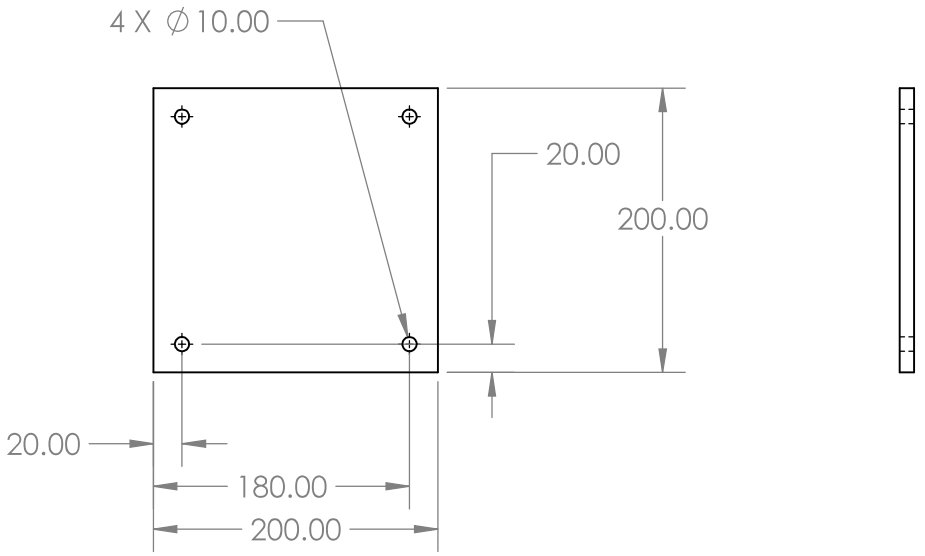
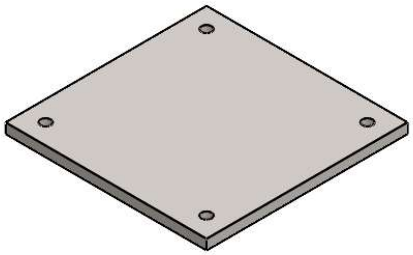
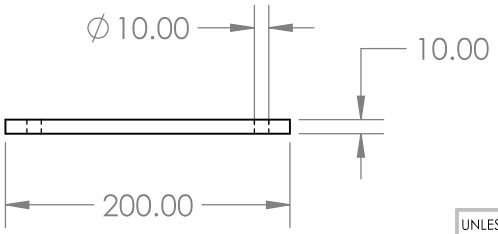
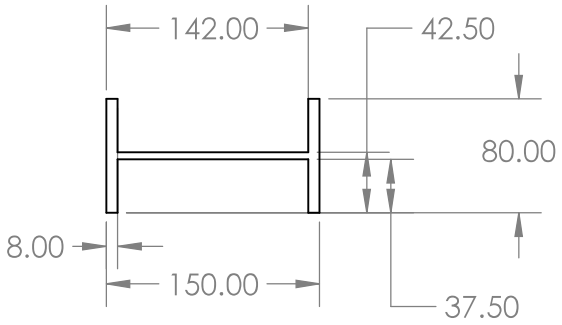
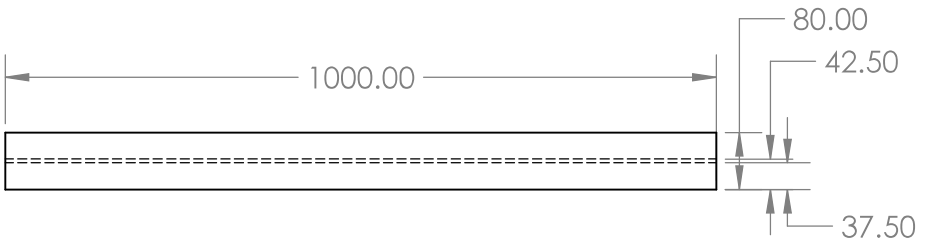


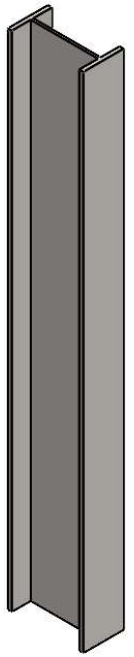


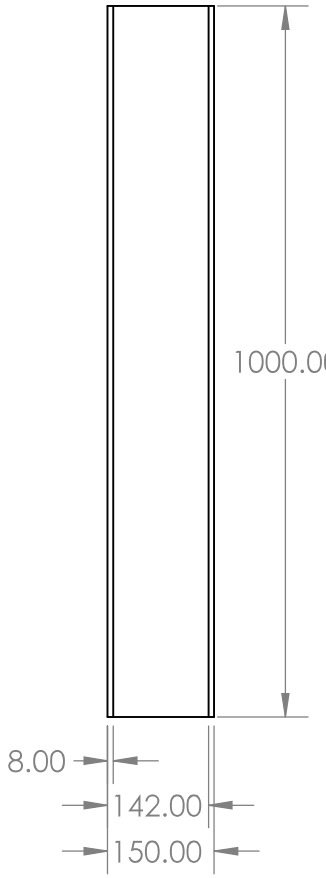


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:				DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE: Base_Plate_X	
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL: Mild Steel	All dimensions are in mm	A4
				WEIGHT:	SCALE:1:5	SHEET 1 OF 1

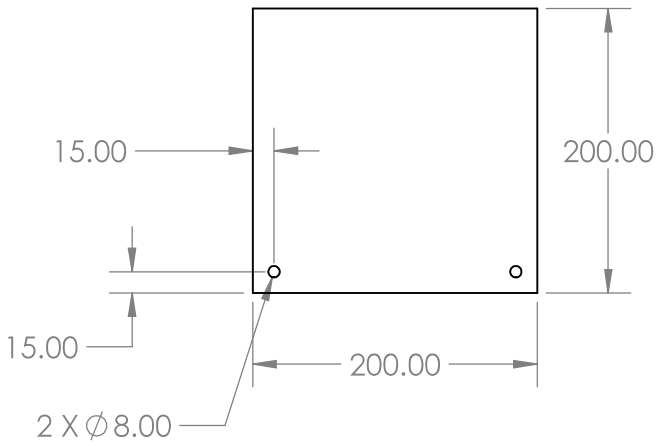


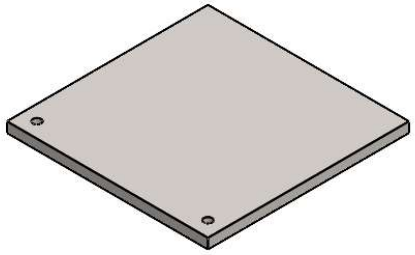


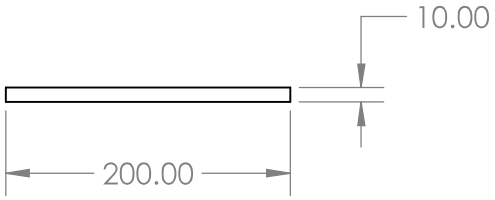




UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
				Karthik Swaminathan		
	NAME	SIGNATURE	DATE	TITLE:		
DRAWN				ISMB 150		
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A4
				Mild Steel		
				WEIGHT:	SCALE:1:10	SHEET 1 OF 1

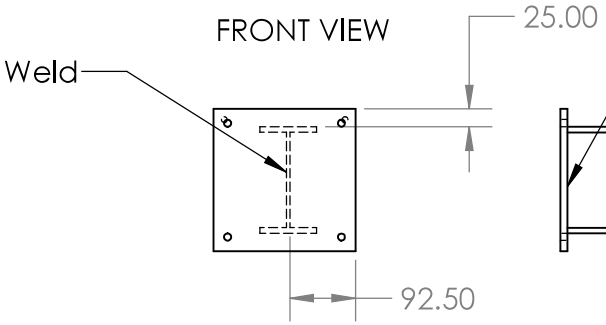




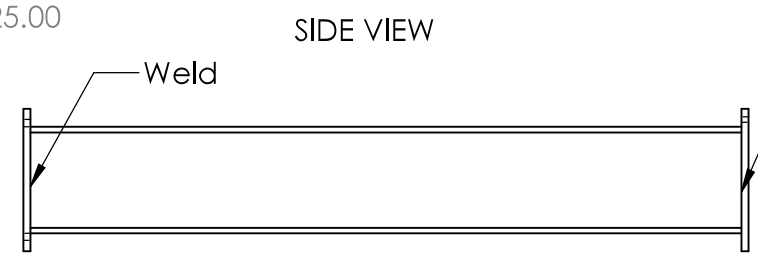


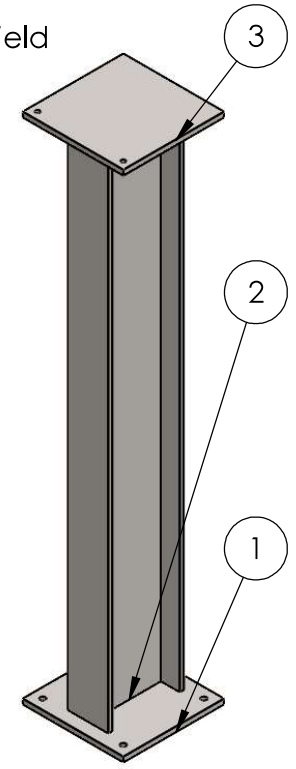
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
				Karthik Swaminathan		
	NAME	SIGNATURE	DATE	TITLE:		
DRAWN				Top_Plate_X		
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A4
				Mild Steel		
				WEIGHT:	SCALE:1:5	SHEET 1 OF 1

FRONT VIEW



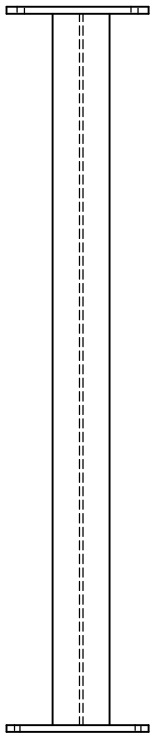
SIDE VIEW





ISOMETRIC VIEW

TOP VIEW



ITEM NO.	DESCRIPTION	Material	QTY.
1	Base_Plate_X	Mild Steel	1
2	ISMB 150	Mild Steel	1
3	Top_Plate_X	Mild Steel	1
4	M10x45 hex bolt	Mild Steel	4
5	M10 hex Nut Grade C	Mild Steel	4
6	M8 hex Nut Grade C	Mild Steel	2
7	M8 hex bolt	Mild Steel	2

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND BREAK SHARP EDGES

DO NOT SCALE DRAWING | REVISION

Karthik Swaminathan

	NAME	SIGNATURE	DATE
DRAWN			
CHK'D			
APPV'D			
MFG			
Q.A			

MATERIAL:

WEIGHT:

TITLE:

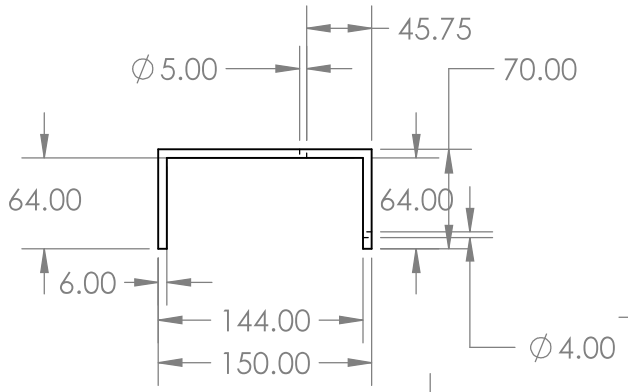
X_Vertical_Column

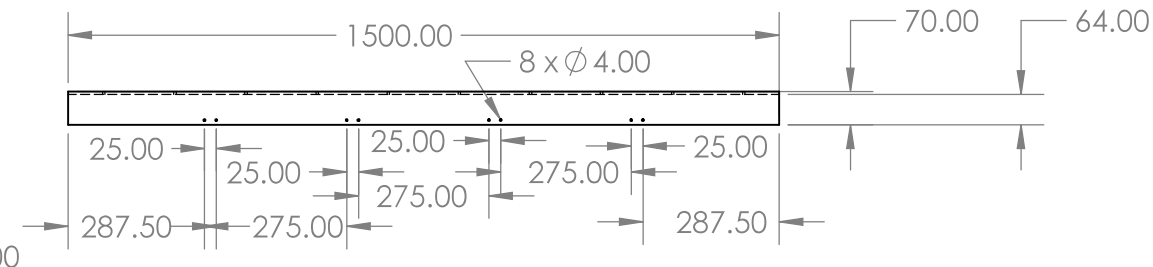
All Dimensions are in mm

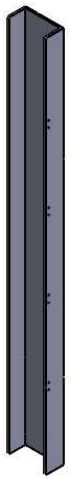
A4

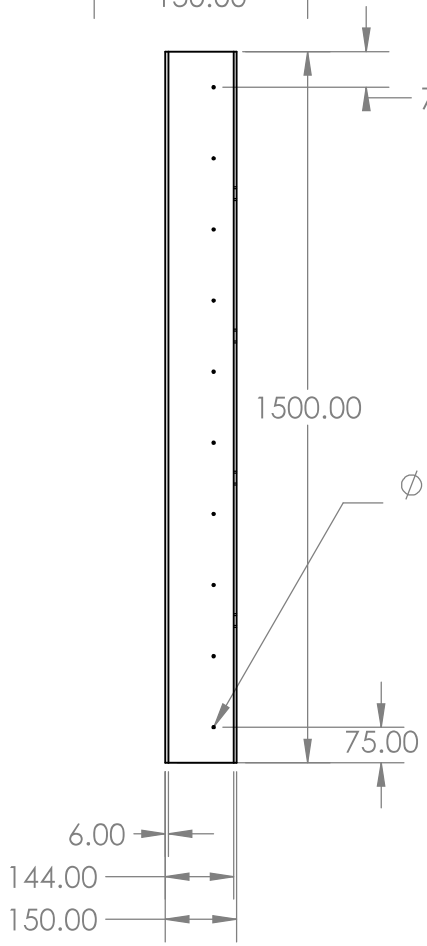
SCALE:1:20

SHEET 1 OF 1

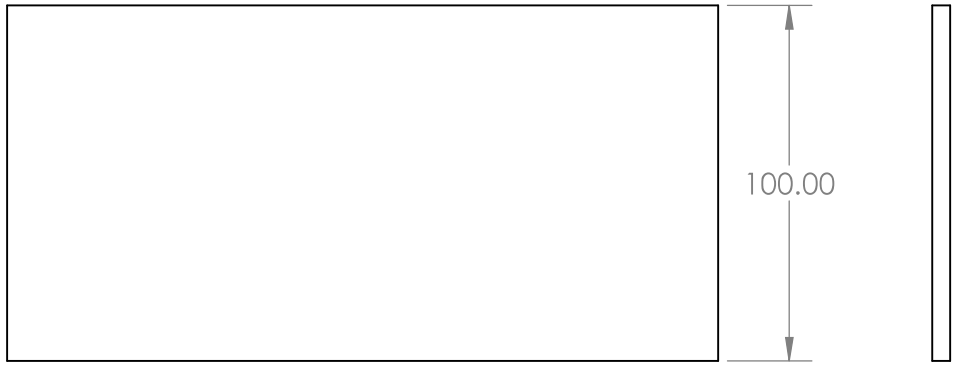


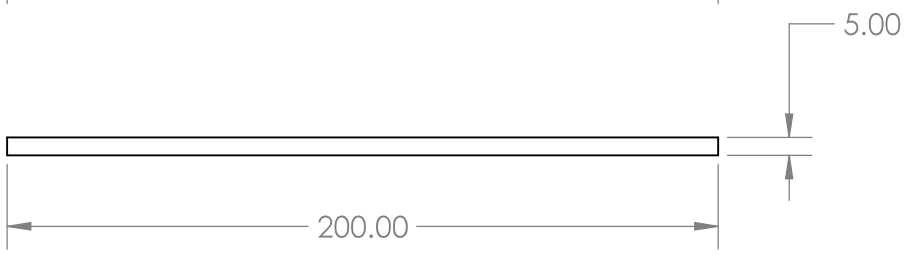


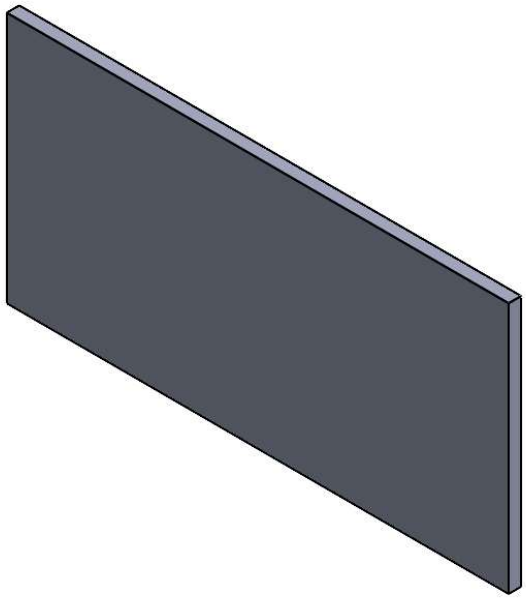




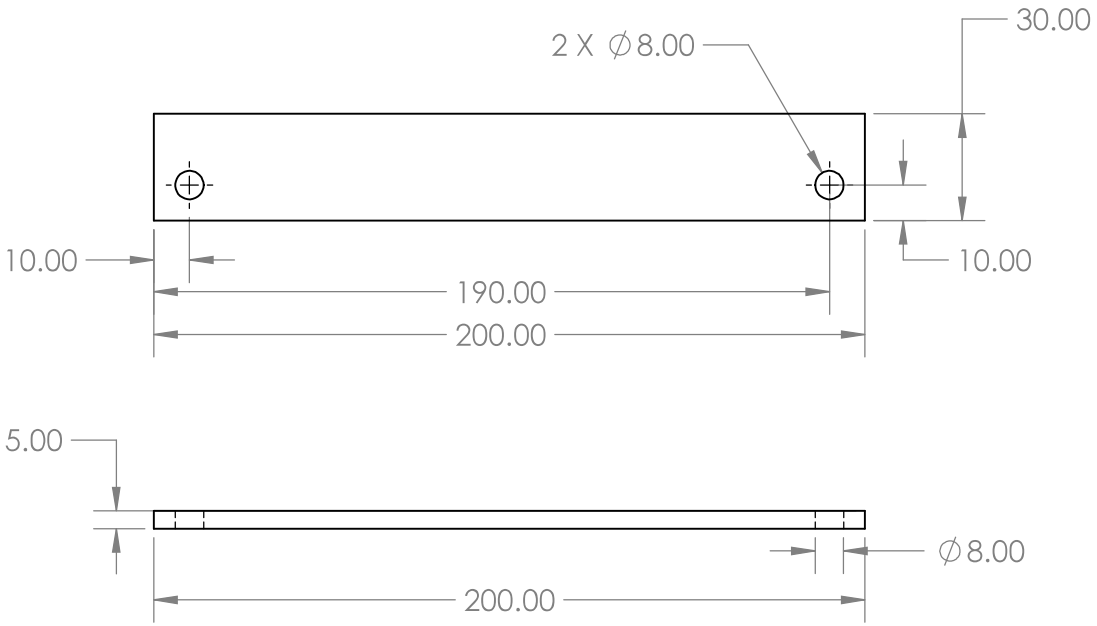
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE: C Channel	
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL: Mild Steel	All Dimensions are in mm	A4
				WEIGHT:	SCALE:1:20	SHEET 1 OF 1

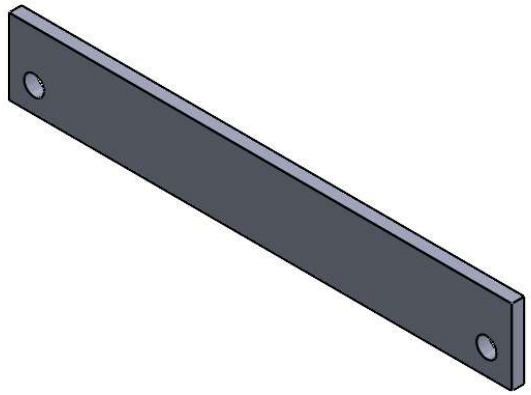




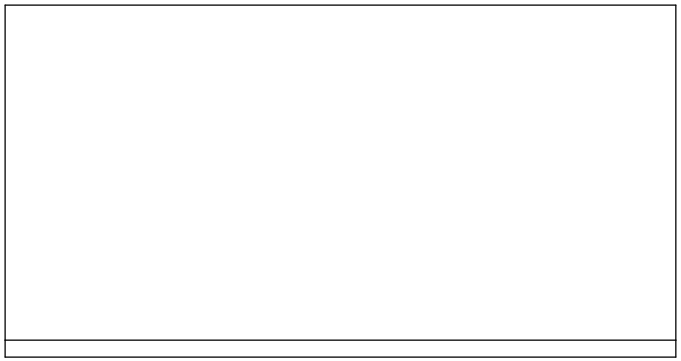


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE: C Covering 1	
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL: Mild Steel	All Dimensions are in mm	A4
				WEIGHT:	SCALE:1:2	SHEET 1 OF 1

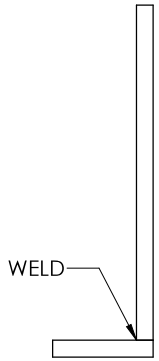




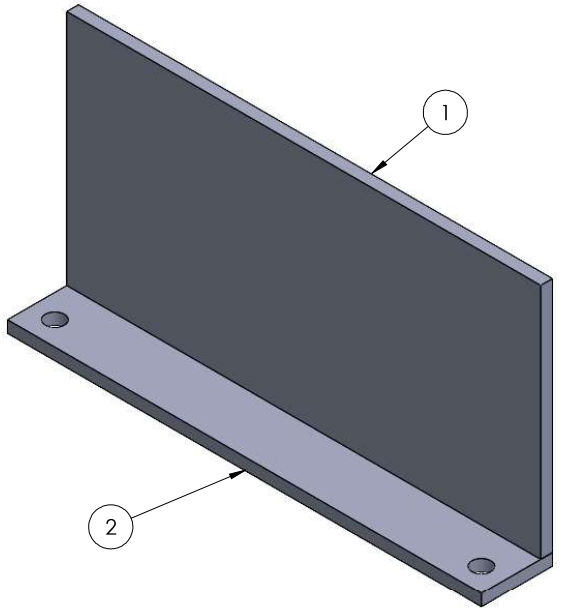
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
				Karthik Swaminathan		
	NAME	SIGNATURE	DATE	TITLE: C Covering 2		
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL: Mild Steel	All Dimensions are in mm	A4
				WEIGHT:	SCALE:1:2	SHEET 1 OF 1



FRONT VIEW



SIDE VIEW

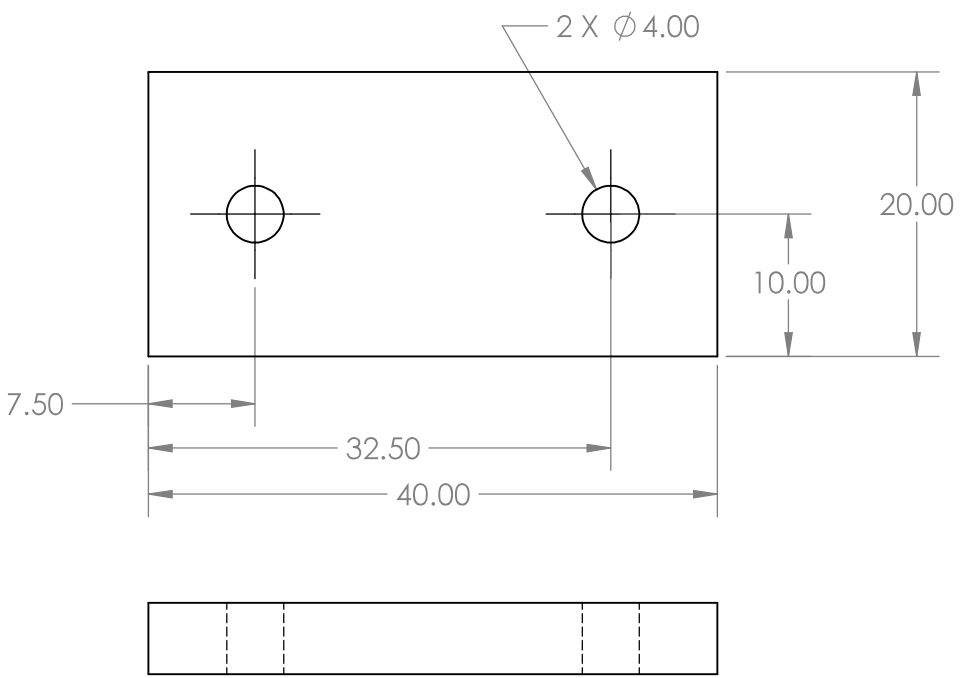


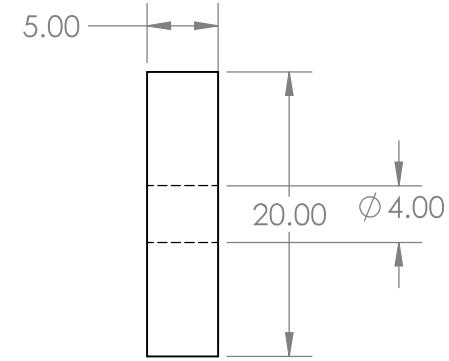
ISOMETRIC VIEW

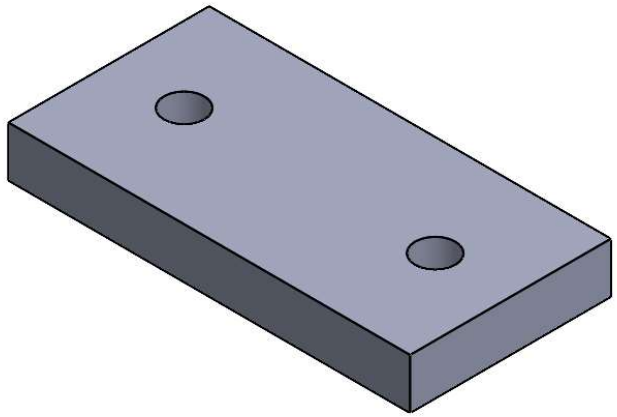
TOP VIEW

ITEM NO.	DESCRIPTION	Material	QTY.
1	C Covering 1	Mild Steel	1
2	C Covering 2	Mild Steel	1

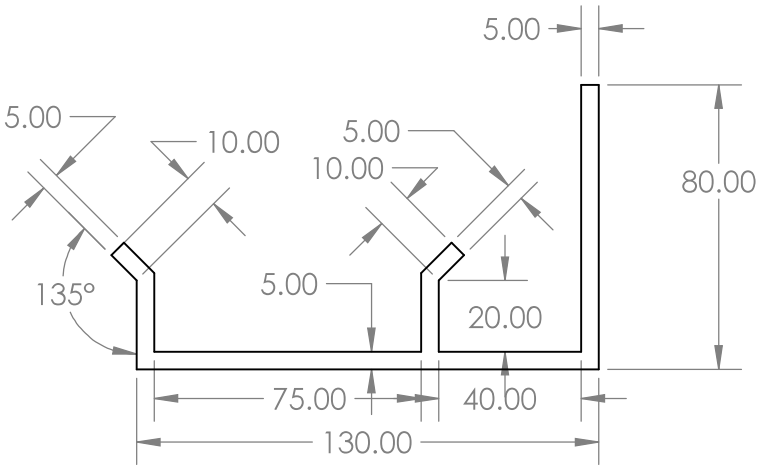
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:			DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
						Karthik Swaminathan	
	NAME	SIGNATURE	DATE			TITLE: C_Covering	
DRAWN							
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL:		All Dimensions are in mm	A3
				WEIGHT:		SCALE:1:1	SHEET 1 OF 1

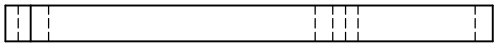


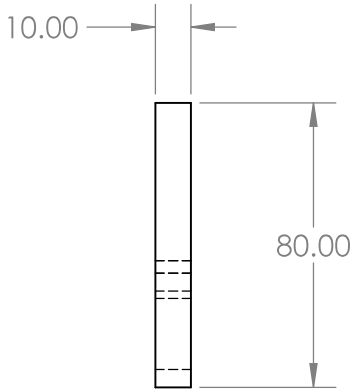


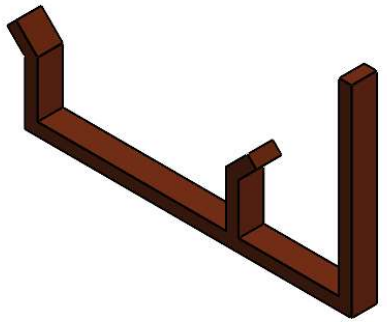


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
				Karthik Swaminathan		
	NAME	SIGNATURE	DATE	TITLE:		
DRAWN				Bracket_Plate		
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A4
				Mild Steel		
				WEIGHT:	SCALE:2:1	SHEET 1 OF 1

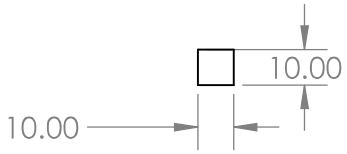


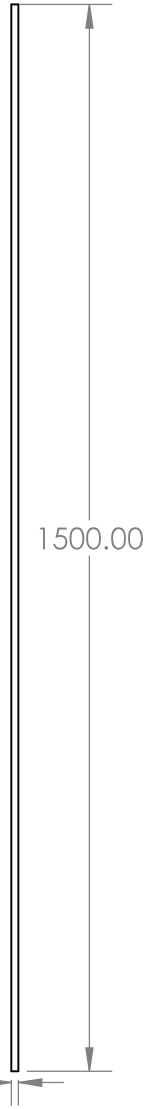




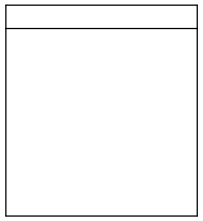


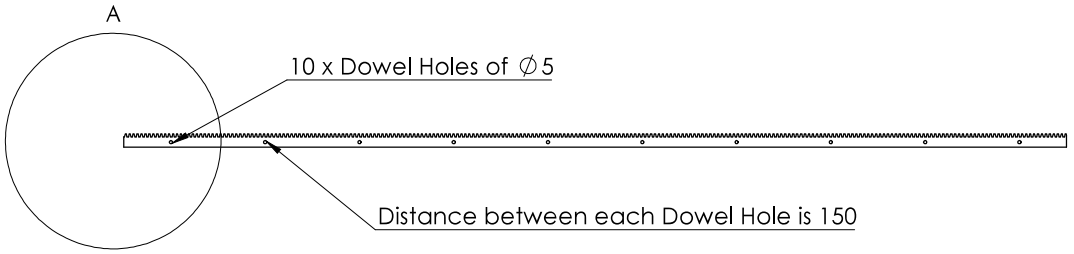
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE: Drag_Chain_Bracket	
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL: Mild Steel	All Dimensions are in mm	A4
				WEIGHT:	SCALE:1:2	SHEET 1 OF 1

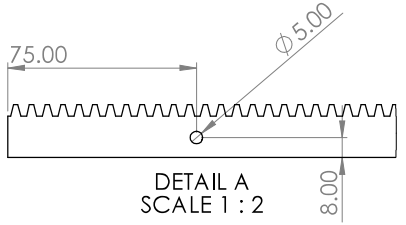




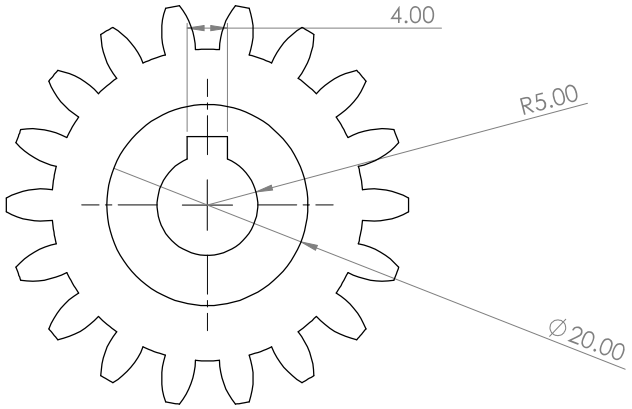
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:			DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
						Karthik Swaminathan	
	NAME	SIGNATURE	DATE			TITLE: X_Railings	
DRAWN							
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL: Mild Steel		All Dimensions are in mm	A4
				WEIGHT:		SCALE:1:20	SHEET 1 OF 1

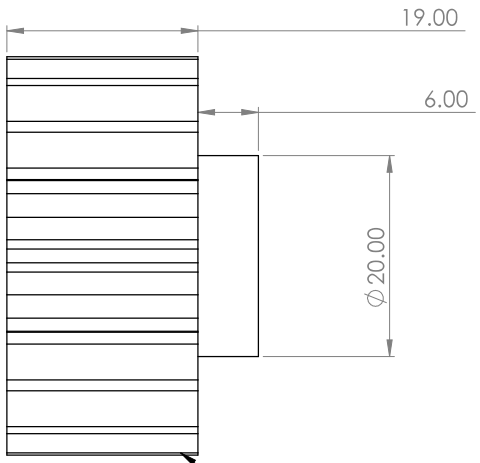




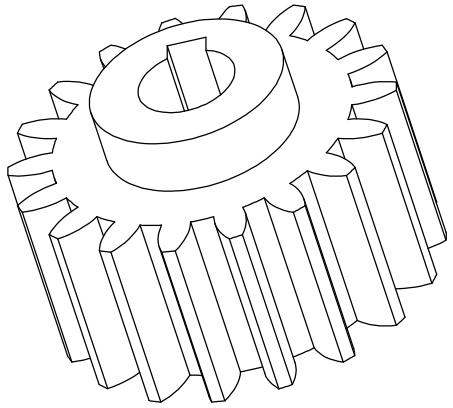


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
						Karthik Swaminathan	
	NAME	SIGNATURE	DATE			TITLE: X_Rack	
DRAWN							
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL: Mild Steel		All Dimensions are in mm	A3
				WEIGHT:		SCALE:1:10	SHEET 1 OF 1



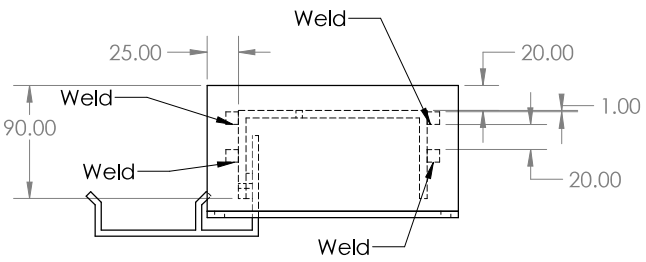


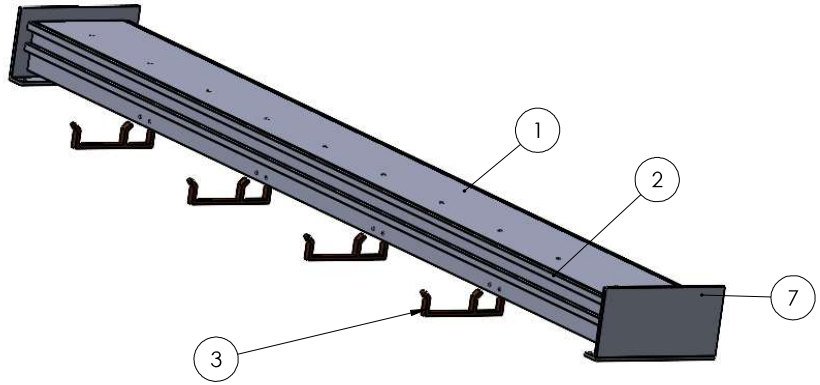
Module - 2
No of teeth = 18

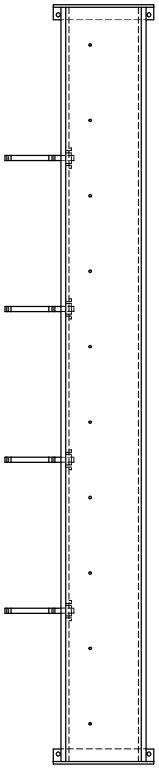


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION
					Karthik Swaminathan		
	NAME	SIGNATURE	DATE		TITLE:		
DRAWN					Pinion		
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL:	DWG NO.		A3
					All Dimensions are in mm		
				WEIGHT:	SCALE:2:1	SHEET 1 OF 1	

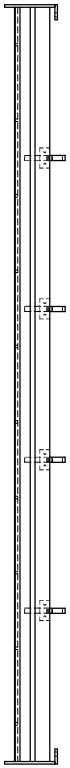
FRONT ViEW







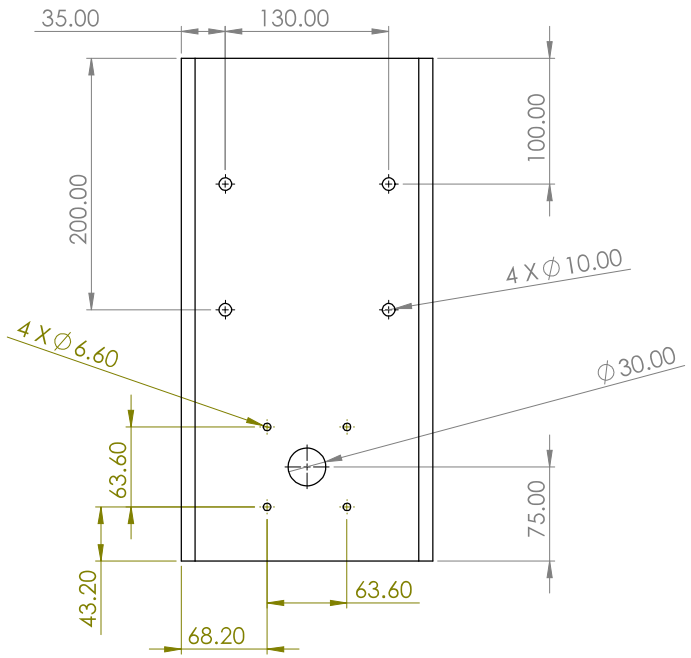
TOP VIEW

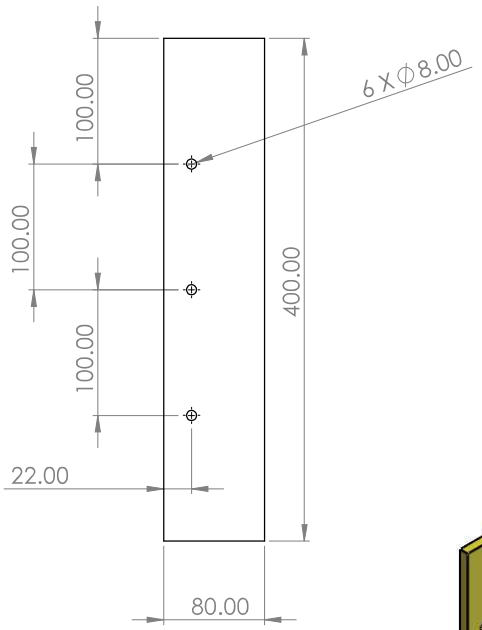


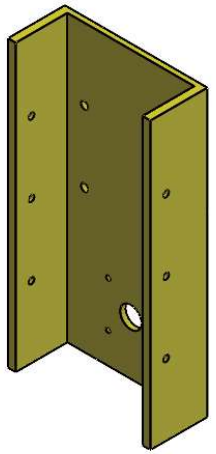
SIDE VIEW

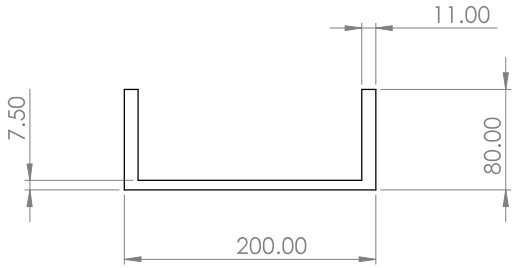
ITEM NO.	DESCRIPTION	Material	QTY.
1	C Channel	Mild Steel	1
2	X_Railings	Mild Steel	4
3	Drag_Chain_Bracket	Mild Steel	4
4	M5x25 dowel	Mild Steel	10
5	M6x30 hex bolt	Mild Steel	4
6	M6 Nut	Mild Steel	4
7	C_Covering	Mild Steel	2
8	Bracket_Plate	Mild Steel	4

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE: X_Assembly	
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A3
				WEIGHT:	SCALE:1:20	SHEET 1 OF 1

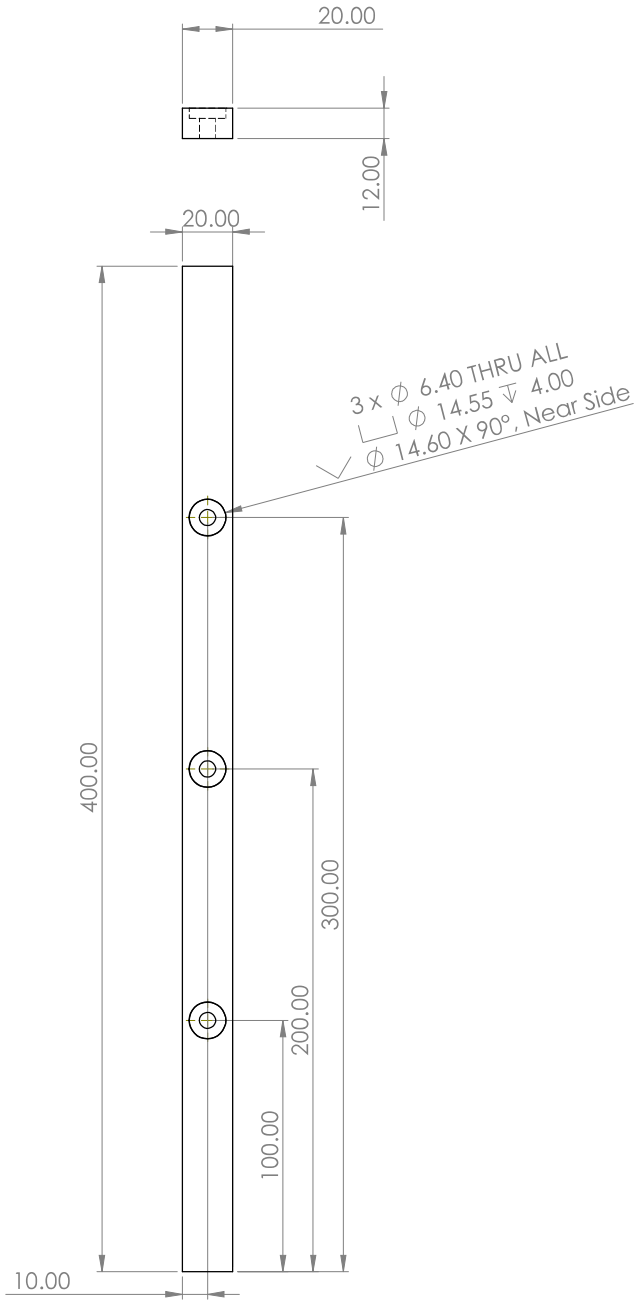


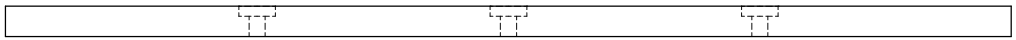


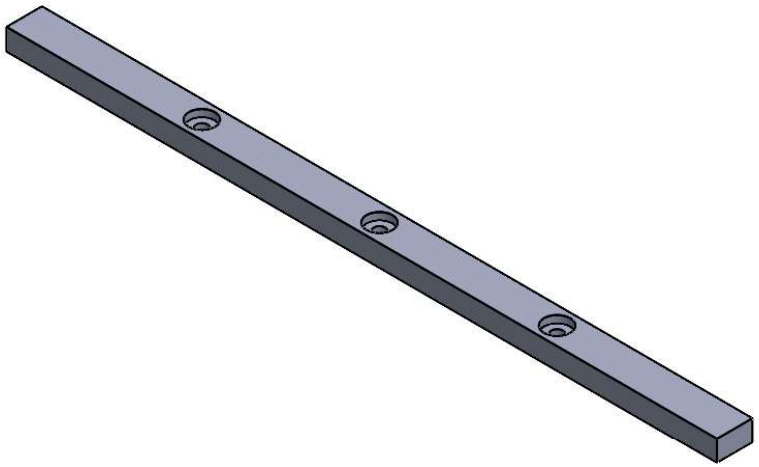




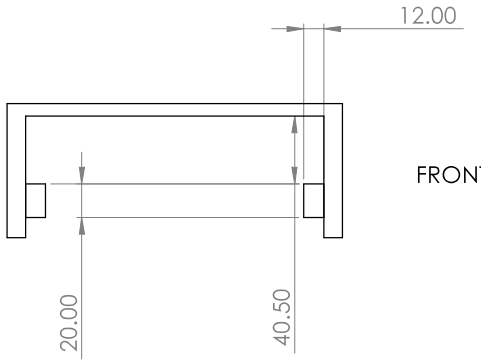
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
						Karthik Swaminathan	
	NAME	SIGNATURE	DATE			TITLE:	
DRAWN						Slider Plate	
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL:		All Dimensions are in mm	A3
				Mild Steel			
				WEIGHT:		SCALE:1:5	SHEET 1 OF 1



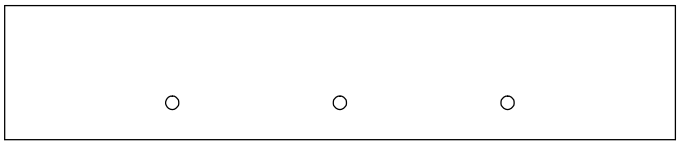




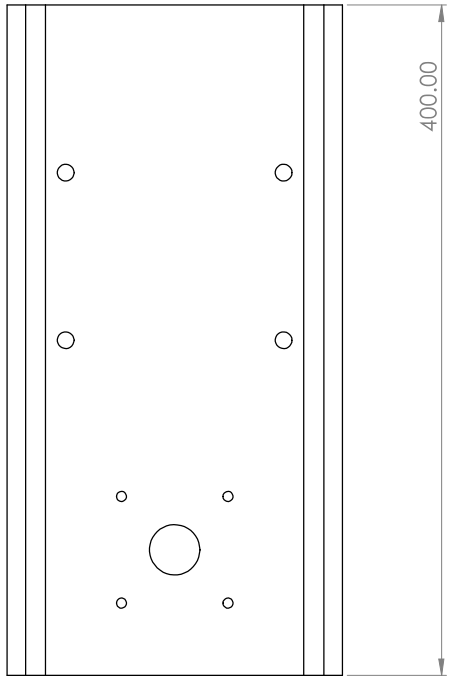
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
				Karthik Swaminathan		
	NAME	SIGNATURE	DATE	TITLE:		
DRAWN				UHMW_pad_X		
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL: UHMW	All Dimensions are in mm	A3
				WEIGHT:	SCALE:1:2	SHEET 1 OF 1



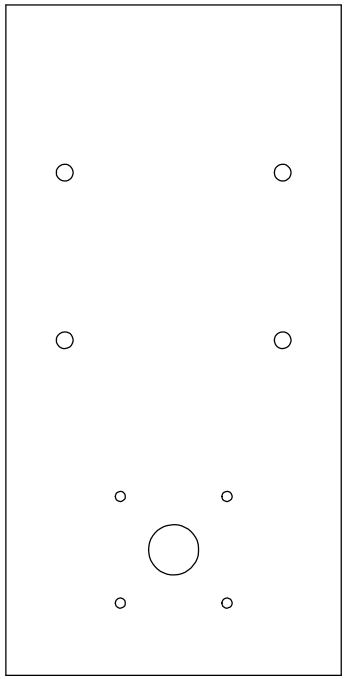
FRONT VIEW



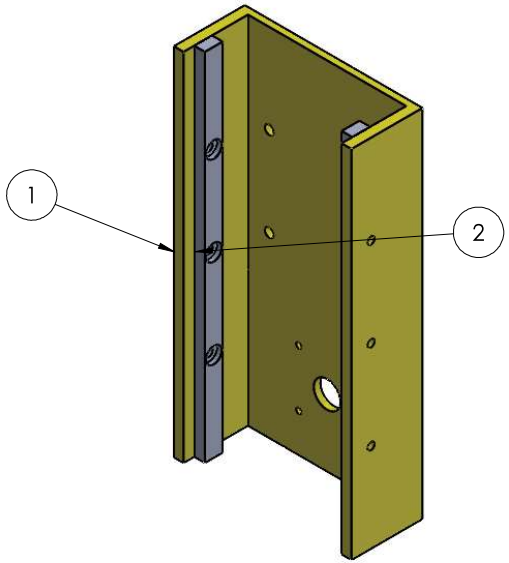
SIDE VIEW



BOTTOM VIEW

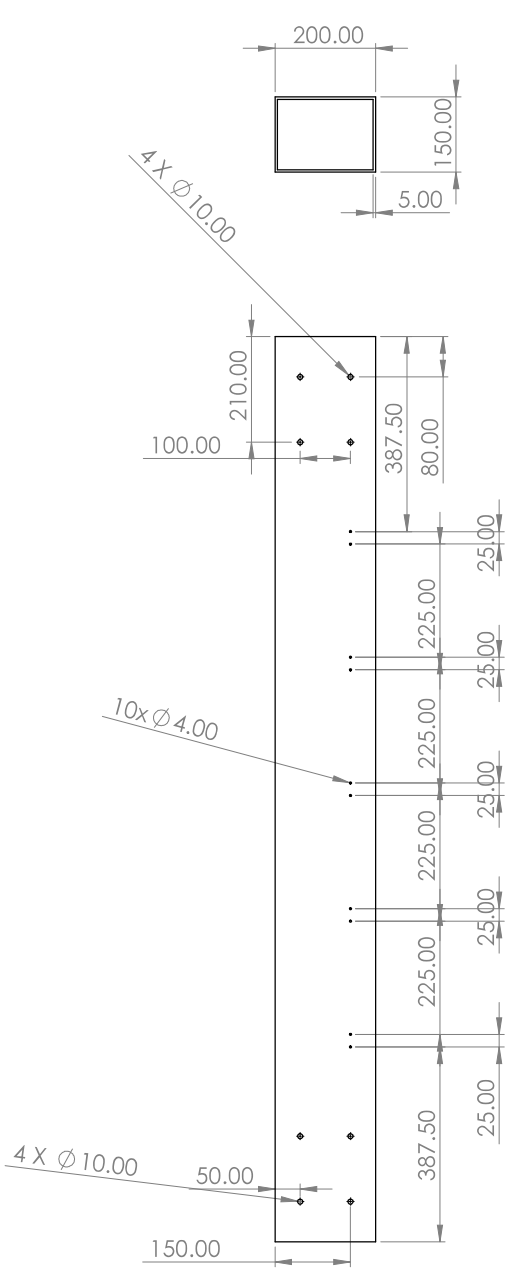


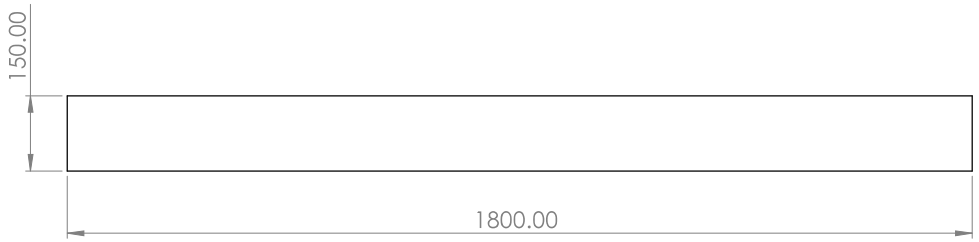
TOP VIEW

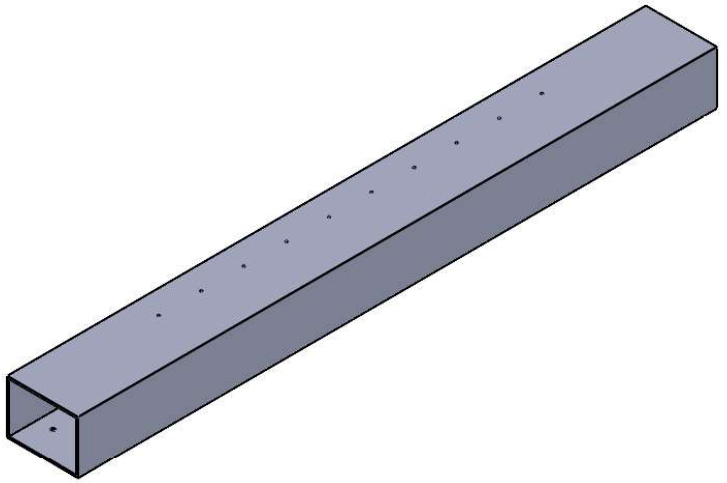


ITEM NO.	DESCRIPTION	Material	QTY.
1	Slider Plate	Mild Steel	1
2	UHMW_pad	UHMW	2
3	Hex bolts M8 X 30	Mild Steel	6
4	Hex Nuts M8	Mild Steel	6

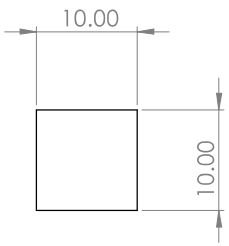
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE:	
DRAWN					Slider_Assembly	
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All dimensions are in mm	A3
				WEIGHT:	SCALE:1:5	SHEET 1 OF 1

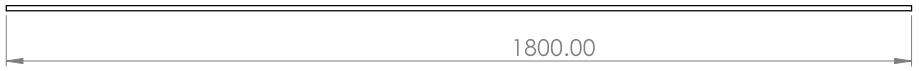


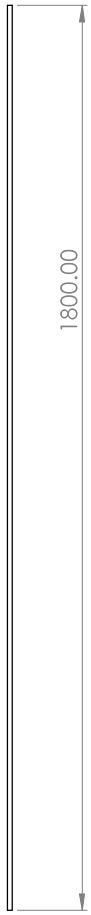




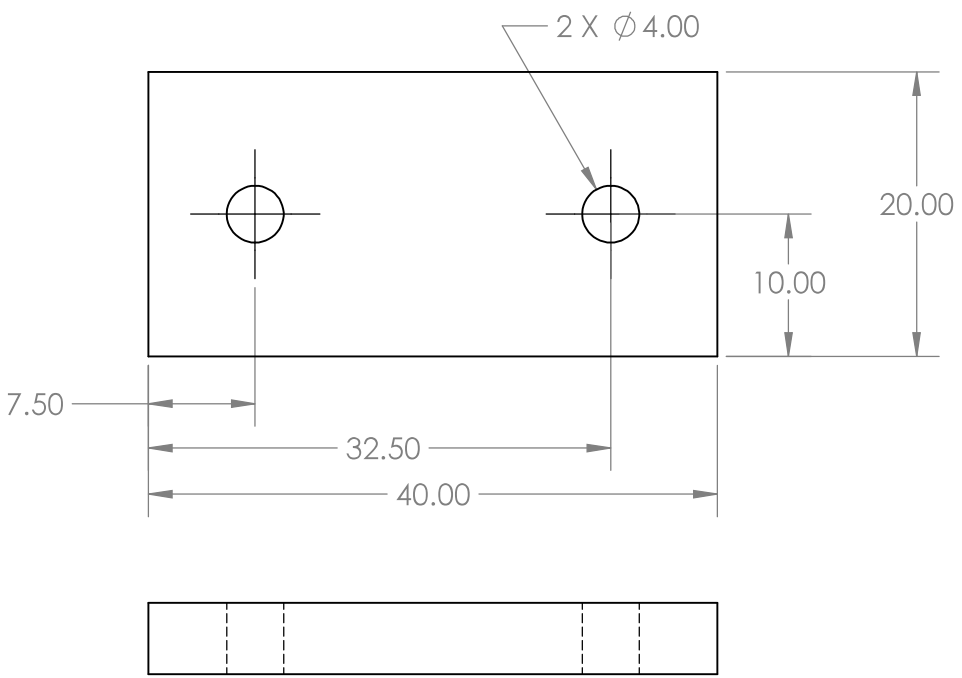
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE:	
DRAWN					Y_Hollow_Tube	
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL: Mild Steel	All Dimensions are in mm	A3
				WEIGHT:	SCALE:1:20	SHEET 1 OF 1

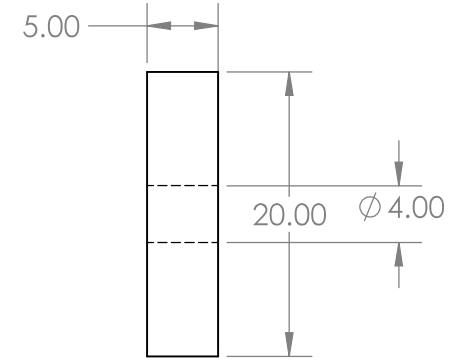


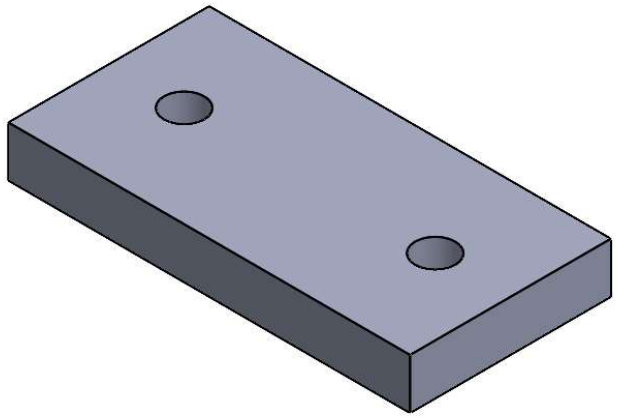




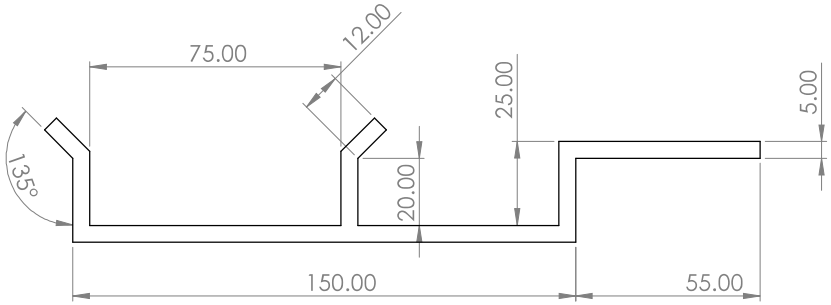
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:			DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
						Karthik Swaminathan	
	NAME	SIGNATURE	DATE			TITLE:	
DRAWN						Y Railing	
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL:		All Dimensions are in mm	A3
				Mild Steel			
				WEIGHT:		SCALE:1:20	SHEET 1 OF 1

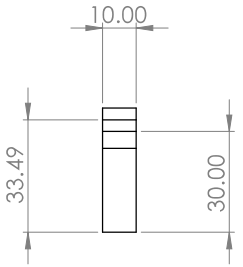


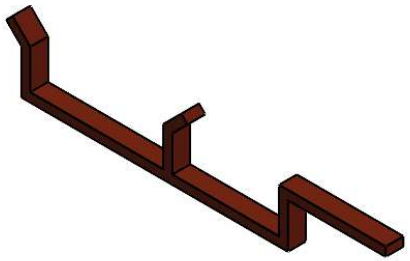


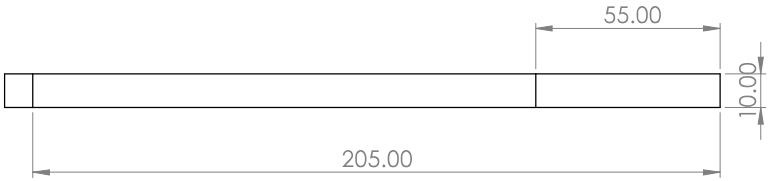


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
				Karthik Swaminathan		
	NAME	SIGNATURE	DATE	TITLE:		
DRAWN				Bracket_Plate		
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A4
				Mild Steel		
				WEIGHT:	SCALE:2:1	SHEET 1 OF 1

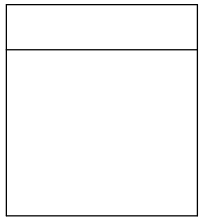


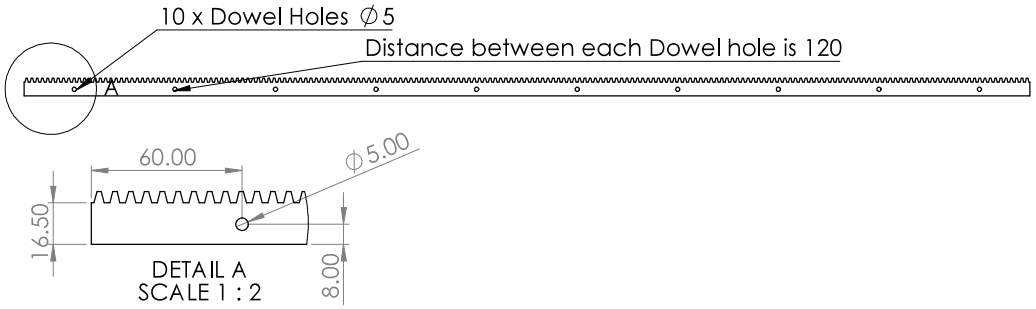


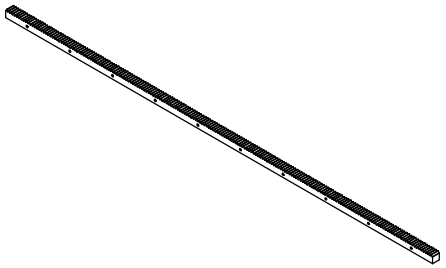




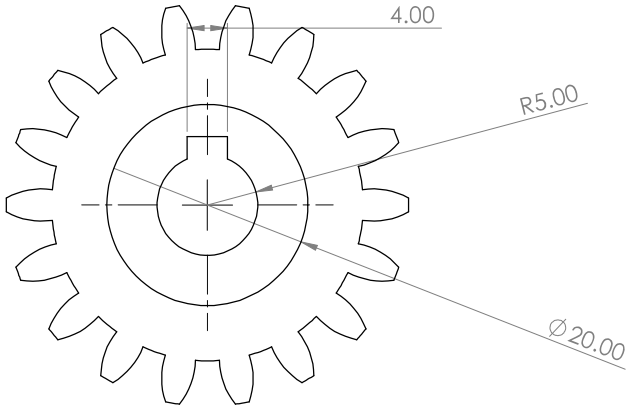
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
				Karthik Swaminathan		
	NAME	SIGNATURE	DATE	TITLE:		
DRAWN				Drag Chain Brackets Y		
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL: Mild Steel	All Dimensions are in mm	A3
				WEIGHT:	SCALE:1:2	SHEET 1 OF 1

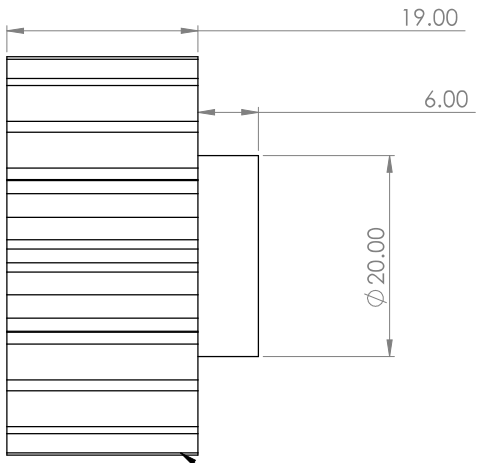




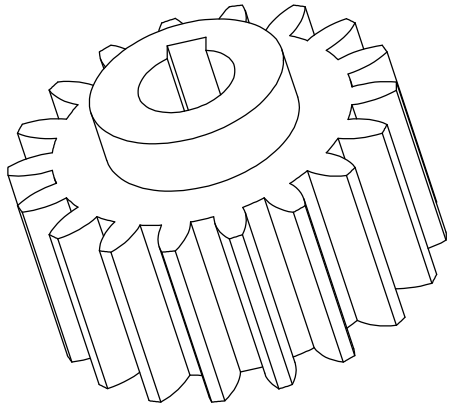


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE: Y_Rack	
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimension are in mm	A3
				WEIGHT:	SCALE:1:10	SHEET 1 OF 1

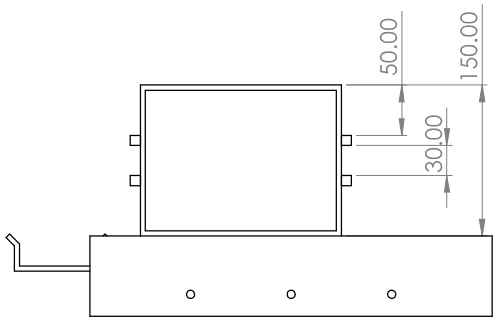




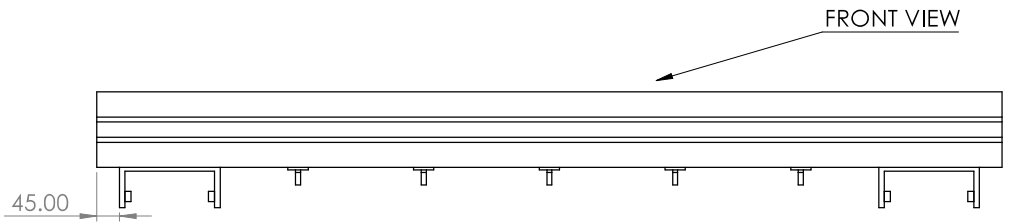
Module - 2
No of teeth = 18

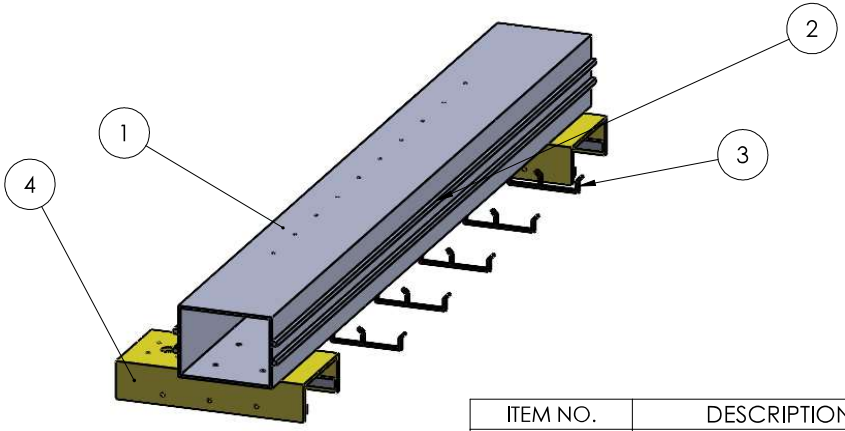


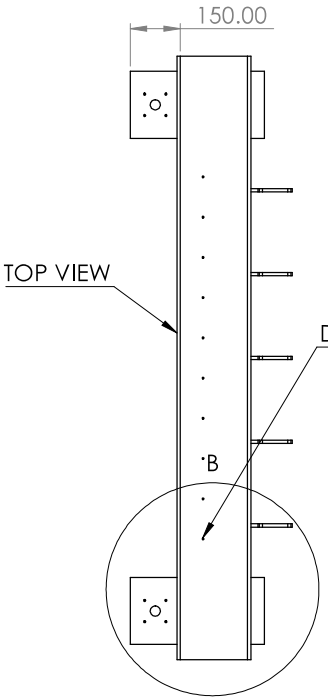
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION
					Karthik Swaminathan		
	NAME	SIGNATURE	DATE		TITLE:		
DRAWN					Pinion		
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL:	DWG NO.		A3
					All Dimensions are in mm		
				WEIGHT:	SCALE:2:1	SHEET 1 OF 1	

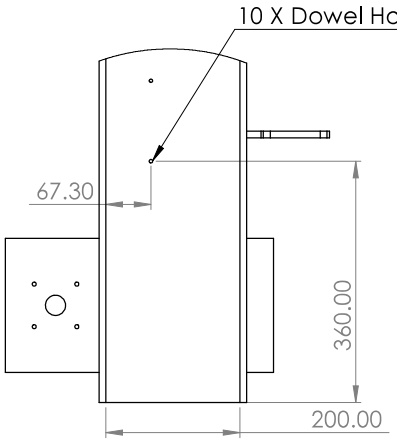


SIDE VIEW









DETAIL B
SCALE 2 : 15

ITEM NO.	DESCRIPTION	Material	QTY.
1	Y_Tube_Assem		1
2	Railings_y	Mild Steel	4
3	Drag_Chain_Bracket_Y	Mild Steel	5
4	Slider_Assembly		2
5	Hex bolts (M6 x 30)	Mild Steel	5
6	Hex Nuts M6	Mild Steel	5
7	Hex Bolts (M10 x 30)	Mild Steel	8
8	Hex Nuts	Mild Steel	8
9	M5x25 dowel	Mild Steel	10
10	Bracket_Plate	Mild Steel	5

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND BREAK SHARP EDGES

DO NOT SCALE DRAWING

REVISION

Karthik Swaminathan

	NAME	SIGNATURE	DATE
DRAWN			
CHK'D			
APPV'D			
MFG			
Q.A			

MATERIAL:

WEIGHT:

TITLE:

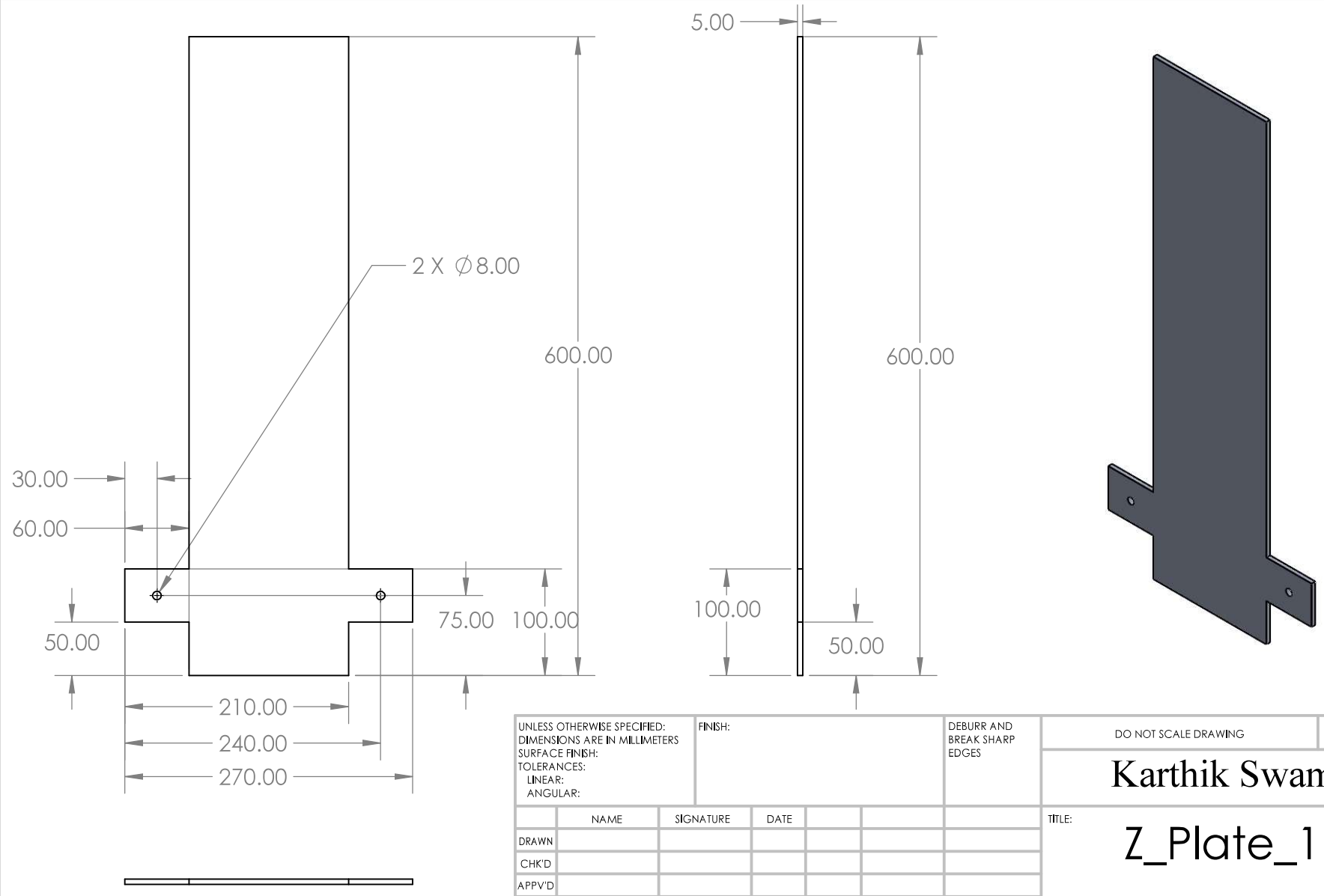
Y_Assembly

All Dimensions are in mm

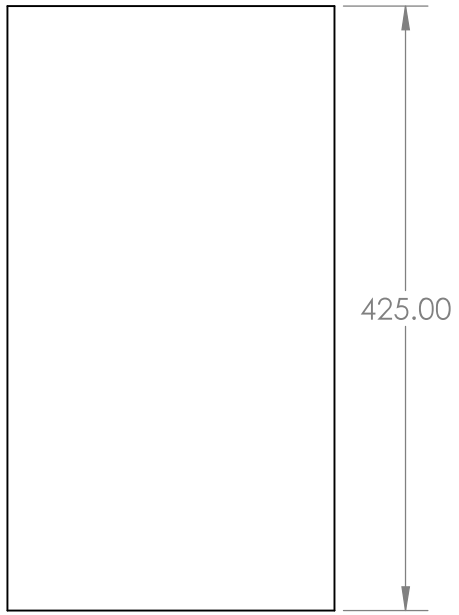
A3

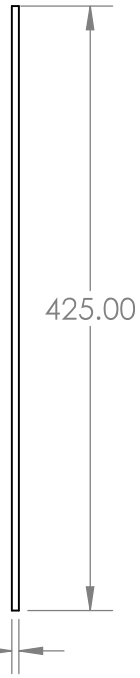
SCALE:1:20

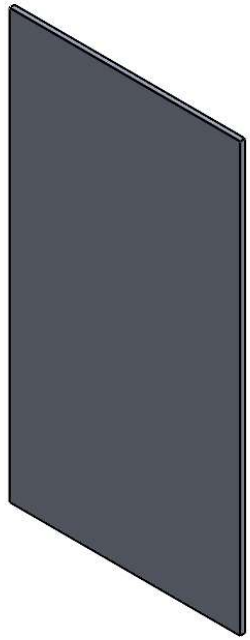
SHEET 1 OF 1



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION
				Karthik Swaminathan		
	NAME	SIGNATURE	DATE	TITLE:		
DRAWN				Z_Plate_1		
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A4
				Mild Steel		
				WEIGHT:	SCALE:1:10	SHEET 1 OF 1

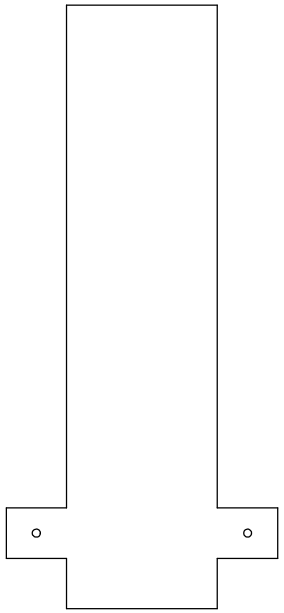




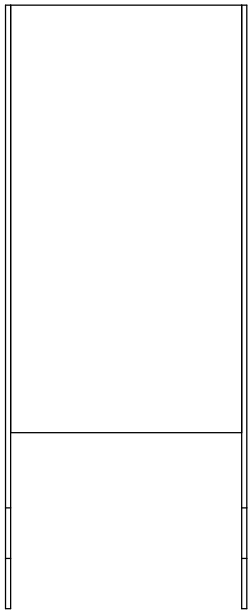


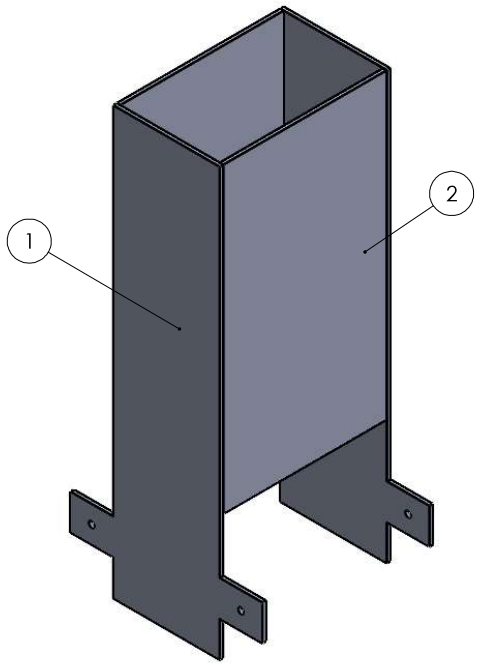
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE:	
DRAWN					Z_Plate_2	
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A4
				Mild Steel		
				WEIGHT:	SCALE:1:5	SHEET 1 OF 1

FRONT VIEW

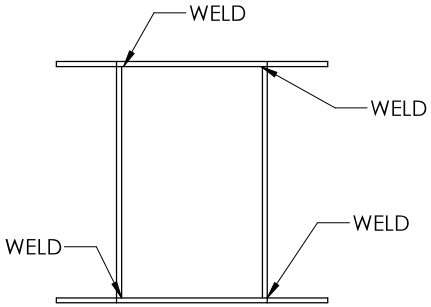


SIDE VIEW



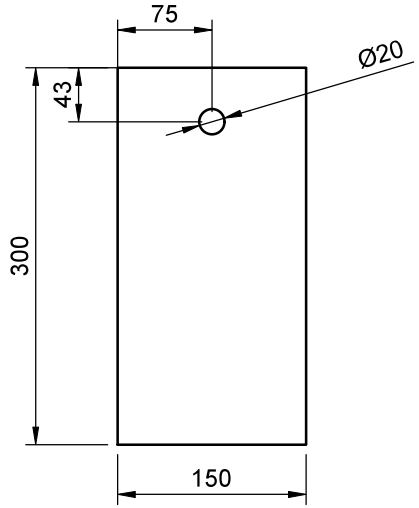


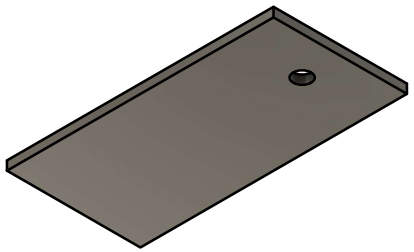
TOP VIEW

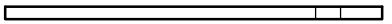


ITEM NO.	DESCRIPTION	Material	QTY.
1	Z_Plate_1	Mild Steel	2
2	Z_Plate_2	Mild Steel	2

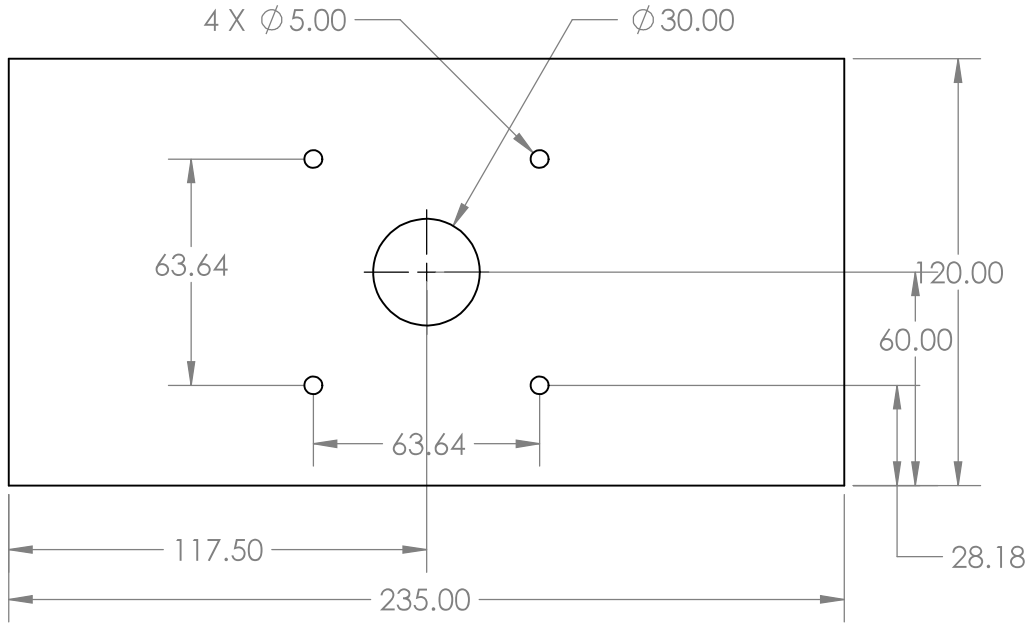
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE: Z_Column_Assem	
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A3
				WEIGHT:	SCALE:1:10	SHEET 1 OF 1

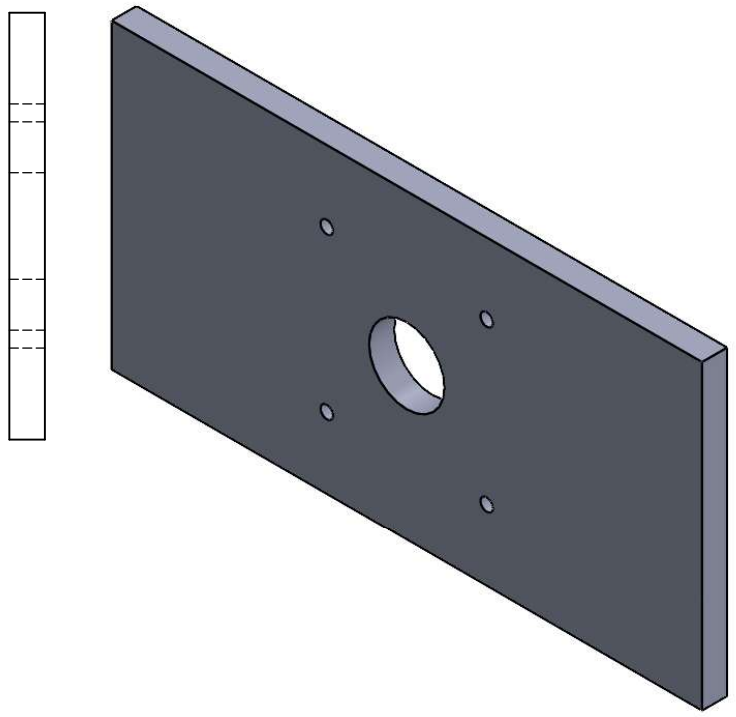


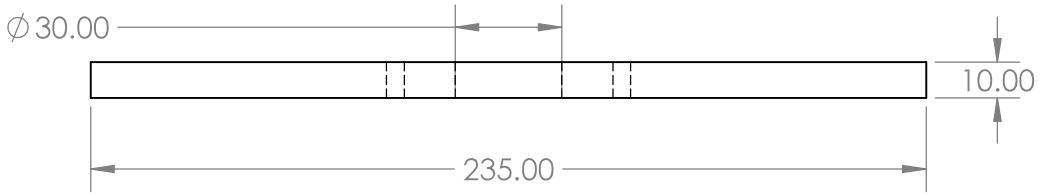




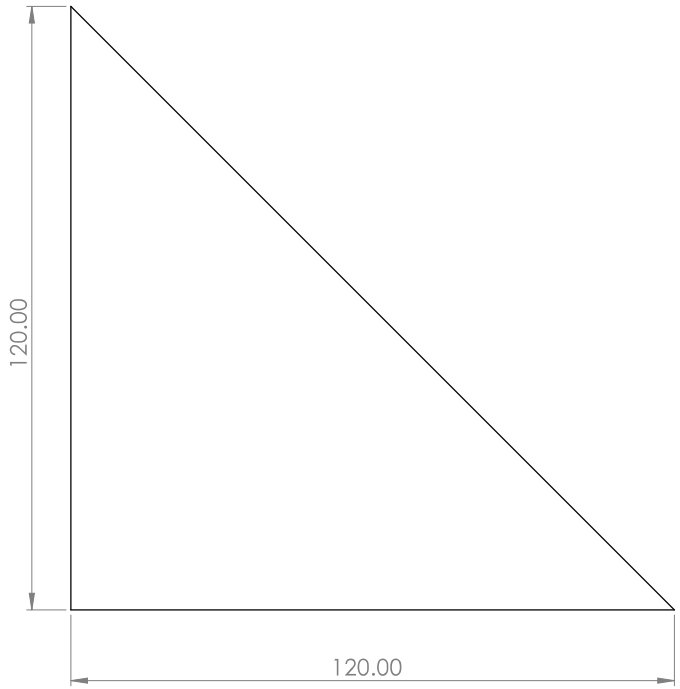
Dept. / Technical reference		Created by: Karthik Swaminathan 17-06-2021	Approved by
Material: Plain Carbon Steel		Document type	Document status: All dimensions in mm
		Title: Z_Top_Plate	DWG No.
			Rev. / Date of issue / Sheet: 1/1

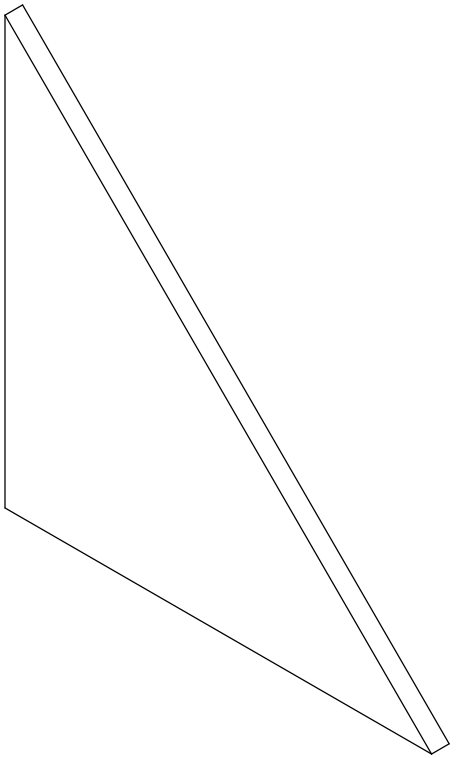






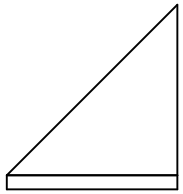
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
				Karthik Swaminathan		
	NAME	SIGNATURE	DATE	TITLE:		
DRAWN				Motor Extension Plate		
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A4
				Mild Steel		
				WEIGHT:	SCALE:1:2	SHEET 1 OF 1



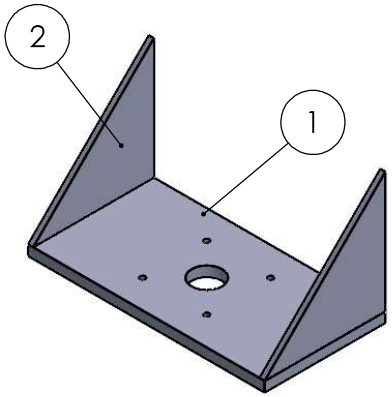


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION	
				Karthik Swaminathan		
	NAME	SIGNATURE	DATE	TITLE:		
DRAWN				Motor Extension Rib		
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	DWG NO.	A3
					All Dimensions are in mm	
				WEIGHT:	SCALE:1:1	SHEET 1 OF 1

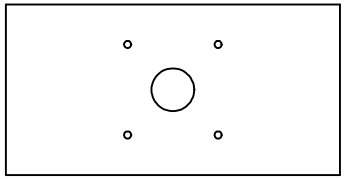
FRONT VIEW



SIDE VIEW



ISOMETRIC VIEW



TOP VIEW

ITEM NO.	Description	Material	QTY.
1	Motor Extension Plate	Mild Steel	1
2	Motor Extension Rib	Mild Steel	2

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND BREAK SHARP EDGES

DO NOT SCALE DRAWING

REVISION

Karthik Swaminathan

	NAME	SIGNATURE	DATE
DRAWN			
CHK'D			
APPV'D			
MFG			
Q.A			

MATERIAL:

WEIGHT:

TITLE:

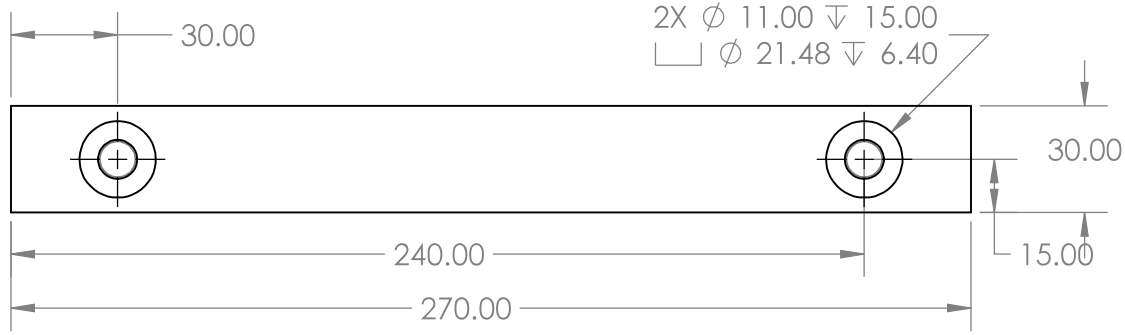
Motor_Extension_X

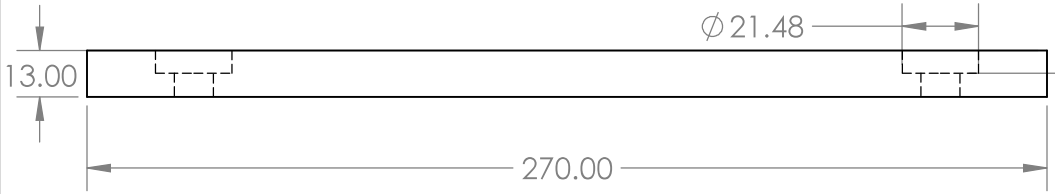
All Dimensions are in mm

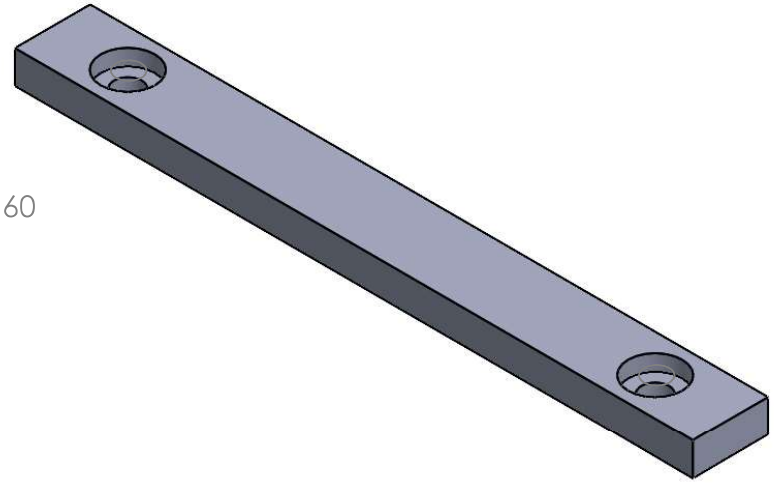
A4

SCALE:1:5

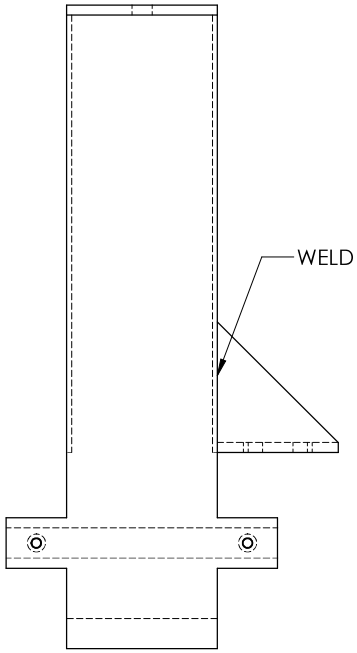
SHEET 1 OF 1



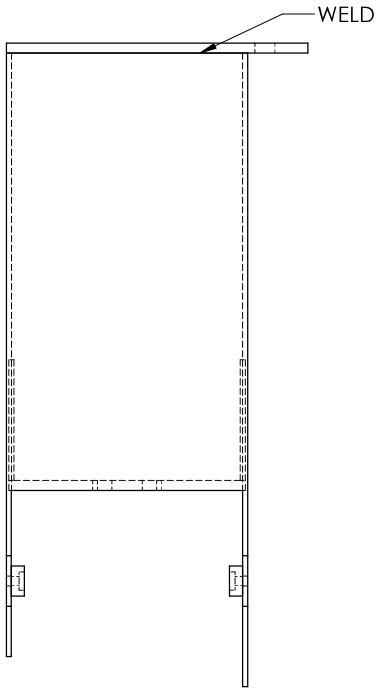




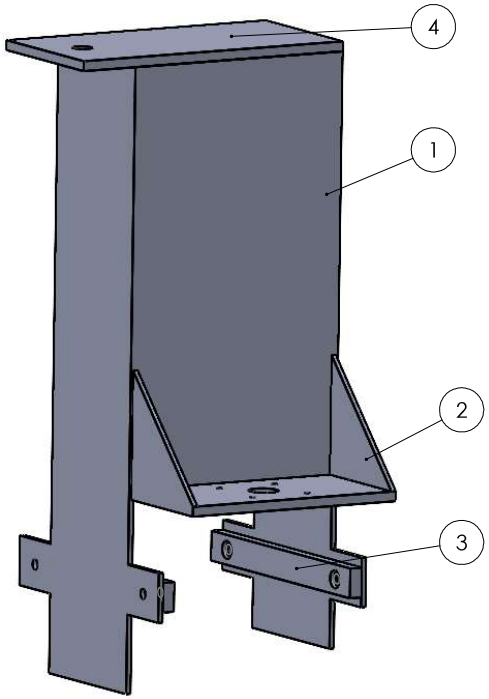
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE: UHMW_pad_Y	
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL: UHMW	All Dimensions are in mm	A4
				WEIGHT:	SCALE:1:2	SHEET 1 OF 1

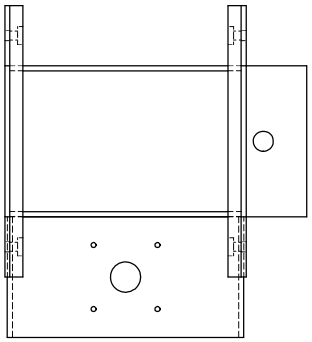


FRONT VIEW

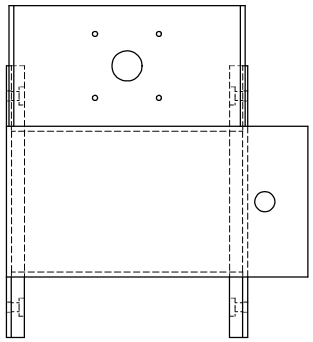


SIDE VIEW





BOTTOM VIEW



TOP VIEW

ITEM NO.	DESCRIPTION	Material	QTY.
1	Z_Column_Assem	Mild Steel	1
2	Motor_Extension_Z	Mild Steel	1
3	UHMW_pad_Y	UHMW	2
4	Z_Top_Plate	Mild Steel	1
5	M8x50 hex bolt	Mild Steel	4
6	M8 Nut	Mild Steel	4

UNLESS OTHERWISE SPECIFIED:
DIMENSIONS ARE IN MILLIMETERS
SURFACE FINISH:
TOLERANCES:
LINEAR:
ANGULAR:

FINISH:

DEBURR AND BREAK SHARP EDGES

DO NOT SCALE DRAWING | REVISION

Karthik Swaminathan

	NAME	SIGNATURE	DATE
DRAWN			
CHK'D			
APPV'D			
MFG			
Q.A			

MATERIAL:

WEIGHT:

TITLE:

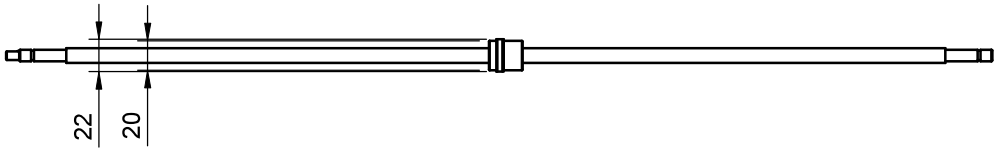
Z_Assembly

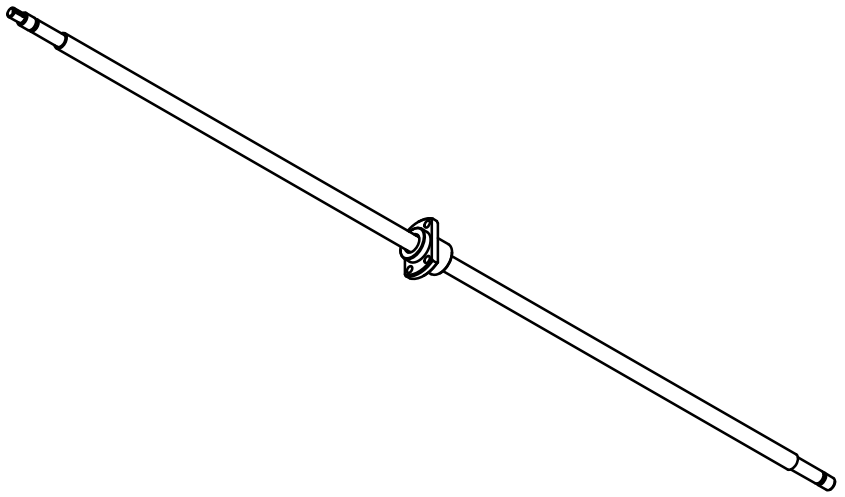
All Dimensions are in mm

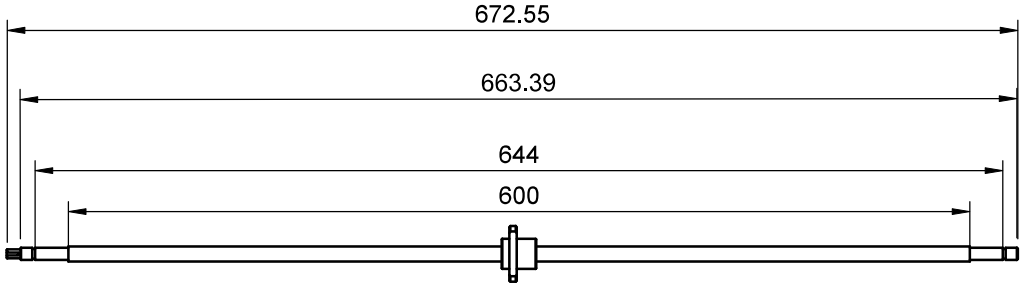
A3

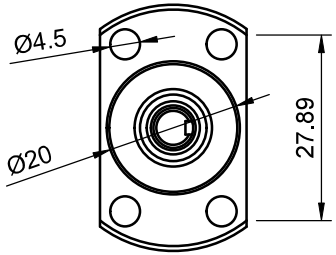
SCALE:1:10

SHEET 1 OF 1

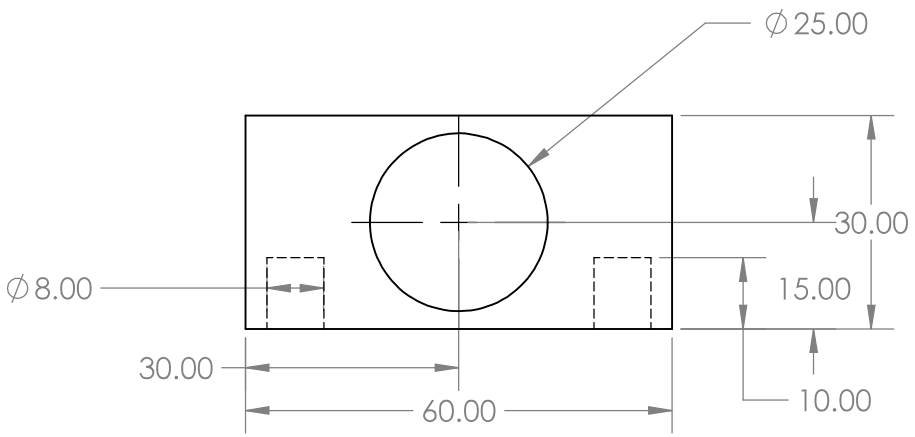


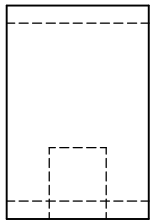


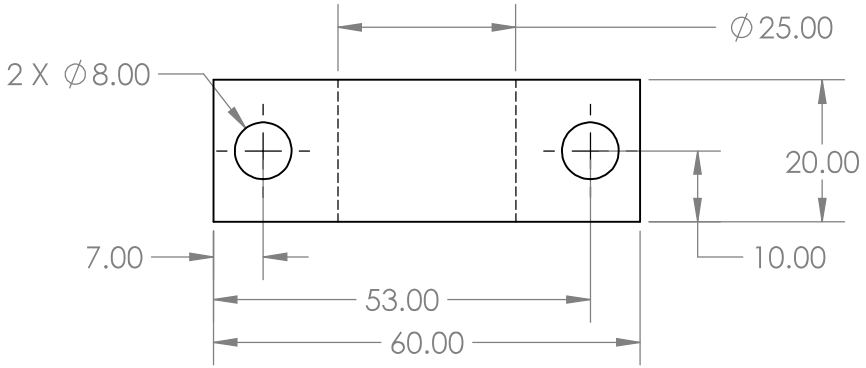


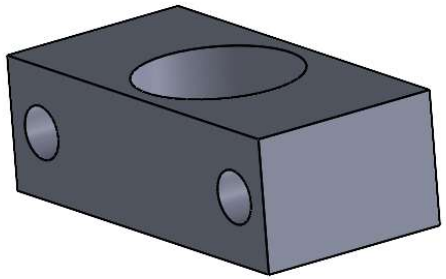


Dept.	Technical reference	Created by	Approved by
		Karthik Swaminathan 17-06-2021	
		Document type	Document status
		Title: Ball_Screw	DWG No.
			Rev. / Date of issue / Sheet: 1/1

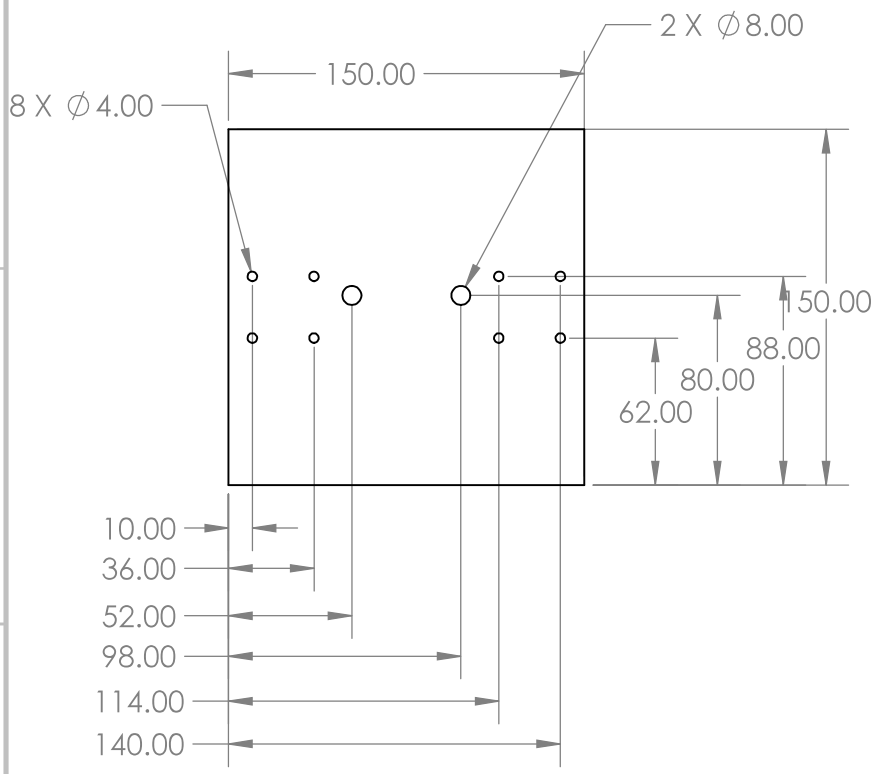


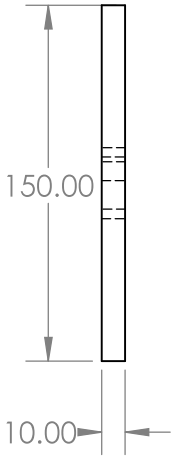


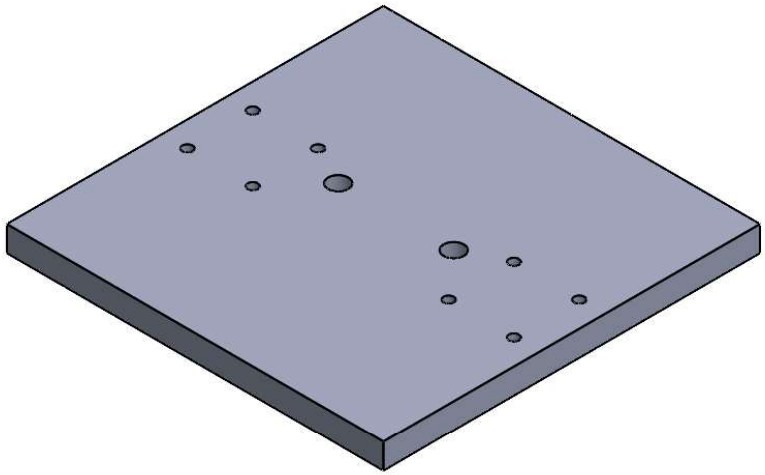


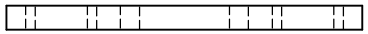


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
						Karthik Swaminathan	
	NAME	SIGNATURE	DATE			TITLE: Ball_Screw_Joint	
DRAWN							
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL: Mild Steel/Aluminium		All Dimensions are in mm	A4
				WEIGHT:		SCALE:2:1	SHEET 1 OF 1

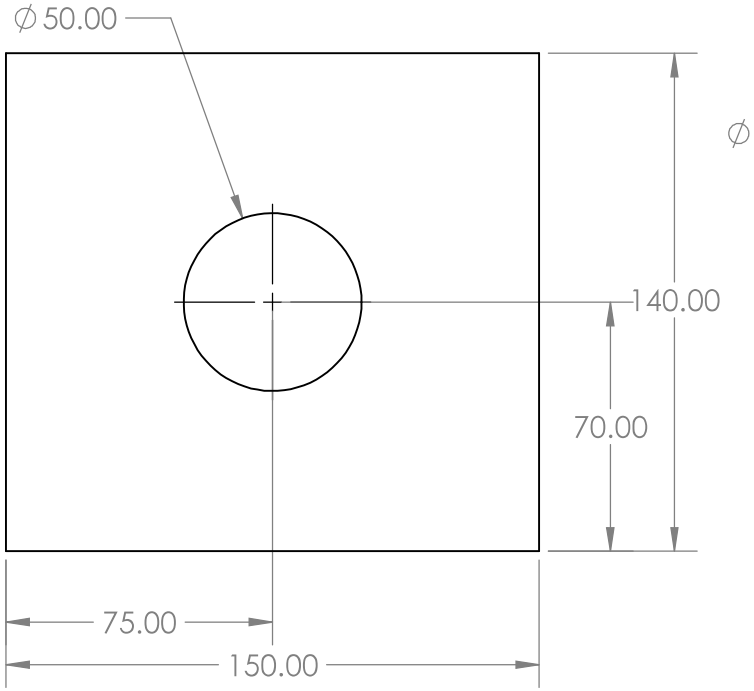


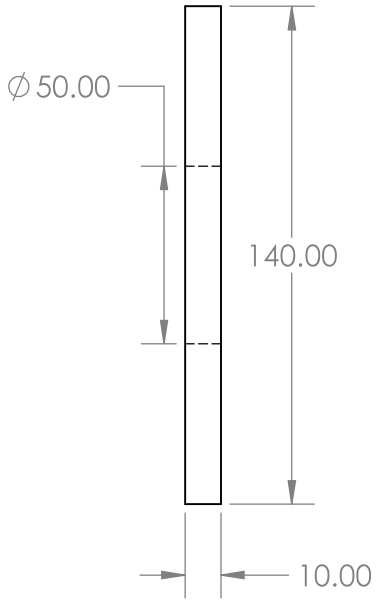


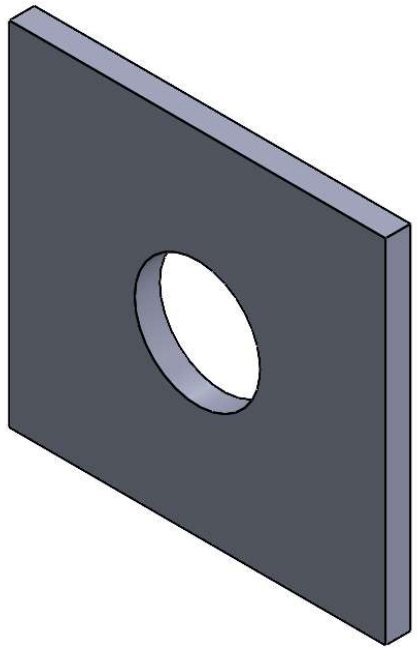


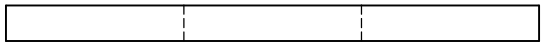


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE:	
DRAWN					Horizontal_Plate	
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A4
				Mild Steel		
				WEIGHT:	SCALE:1:2	SHEET 1 OF 1

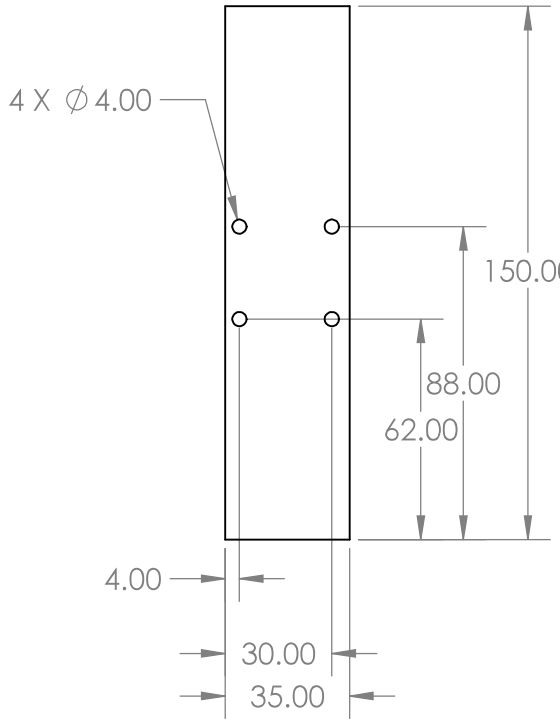


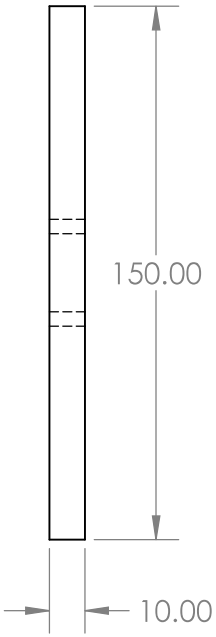


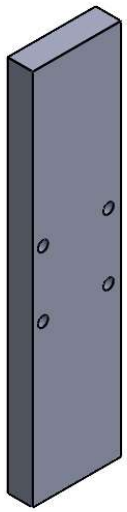


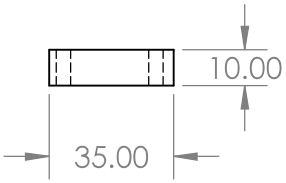


UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
						Karthik Swaminathan	
	NAME	SIGNATURE	DATE			TITLE: Vertical_Plate	
DRAWN							
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL: Mild Steel		All Dimensions are in mm	A4
				WEIGHT:		SCALE:1:2	SHEET 1 OF 1

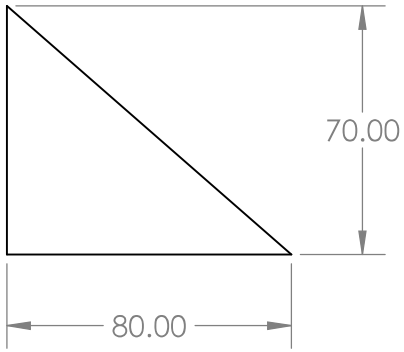


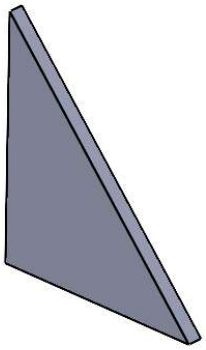


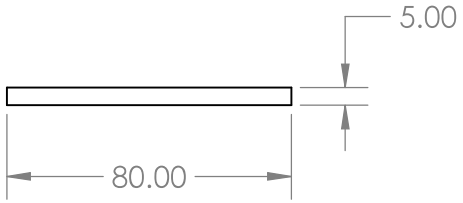




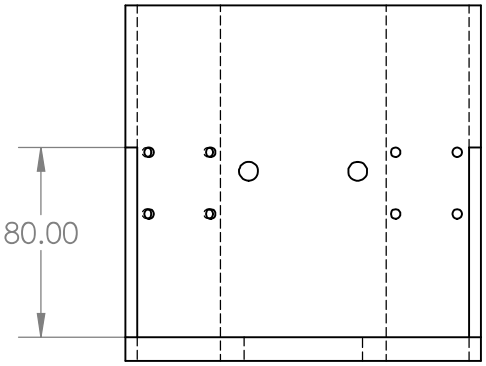
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE: Lower_Section	
DRAWN						
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL: Mild Steel	All Dimensions are in mm	A4
				WEIGHT:	SCALE:1:2	SHEET 1 OF 1



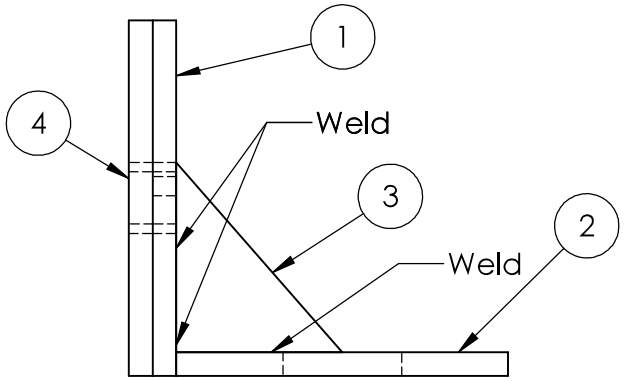




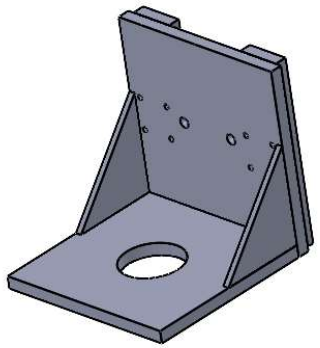
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:	FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
					Karthik Swaminathan	
	NAME	SIGNATURE	DATE		TITLE:	
DRAWN					Rib	
CHK'D						
APPV'D						
MFG						
Q.A				MATERIAL:	All Dimensions are in mm	A4
				Mild Steel		
				WEIGHT:	SCALE:1:2	SHEET 1 OF 1

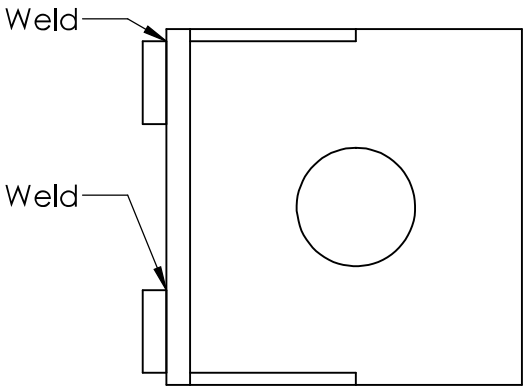


FRONT VIEW



SIDE VIEW

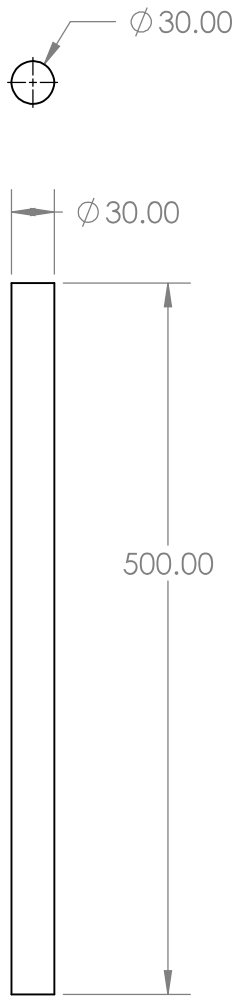




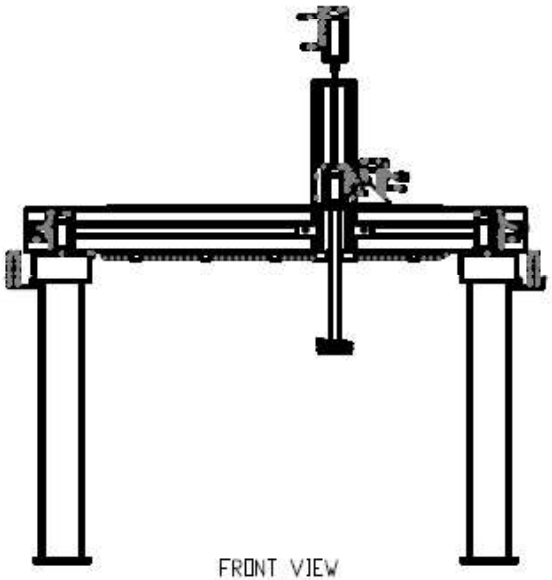
TOP VIEW

ITEM NO.	DESCRIPTION	Material	QTY.
1	Horizontal_Plate	Mild Steel	1
2	Vertical_Plate	Mild Steel	1
3	Rib	Mild Steel	2
4	Lower_Section	Mild Steel	2

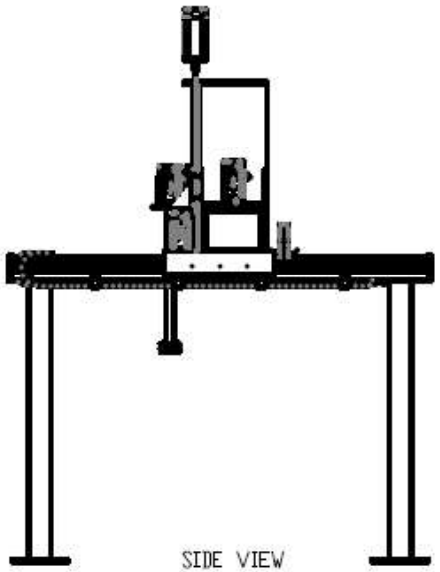
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:			DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
						Karthik Swaminathan	
	NAME	SIGNATURE	DATE			TITLE:	
DRAWN						L_Assembly	
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL:		All Dimensions are in mm	A4
				WEIGHT:		SCALE:1:5	SHEET 1 OF 1



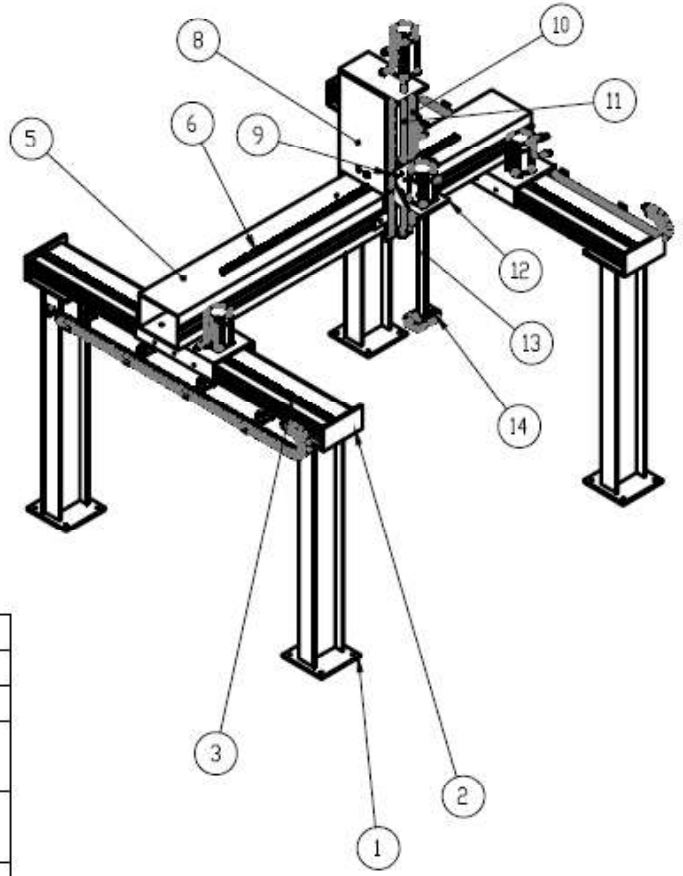
UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:		DEBURR AND BREAK SHARP EDGES		DO NOT SCALE DRAWING	REVISION
						Karthik Swaminathan	
	NAME	SIGNATURE	DATE			TITLE:	
DRAWN						onlyrod	
CHK'D							
APPV'D							
MFG							
Q.A				MATERIAL:		All Dimensions are in mm	A4
				Aluminium/Mild Steel			
				WEIGHT:		SCALE:1:5	SHEET 1 OF 1

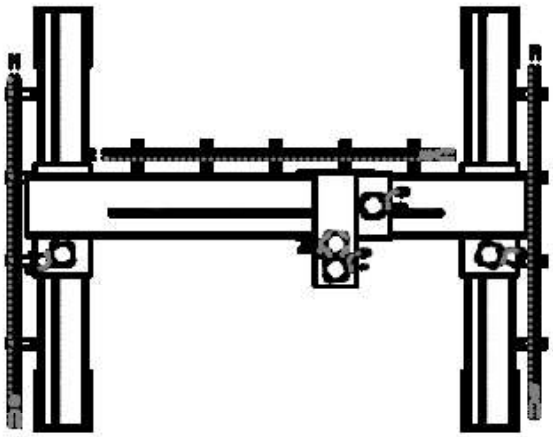


FRONT VIEW



SIDE VIEW





TOP VIEW

ITEM NO.	DESCRIPTION	QTY.
1	X_Vertical_column	4
2	X_Assembly	2
3	ISO - Rack-spur - rectangular 2M 14.5PA 10FW 15PH 1500L---SAll	2
4	ISO - Spur gear 2M 18T 14.5PA 10FW ---S18B20H15L10.0N	2
5	Y_Assembly	1
6	ISO - Rack-spur - rectangular 2M 20PA 10FW 15PH 1200L---SAll	1
7	ISO - Spur gear 2M 18T 20PA 10FW ---S18B20H15L10.0N	1
8	Z_Assembly	1
9	Vertical_Rail_Block	4
10	Vertical_Rail	2
11	Ball_Screw	1
12	L_Assembly	1
13	onlyrod	1
14	Vacuum_gripper	1

REMOVE ANY SHARP EDGES

DO NOT SCALE DRAWING

REVISION

Karthik Swaminathan

TITLE

Gantry Bot

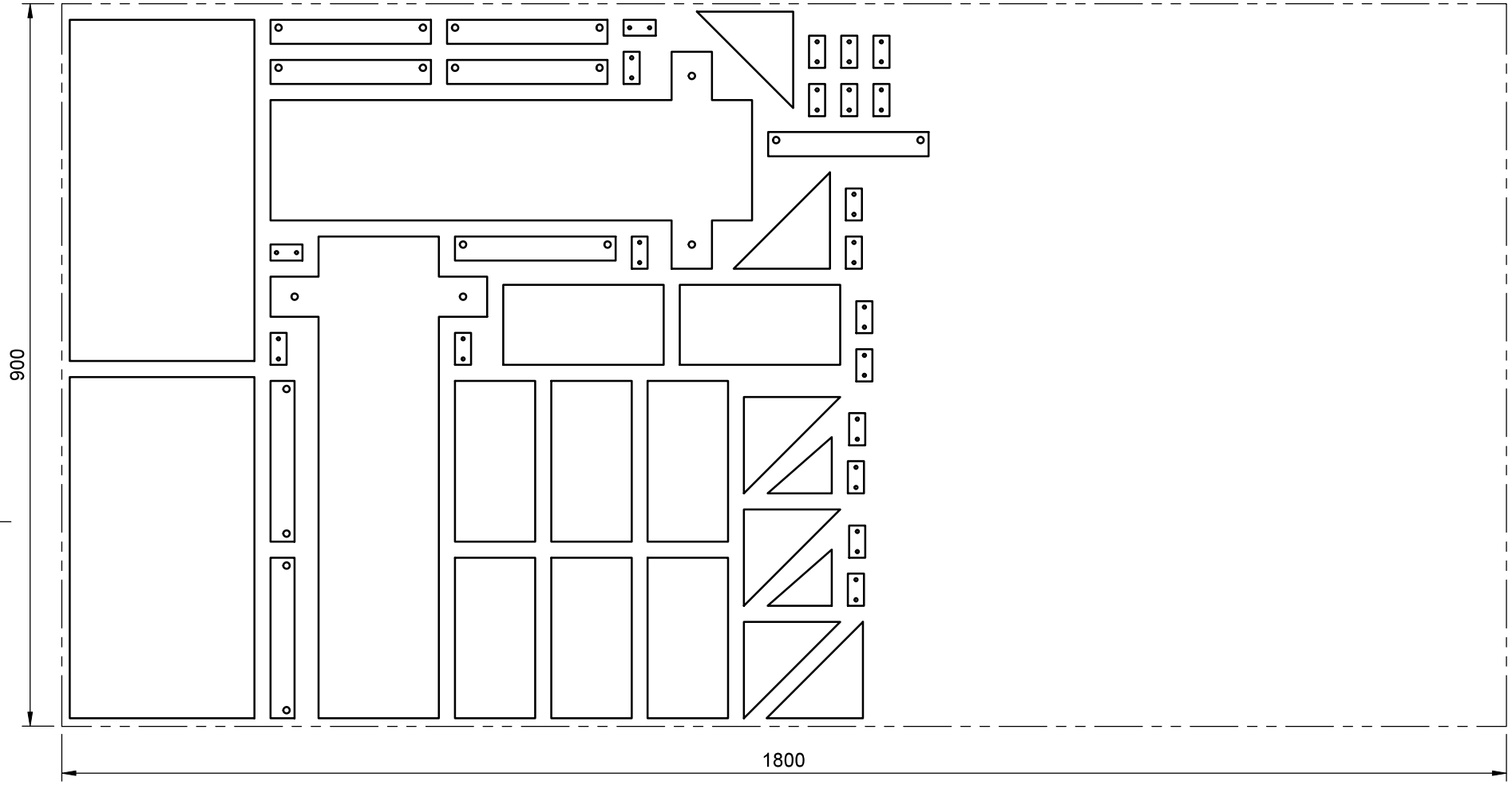
All Dimensions are in mm

A3

WEIGHT

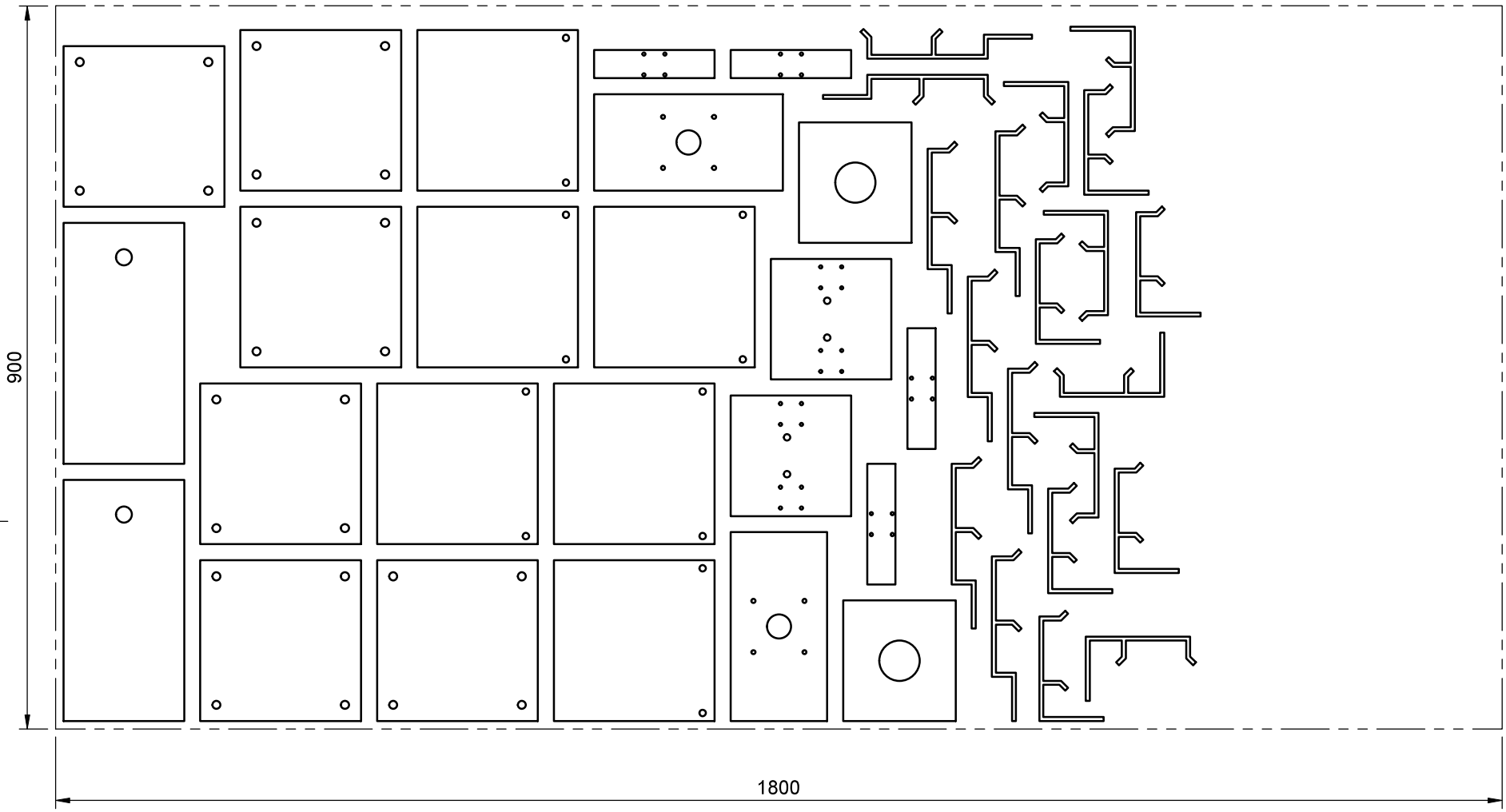
SCALE:1:10

SHEET 1 OF 1



Scale - 1:5
Thickness of sheet: 5mm
Distance between part and part: 20mm
Distance between part and sheet: 10mm

Dept.	Technical reference	Created by	Approved by
		Karthik Swaminathan 30-06-2021	
Material		Document type	Document status
Mild Steel		Title	All Dimensions are in mm
		New_Nesting(5mm)	DWG No.
		Rev. / Date of issue	Sheet
			1/1

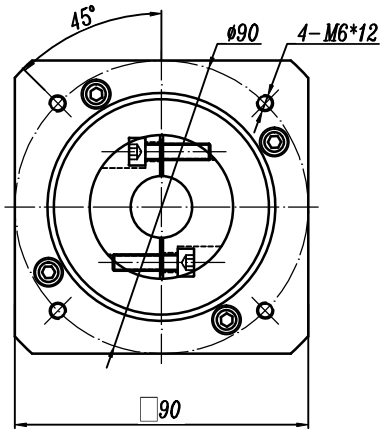


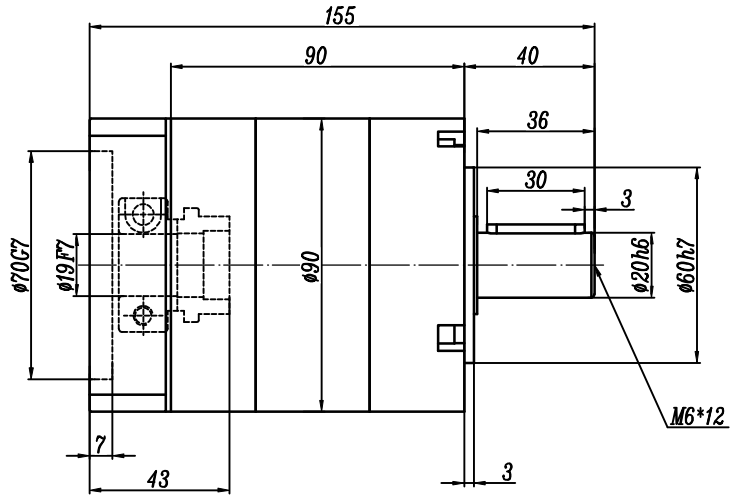
Scale - 1:5
Thickness of sheet: 10mm
Distance between part and part: 20mm
Distance between part and sheet: 10mm

Dept.	Technical reference	Created by	Approved by
		Karthik Swaminathan 30-06-2021	
Material		Document type	Document status
Mild Steel		Title: New_Nesting(10mm)	DWG No.
			Rev. / Date of issue / Sheet: 1/1

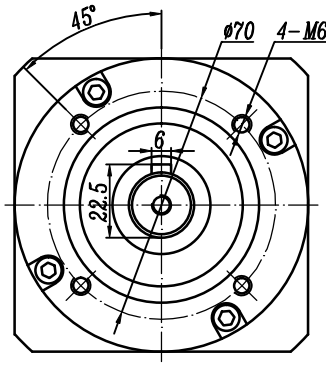
materail:the flange is aluminium, the ring gear and output shaft is 42CrMo

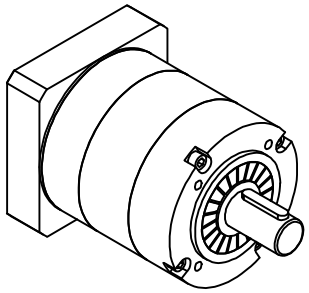
input





output





Technical data					
Rated input speed	4000min^{-1}	Noise dB	65		
Max input speed	6000min^{-1}	Environment temperature	-20℃~90℃	Lubricating system	Long-term
Maximum radial load	550N	Average useful life	20000hours	Levels of protection	IP65
Maximum axial load	500N	Full load efficiency	96%	Flange accuracy	DIN42955-R
Backlash(arcmin)	10~12	Installation	arbitrarily	Weight(Kg)	3.1

Motor type/size: ECMA-C10807RS
ø19*35/ø70*3/4-ø6.6-ø90

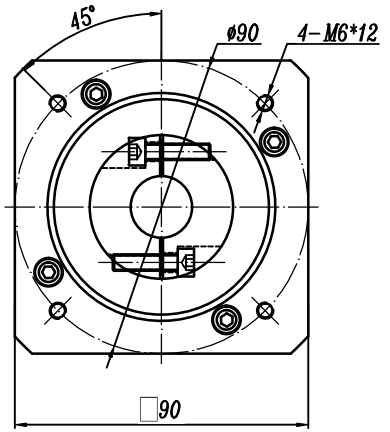
Ratio	3	4	5	7	10
Rated output torque Nm	55	100	95	80	50
Max output torque Nm	110	200	190	160	100
Rotational inertia Kgcm^2	0.77	0.52	0.45	0.42	0.39

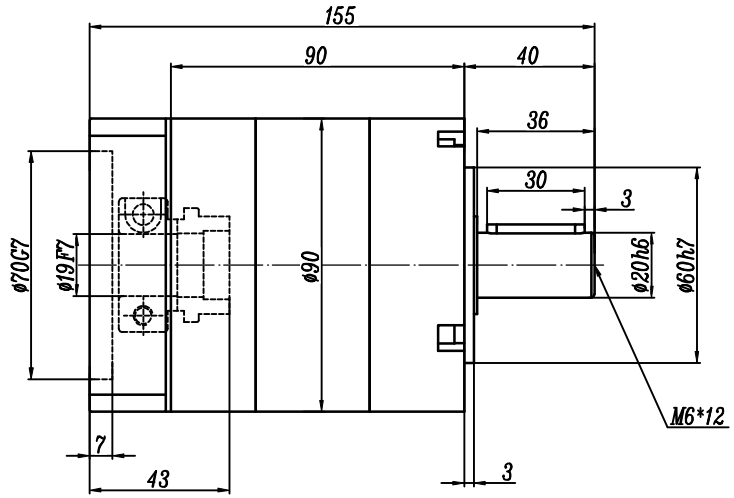
PL90-05-C108

Design for Delta India

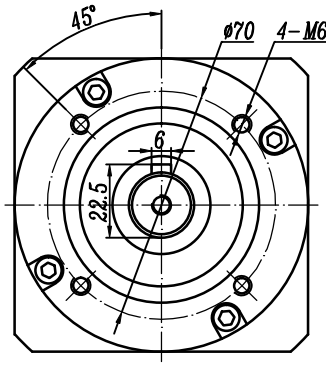
materail:the flange is aluminium, the ring gear and output shaft is 42CrMo

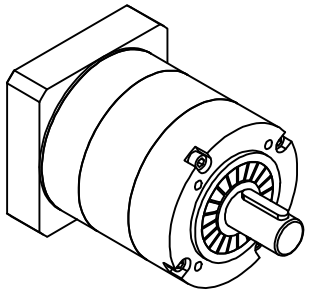
input





output





Motor type/size: ECMA-C10807RS
ø19*35/ø70*3/4-ø6.6-ø90

Technical data					
Rated input speed	4000min^{-1}	Noise dB	65		
Max input speed	6000min^{-1}	Environment temperature	-20℃~90℃	Lubricating system	Long-term
Maximum radial load	550N	Average useful life	20000hours	Levels of protection	IP65
Maximum axial load	500N	Full load efficiency	96%	Flange accuracy	DIN42955-R
Backlash(arcmin)	10~12	Installation	arbitrarily	Weight(Kg)	3.1

Ratio	3	4	5	7	10
Rated output torque Nm	55	100	95	80	50
Max output torque Nm	110	200	190	160	100
Rotational inertia Kgcm^2	0.77	0.52	0.45	0.42	0.39

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Design for Delta India