

2

1

ITEM NO.	PART NUMBER	18:1/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

Isometric view of the assembly with dimensions: 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

DRAWN
CHECKED
ENG APPR.
MFG APPR.
Q.A.

NAME
RP

DATE
25/01/18

COMMENTS:
While there also are 64:1 and 48:1 gear ratio configuration, this drawing will only feature 18:1 configuration.
The components hidden in this view will be shown in the following page.

TITLE:
Whiteout

SIZE
A

DWG. NO.
1

REV
1

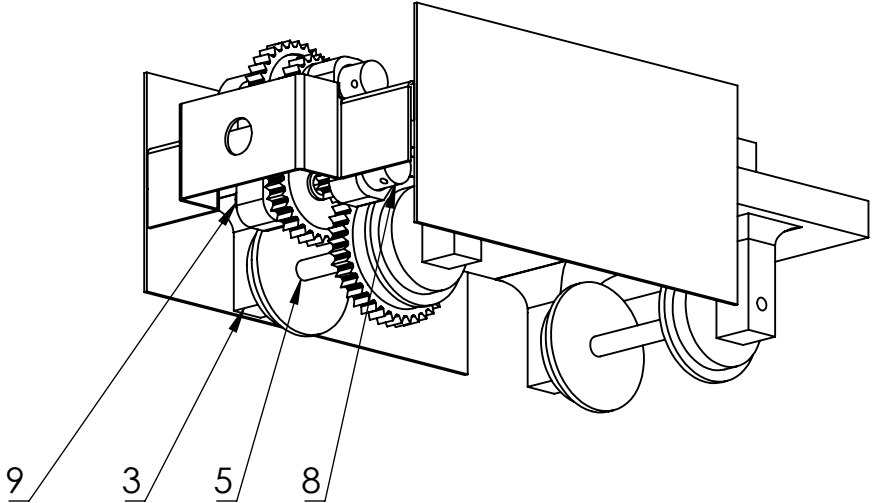
SCALE: 1:2

WEIGHT:

SHEET 1 OF 8

B

ITEM NO.	PART NUMBER	1:18/QTY.
1	Chassis	1
2	Wheel Leg (Front)	1
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



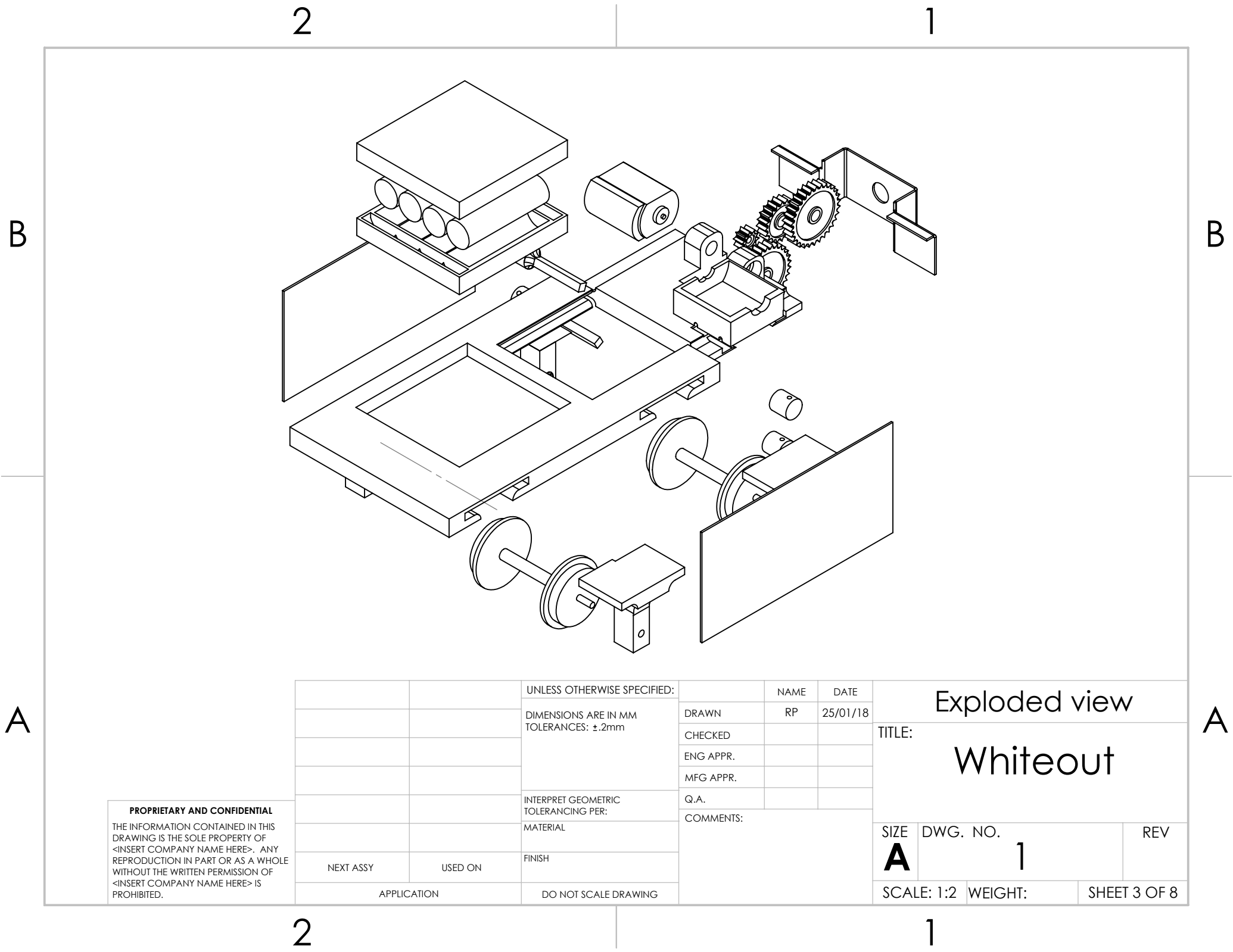
A

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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: Whiteout	
				CHECKED				
				ENG APPR.				
				MFG APPR.				
		INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.			SIZE A	
		MATERIAL PLA, ABS, Aluminum sheet, Steel		COMMENTS:				
		FINISH		While there also are 64:1 and 48:1 gear ratio configuration, this drawing will only feature 18:1 configuration.				
				The components hidden in this view was shown in the previous page.				
NEXT ASSY	USED ON			DWG. NO.			1	REV 1
APPLICATION		DO NOT SCALE DRAWING		SCALE: 1:2			WEIGHT:	SHEET 2 OF 8

B

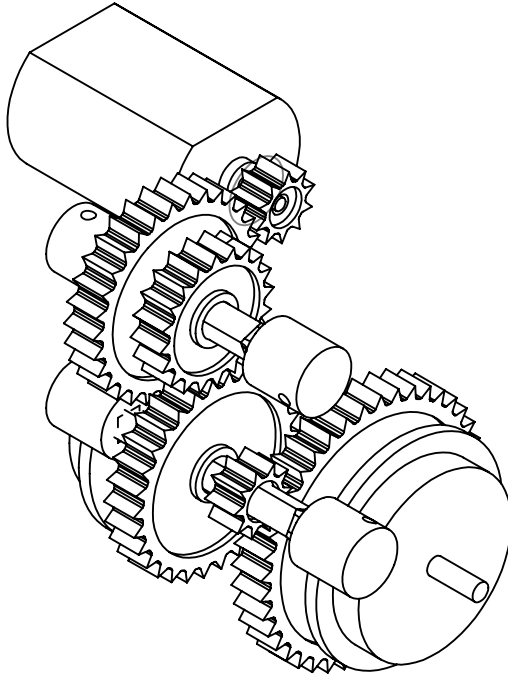
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		UNLESS OTHERWISE SPECIFIED:		NAME	DATE
		DIMENSIONS ARE IN MM	DRAWN	RP	25/01/18
		TOLERANCES: $\pm .2\text{mm}$	CHECKED		
			ENG APPR.		
			MFG APPR.		
		INTERPRET GEOMETRIC	Q.A.		
		TOLERANCING PER:	COMMENTS:		
		MATERIAL			
		FINISH			
NEXT ASSY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

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



The gear ratio is 18:1, 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: Whiteout				
		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

1

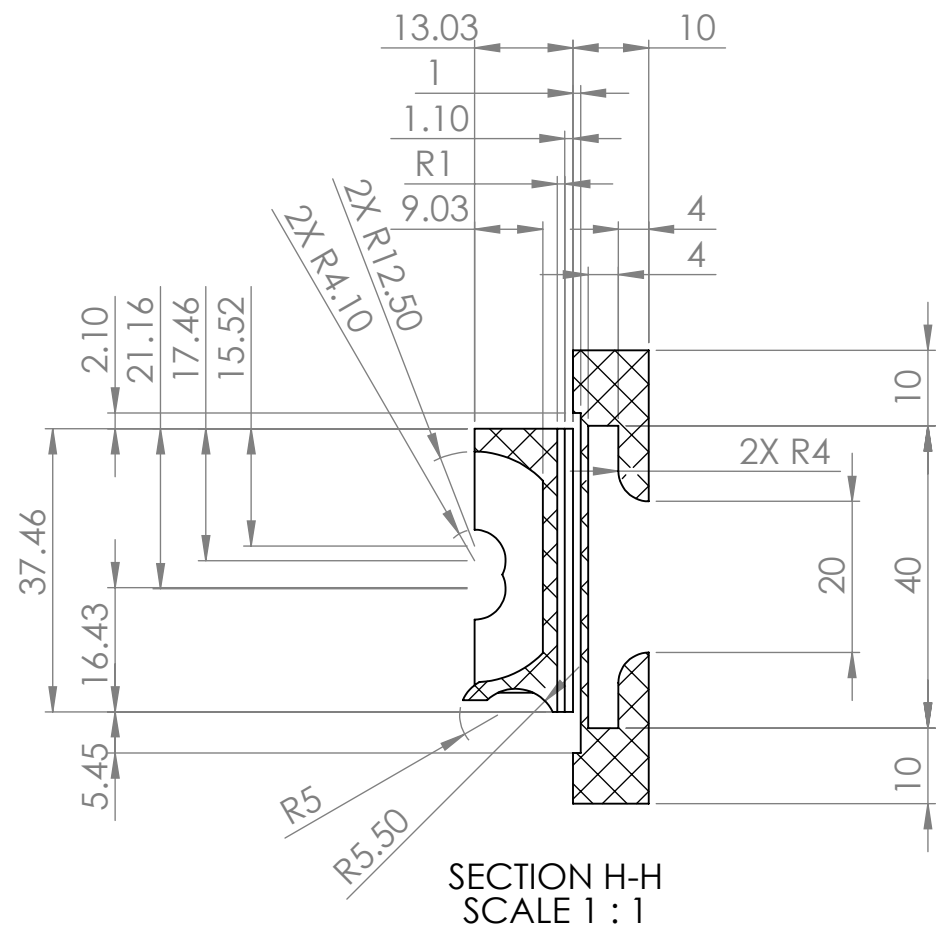
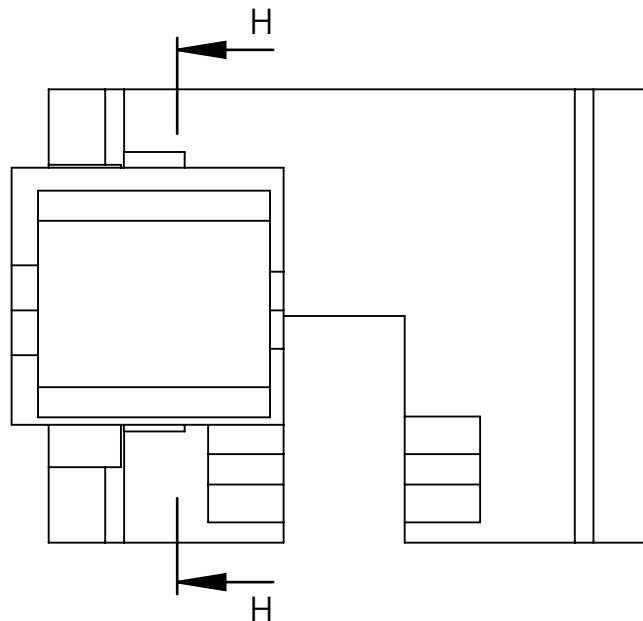


A

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B

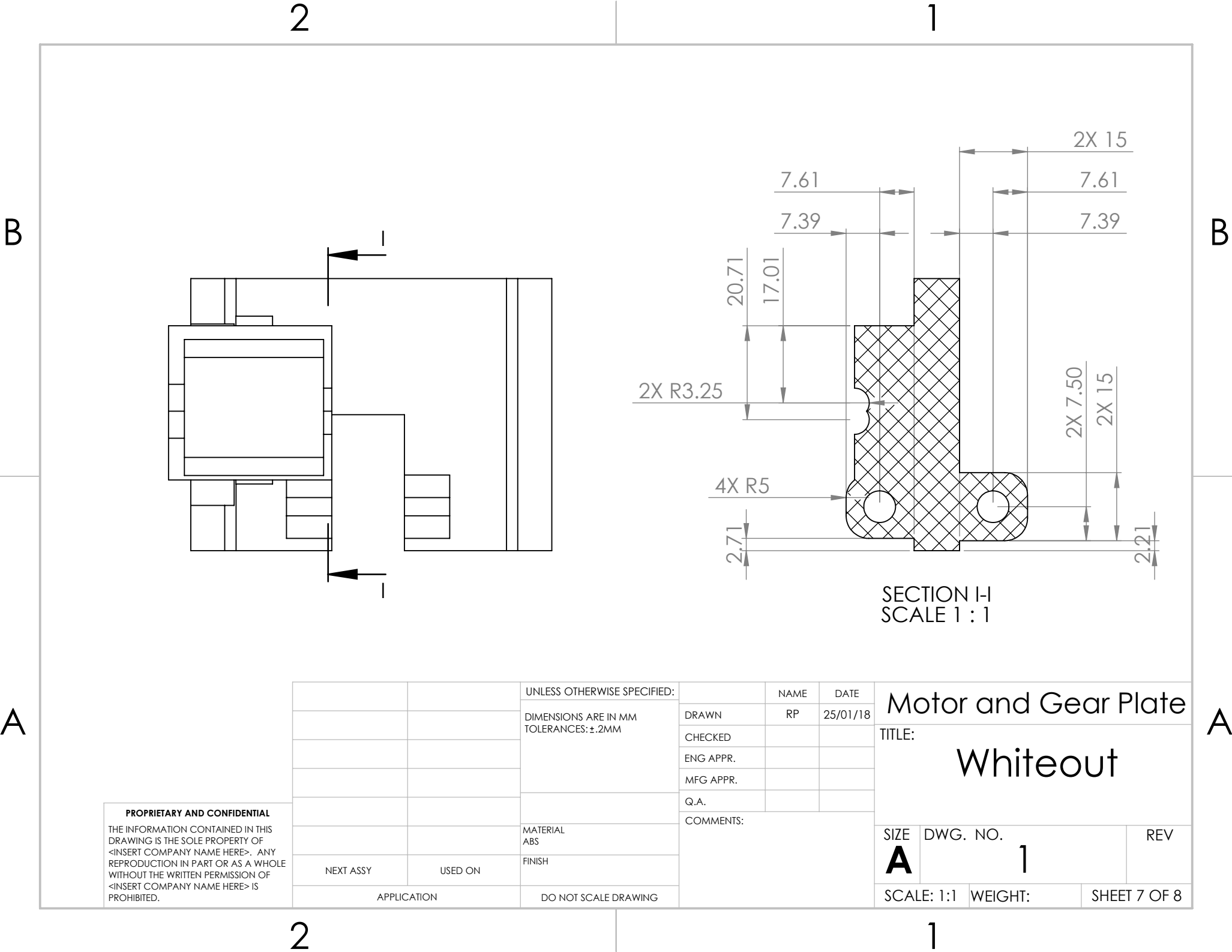


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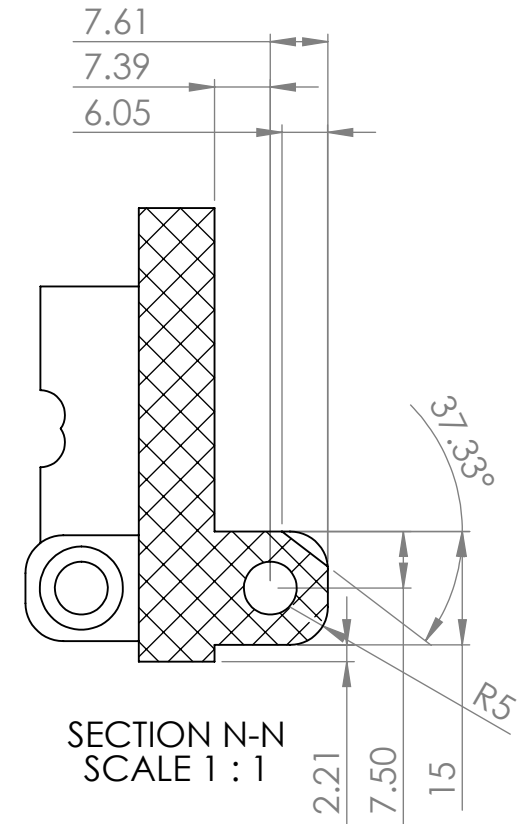
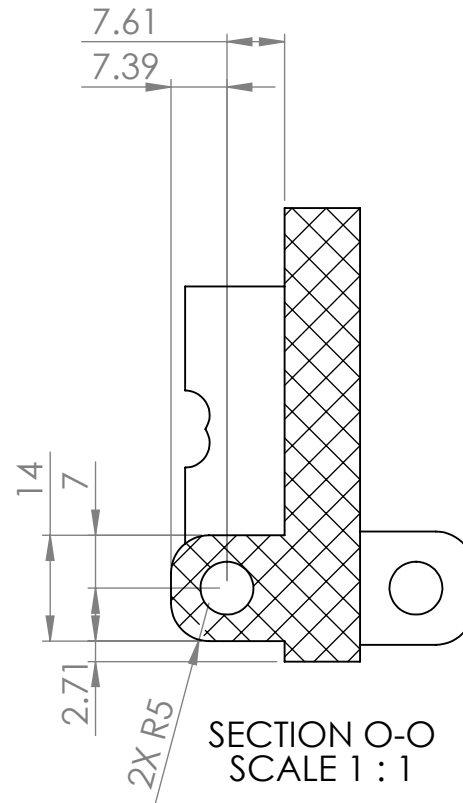
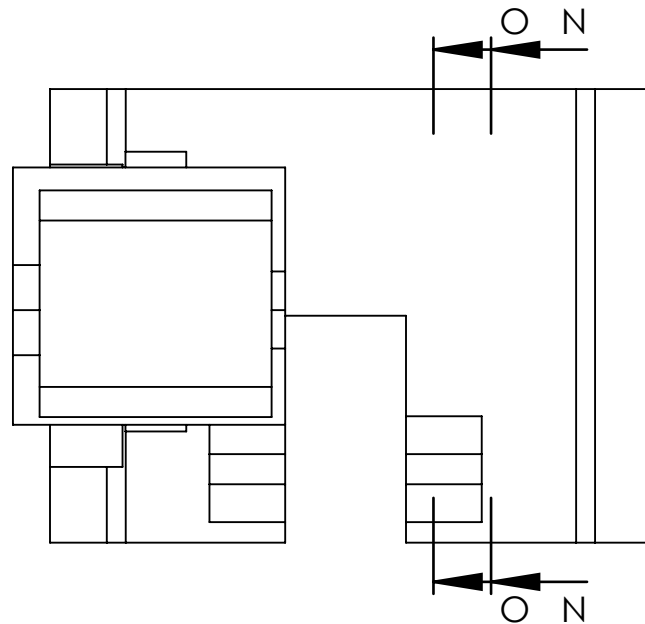
		UNLESS OTHERWISE SPECIFIED:		NAME	DATE	Motor and Gear Plate					
		DIMENSIONS ARE IN MM TOLERANCES: ± .2MM	DRAWN	RP	25/01/18				TITLE: Whiteout		
			CHECKED								
			ENG APPR.								
			MFG APPR.								
			Q.A.			SIZE DWG. NO. REV					
		MATERIAL ABS	COMMENTS:								
NEXT ASSY	USED ON	FINISH			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

1



B

B



A

A

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NEXT ASSY

USED ON

APPLICATION

UNLESS OTHERWISE SPECIFIED:

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

MATERIAL
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:

Whiteout

SIZE

A

DWG. NO.

1

REV

SCALE: 1:1

WEIGHT:

SHEET 8 OF 8

2

1