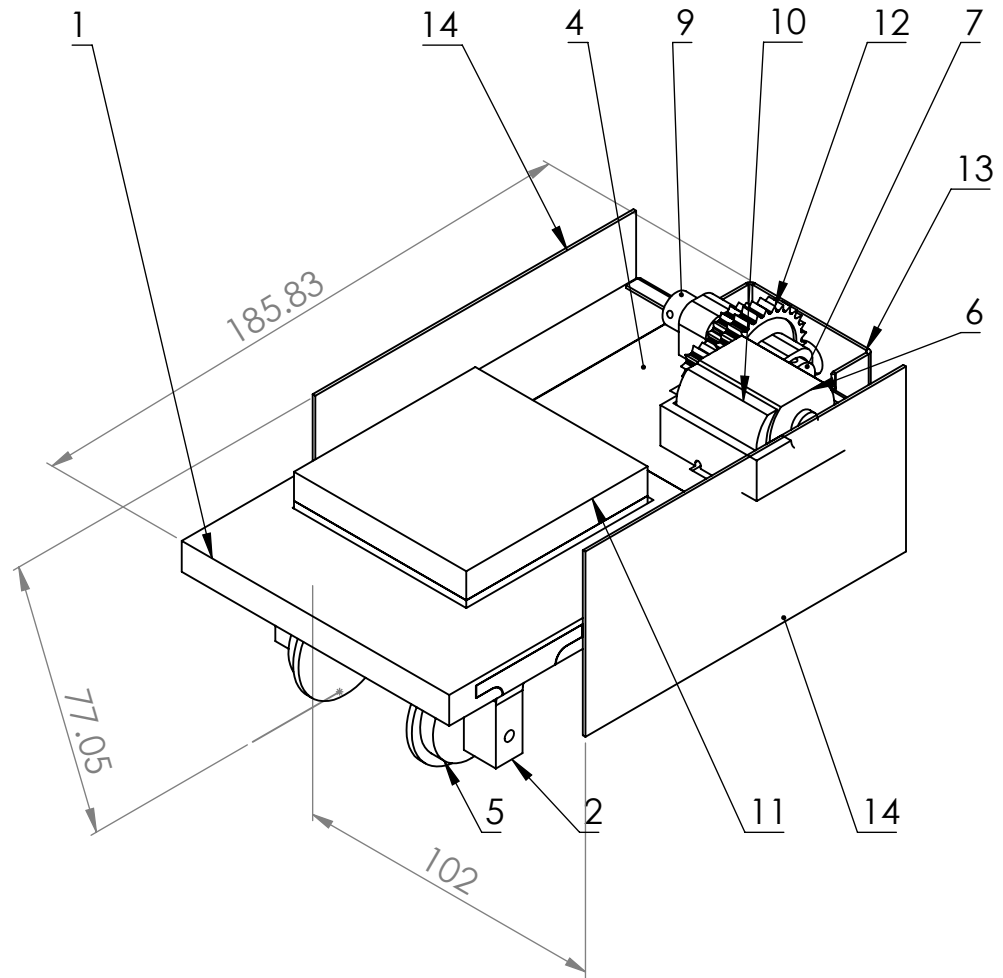


B

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			

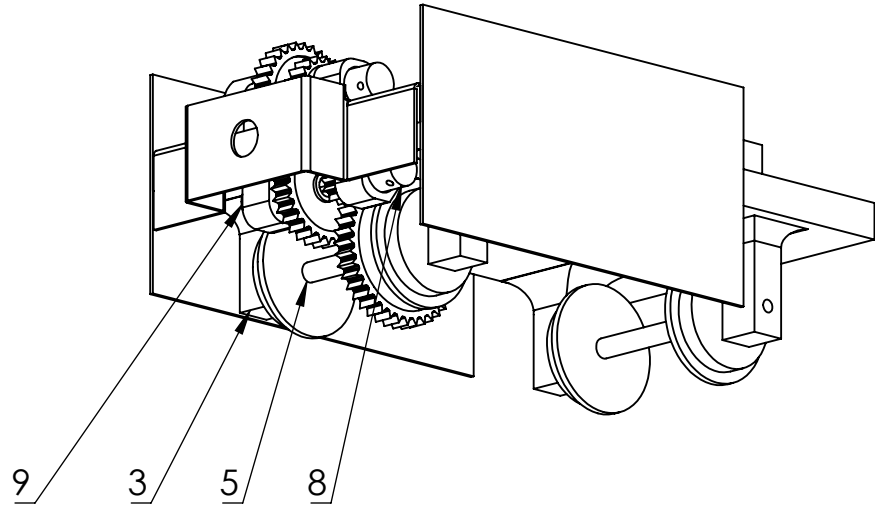
Isometric view					
TITLE: Eh Won Train					
SIZE A	DWG. NO. 1			REV 1	
SCALE: 1:2		WEIGHT:		SHEET 1 OF 8	

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

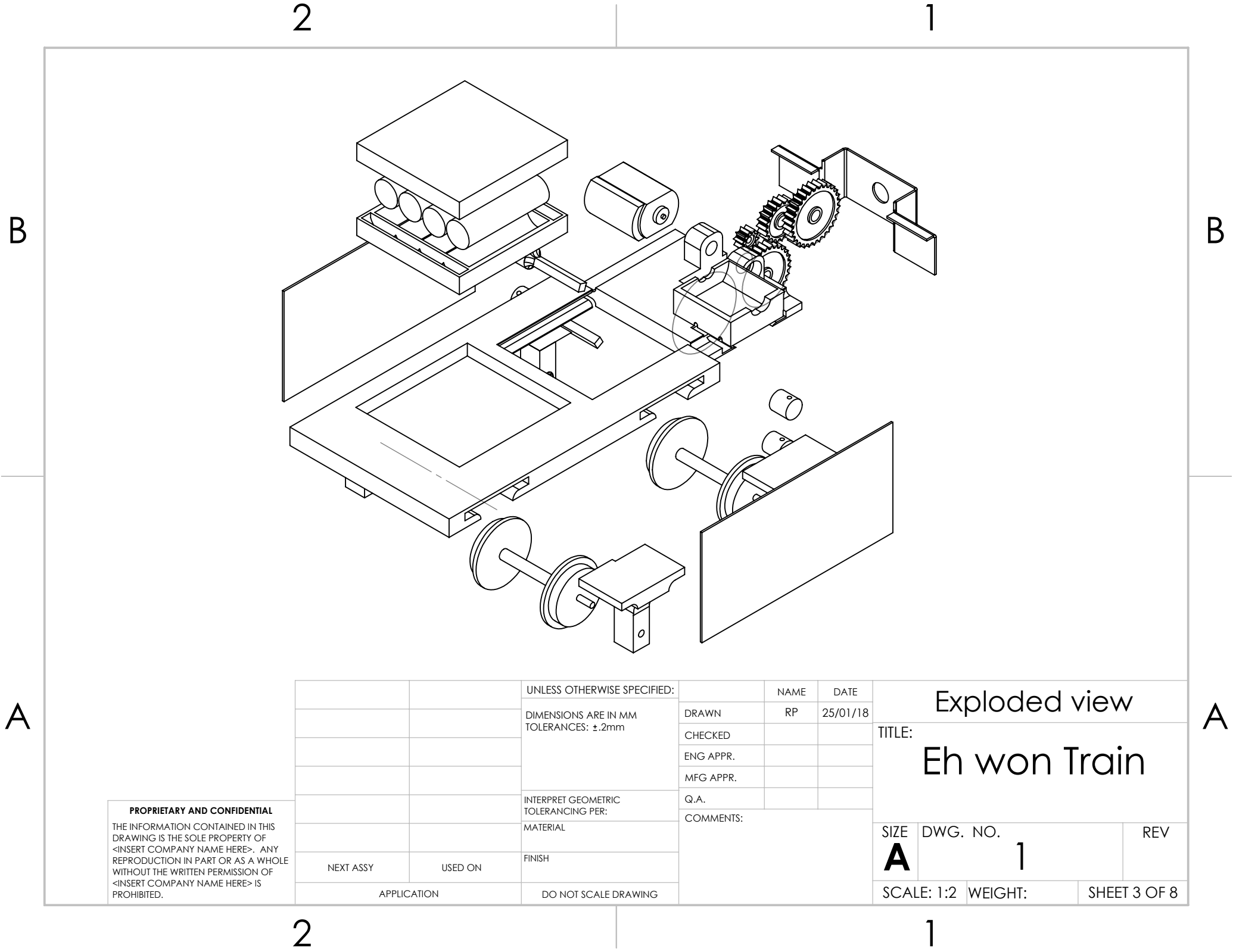
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Isometric view					
		DIMENSIONS ARE IN MM Please refer to individual parts for tolerances.		DRAWN	RP	25/01/18	TITLE: Eh Won Train				
				CHECKED							
				ENG APPR.							
				MFG APPR.							
		INTERPRET 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.			DWG. NO.				REV	
		FINISH				1				1	
NEXT ASSY	USED ON		The components hidden in this view was shown in the previous page/			SCALE: 1:2		WEIGHT:	SHEET 2 OF 8		
APPLICATION		DO NOT SCALE DRAWING									

2

1



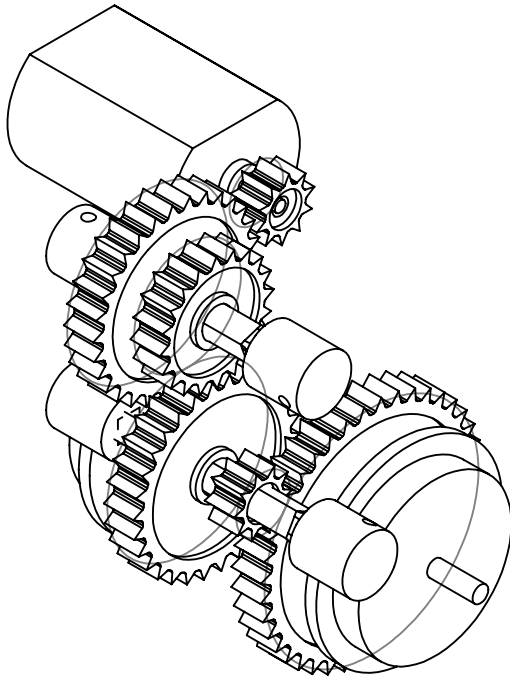
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A

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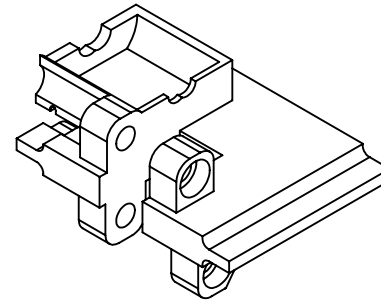
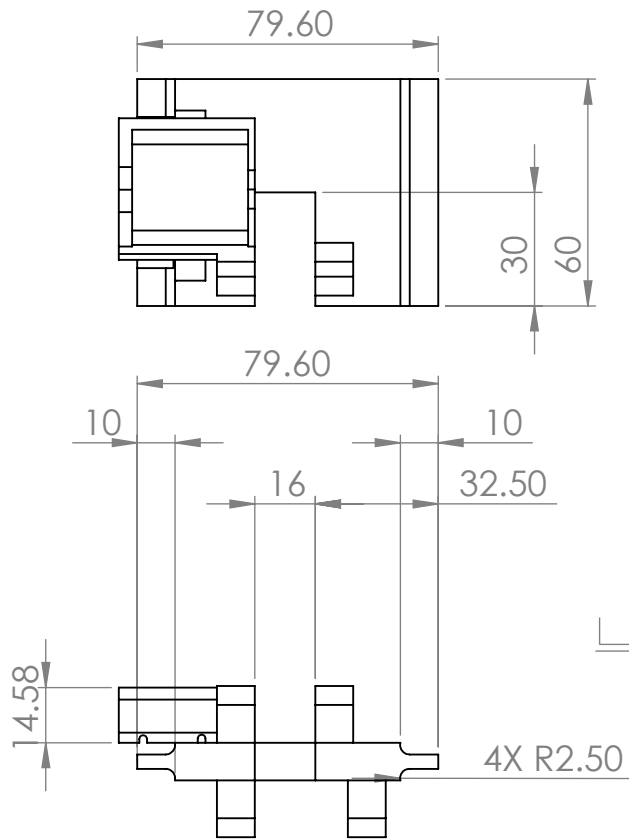
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Gear train view TITLE: Eh won Train			
		DIMENSIONS ARE IN MM TOLERANCES: $\pm .2\text{MM}$		DRAWN	RP			25/01/18	
				CHECKED					
				ENG APPR.					
				MFG APPR.					
				Q.A.			SIZE A	DWG. NO. 1	REV
				COMMENTS:					
NEXT ASSY	USED ON	FINISH							
APPLICATION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

B

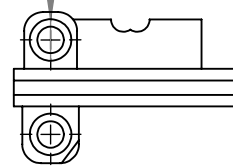
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└─┐ Ø11 ▽ 5



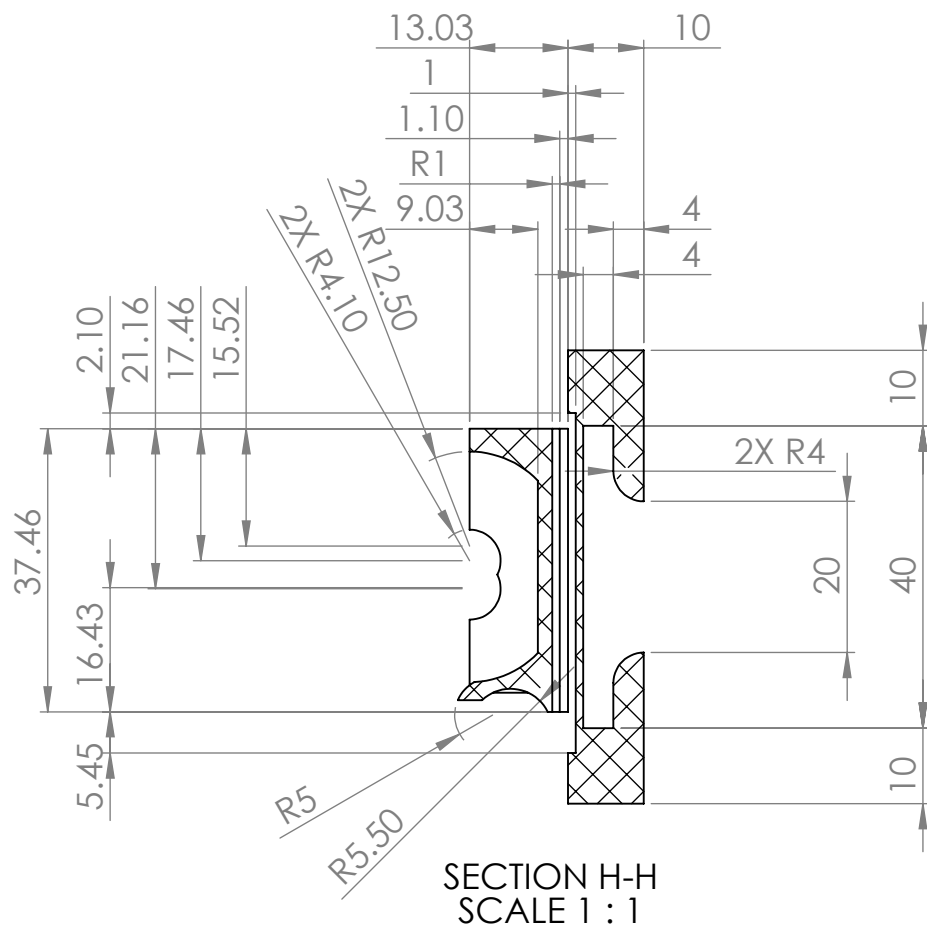
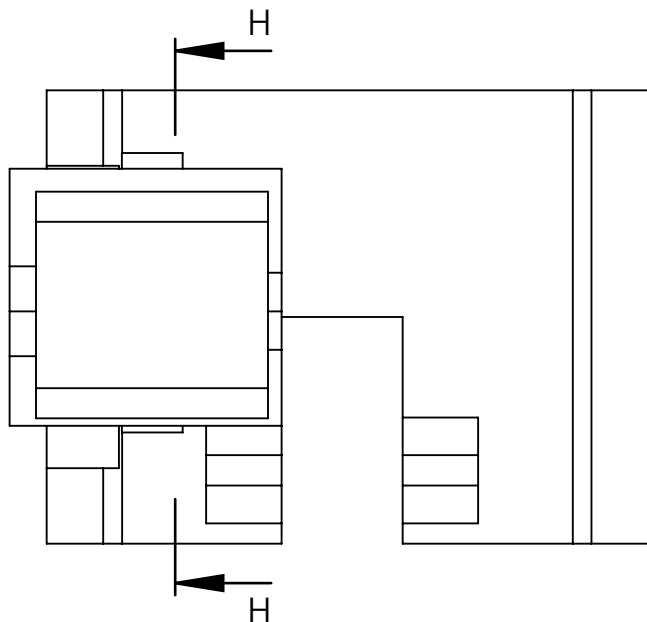
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Motor and Gear Plate TITLE: Eh Won Train		
		DIMENSIONS ARE IN MM TOLERANCES: ±.2MM	DRAWN	RP	25/01/18			
			CHECKED					
			ENG APPR.					
			MFG APPR.					
			Q.A.			SIZE DWG. NO. REV A 1		
			COMMENTS:			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

2

1

B



B

A

A

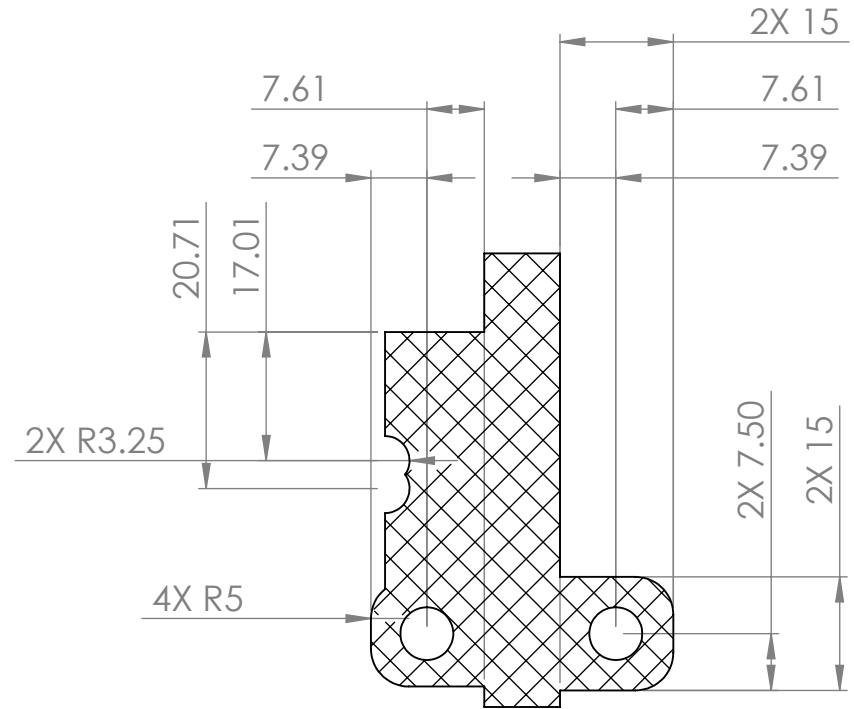
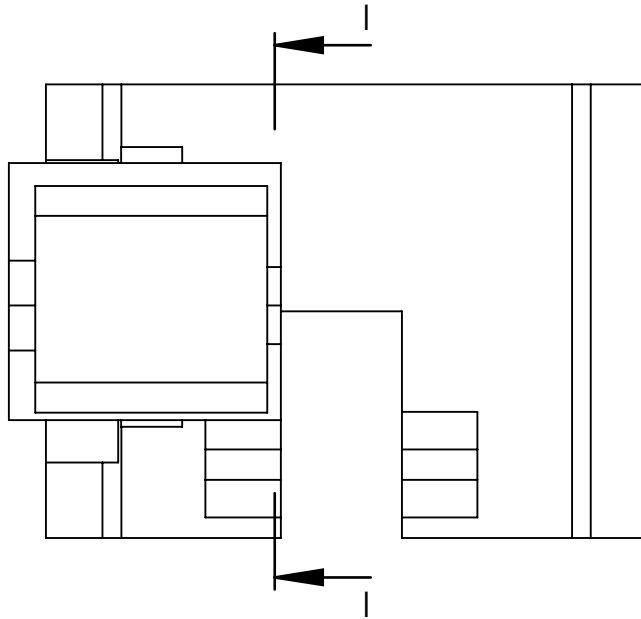
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Motor and Gear Plate TITLE: Eh Won Train			
		DIMENSIONS ARE IN MM TOLERANCES: ±.2MM	DRAWN	RP	25/01/18				
			CHECKED						
			ENG APPR.						
			MFG APPR.						
			Q.A.			SIZE A			
		MATERIAL ABS	COMMENTS:						
		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

A

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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 A 1				
		MATERIAL ABS	COMMENTS:							
		FINISH								
NEXT ASSY	USED ON									
APPLICATION		DO NOT SCALE DRAWING		SCALE: 1:1			WEIGHT:		SHEET 7 OF 8	

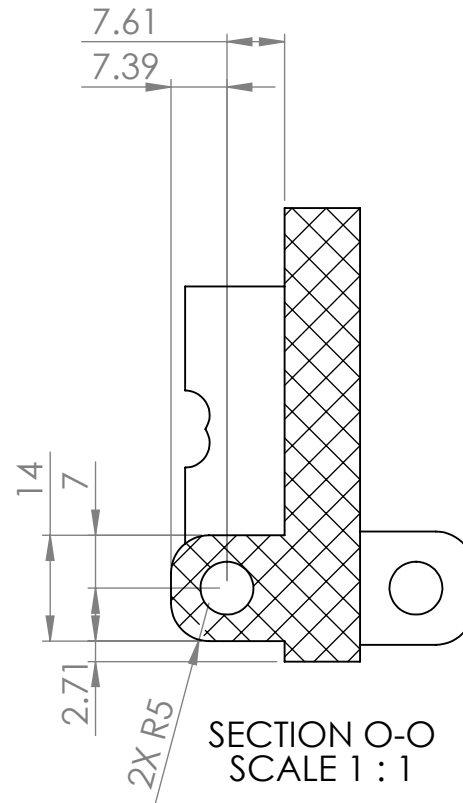
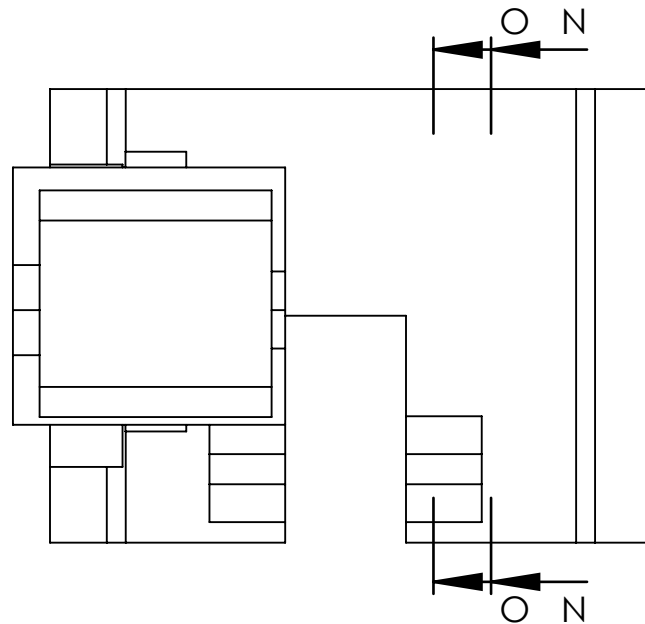
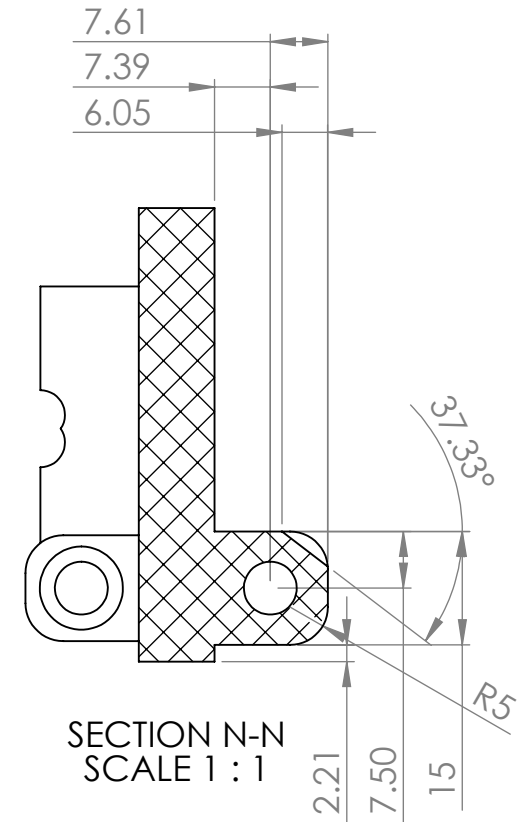
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1

A

B

B

SECTION O-O
SCALE 1 : 1SECTION N-N
SCALE 1 : 1

A

A

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NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM
TOLERANCES: $\pm .2$ MMMATERIAL
ABS

FINISH

DO NOT SCALE DRAWING

DRAWN

CHECKED

ENG APPR.

MFG APPR.

Q.A.

COMMENTS:

NAME

RP

DATE

25/01/18

Motor and Gear Plate

TITLE:

Eh Won Train

SIZE

A

DWG. NO.

1

REV

SCALE: 1:1

WEIGHT:

SHEET 8 OF 8

2

1