

2

1

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

185.83

77.05

102

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NEXT ASSY		USED ON
APPLICATION		DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN MM
Please refer to individual parts for tolerances.

INTERPRET GEOMETRIC TOLERANCING PER:

MATERIAL
PLA, ABS, Aluminum sheet, Steel

FINISH

	NAME	DATE
DRAWN	RP	25/01/18
CHECKED		
ENG APPR.		
MFG APPR.		
Q.A.		
COMMENTS:		
While there also are 1:64 and 1:48 gear ratio configuration, this drawing will only feature 1:18 configuration.		
The components hidden in this view will be shown in the following page.		

TITLE:

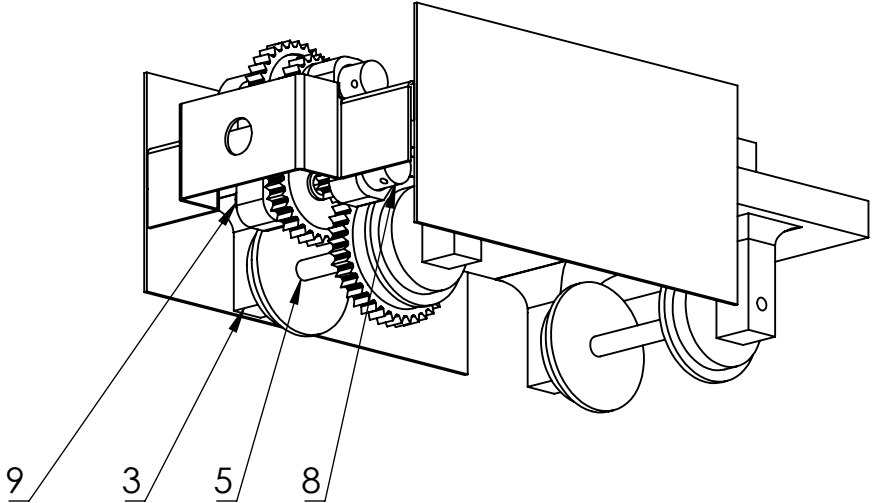
Isometric view
Eh Won Train

SIZE	DWG. NO.	REV
A	1	1

SCALE: 1:2	WEIGHT:	SHEET 1 OF 8

B

ITEM NO.	PART NUMBER	1:18/QTY.
1	Chassis	1
2	Wheel Leg (Front)	1
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10	Motor Spacer	1
11	Battery Components	1
12	Gear Train	1
13	Cargo puller	1
14	Side plate	2



A

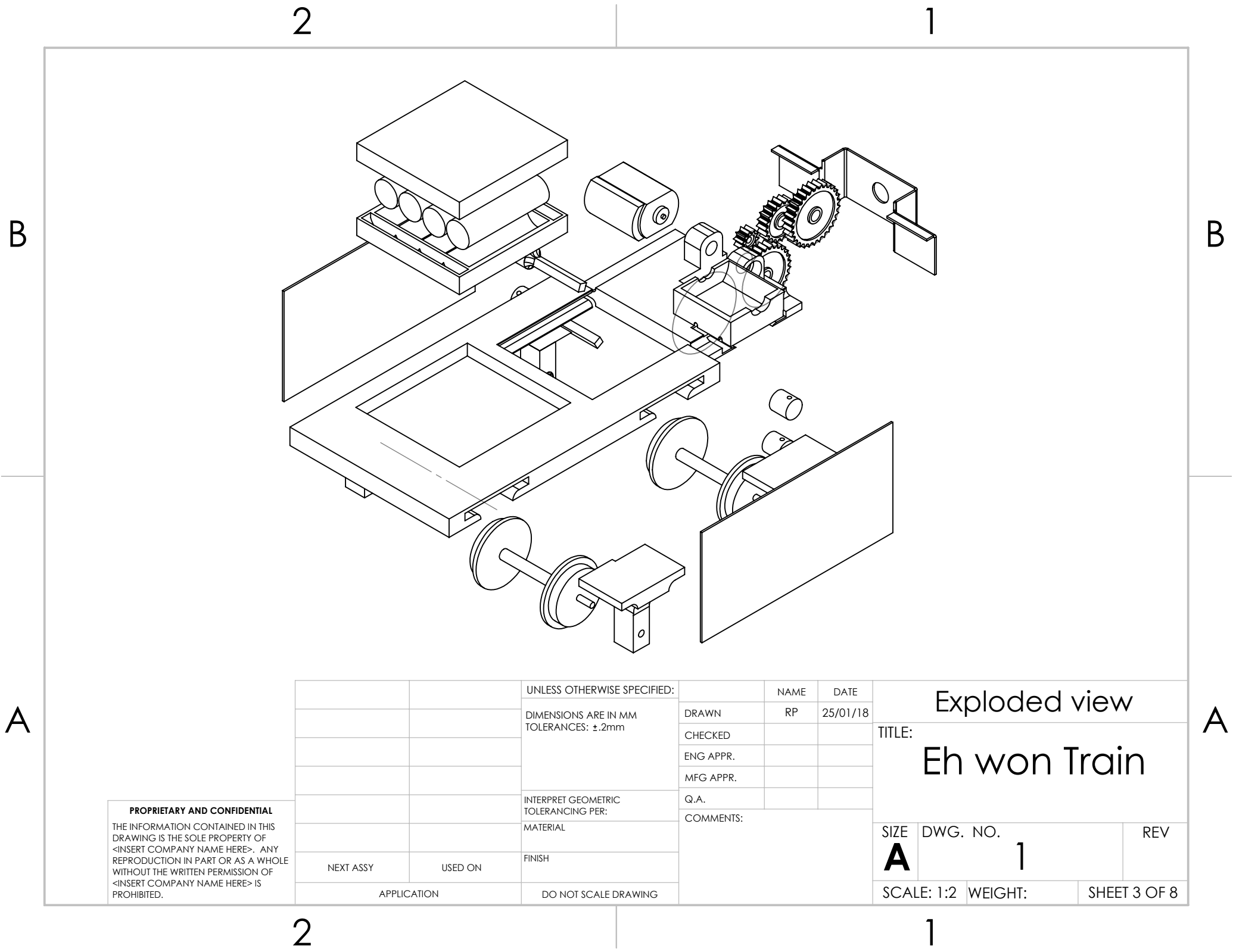
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MM Please refer to individual parts for tolerances.	DRAWN	RP	25/01/18
			CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.		
		MATERIAL PLA, ABS, Aluminum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

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

B

A



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A

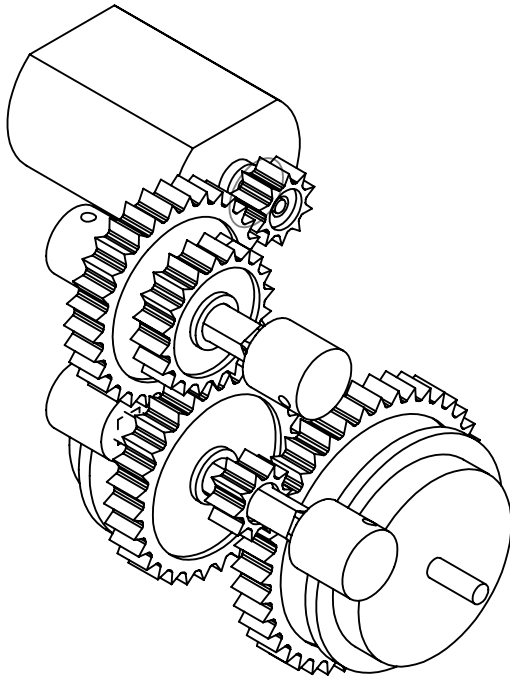
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MM	DRAWN	RP	25/01/18
		TOLERANCES: $\pm .2\text{mm}$	CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC	Q.A.		
		TOLERANCING PER:	COMMENTS:		
		MATERIAL			
		FINISH			
NEXT ASSY	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

2

1



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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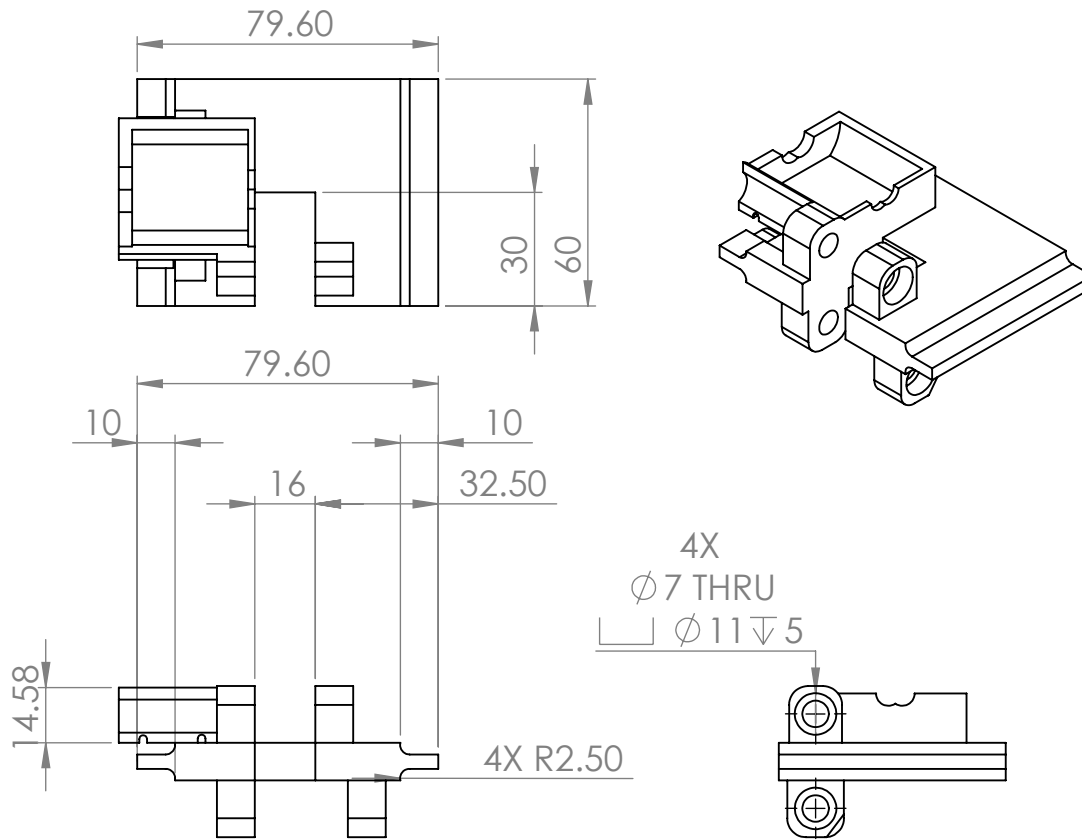
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		DIMENSIONS ARE IN MM TOLERANCES: $\pm .2\text{MM}$		DRAWN	RP			25/01/18	
				CHECKED					
				ENG APPR.					
				MFG APPR.					
				Q.A.			SIZE A	DWG. NO. 1	REV
				COMMENTS:					
NEXT ASSY	USED ON	FINISH							
APPLICATION		DO NOT SCALE DRAWING					SCALE: 1:1 WEIGHT: SHEET 4 OF 8		

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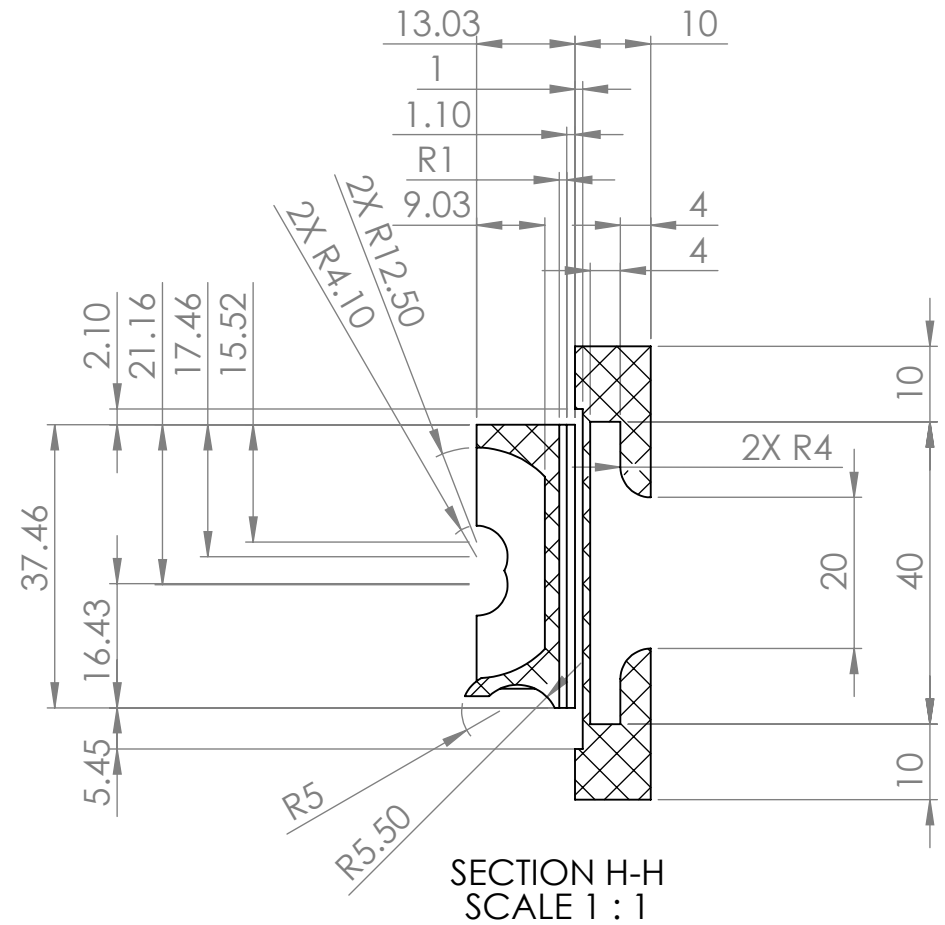
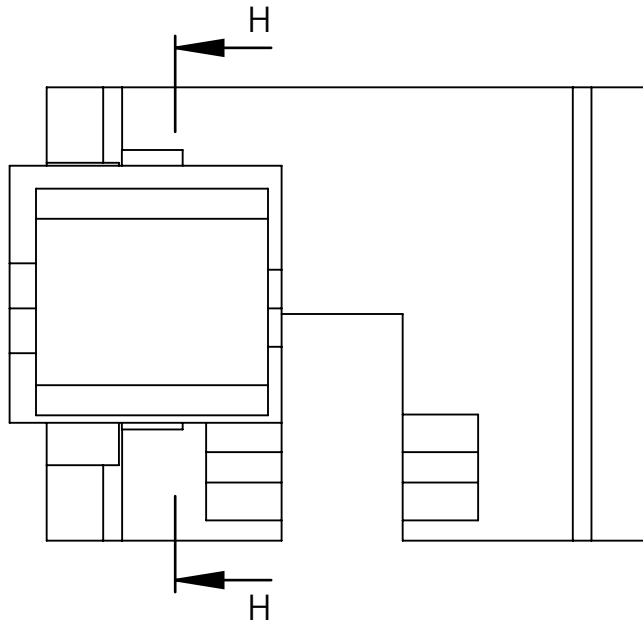
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		DIMENSIONS ARE IN INCHES TOLERANCES: ±.2MM FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	RP	25/01/18			
			CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE DWG. NO. REV A Drawing		
		MATERIAL ABS	COMMENTS:					
		FINISH						
NEXT ASSY	USED ON					SCALE: 1:2	WEIGHT:	SHEET 5 OF 8
APPLICATION		DO NOT SCALE DRAWING						

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B

A



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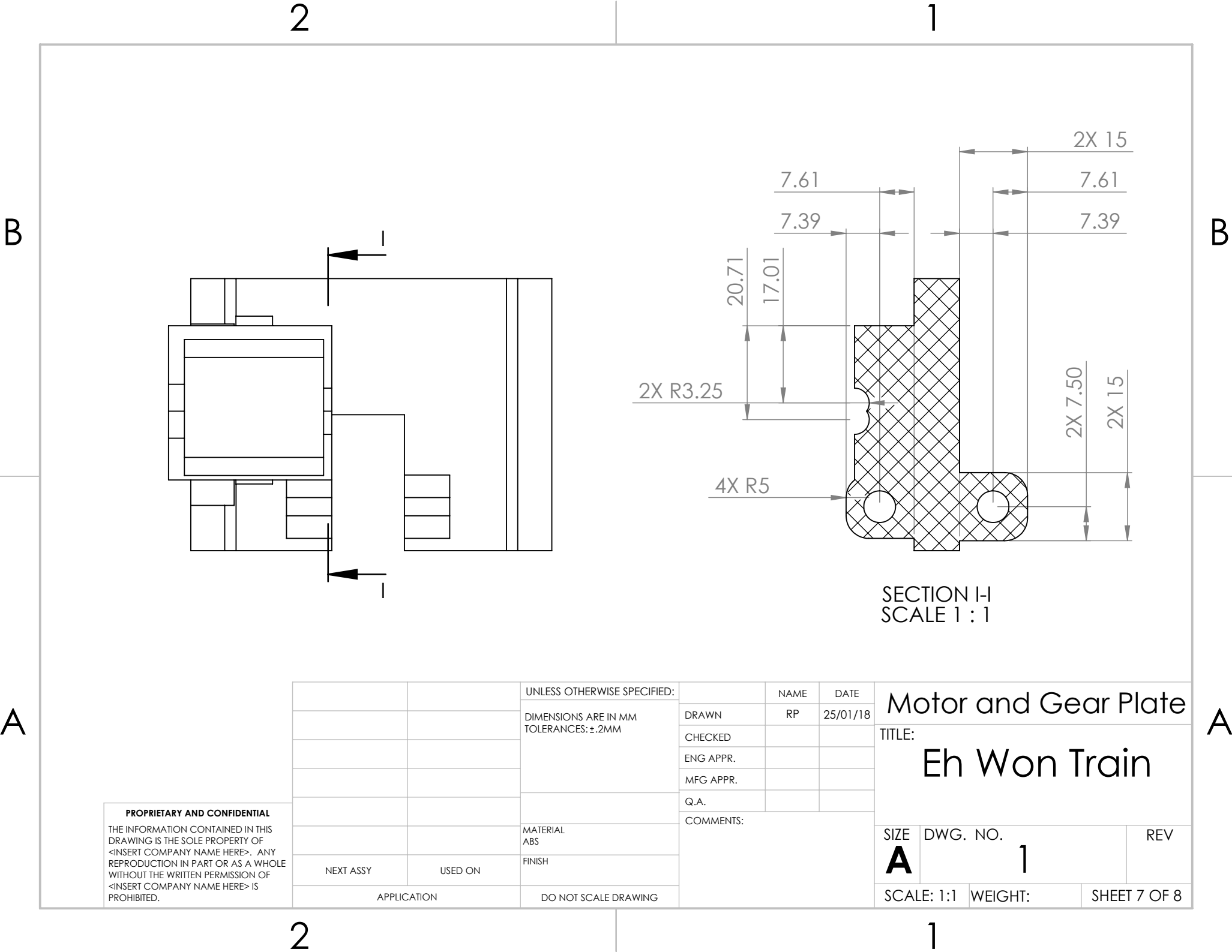
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Motor and Gear Plate TITLE: Eh Won Train		
		DIMENSIONS ARE IN INCHES TOLERANCES: $\pm .2$ MM FRACTIONAL \pm ANGULAR: MACH \pm BEND \pm TWO PLACE DECIMAL \pm THREE PLACE DECIMAL \pm	DRAWN	RP	25/01/18			
			CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE DWG. NO. REV A Drawing		
		MATERIAL ABS	COMMENTS:					
		FINISH						
NEXT ASSY	USED ON					SCALE: 1:1	WEIGHT:	SHEET 6 OF 8
APPLICATION		DO NOT SCALE DRAWING						

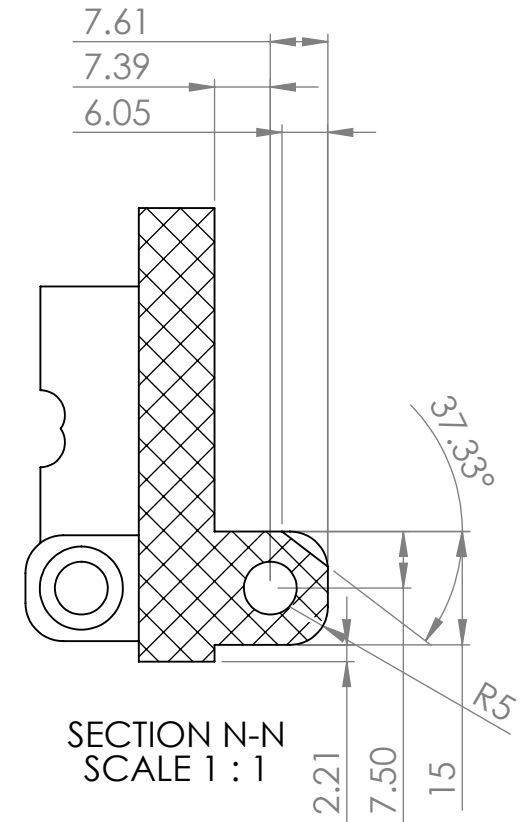
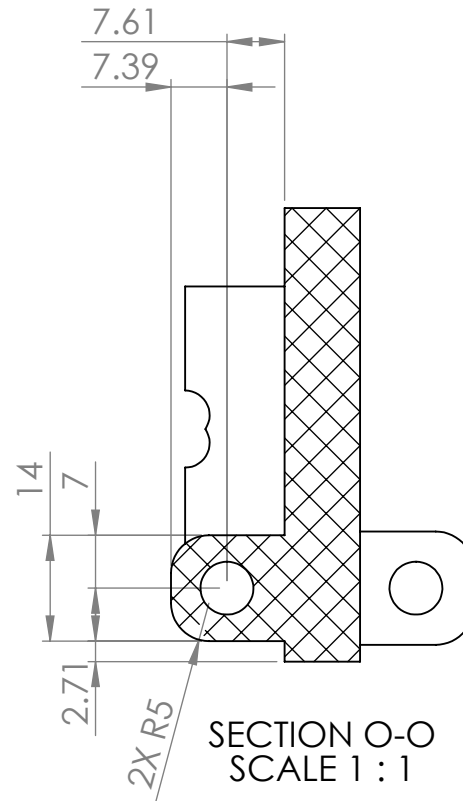
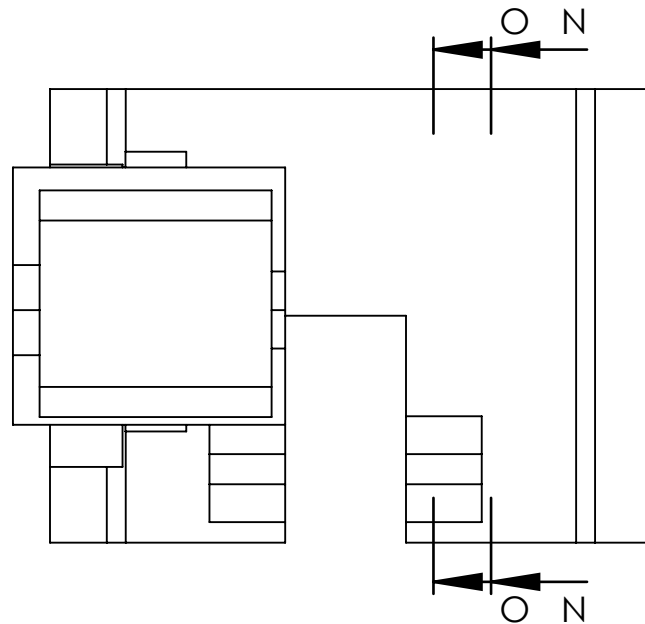
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			CHECKED					
			ENG APPR.					
			MFG APPR.					
		INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.			SIZE DWG. NO. REV A Drawing		
		MATERIAL ABS	COMMENTS:					
		FINISH						
NEXT ASSY	USED ON							
APPLICATION		DO NOT SCALE DRAWING						
			SCALE: 1:2			WEIGHT:		SHEET 8 OF 8

2

1