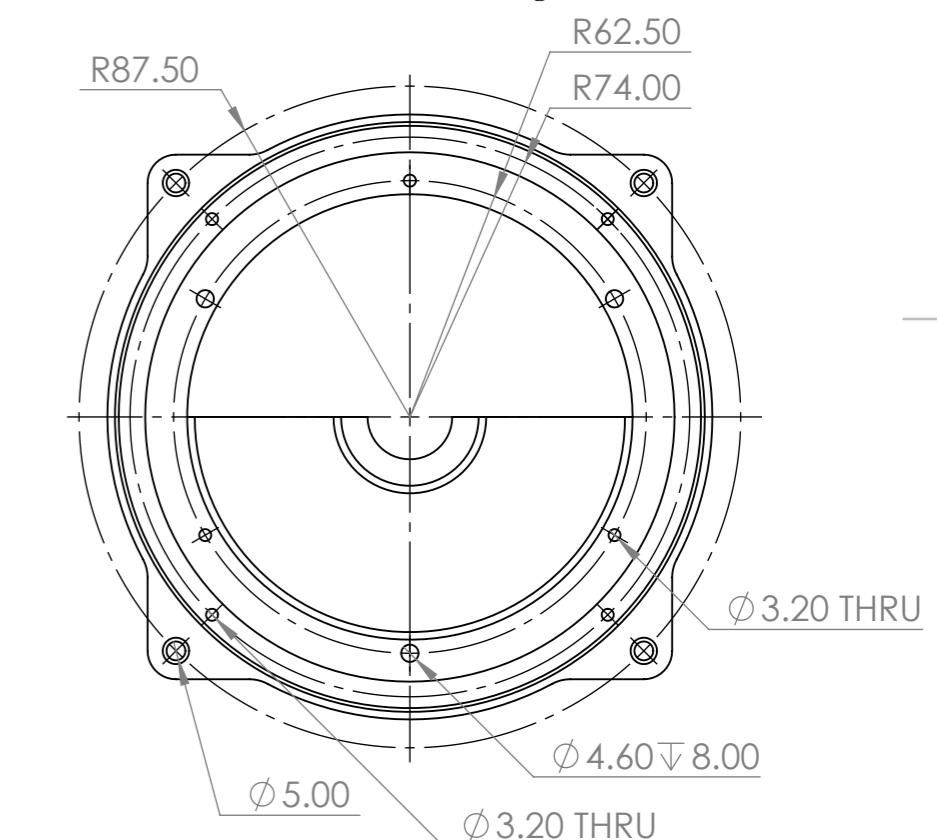
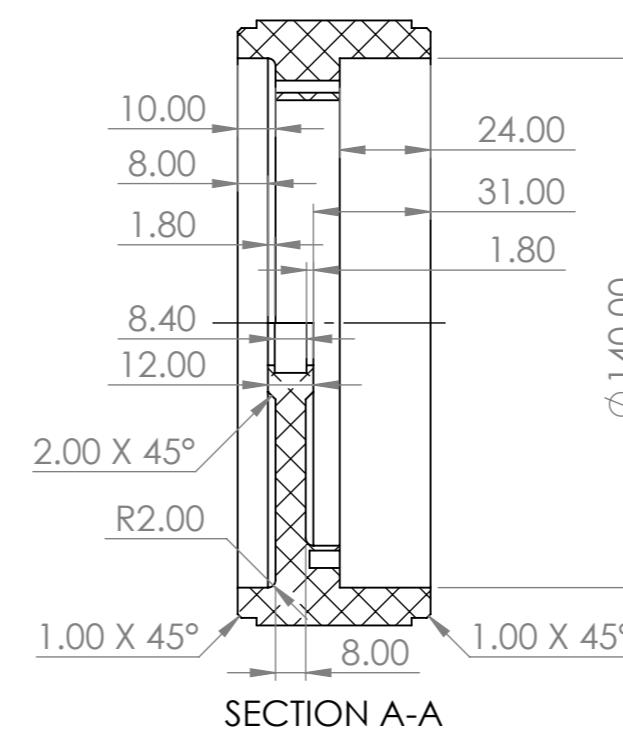
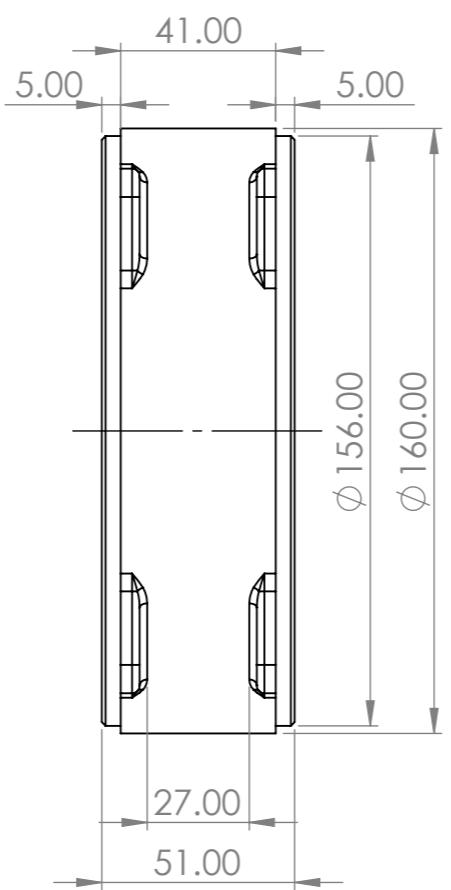
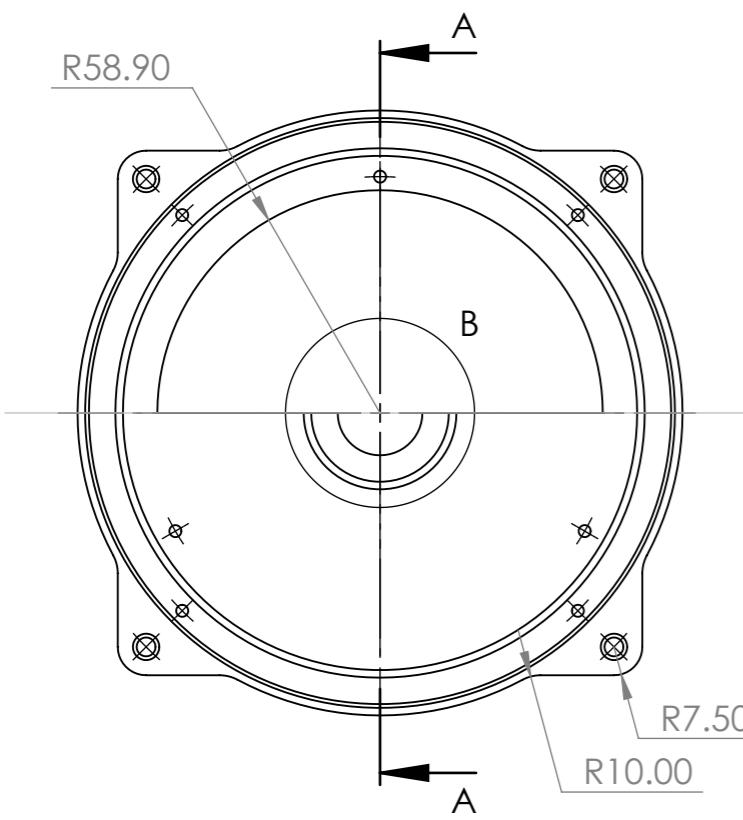
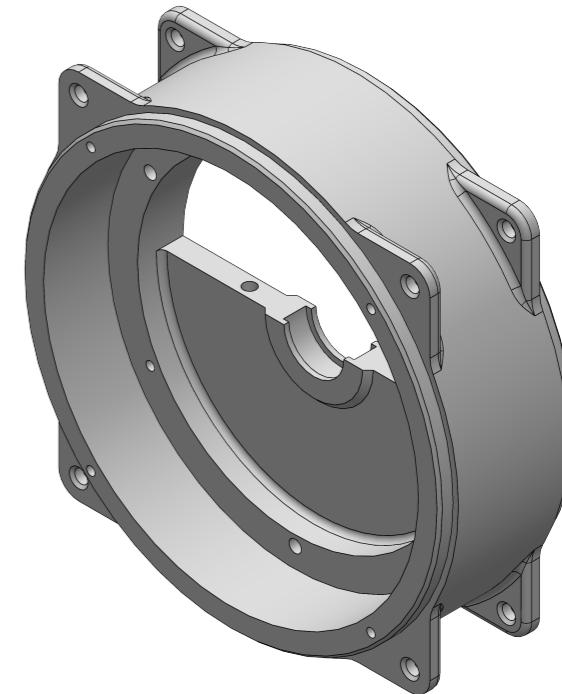
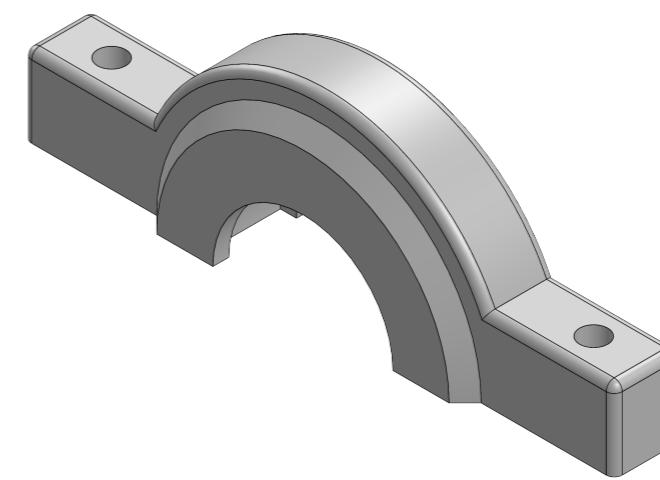
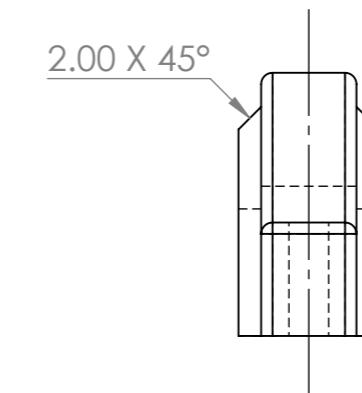
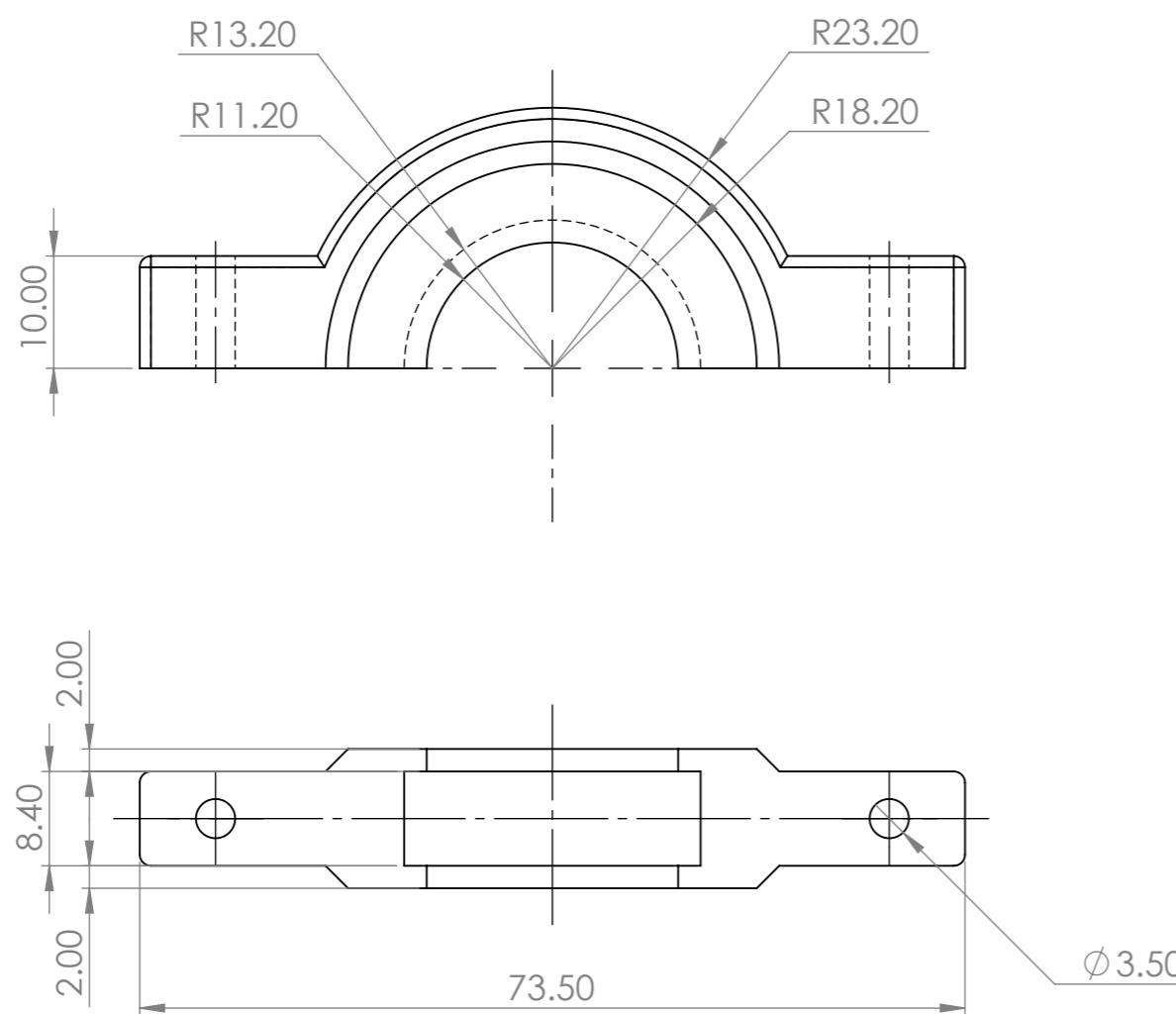


## Notes

The R13.20 mm in Detail B and 8.40 mm in Section A-A are the OD and thickness of a 6000 bearing plus 0.4 mm allowance for 3D printing.



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:			DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN	Adam Telfer	SIGNATURE	DATE			TITLE: <h1>Central Housing Body</h1>	
CHK'D			21/10/25				
APPV'D							
MFG							
Q.A			MATERIAL:	3D Print PLA	DWG NO.	C-02	A3
			WEIGHT:		SCALE:1:2	SHEET 2 OF 5	



## NOTES

All fillets are R1, unless specified otherwise.

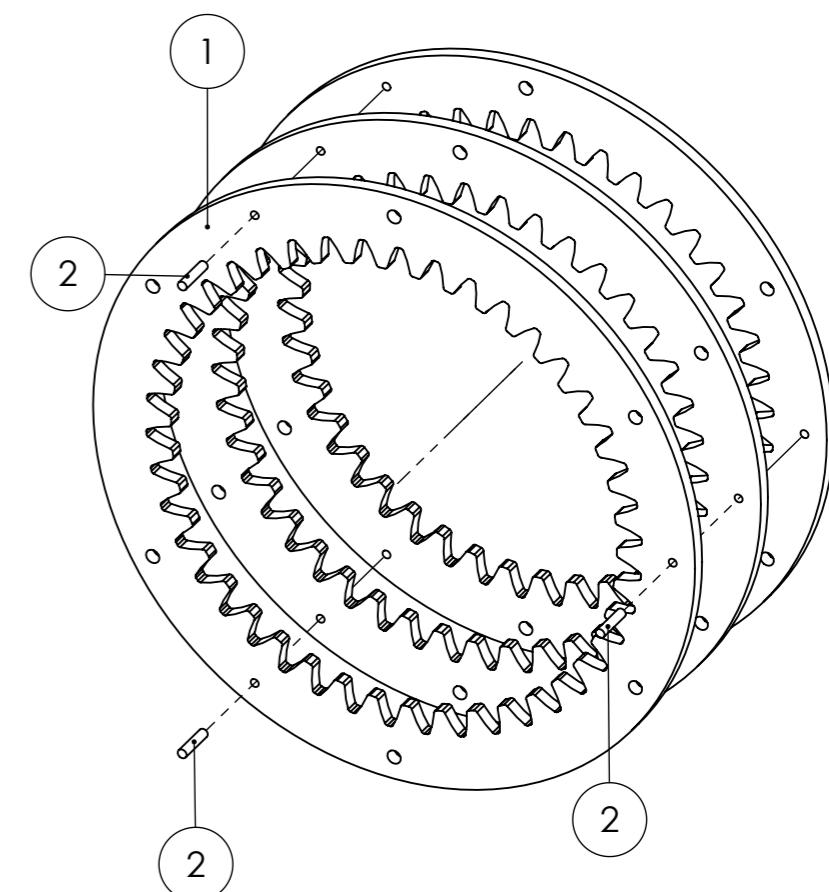
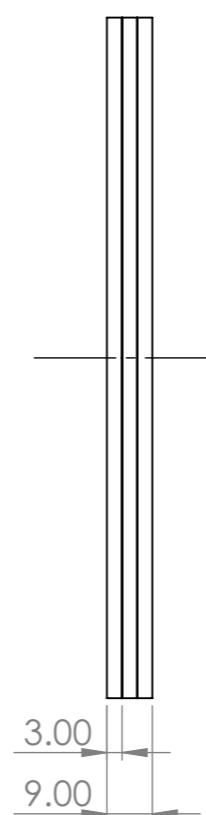
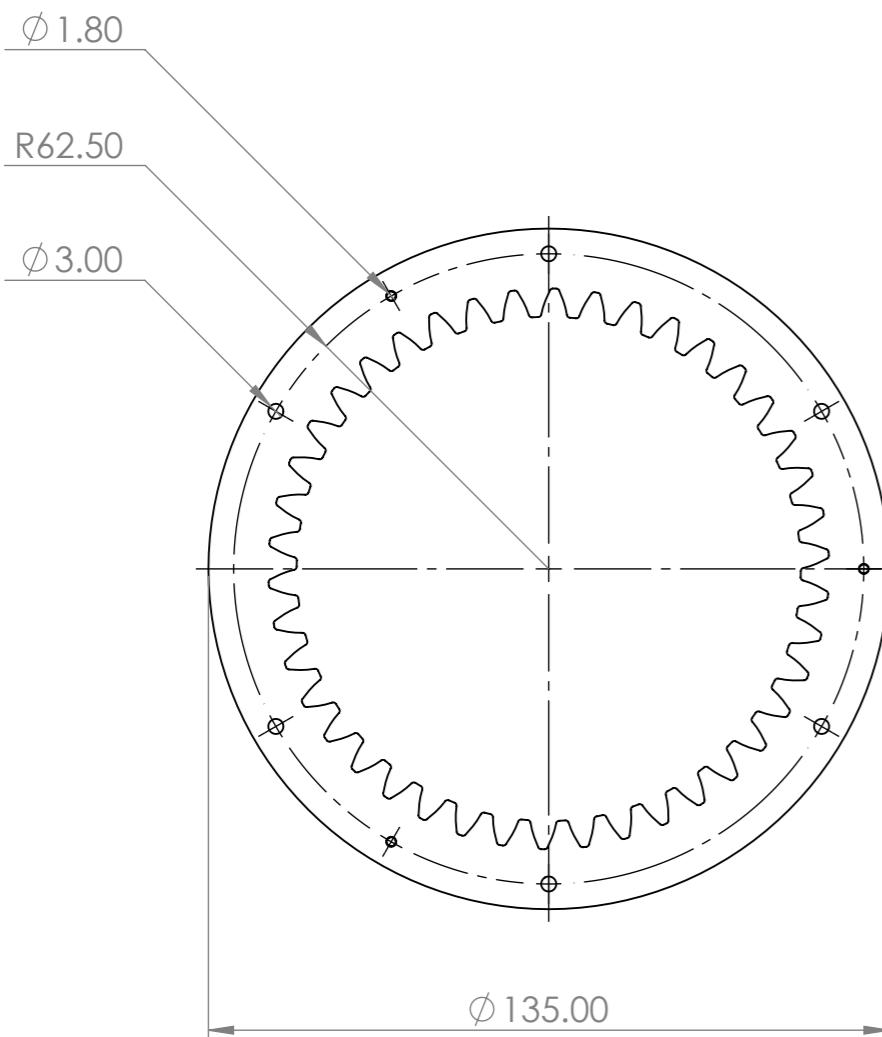
The R13.20 and 8.40 are the OD and thickness of a 6000 bearing plus 0.4 mm allowance for 3D printing.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:			DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN	NAME Adam Telfer	SIGNATURE	DATE 21/10/25			TITLE: <b>Central Housing Bearing Cover</b>	
CHK'D							
APP'D							
MFG							
Q.A			MATERIAL: 3D Printed PLA		DWG NO. <b>C-03</b>	A3	
			WEIGHT:	SCALE:3:2	SHEET 3 OF 5		
1	2	3	4	5	6	7	

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	Internal_Spur_Gear_Stage_2		3
2	Alignment_Pin		3



Internal Gear	
Module	2.5
Teeth	42
Pressure Angle	20 deg



## NOTES

Alignment pins are 2 mm brass rod. Rod is oversized for assembly then cut flush with gear face.

Gear layers are laser cut from 3 mm acrylic sheet. Layers are glued together with superglue.

UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:		FINISH:			DEBURN AND BREAK SHARP EDGES	DO NOT SCALE DRAWING	REVISION
DRAWN	NAME	SIGNATURE	DATE			TITLE:  <b>Stage 2 Ring Gear</b>	
CHK'D	Adam Telfer		21/10/25				
APP'D							
MFG							
Q.A			MATERIAL:		DWG NO.	C-04	A3
			Acrylic				
			WEIGHT:		SCALE:2:3	SHEET 4 OF 5	

8

7

6

5

4

3

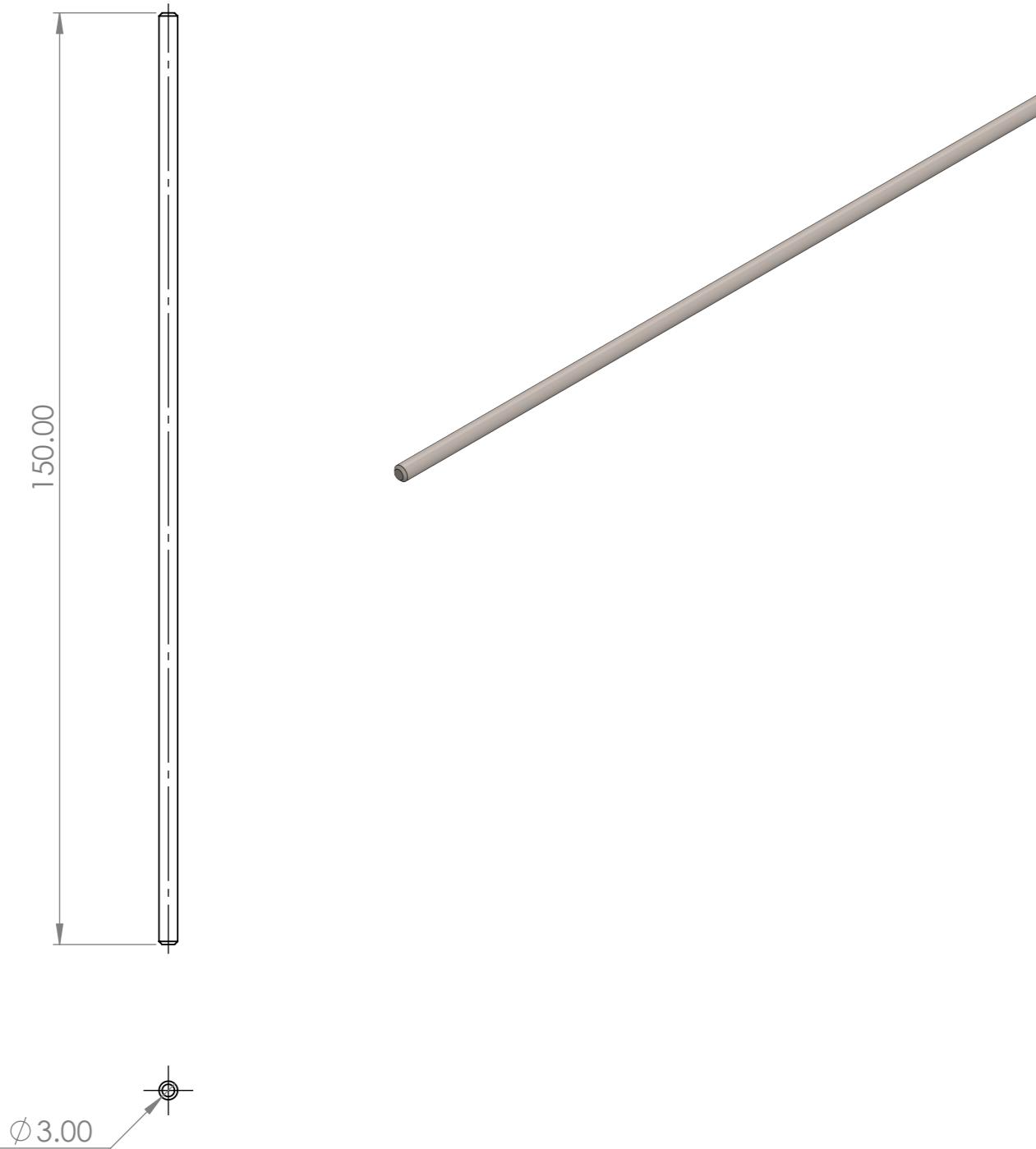
2

1

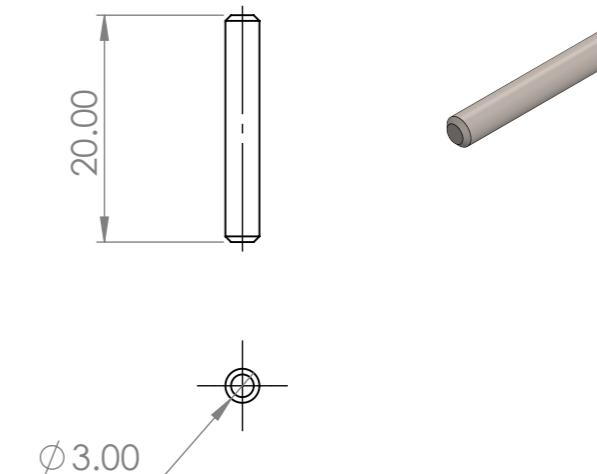
F

F

## Housing Alignment Rod



## Ring Gear Alignment Pin



UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MILLIMETERS SURFACE FINISH: TOLERANCES: LINEAR: ANGULAR:			FINISH:			DEBURR AND BREAK SHARP EDGES	DO NOT SCALE DRAWING		REVISION
DRAWN	NAME	SIGNATURE	DATE						
CHK'D			25/10/25						
APP'D									
MFG									
Q.A									
			MATERIAL:	Stainless Steel			DWG NO.		
			WEIGHT:				SCALE:1:1		
								SHEET 5 OF 5	