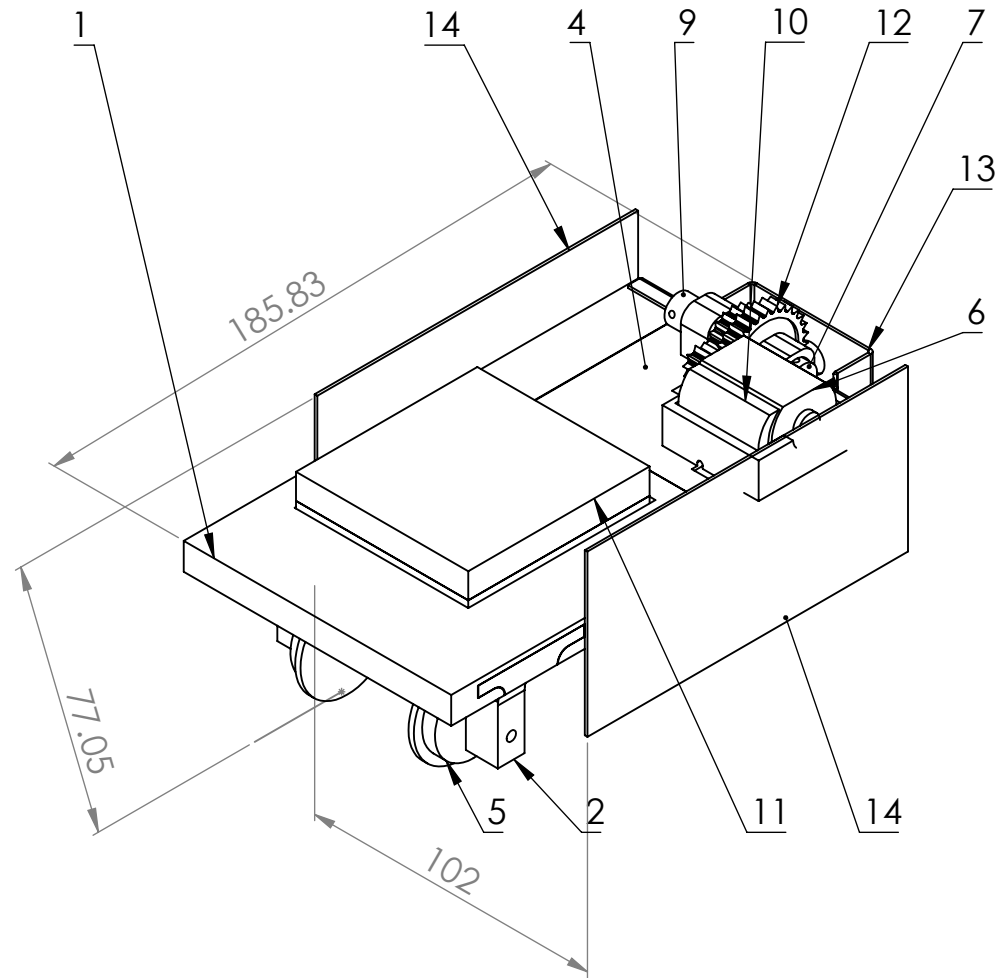


B

ITEM NO.	PART NUMBER	1:18/QTY.
1	Chassis	1
2	Wheel Leg (Front)	1
3	Wheel Leg (Back)	1
4	Motor and Gear Platform	1
5	Wheel Pair and Shaft	2
6	Motor	1
7	Gear Shaft (Top)	1
8	Gear Shaft (Bottom)	1
9	Gear Shaft Cap	2
10	Motor Spacer	1
11	Battery Components	1
12	Gear Train	1
13	Cargo puller	1
14	Side plate	2



B

A

A

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MM Please refer to individual parts for tolerances.	DRAWN	RP	25/01/18
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL PLA, ABS, Aluminum sheet, Steel	COMMENTS:		
		FINISH	While there also are 1:64 and 1:48 gear ratio configuration, this drawing will only feature 1:18 configuration.		
NEXT ASSY	USED ON		The components hidden in this view will be shown in the following page.		
APPLICATION		DO NOT SCALE DRAWING			

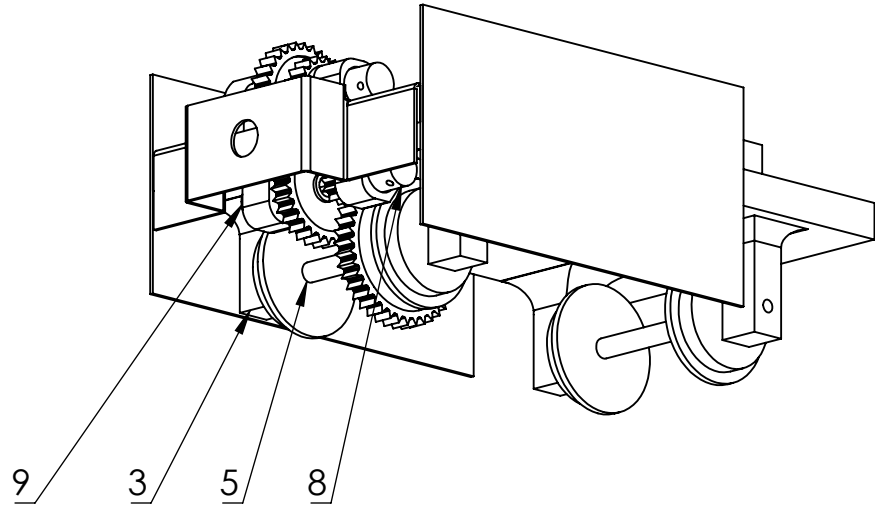
Isometric view					
TITLE: Eh Won Train					
SIZE A	DWG. NO. 1		REV 1		
SCALE: 1:2		WEIGHT:		SHEET 1 OF 8	

2

1

B

ITEM NO.	PART NUMBER	1:18/QTY.
1	Chassis	1
2	Wheel Leg (Front)	1
3	Wheel Leg (Back)	1
4	Motor and Gear Platform	1
5	Wheel Pair and Shaft	2
6	Motor	1
7	Gear Shaft (Top)	1
8	Gear Shaft (Bottom)	1
9	Gear Shaft Cap	2
10	Motor Spacer	1
11	Battery Components	1
12	Gear Train	1
13	Cargo puller	1
14	Side plate	2



B

A

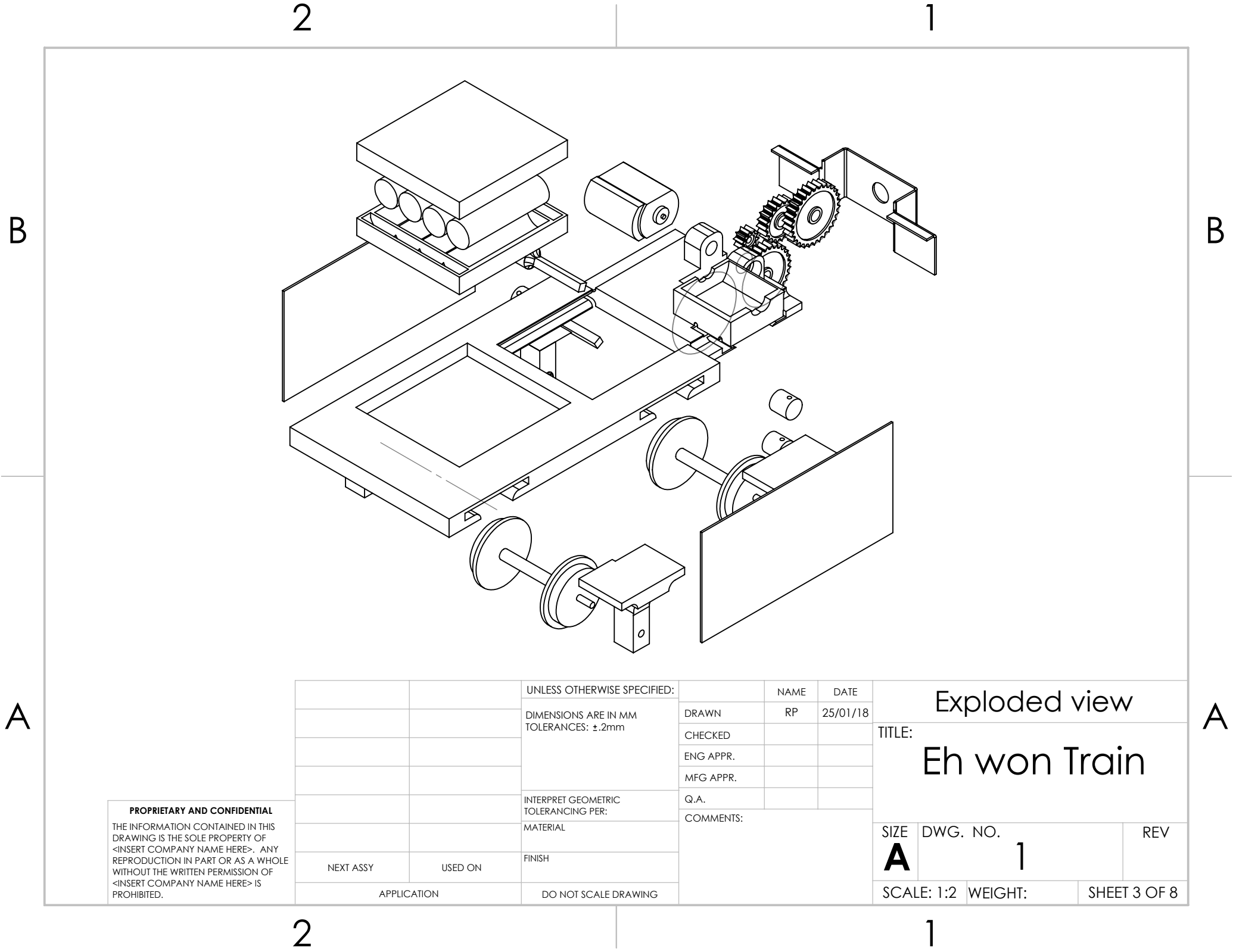
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Isometric view		
		DIMENSIONS ARE IN MM Please refer to individual parts for tolerances.		DRAWN	RP	25/01/18	TITLE: Eh Won Train	
				CHECKED				
				ENG APPR.				
				MFG APPR.				
		INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.			SIZE A	
		MATERIAL PLA, ABS, Aluminum sheet, Steel		COMMENTS: While there also are 1:64 and 1:48 gear ratio configuration, this drawing will only feature 1:18 configuration.				
		FINISH						
NEXT ASSY	USED ON			The components hidden in this view was shown in the previous page/			DWG. NO. 1	
APPLICATION		DO NOT SCALE DRAWING					REV 1	
				SCALE: 1:2		WEIGHT:	SHEET 2 OF 8	

2

1



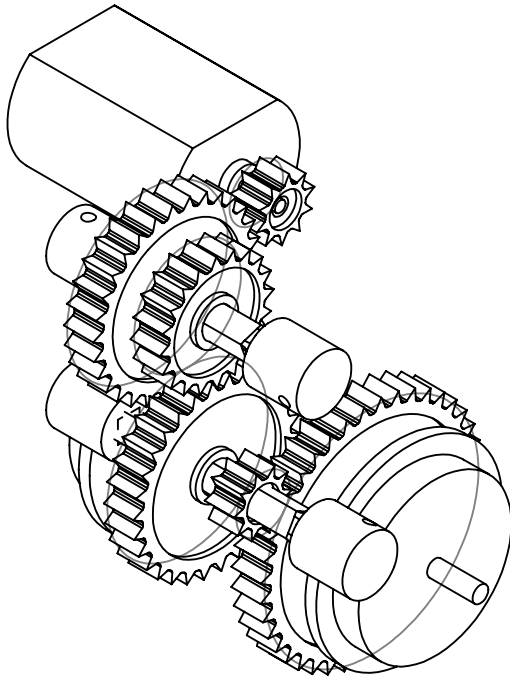
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MM	DRAWN	RP	25/01/18
		TOLERANCES: $\pm .2\text{mm}$	CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC	Q.A.		
		TOLERANCING PER:	COMMENTS:		
		MATERIAL			
		FINISH			
NEXT ASSY	USED ON				
APPLICATION		DO NOT SCALE DRAWING			

Exploded view		
TITLE:		
Eh won Train		
SIZE	DWG. NO.	REV
A	1	
SCALE: 1:2	WEIGHT:	SHEET 3 OF 8



The gear ratio is 1:18, consisting of:
 10t (at motor) mesh with 30t;
 30t compound with 20t;
 20t mesh with 30t;
 30t compound with 10t;
 10t mesh with 40t (at wheel shaft)
 (t stands for teeth; ie. 10t has 10 teeth).

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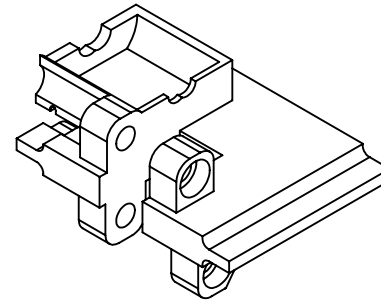
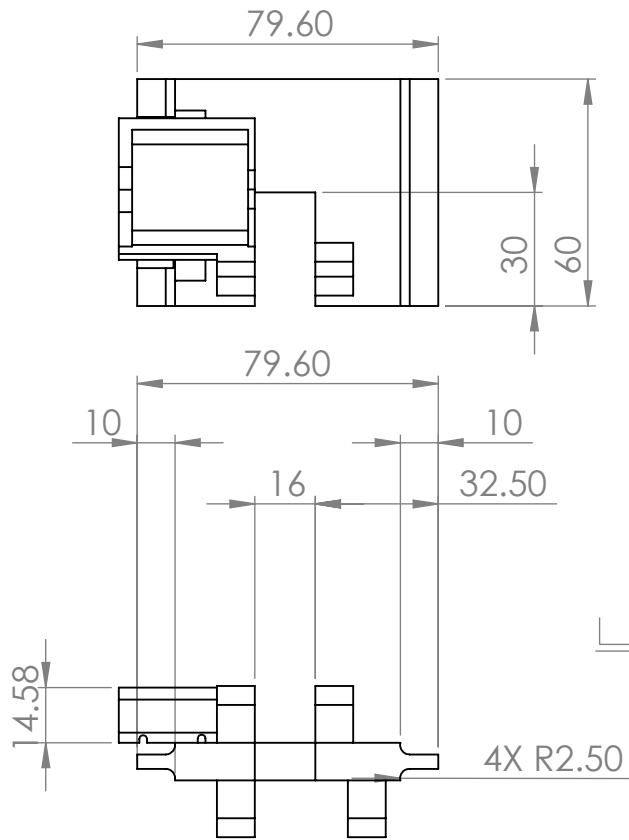
		UNLESS OTHERWISE SPECIFIED:		NAME		DATE		Gear train view TITLE: Eh won Train			
		DIMENSIONS ARE IN MM TOLERANCES: $\pm .2\text{MM}$		DRAWN		RP				25/01/18	
				CHECKED							
				ENG APPR.							
				MFG APPR.							
				Q.A.							
				COMMENTS:							
NEXT ASSY		USED ON		FINISH		SIZE		DWG. NO.		REV	
						A		1			
APPLICATION				DO NOT SCALE DRAWING		SCALE: 1:1		WEIGHT:		SHEET 4 OF 8	

B

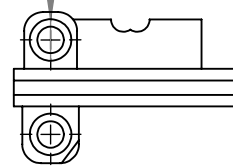
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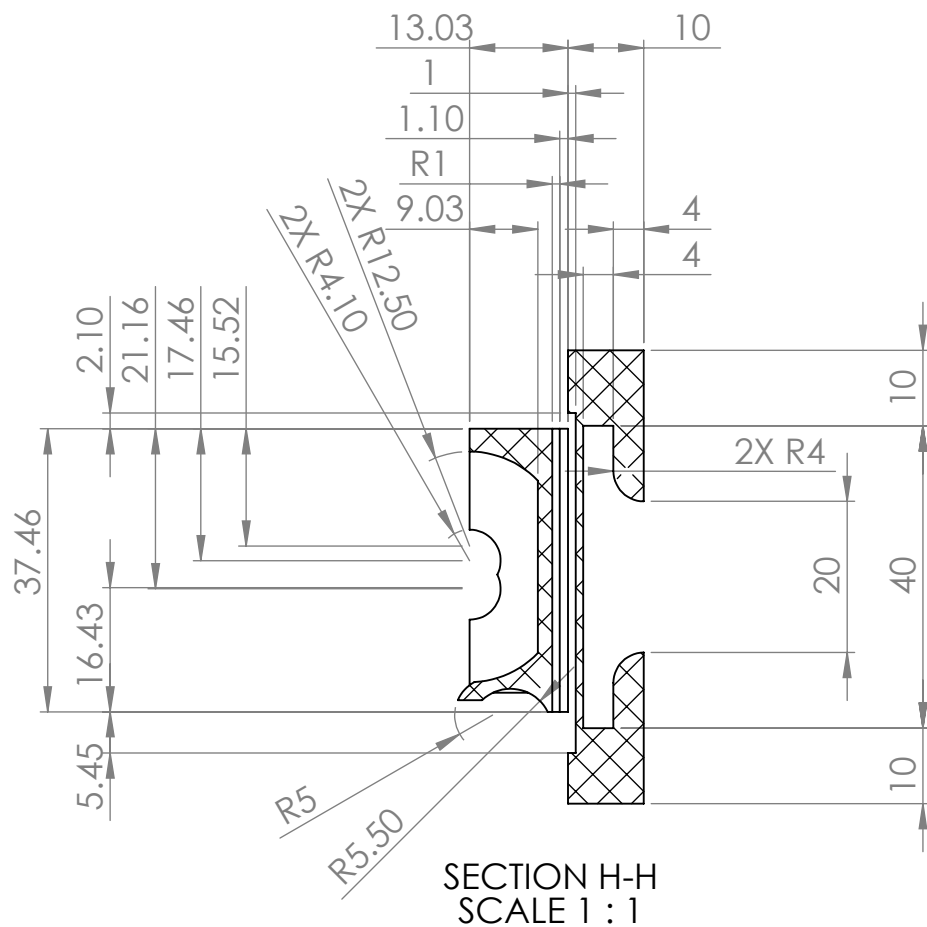
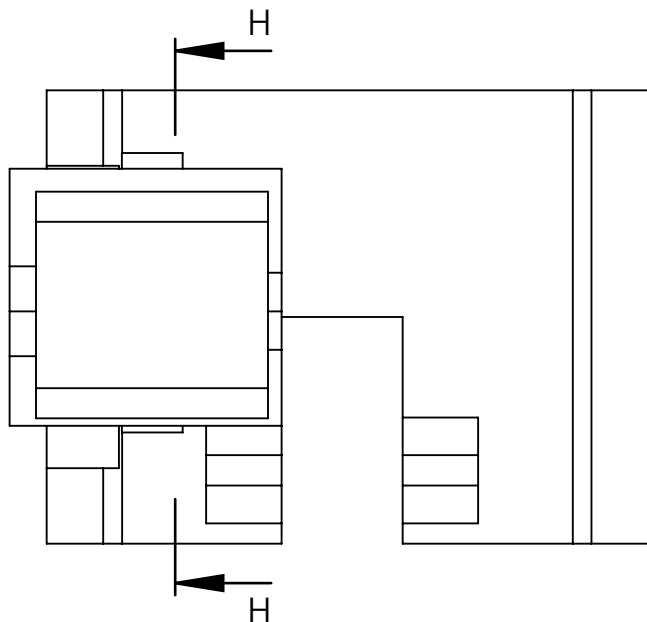
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Motor and Gear Plate TITLE: Eh Won Train		
		DIMENSIONS ARE IN MM TOLERANCES: ± .2MM	DRAWN	RP	25/01/18			
			CHECKED					
			ENG APPR.					
			MFG APPR.					
			Q.A.			SIZE A DWG. NO. 1 REV		
		MATERIAL ABS	COMMENTS:					
NEXT ASSY	USED ON	FINISH				SCALE: 1:2 WEIGHT: SHEET 5 OF 8		
APPLICATION		DO NOT SCALE DRAWING						

2

1

B



B

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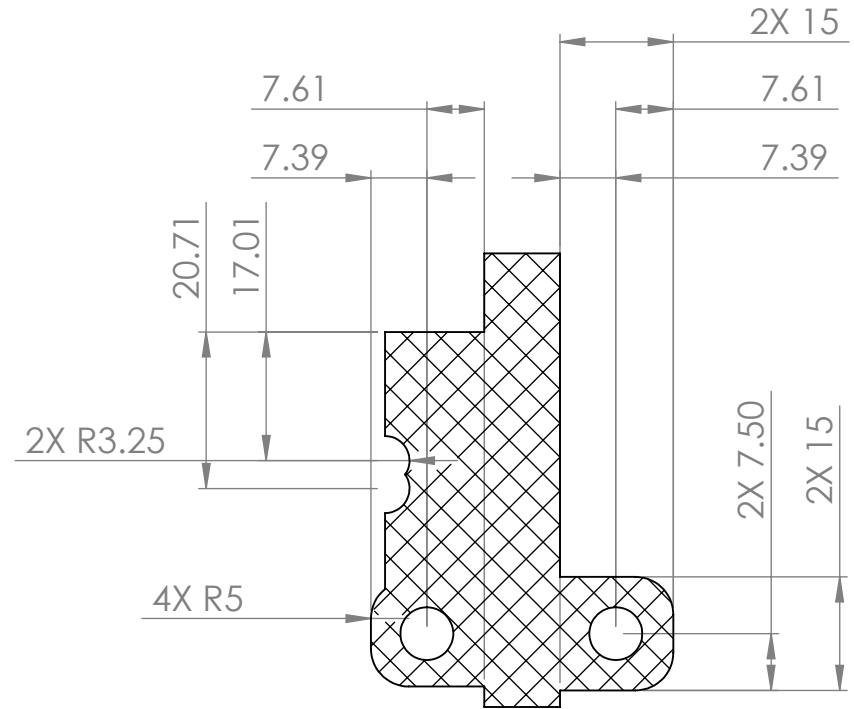
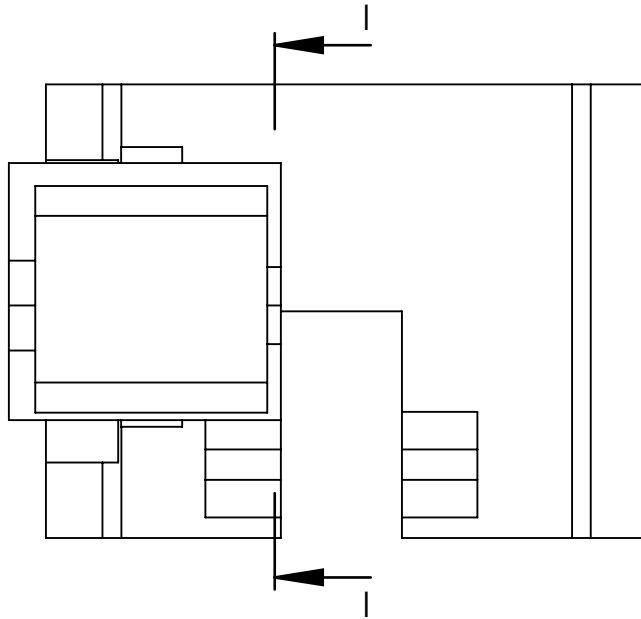
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Motor and Gear Plate TITLE: Eh Won Train			
		DIMENSIONS ARE IN MM TOLERANCES: ±.2MM	DRAWN	RP	25/01/18				
			CHECKED						
			ENG APPR.						
			MFG APPR.						
			Q.A.			SIZE A			
		MATERIAL ABS	COMMENTS:						
		FINISH				DWG. NO.		REV	
NEXT ASSY	USED ON					1			
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1		WEIGHT:	SHEET 6 OF 8

2

1

B



SECTION I-I
SCALE 1 : 1

B

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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Motor and Gear Plate TITLE: Eh Won Train		
		DIMENSIONS ARE IN MM TOLERANCES: ± .2MM	DRAWN	RP	25/01/18			
			CHECKED					
			ENG APPR.					
			MFG APPR.					
			Q.A.			SIZE DWG. NO. REV <div>A1</div>		
		MATERIAL ABS	COMMENTS:					
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1 WEIGHT: SHEET 7 OF 8		

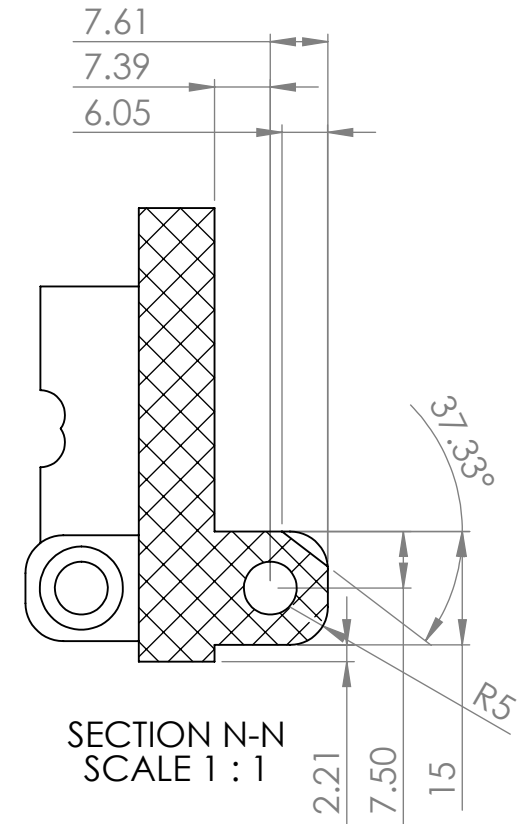
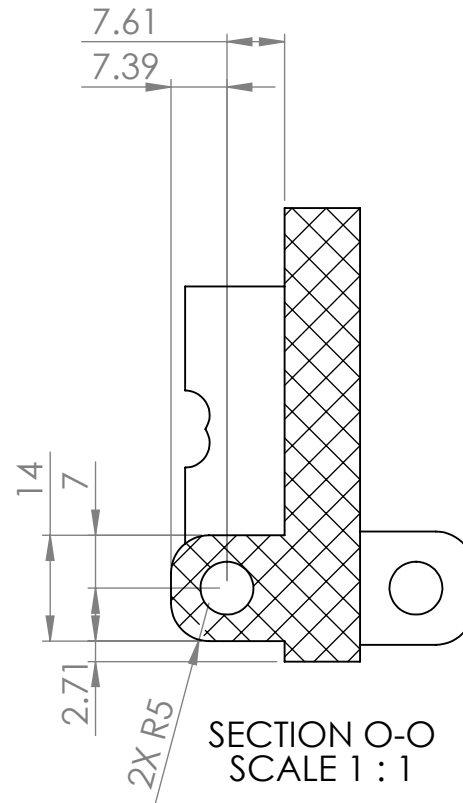
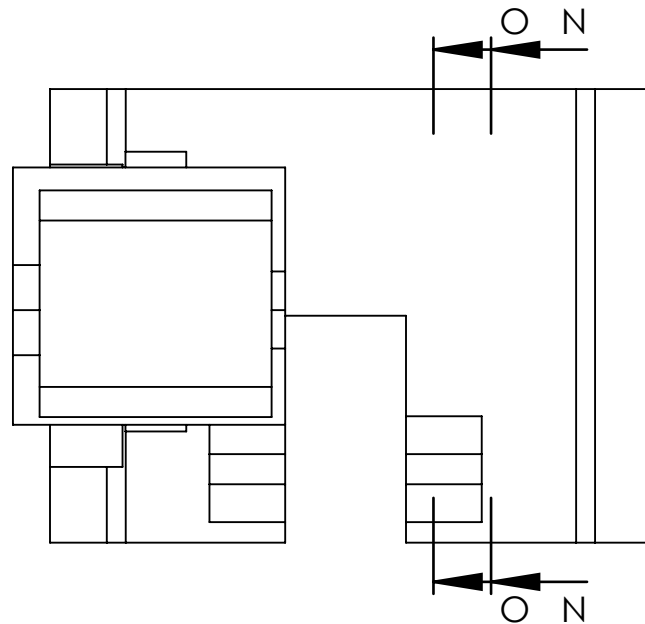
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		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM TOLERANCES: ±.2MM	DRAWN	NAME RP	DATE 25/01/18	Motor and Gear Plate TITLE: Eh Won Train		
			CHECKED					
			ENG APPR.					
			MFG APPR.					
			Q.A.					
		MATERIAL ABS FINISH	COMMENTS:			SIZE A	DWG. NO. 1	REV
NEXT ASSY	USED ON					SCALE: 1:1	WEIGHT:	SHEET 8 OF 8
APPLICATION						DO NOT SCALE DRAWING		

2

1