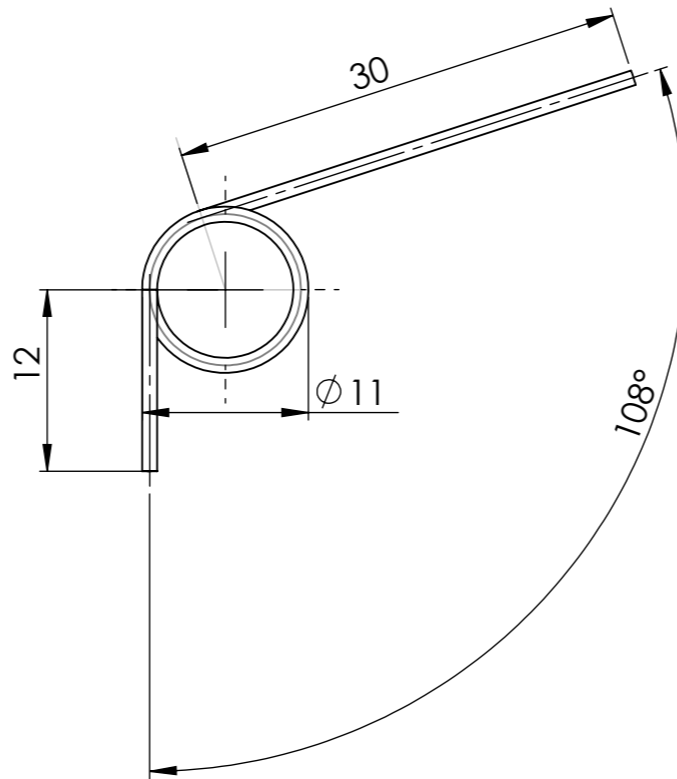
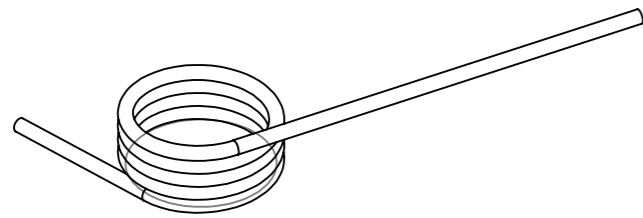


SOLIDWORK PROJECT

MECHANICAL MODELING SAMPLES - 1

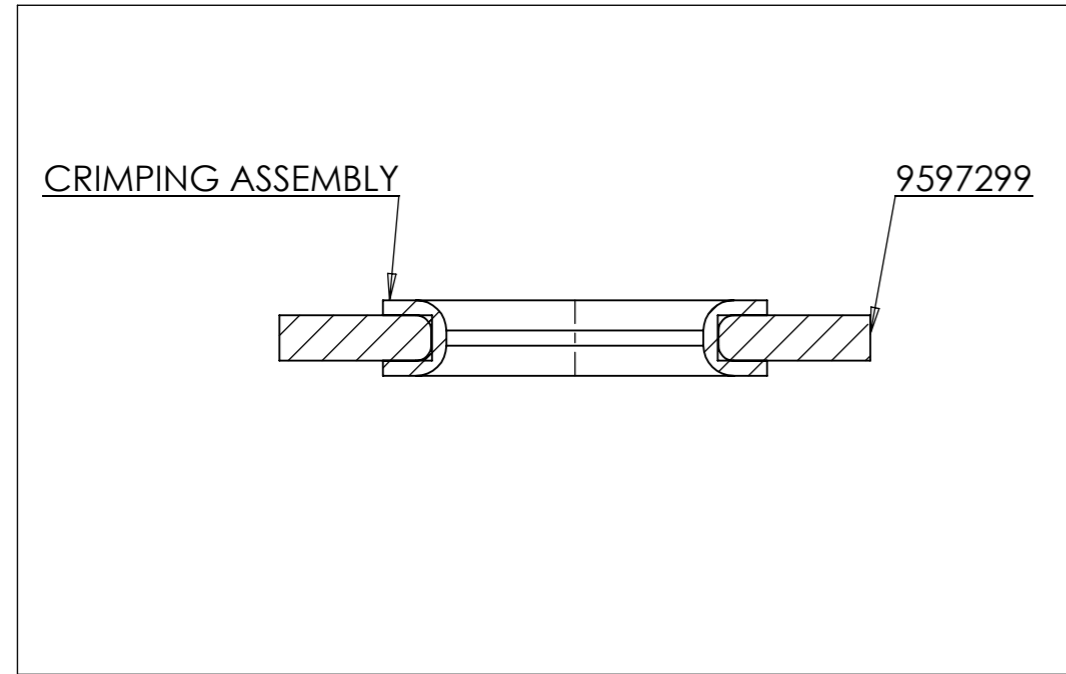
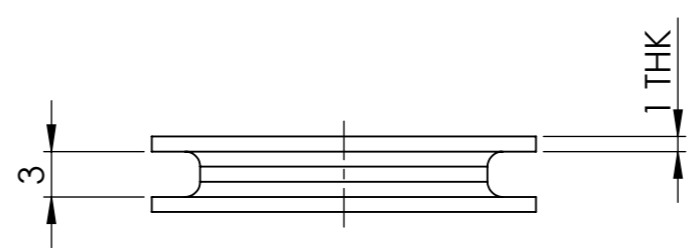
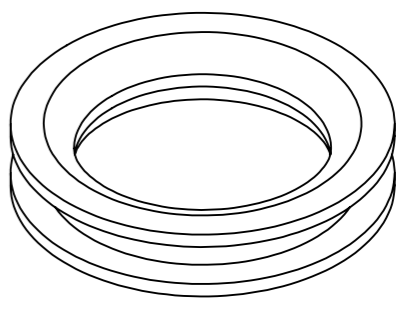
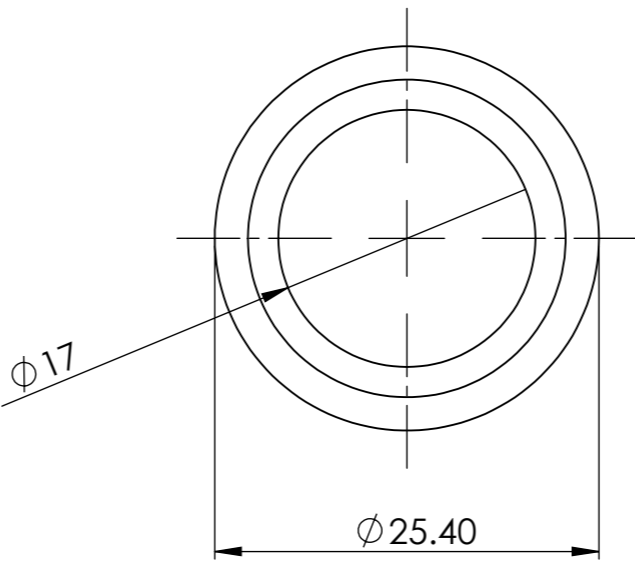


WIRE DIA: 1 MM
 PITCH : 1 MM
 TURNS : 4 NOS.

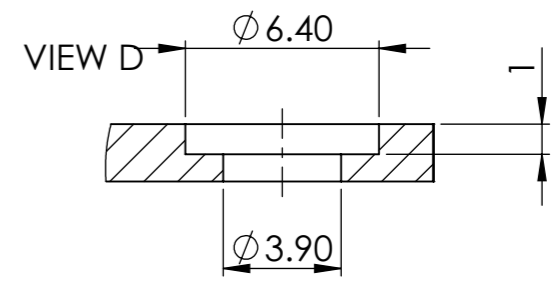
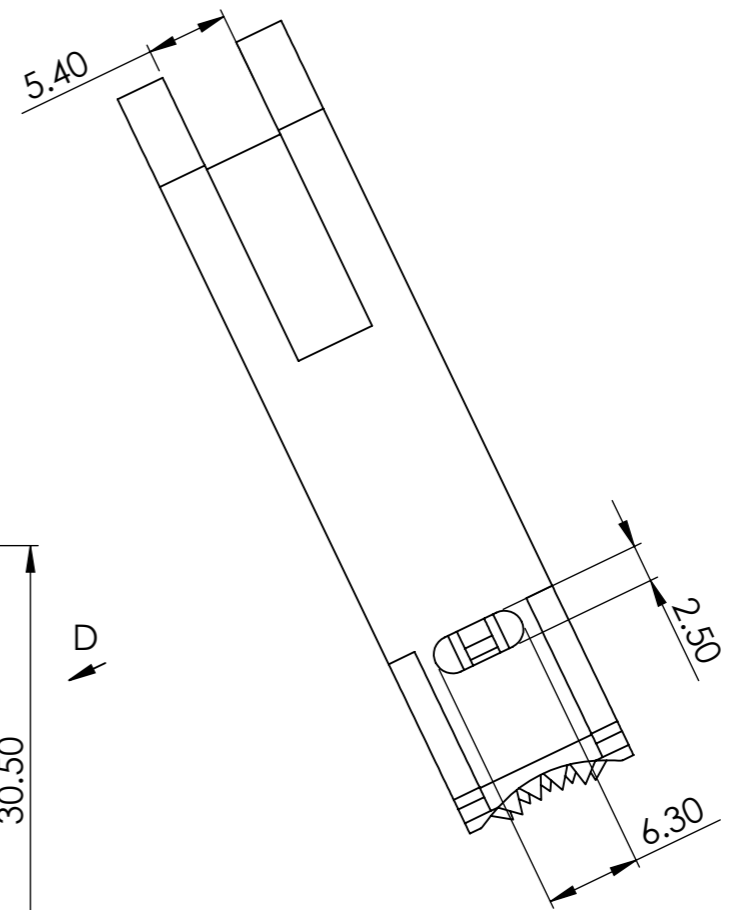
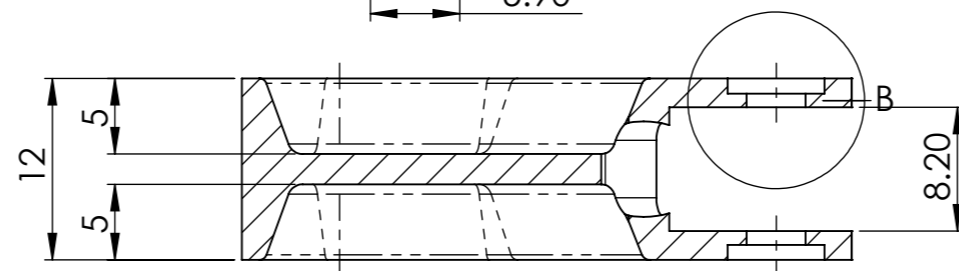
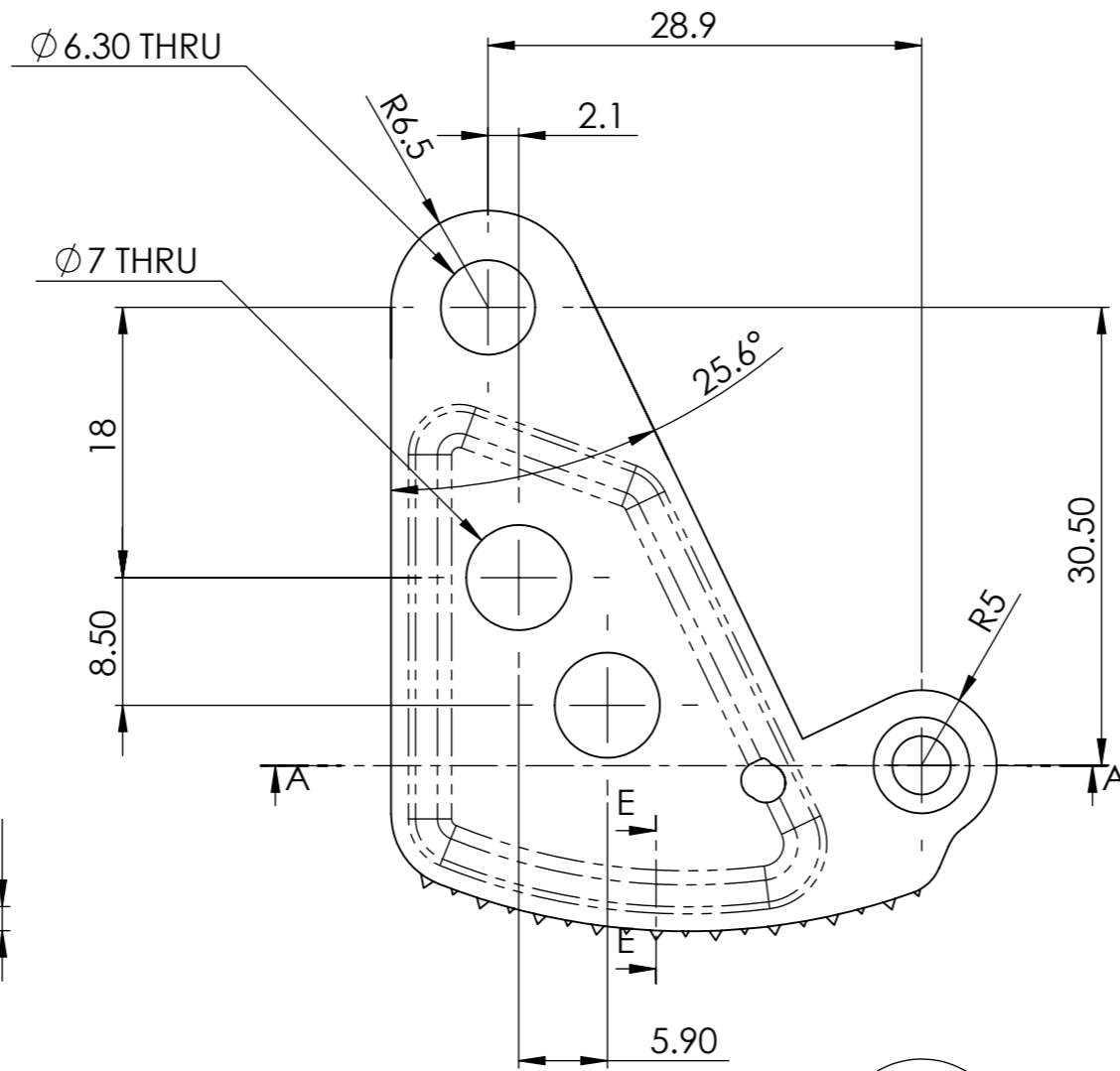
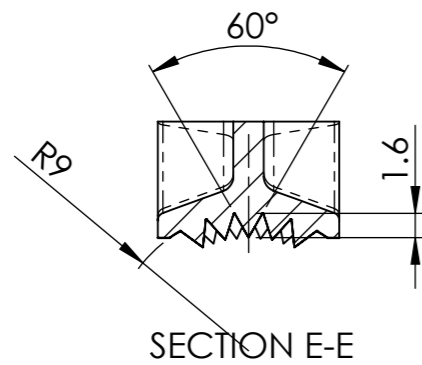
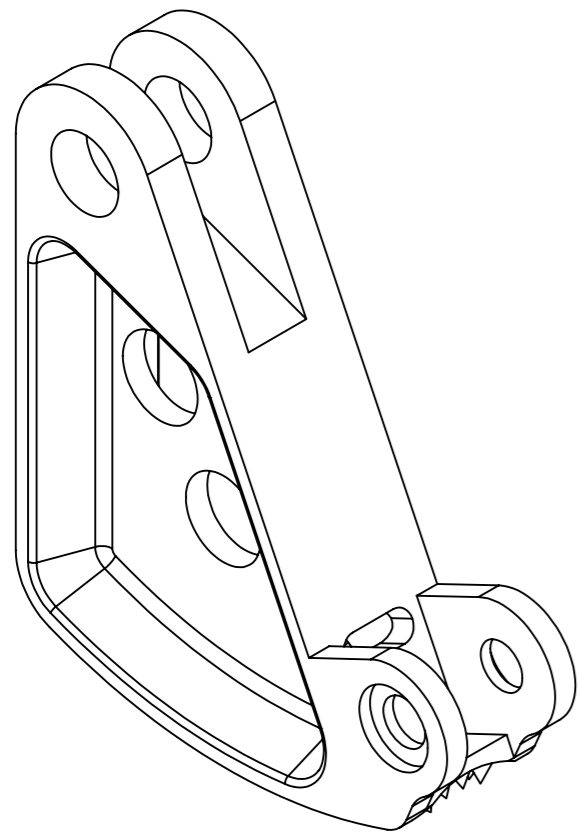
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS		FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
SURFACE FINISH:									
TOLERANCES:									
LINEAR:									
ANGULAR:									
	NAME	SIGNATURE	DATE			TITLE:			
DRAWN									
CHK'D									
APPV'D									
MFG									
Q.A						MATERIAL:	DWG NO.	9597056	
						ASCENDER CAM BODY SPRING		A3	
						WEIGHT:	SCALE:2:1	SHEET 1 OF 1	

1 2 3 4 5 6 7 8

A
B
C
D
E
F



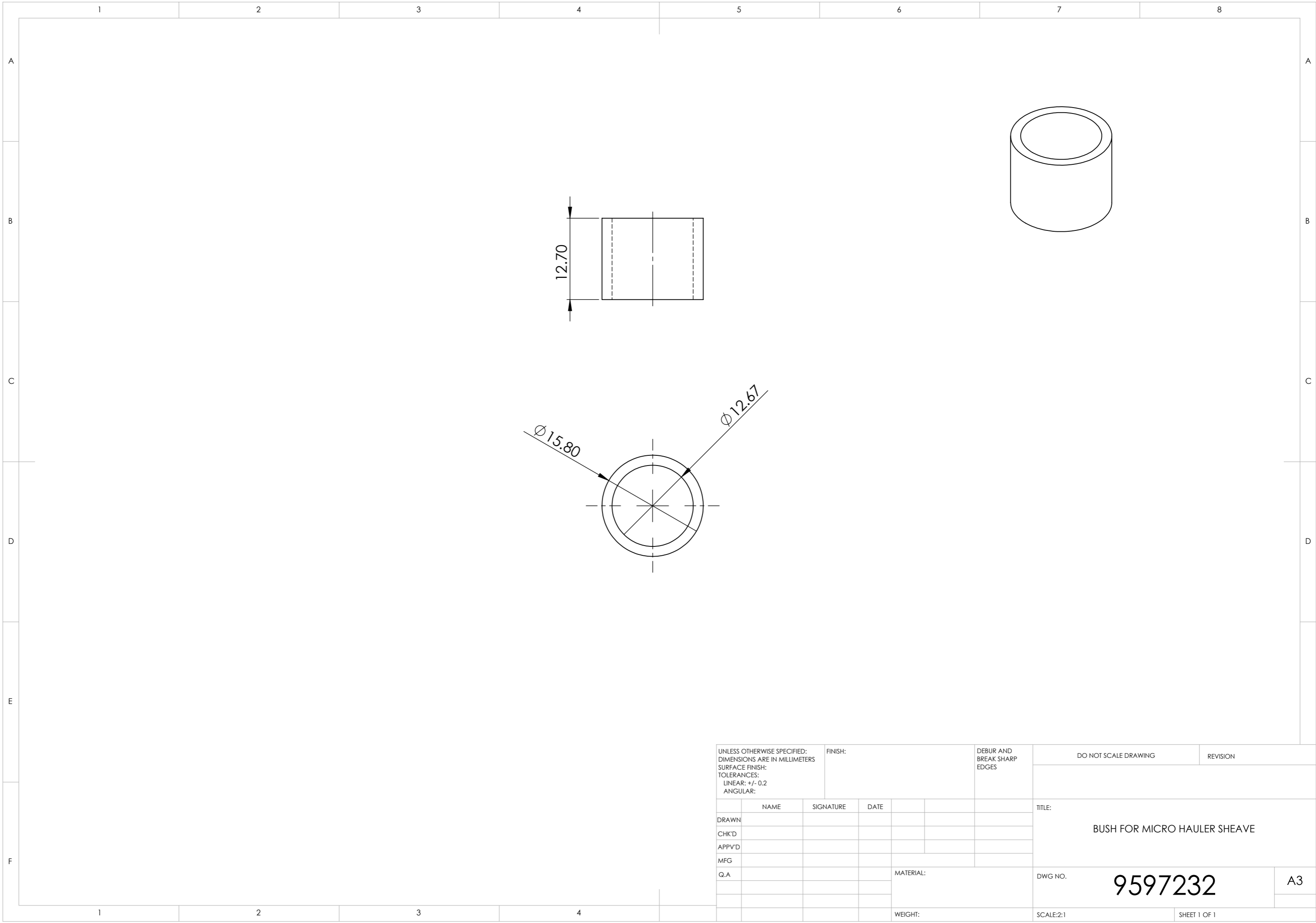
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DRAWN				NAME		SIGNATURE		DATE		TITLE:	
CHK'D										ASCENDER EYELET SHORT	
APPV'D											
MFG											
Q.A								MATERIAL:		DWG NO. 9597059	
								WEIGHT:		SCALE:2:1	
										SHEET 1 OF 1	
										A3	



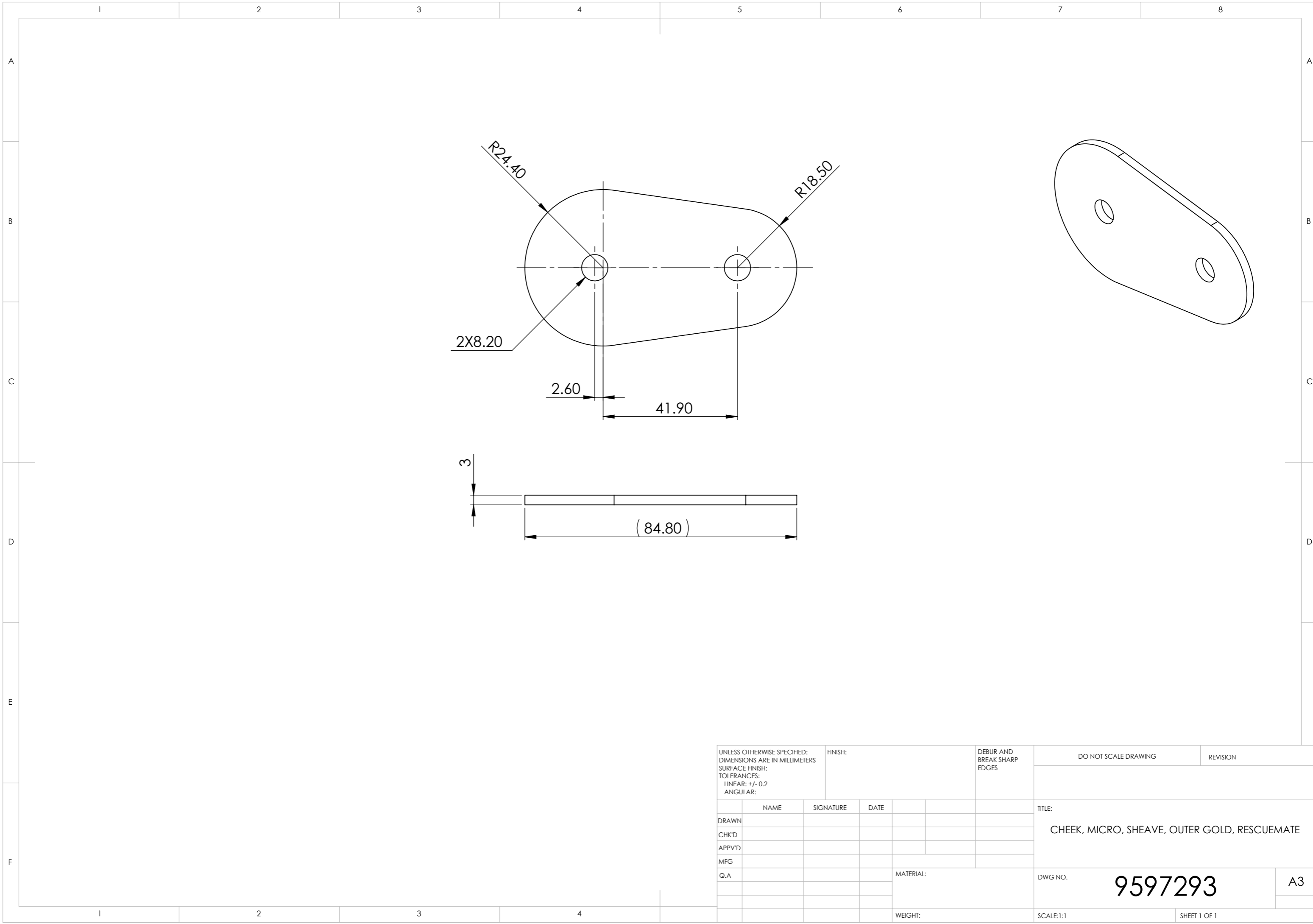
DETAIL B
SCALE 4 : 1

NOTE:
 1. REFER CAD MODEL FOR MORE DIMENSIONAL DETAILS.
 2. REMOVE ALL SHARP EDGES.
 3. UNSPECIFIED DRAFT SHOULD BE 1 DEG.
 4. ALL DIMENSIONS ARE IN MM.

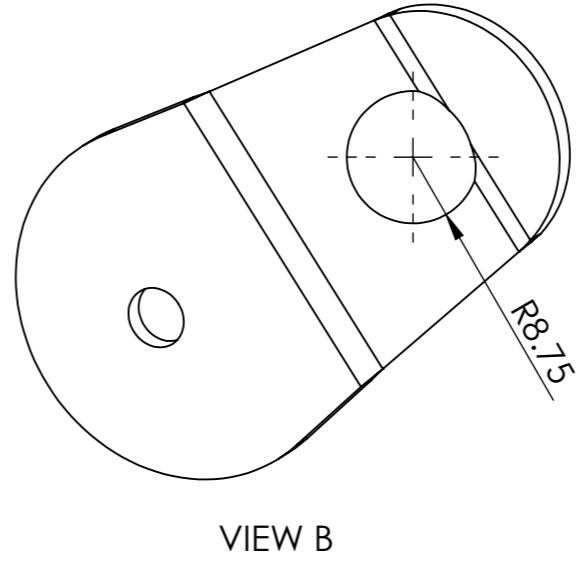
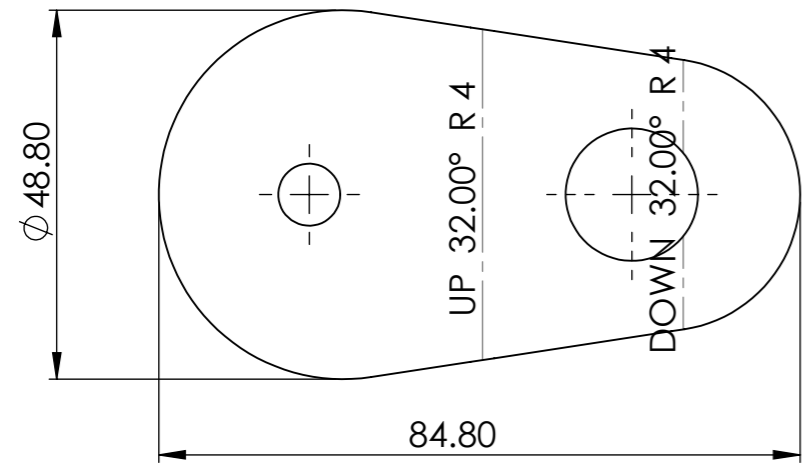
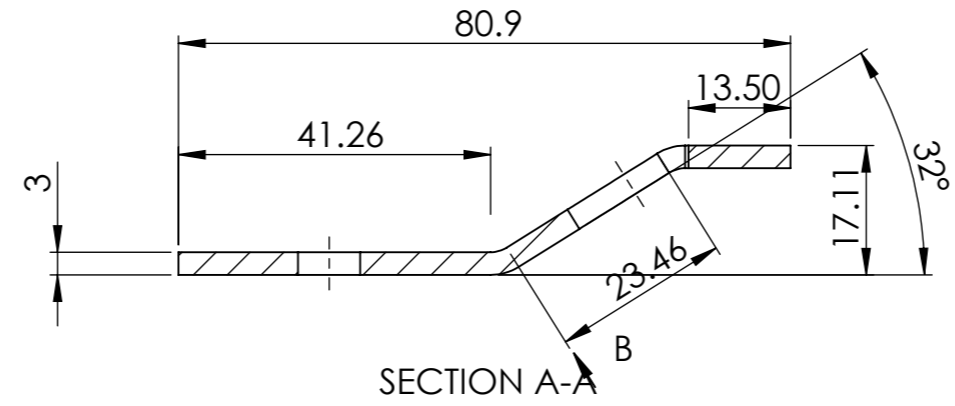
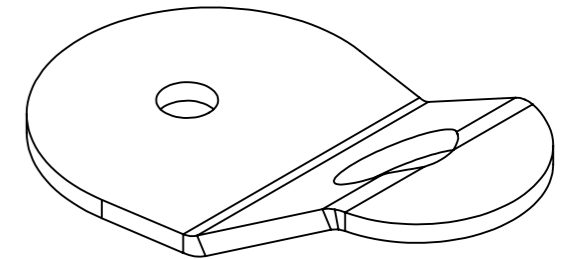
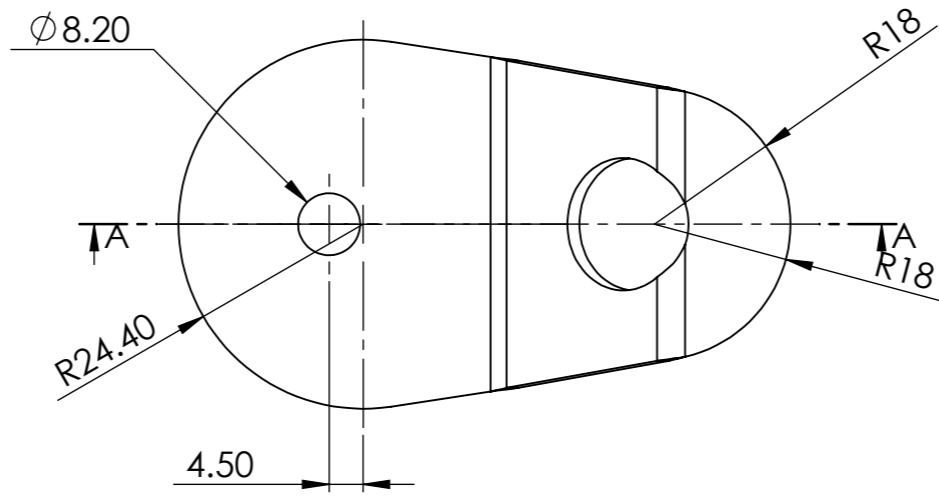
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DRAWN				NAME		SIGNATURE		DATE		TITLE:	
CHK'D											
APPV'D											
MFG											
Q.A								MATERIAL:		DWG NO. 9597140	
								WEIGHT:		SCALE:2:1	
										SHEET 1 OF 1	



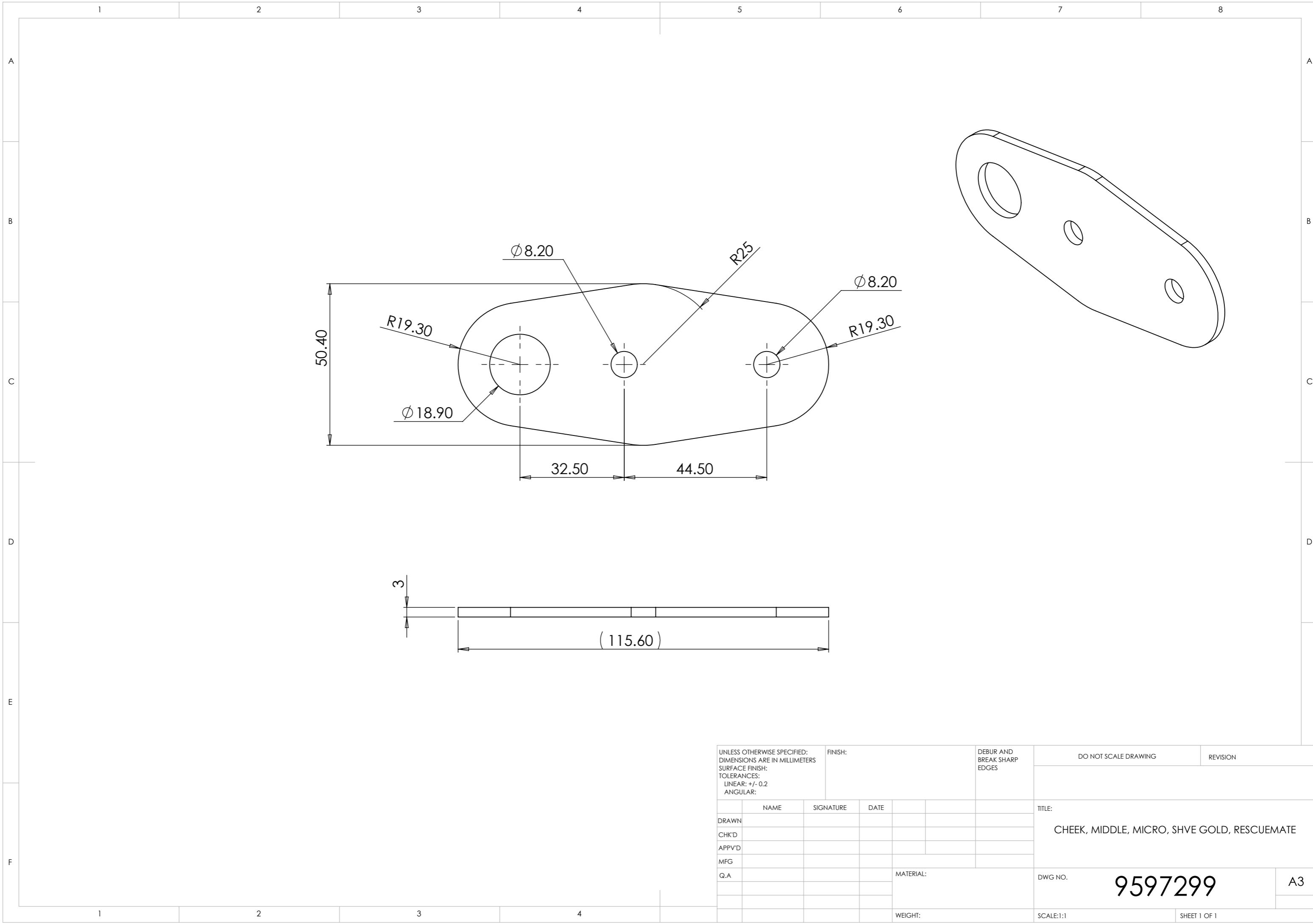
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SURFACE FINISH:								TITLE: BUSH FOR MICRO HAULER SHEAVE			
TOLERANCES:											
LINEAR: +/- 0.2											
ANGULAR:											
DRAWN		NAME		SIGNATURE		DATE		DWG NO.		A3	
CHK'D								9597232			
APPV'D											
MFG								SCALE:2:1		SHEET 1 OF 1	
Q.A						MATERIAL:		WEIGHT:			



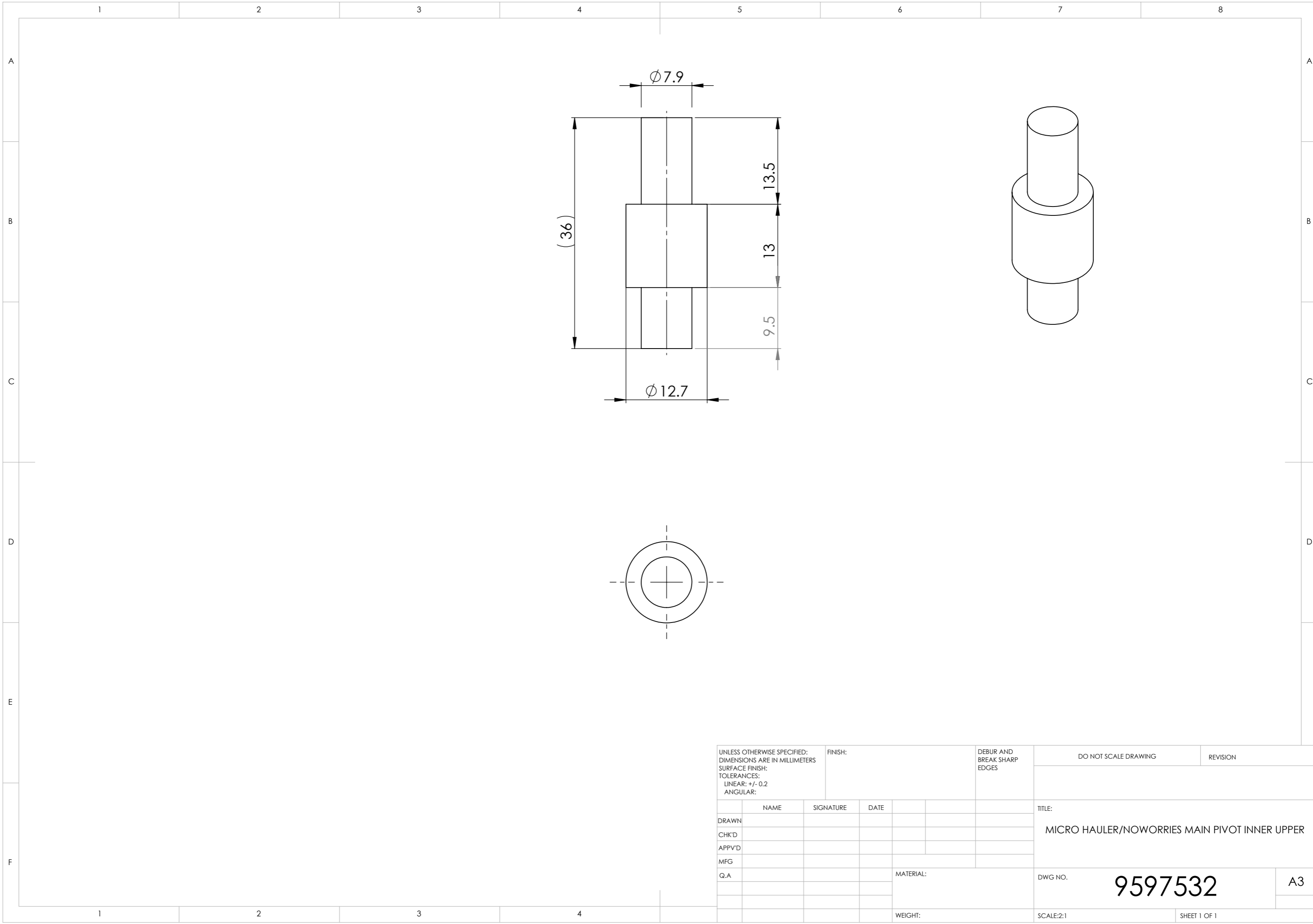
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DRAWN				NAME		SIGNATURE		DATE		TITLE:	
CHK'D										CHEEK, MICRO, SHEAVE, OUTER GOLD, RESCUEMATE	
APPV'D											
MFG											
Q.A								MATERIAL:		DWG NO.	
										9597293	
								WEIGHT:		SCALE:1:1	
										SHEET 1 OF 1	
										A3	



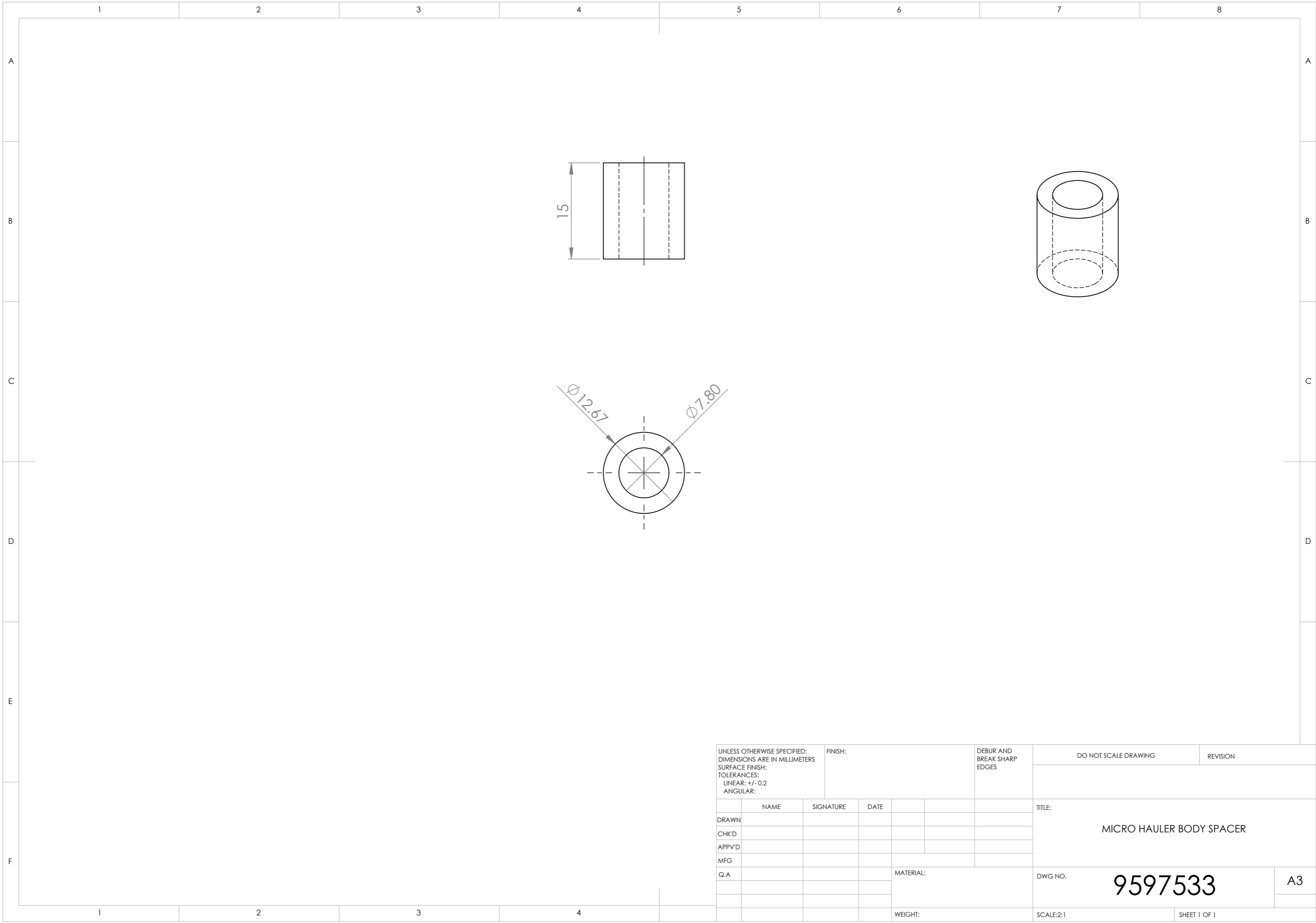
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DRAWN			SIGNATURE		DATE		TITLE: CHEEK, MICRO, SWIVEL, GOLD RESCUEMATE				
CHK'D											
APPV'D											
MFG											
Q.A					MATERIAL:		DWG NO.		9597294		
							SCALE:1:1		SHEET 1 OF 1		
					WEIGHT:				A3		



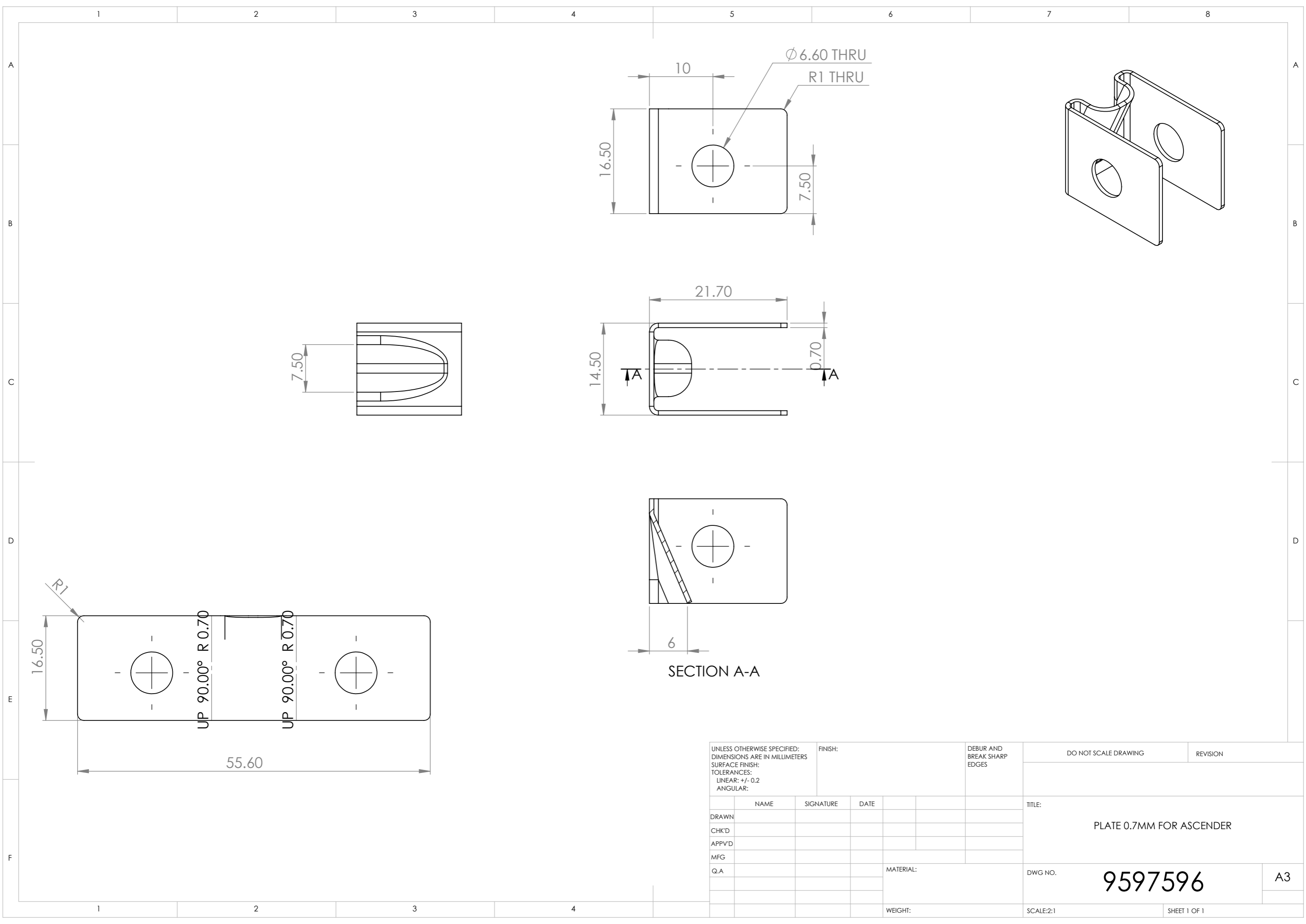
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DRAWN				NAME		SIGNATURE		DATE		TITLE:	
CHK'D										CHEEK, MIDDLE, MICRO, SHVE GOLD, RESCUEMATE	
APPV'D											
MFG											
Q.A								MATERIAL:		DWG NO. 9597299	
								WEIGHT:		SCALE:1:1	
										SHEET 1 OF 1	
										A3	



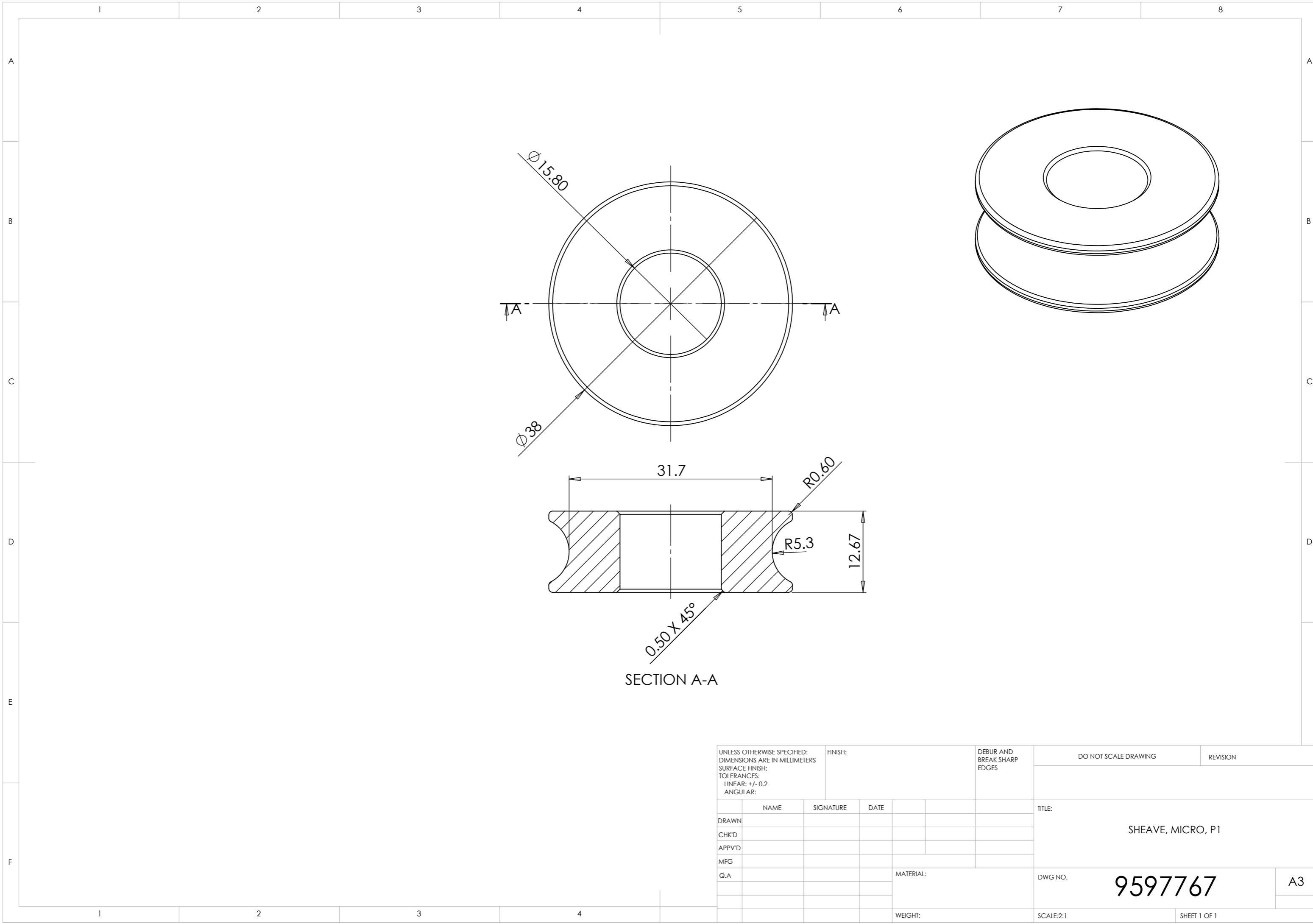
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DRAWN						TITLE: MICRO HAULER/NOWORRIES MAIN PIVOT INNER UPPER					
CHK'D											
APPV'D											
MFG											
Q.A.						MATERIAL:		DWG NO.		A3	
						WEIGHT:		SCALE:2:1		SHEET 1 OF 1	



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: +/- 0.2 ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
DRAWN						TITLE:					
CHK'D						MICRO HAULER BODY SPACER					
APPV'D											
MFG						DWG NO. 9597533					
Q.A.						A3					
						SCALE:2:1					
						WEIGHT:					
						SHEET 1 OF 1					

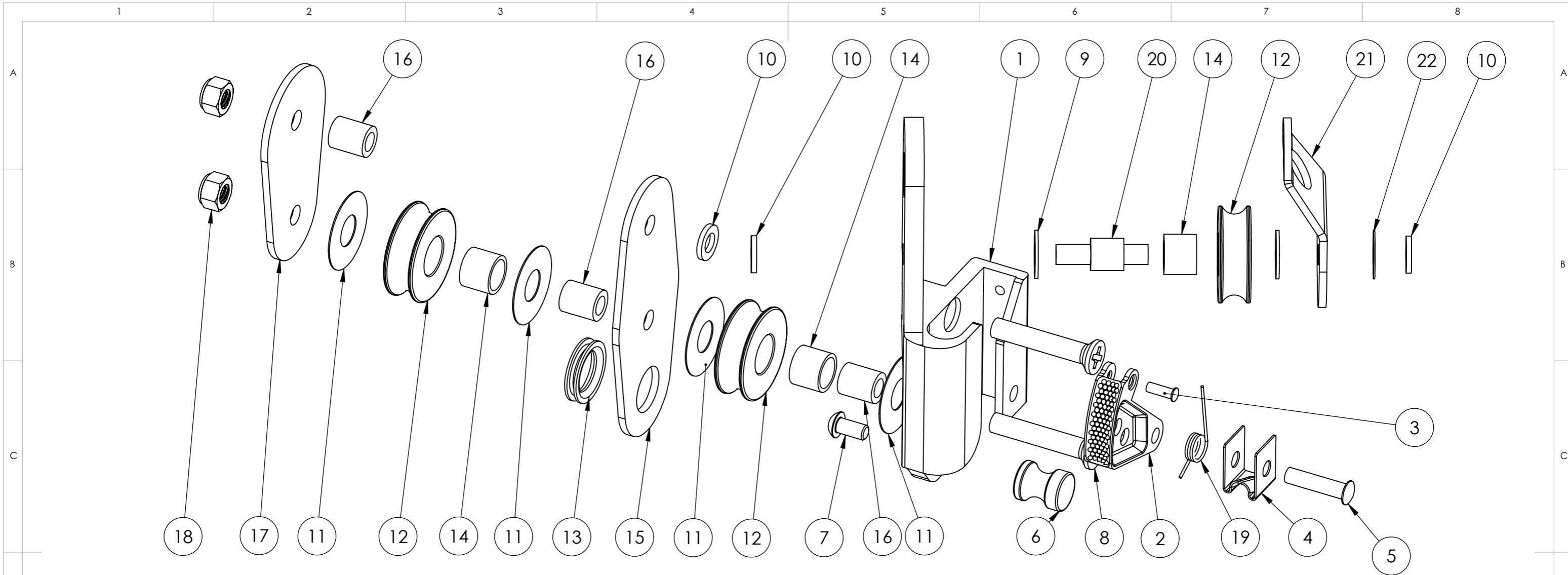


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: +/- 0.2 ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
DRAWN						TITLE:					
CHK'D						PLATE 0.7MM FOR ASCENDER					
APPV'D						DWG NO.					
MFG						9597596					
Q.A						A3					
WEIGHT:						SCALE:2:1					
SHEET 1 OF 1											

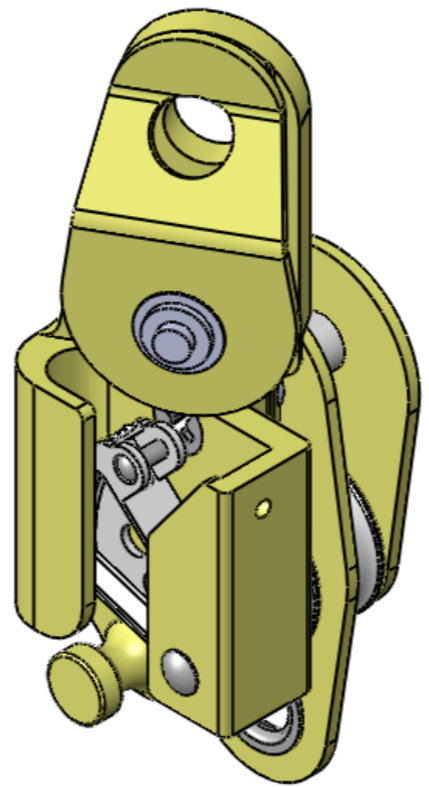


SECTION A-A

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: +/- 0.2 ANGULAR:				FINISH:		DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING		REVISION	
DRAWN				NAME		SIGNATURE		DATE		TITLE:	
CHK'D										SHEAVE, MICRO, P1	
APPV'D											
MFG											
Q.A								MATERIAL:		DWG NO. 9597767	
								WEIGHT:		SCALE:2:1	
										SHEET 1 OF 1	
										A3	



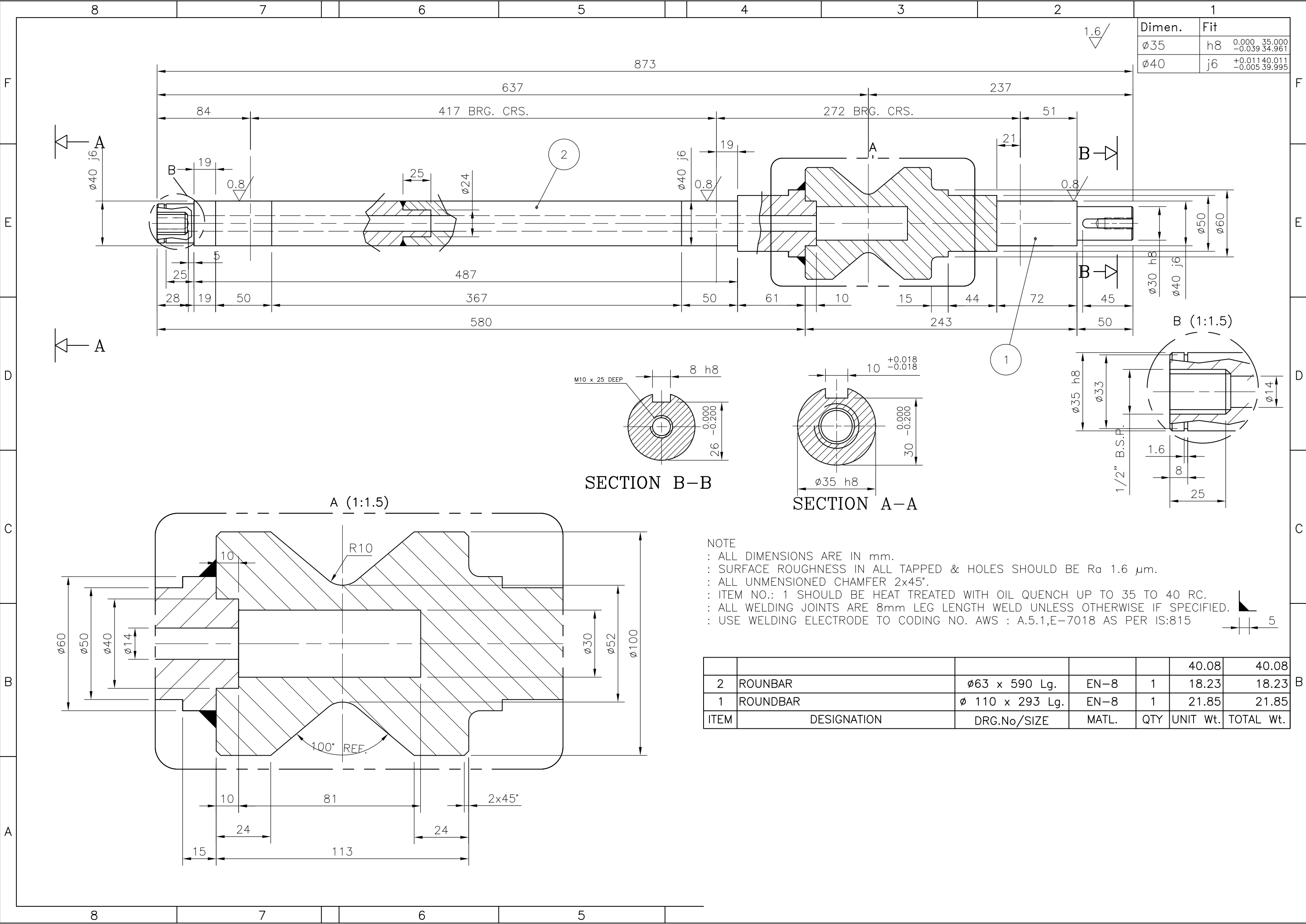
22	9597911	WASHER, NYLON, 8X19X0.5	1
21	9597294	CHEEK, MICRO, SWIVEL, GOLD RESCUEMATE	1
20	9597532	MICRO HAULER/NOWORRIES MAIN PIVOT INNER UPPER	1
19	9597056	ASCENDER CAM BODY SPRING	1
18	9597542	NUT, NYLOCK, THIN, 5/16UNC 304 S/S, RIGGERSMATE	2
17	9597293	CHEEK, MICRO, SHEAVE, OUTER GOLD, RESCUEMATE	1
16	9597533	MICRO HAULER BODY SPACER	3
15	9597299	CHEEK, MIDDLE, MICRO, SHVE GOLD, RESCUEMATE	1
14	9597232	BUSH FOR MICRO HAULER SHEAVE	3
13	9597059	ASCENDER EYELET SHORT	1
12	9597767	SHEAVE, MICRO, P1	3
11	9597905	WASHER, NYLON, 13X32X0.5MM	4
10	9597926	WASHER, NW MAIN PIVOT INNER S/S, 8X14.5X2MM	3
9	9597932	WASHER, SS, 8X19X1.2MM	2
8	9597166	BOLT, BODY, S/S, 5/16BSWX2 MICRO HAULER	2
7	9597169	BOLD, CUIDE, S/S, M6X12 BUT SKT 304, MICRO HAULER	1
6	9597630	POST, GUIDE, MICRO HAULER GOLD, RESCUEMATE	1
5	9597715	RIVET, SOLID, DIMPLED SHANK, S/S 1/4X26.2MM	1
4	9597596	PLATE 0.7MM FOR ASCENDER	1
3	9597252	CATCH CAM SHORT PIVOT RIVET	1
2	9597140	BODY, CATCH CAM, PLAED MICRO HAIULER	1
1	9597157	BODY, MICRO, GOLD RESCUEMATE	1
ITEM NO.	PART NUMBER	Material	QTY.



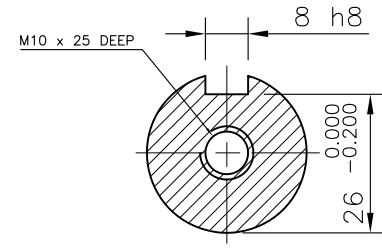
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: +/- 0.2 ANGULAR:		FINISH:	DEBUR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
NAME	SIGNATURE	DATE	TITLE:			
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A			MATERIAL:	DWG NO.	Assem	
			WEIGHT:	SCALE: 1:1.5	A3	
					SHEET 1 OF 1	

SOLIDWORK PROJECT

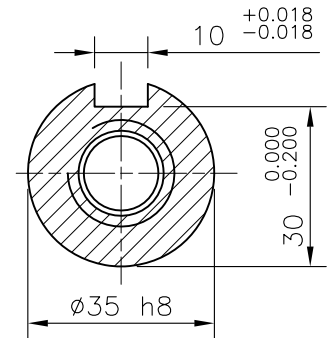
MECHANICAL MODELING SAMPLES - 2



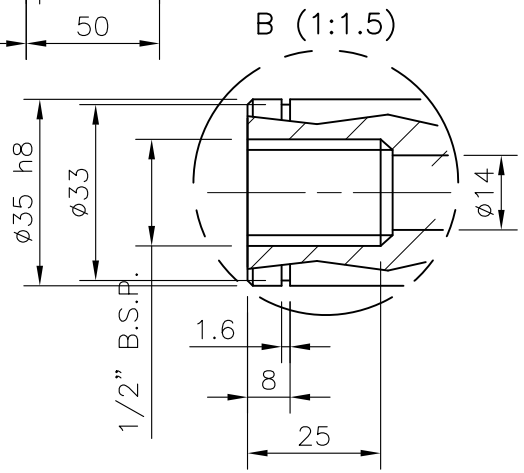
Dimen.	Fit
Ø35	h8 $\begin{matrix} 0.000 & 35.000 \\ -0.039 & 34.961 \end{matrix}$
Ø40	j6 $\begin{matrix} +0.011 & 40.011 \\ -0.005 & 39.995 \end{matrix}$



SECTION B-B

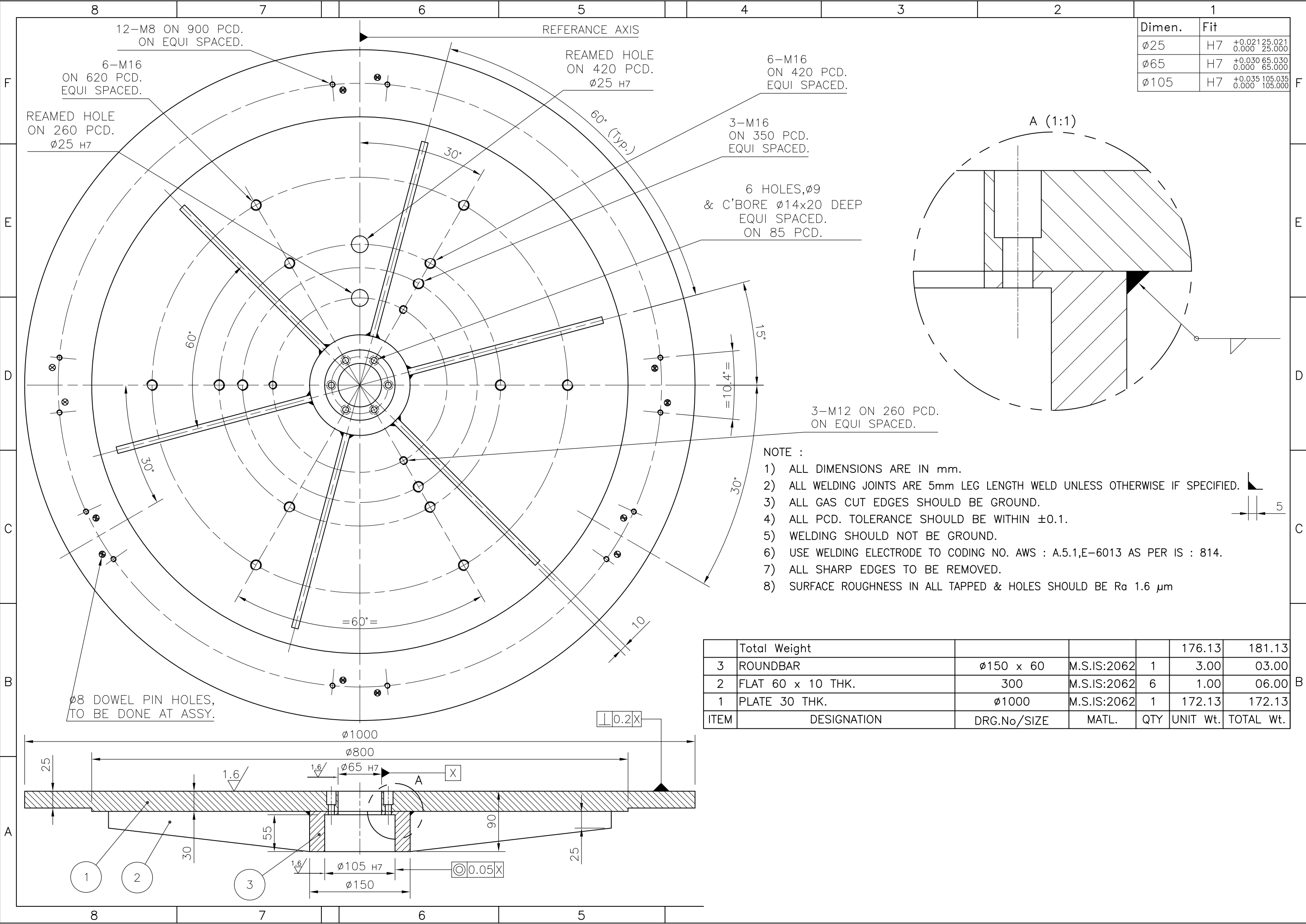


SECTION A-A



NOTE
 : ALL DIMENSIONS ARE IN mm.
 : SURFACE ROUGHNESS IN ALL TAPPED & HOLES SHOULD BE Ra 1.6 µm.
 : ALL UNMENTIONED CHAMFER 2x45°.
 : ITEM NO.: 1 SHOULD BE HEAT TREATED WITH OIL QUENCH UP TO 35 TO 40 RC.
 : ALL WELDING JOINTS ARE 8mm LEG LENGTH WELD UNLESS OTHERWISE IF SPECIFIED.
 : USE WELDING ELECTRODE TO CODING NO. AWS : A.5.1,E-7018 AS PER IS:815

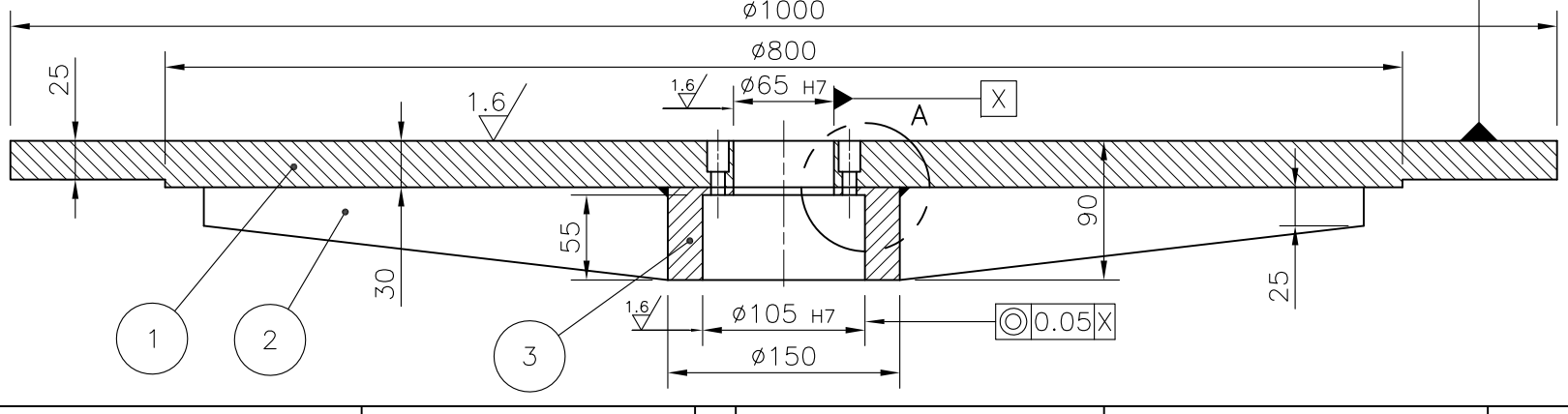
ITEM	DESIGNATION	DRG.No/SIZE	MATL.	QTY	UNIT Wt.	TOTAL Wt.
2	ROUNBAR	Ø63 x 590 Lg.	EN-8	1	40.08	40.08
1	ROUNBAR	Ø 110 x 293 Lg.	EN-8	1	18.23	18.23

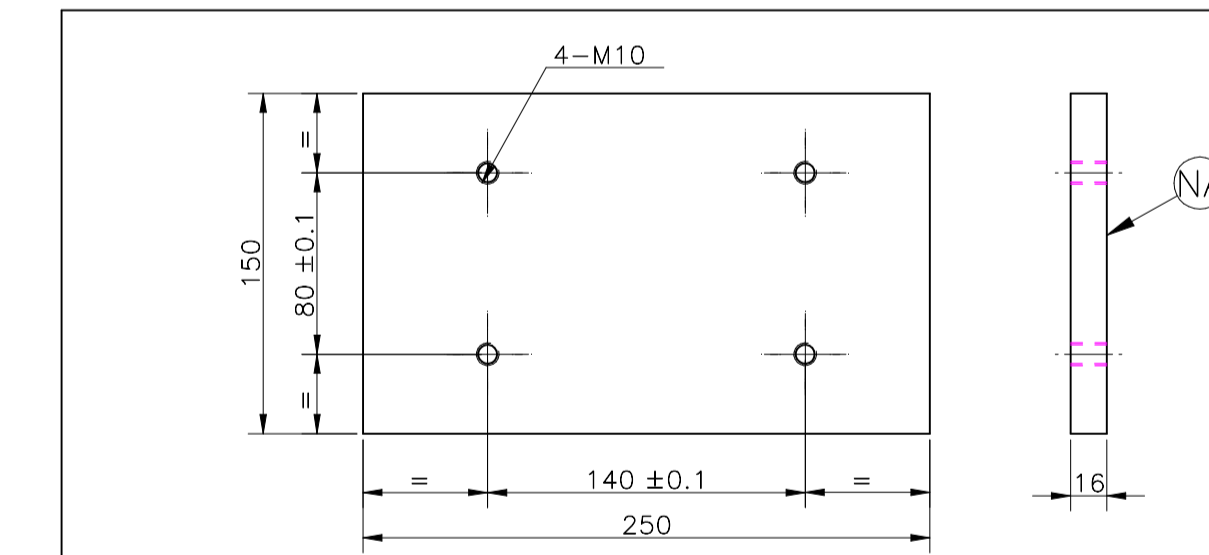
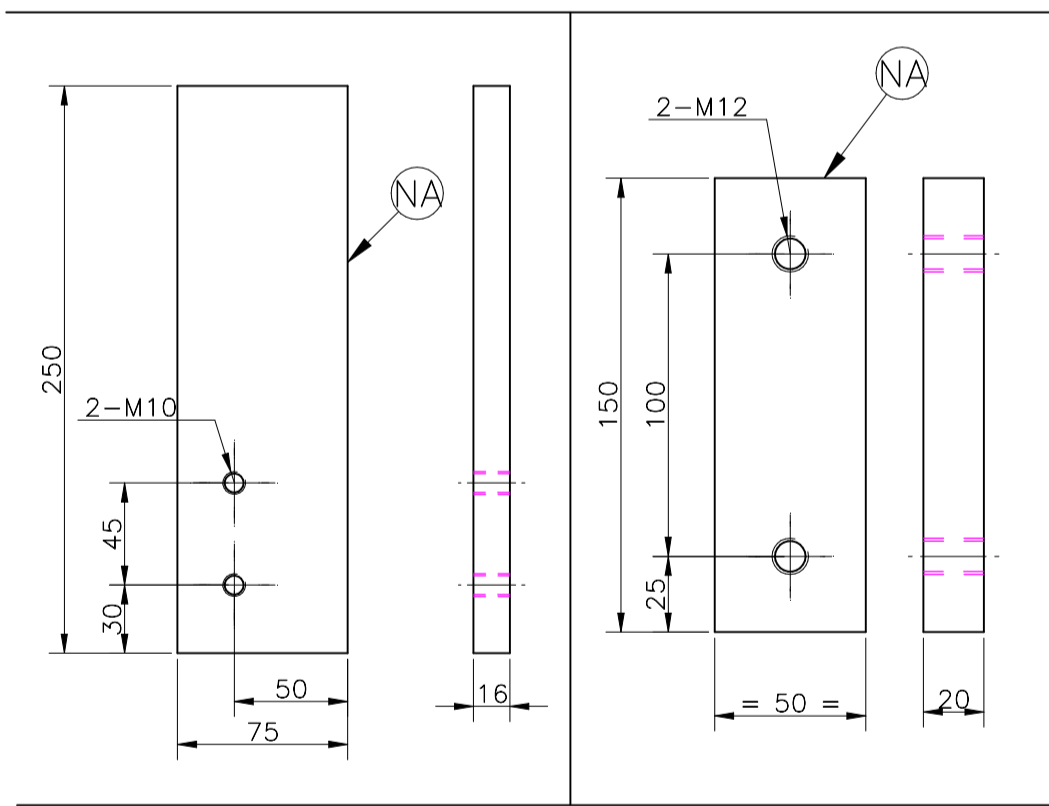
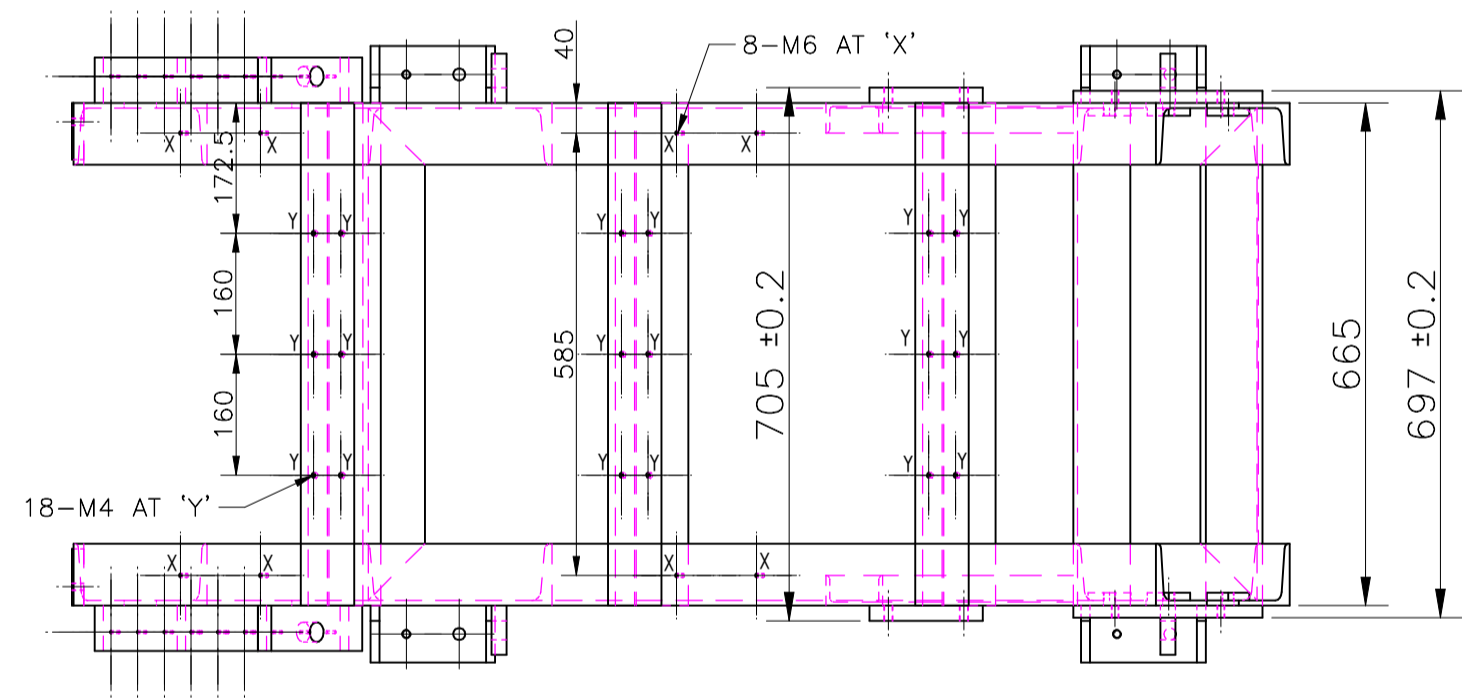
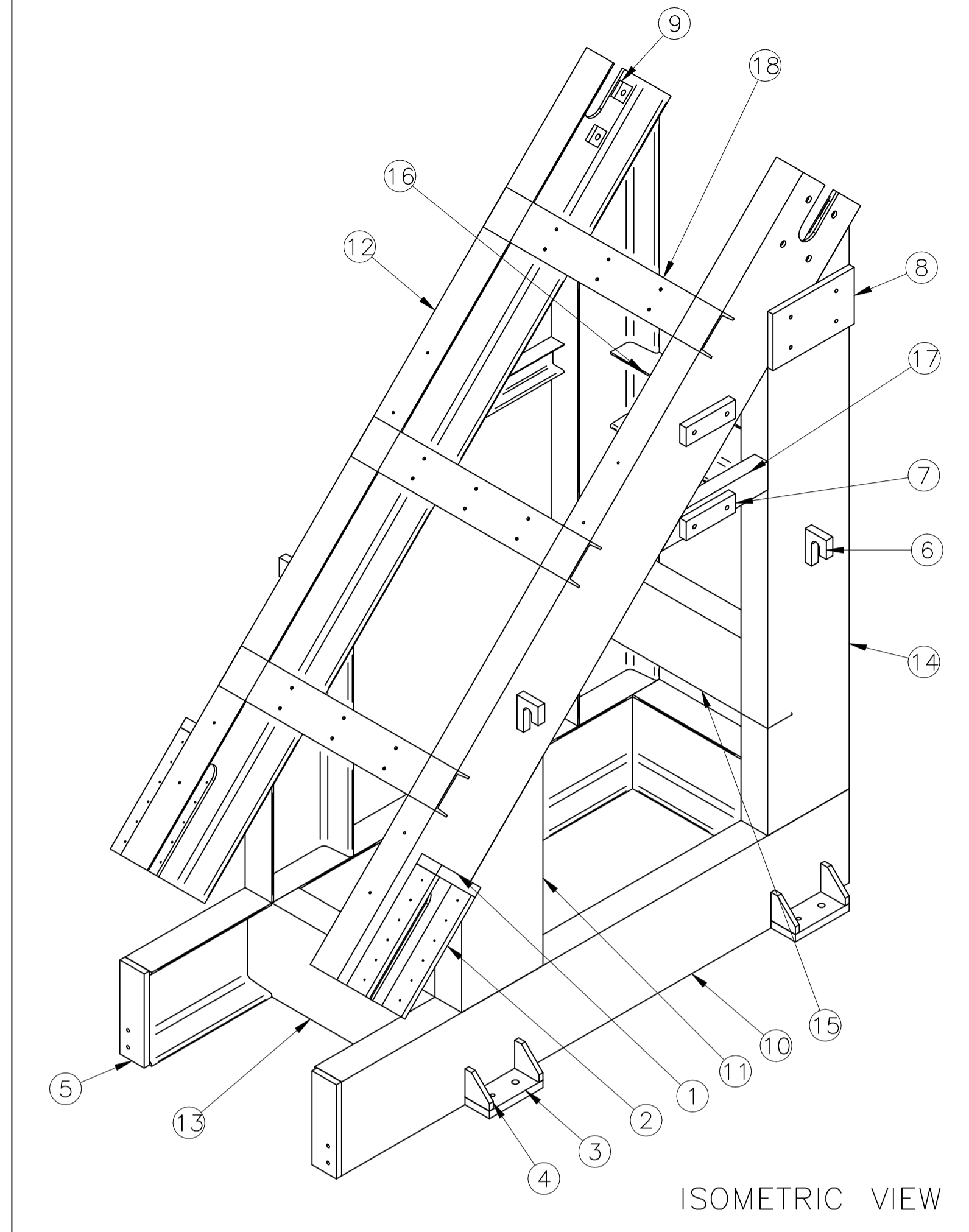
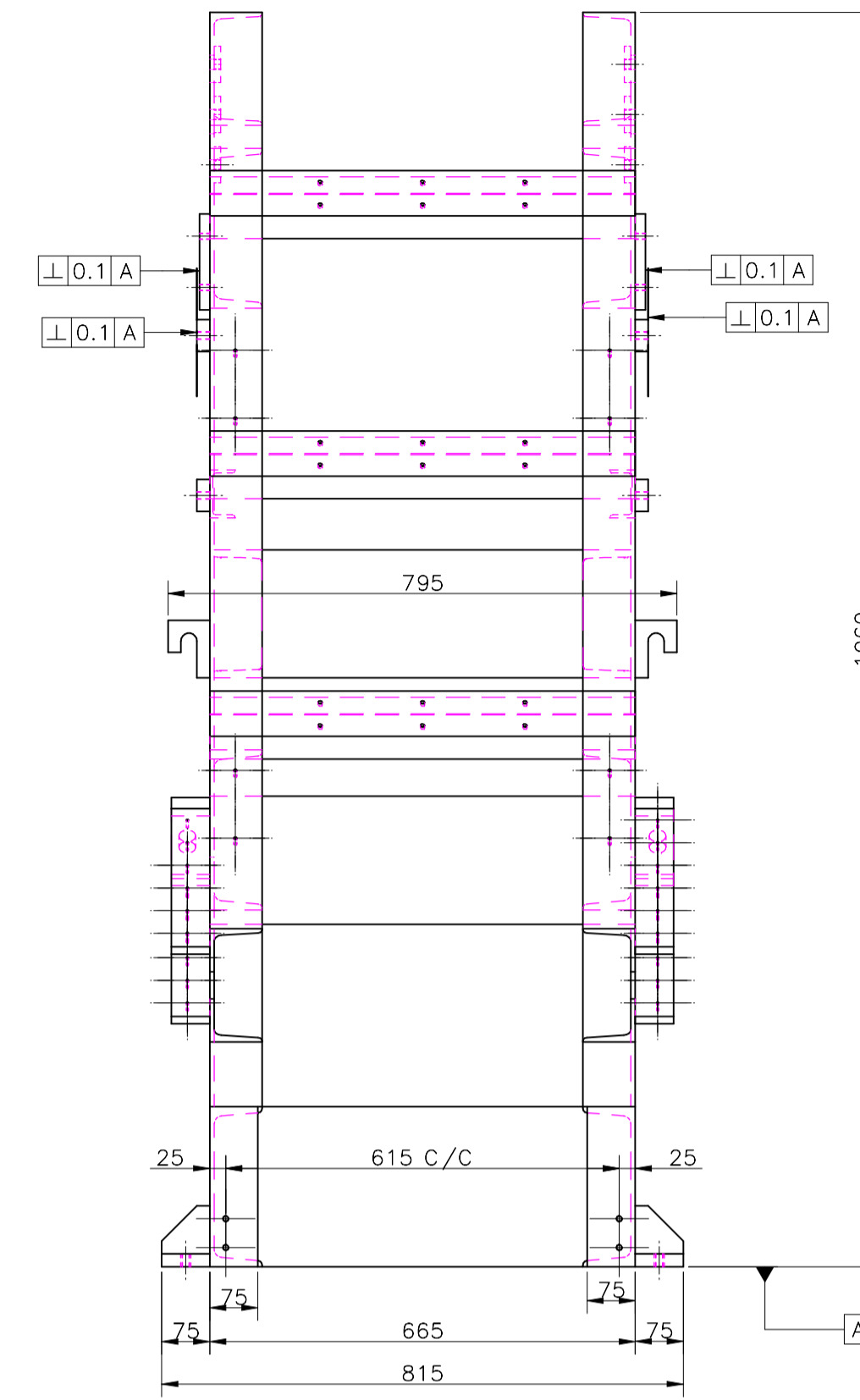
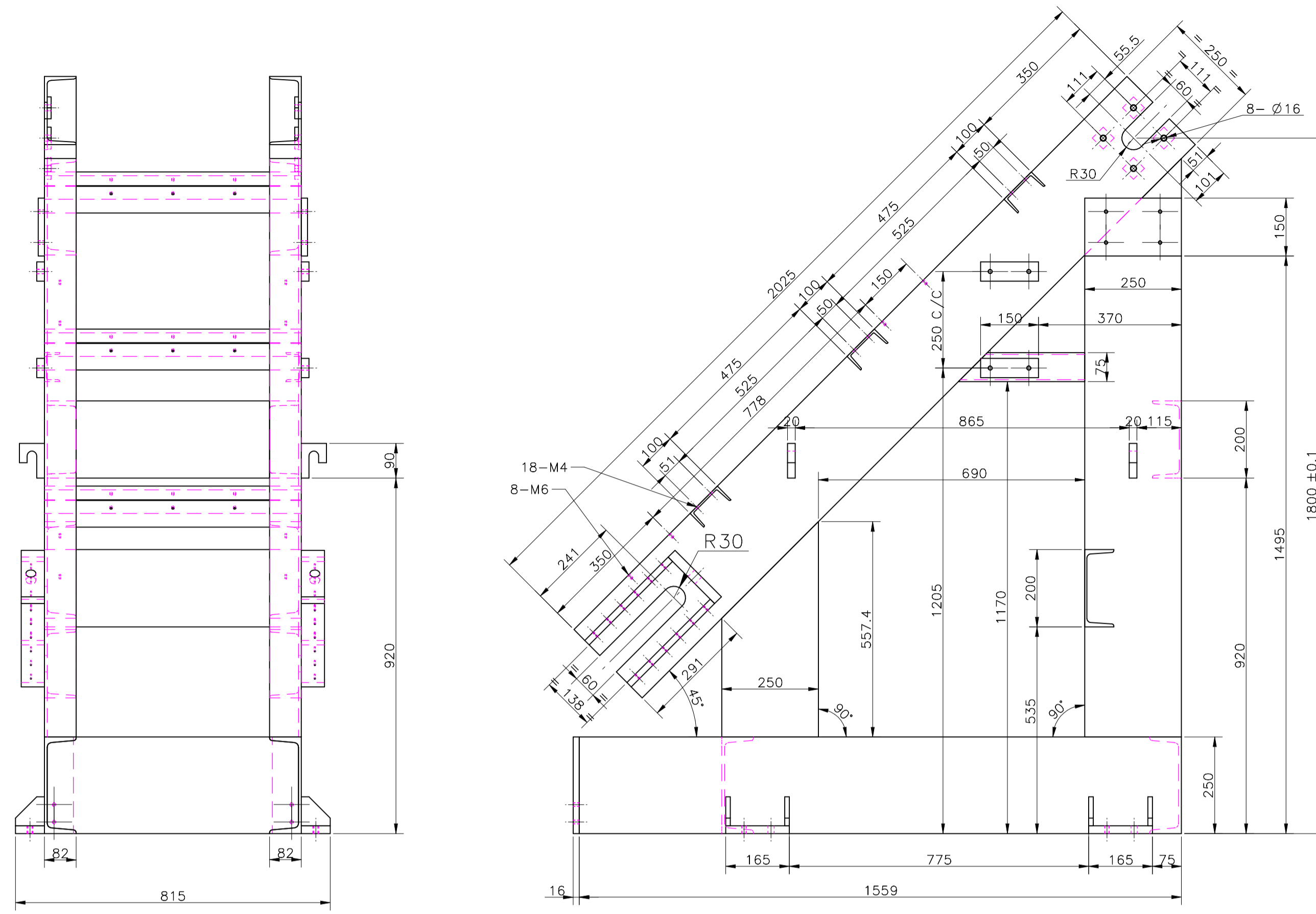


Dimen.	Fit
Ø25	H7 $+0.021_{0.000}^{25.021}$
Ø65	H7 $+0.030_{0.000}^{65.030}$
Ø105	H7 $+0.035_{0.000}^{105.035}$

- NOTE :
- 1) ALL DIMENSIONS ARE IN mm.
 - 2) ALL WELDING JOINTS ARE 5mm LEG LENGTH WELD UNLESS OTHERWISE IF SPECIFIED.
 - 3) ALL GAS CUT EDGES SHOULD BE GROUND.
 - 4) ALL PCD. TOLERANCE SHOULD BE WITHIN ± 0.1 .
 - 5) WELDING SHOULD NOT BE GROUND.
 - 6) USE WELDING ELECTRODE TO CODING NO. AWS : A.5.1,E-6013 AS PER IS : 814.
 - 7) ALL SHARP EDGES TO BE REMOVED.
 - 8) SURFACE ROUGHNESS IN ALL TAPPED & HOLES SHOULD BE Ra 1.6 μ m

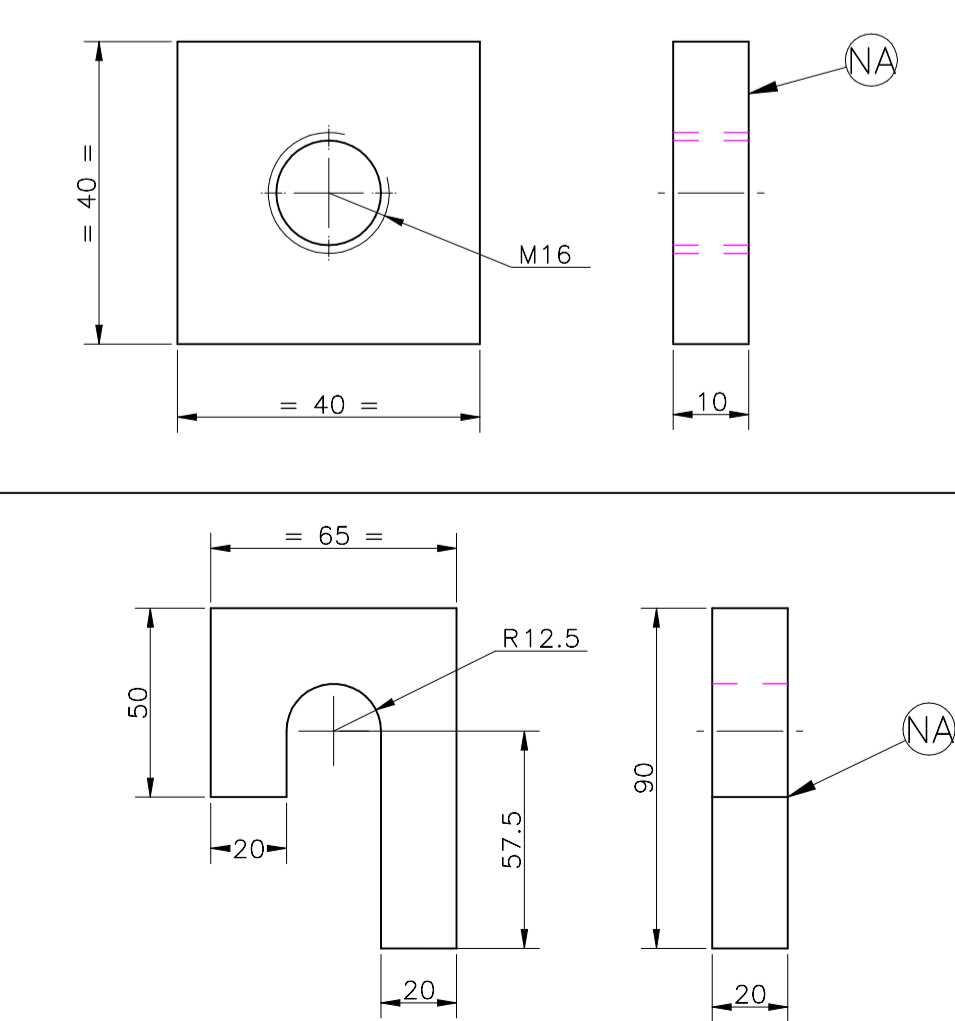
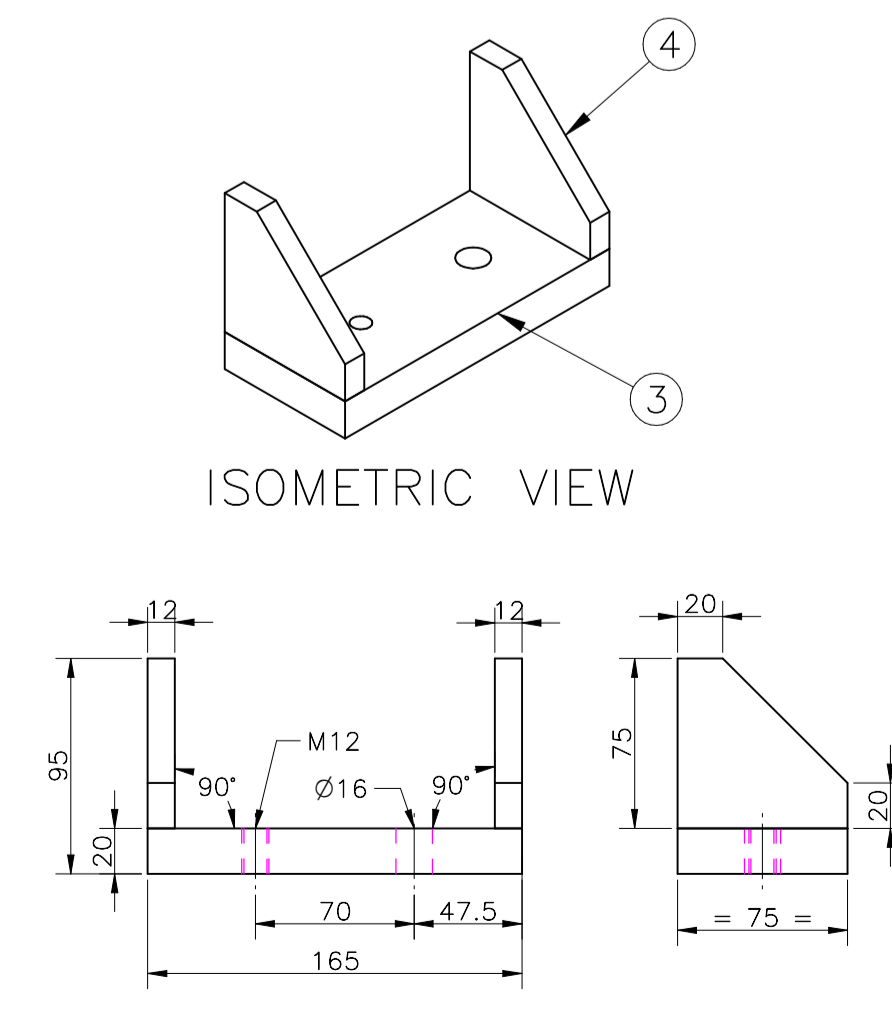
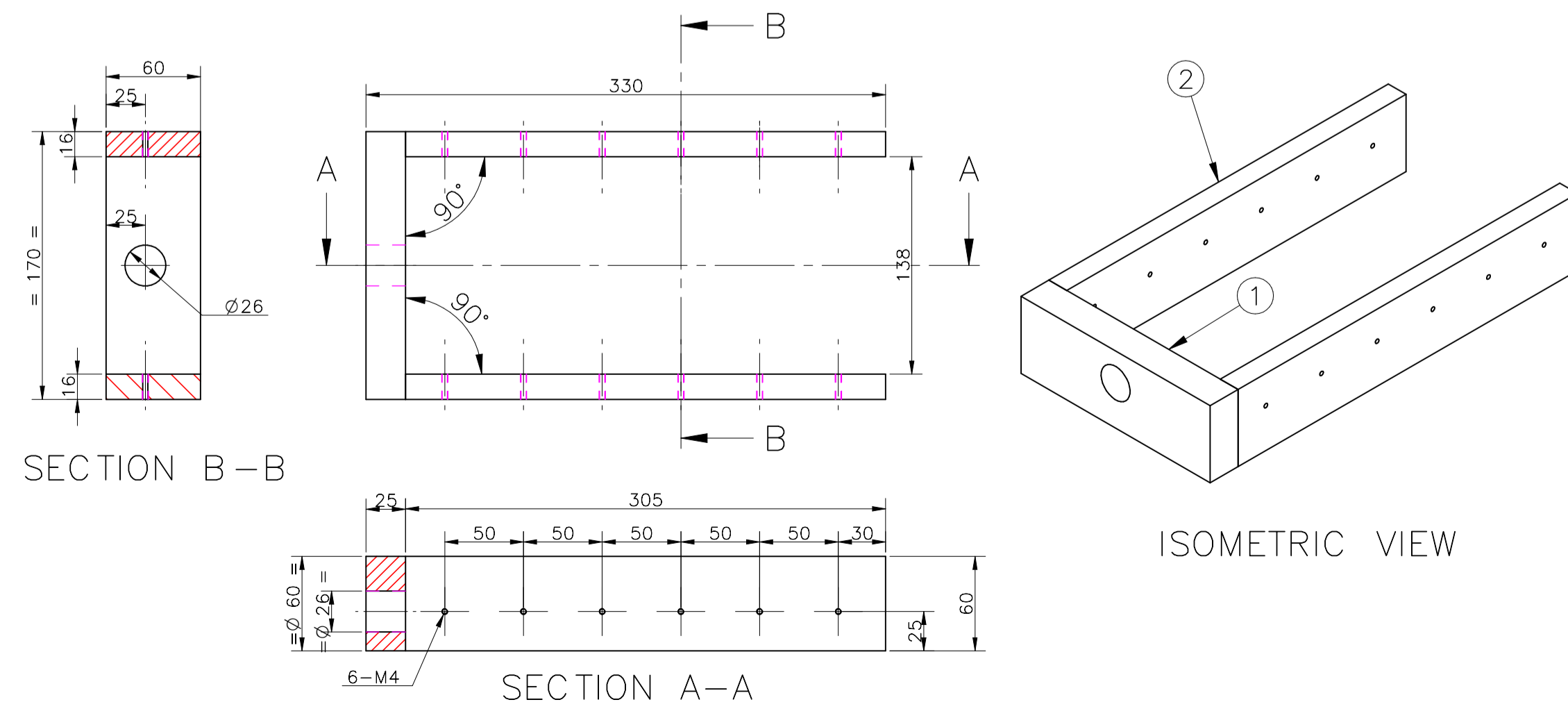
ITEM	DESIGNATION	DRG.No/SIZE	MATL.	QTY	UNIT Wt.	TOTAL Wt.
3	ROUNDBAR	Ø150 x 60	M.S.IS:2062	1	176.13	181.13
2	FLAT 60 x 10 THK.	300	M.S.IS:2062	6	3.00	03.00
1	PLATE 30 THK.	Ø1000	M.S.IS:2062	1	1.00	06.00
1	PLATE 30 THK.	Ø1000	M.S.IS:2062	1	172.13	172.13

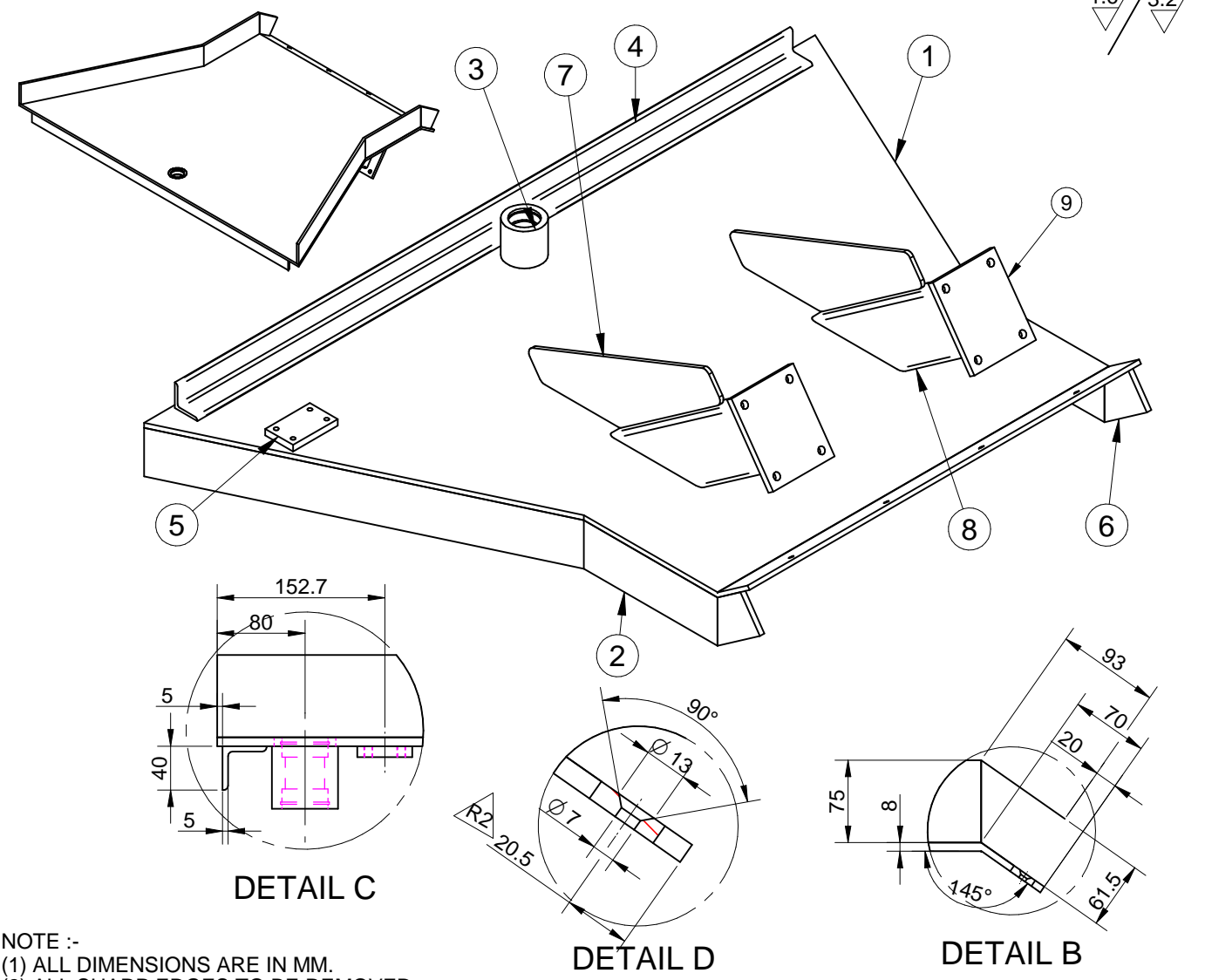
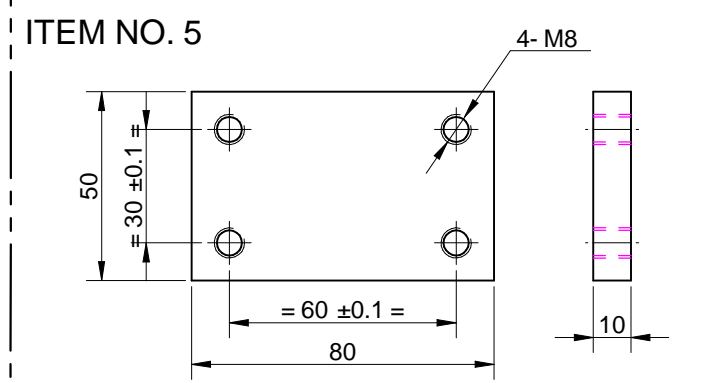
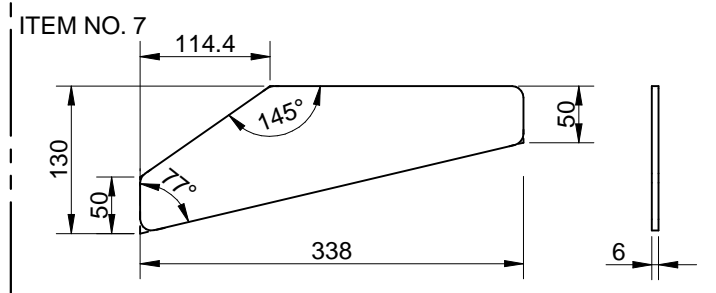
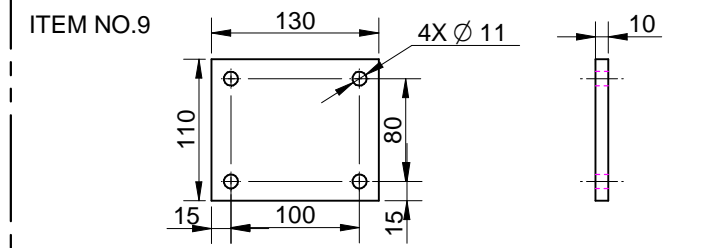
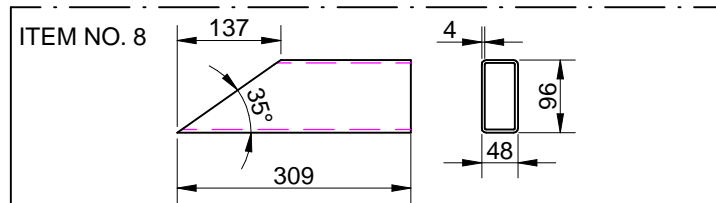
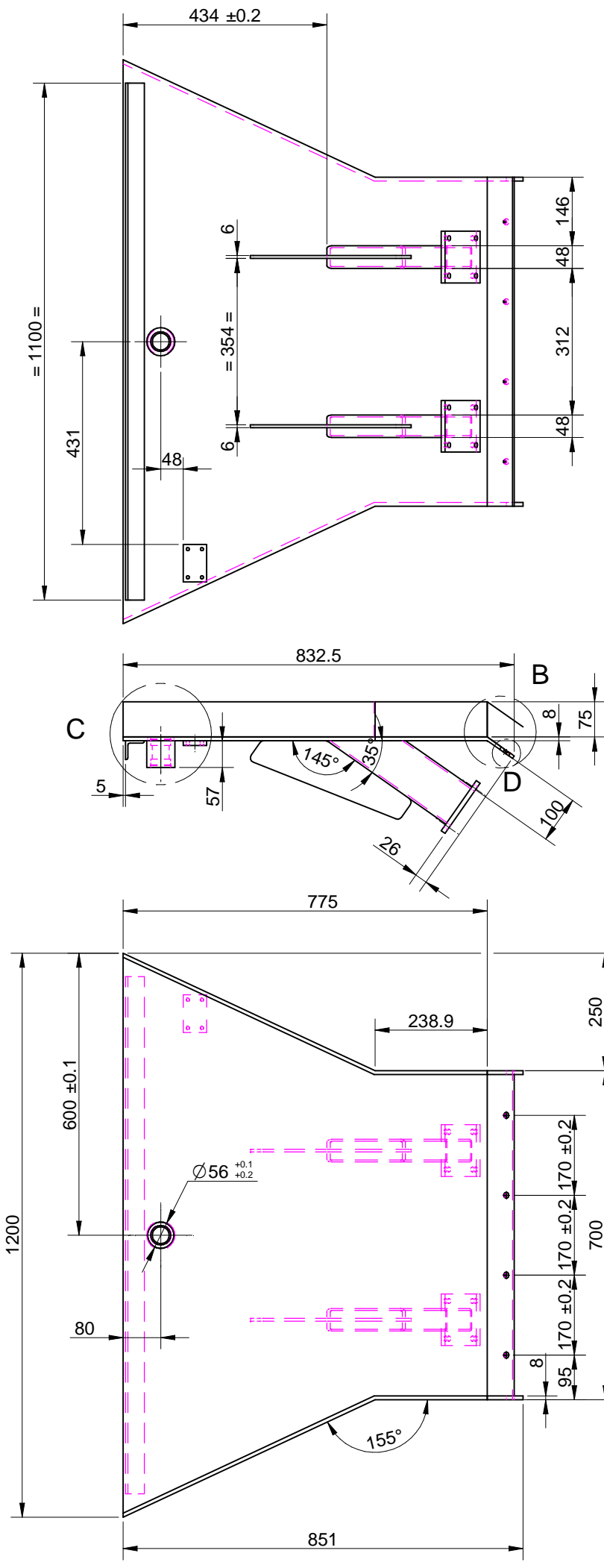




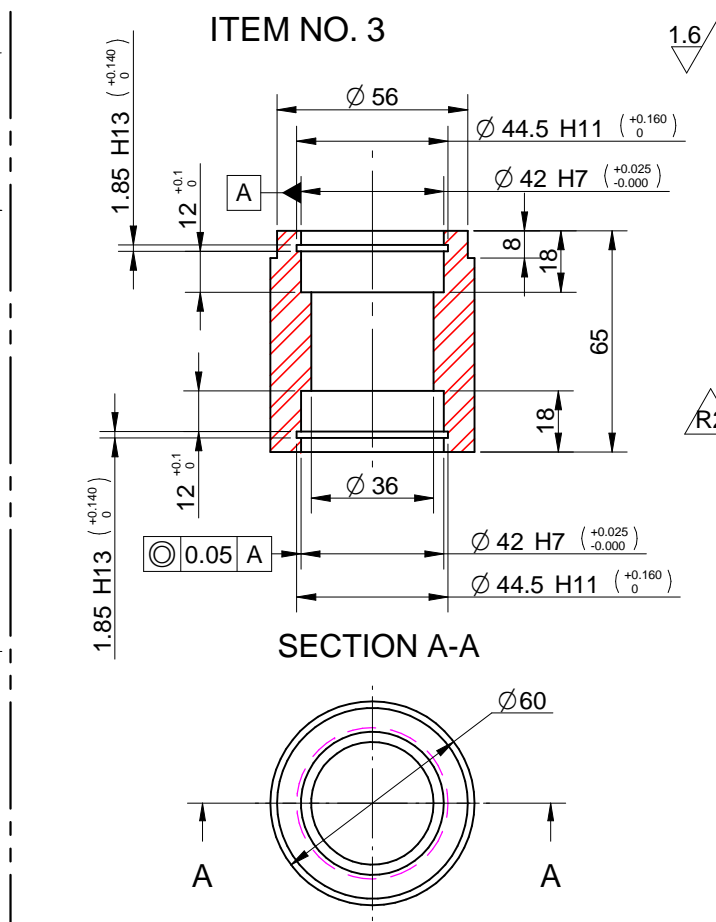
NOTE :-
 (1) ALL DIMENSIONS ARE IN MM.
 (2) ALL WELDING JOINTS ARE 5 MM LEG LENGTH WELD UNLESS OTHERWISE IF SPECIFIED.
 (3) ALL GAS CUT EDGES SHOULD BE GROUND.
 (4) USE WELDING ELECTRODE TO CODING NO. AWS : A5.1E-6013 AS PER IS814 (M.S.TOM.S.)
 (5) ALL SHARP EDGES TO BE REMOVED.
 (6) SURFACE ROUGHNESS IN ALL TAPPED & HOLES SHOULD BE Ra 6.3µ.
 (7) TOTAL WEIGHT 426.86Kg.

ITEM	DESIGNATION	DRG.NO./SIZE	MATL.	QTY.	UNIT WT.	TOTAL WL.
18	ISMC 100 x 50	(650.80 mm)	M.S.I.S.808	3	11.96 kg	
17	ISMC 75 x 40	(327.40 mm)	M.S.I.S.808	2	4.447 kg	
16	ISMC 200 x 75	(650.80 mm)	M.S.I.S.808	1	14.43 kg	
15	ISMC 200 x 75	(650.80 mm)	M.S.I.S.808	1	14.43 kg	
14	ISMC 250 x 82	(1497.40 mm)	M.S.I.S.808	2	79.70 kg	
13	ISMC 250 x 82	(650.80 mm)	M.S.I.S.808	2	34.16 kg	
12	ISMC 250 x 82	(2025.00 mm)	M.S.I.S.808	2	106.43 kg	
11	ISMC 250 x 82	(557.40 mm)	M.S.I.S.808	2	29.29 kg	
10	ISMC 250 x 82	(1559.00 mm)	M.S.I.S.808	2	81.94 kg	
9	PLATE 10 THK.	40 x 40	M.S.I.S.2062	8	1.200 kg	
8	PLATE 16 THK.	150 x 250 Lg.	M.S.I.S.2062	2	9.420 kg	
7	FLAT 50 x 20 THK.	150 Lg.	M.S.I.S.2062	4	7.040 kg	
6	PLATE 20 THK.	65 x 90 Lg.	M.S.I.S.2062	4	3.640 kg	
5	FLAT 75 x 16 THK.	250 Lg.	M.S.I.S.2062	2	4.700 kg	
4	PLATE 12 THK.	75 x 75 Lg.	M.S.I.S.2062	8	4.160 kg	
3	FLAT 75 x 20 THK.	165 Lg.	M.S.I.S.2062	4	7.760 kg	
2	POLISHED FLAT 60 x 16 THK.	305 Lg.	M.S.I.S.2062	4	8.160 kg	
1	POLISHED FLAT 60 x 25 THK.	170 Lg.	M.S.I.S.2062	2	4.000 kg	



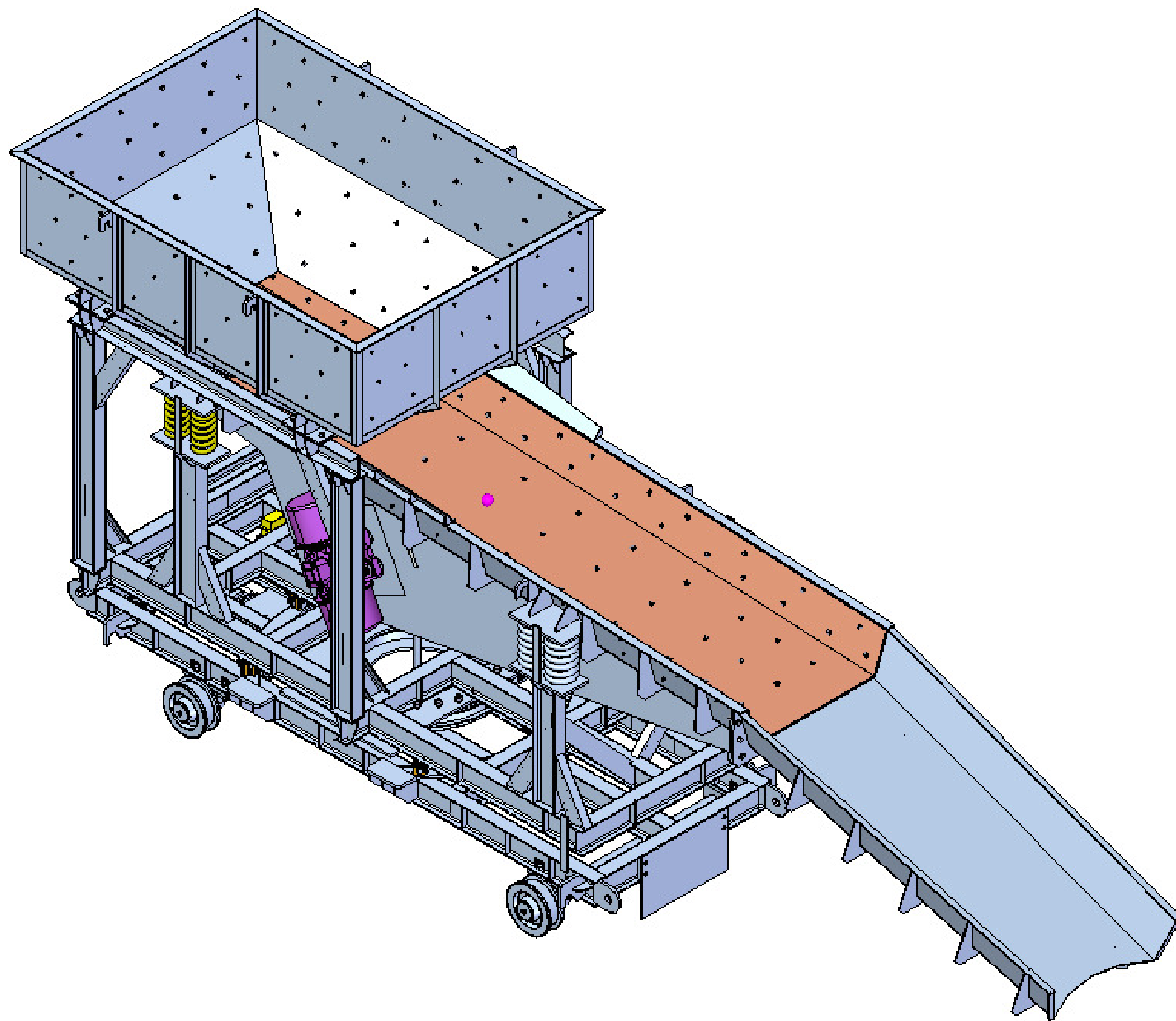


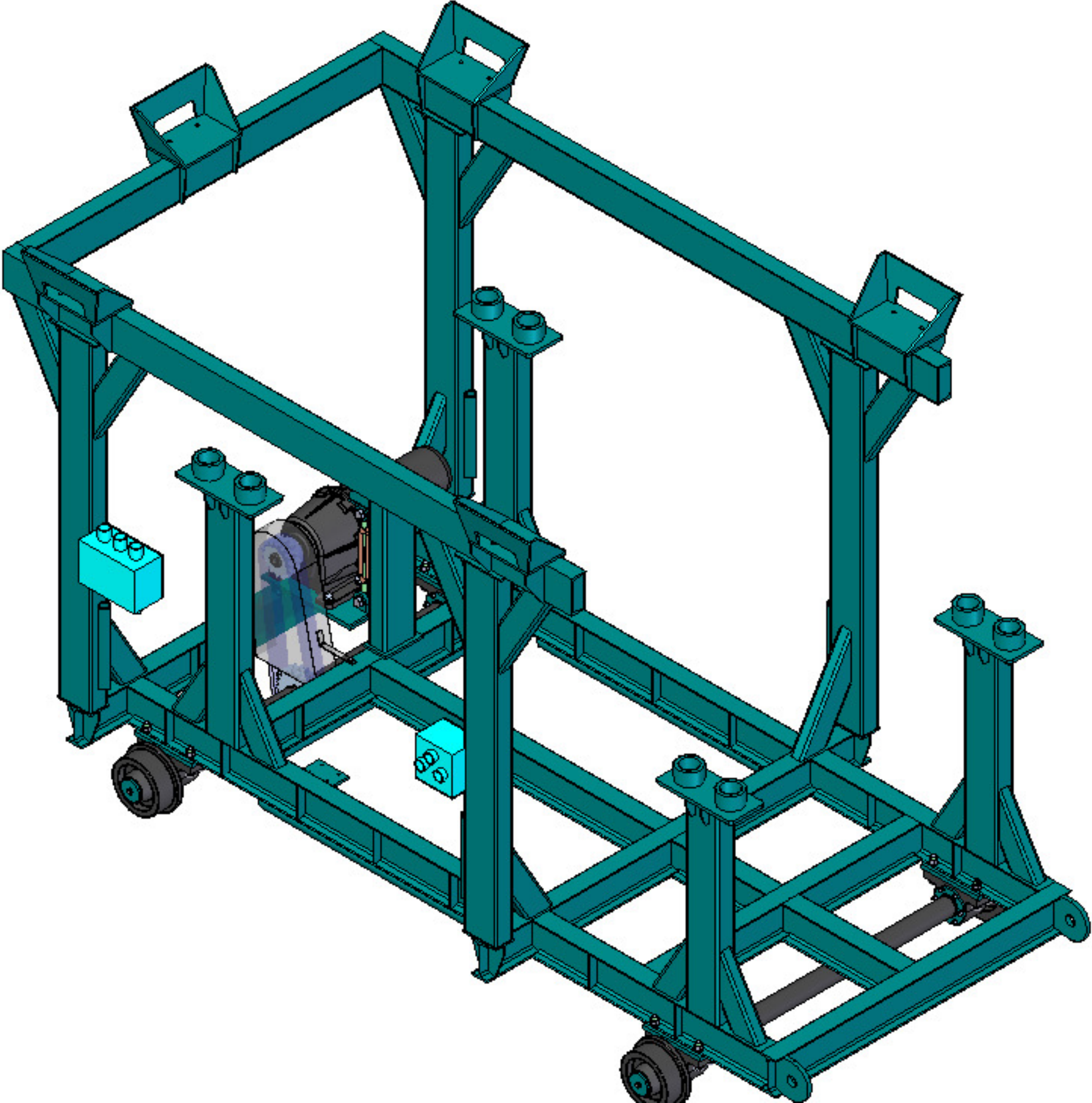
NOTE :-
 (1) ALL DIMENSIONS ARE IN MM.
 (2) ALL SHARP EDGES TO BE REMOVED.
 (3) WELDING SHOULD NOT BE GROUND.
 (4) ALL WELDING JOINTS ARE 5mm LEG LENGTH WELD UNLESS OTHERWISE IF SPECIFIED.
 (5) SURFACE ROUGHNESS IN ALL TAPPED & HOLES SHOULD BE Ra 6.3µm.
 (6) USE WELDING ELECTRODE TO CODING NO. AWS : A.5.1,E-6013 AS PER IS : 814(MS TO MS).
 (7) ITEM NO. 5 WELD AT ASSEMBLY TIME.
 (8) TOTAL WEIGHT APPROX. 65.30 kg.

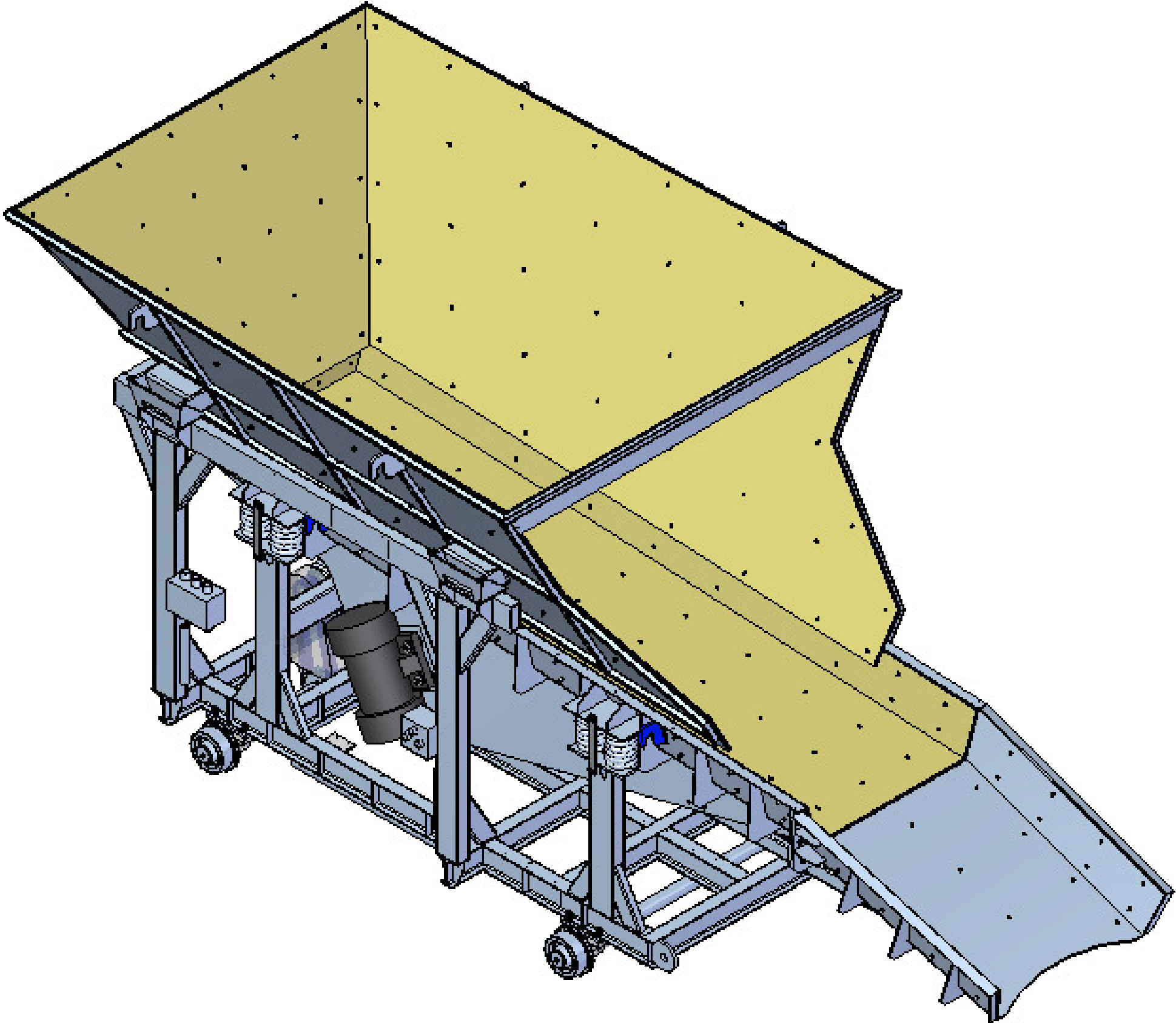


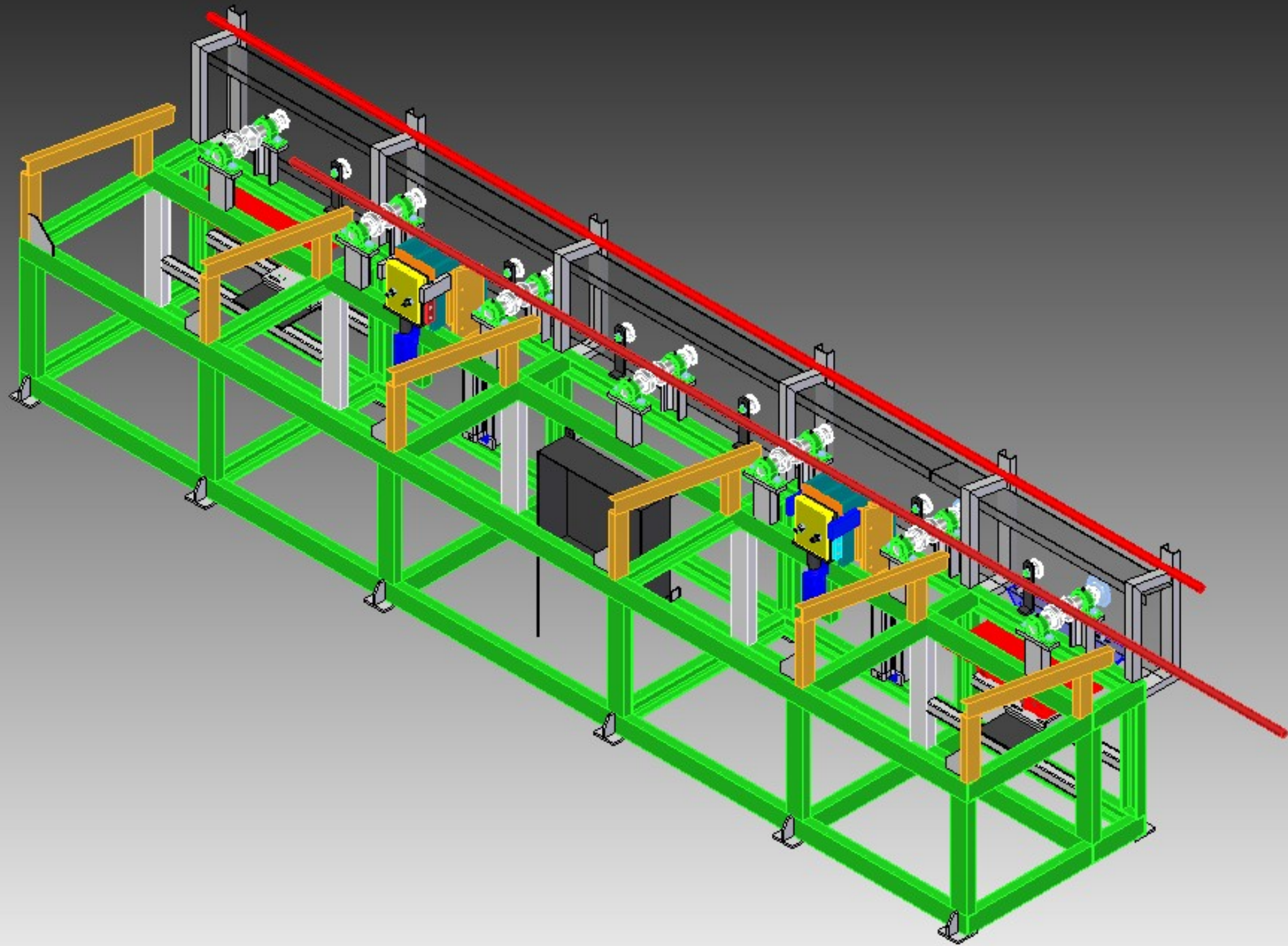
9	PLATE	10.00	130.00	110.00		M.S.IS.2062	2	2.19
8	SQ. SEC. 96 X48	4.00	310.00	96.00	48.00	M.S.IS:2062	2	4.00
7	PLATE	6.00	338.00	130.00		M.S.IS.2062	2	2.43
6	PLATE	8.00	93.00	61.50		M.S.IS:2062	2	0.55
5	PLATE	10.00	80.00	50.00		M.S.IS.2062	1	0.30
4	ISA	5.00	1100.00	40.00	40.00	MS:IS:2062	1	3.20
3	ROUND BAR		65.00		60.00	M.S.IS:2062	1	0.79
2	PLATE	8.00	830.00	75.00		MS.IS:2062	2	7.72
1	PLATE	8.00	1200.00	842.00		MS.IS:2062	1	44.12

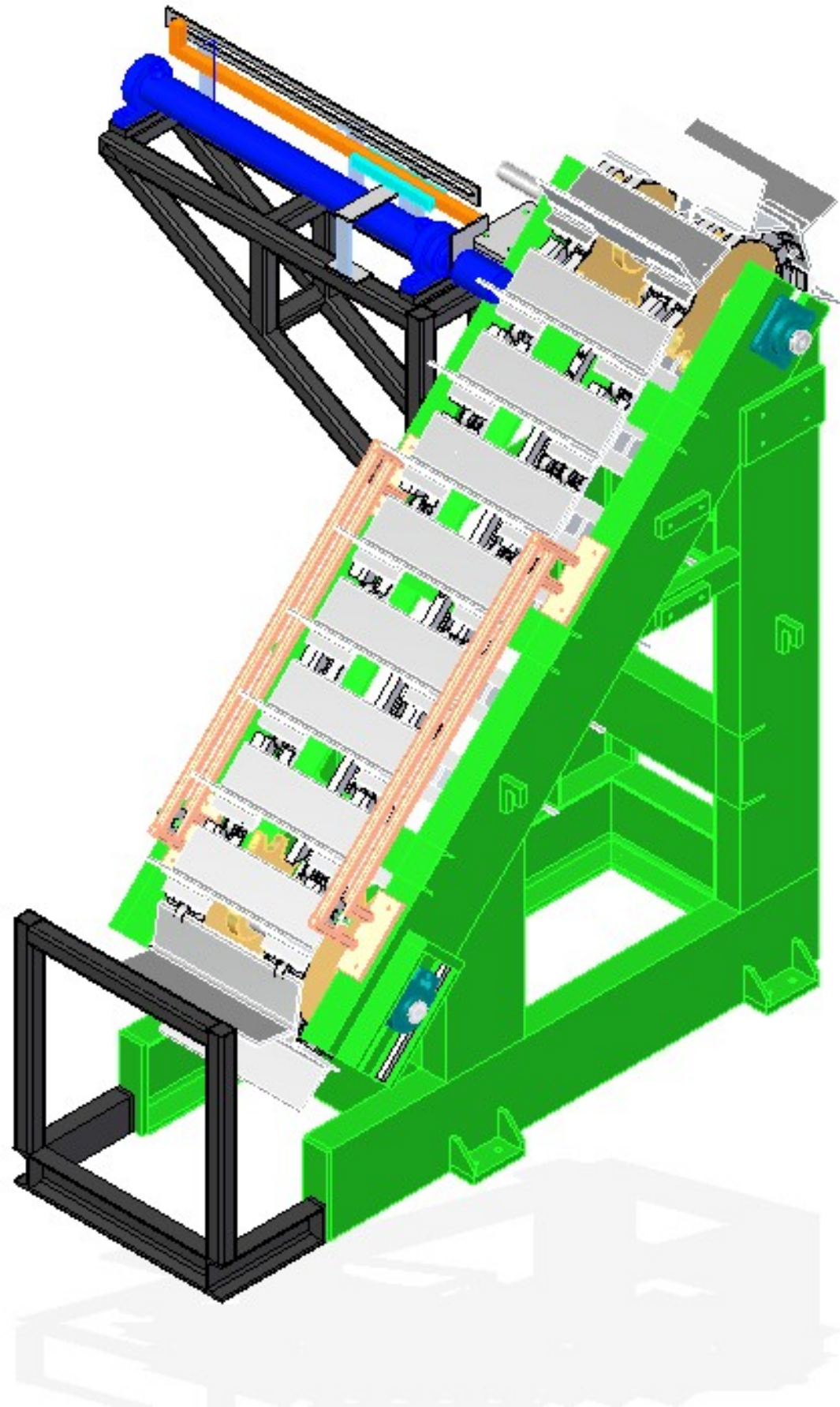
3D VIEW











THANK YOU