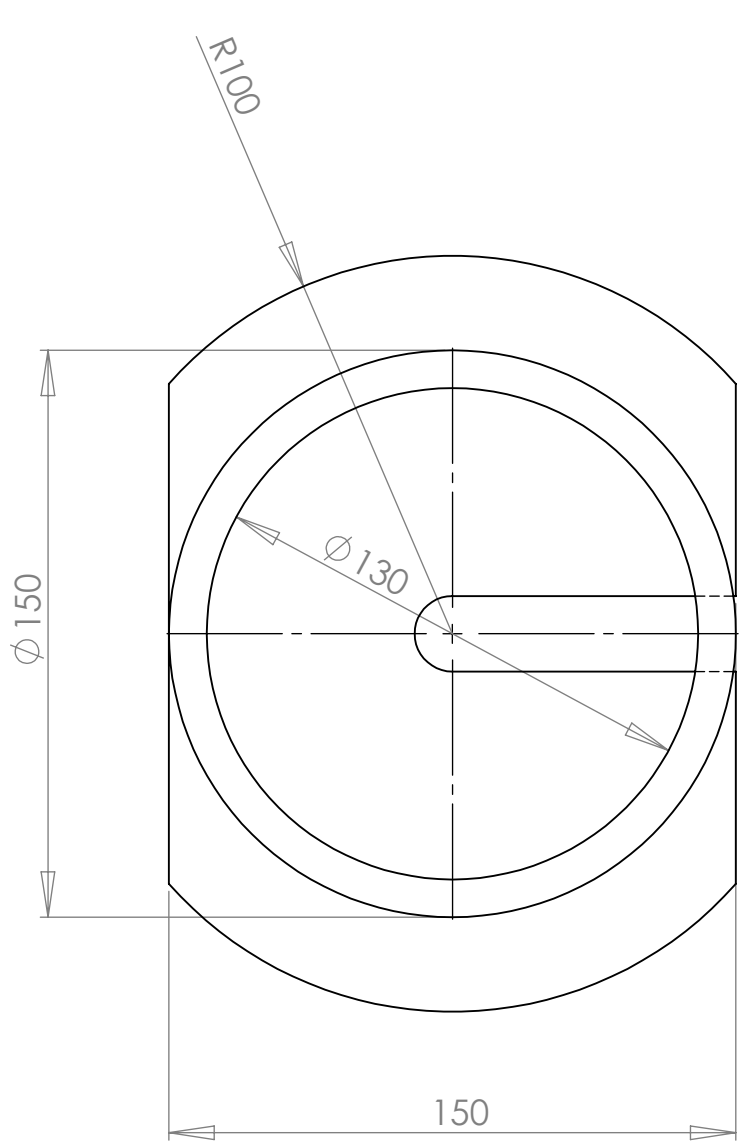
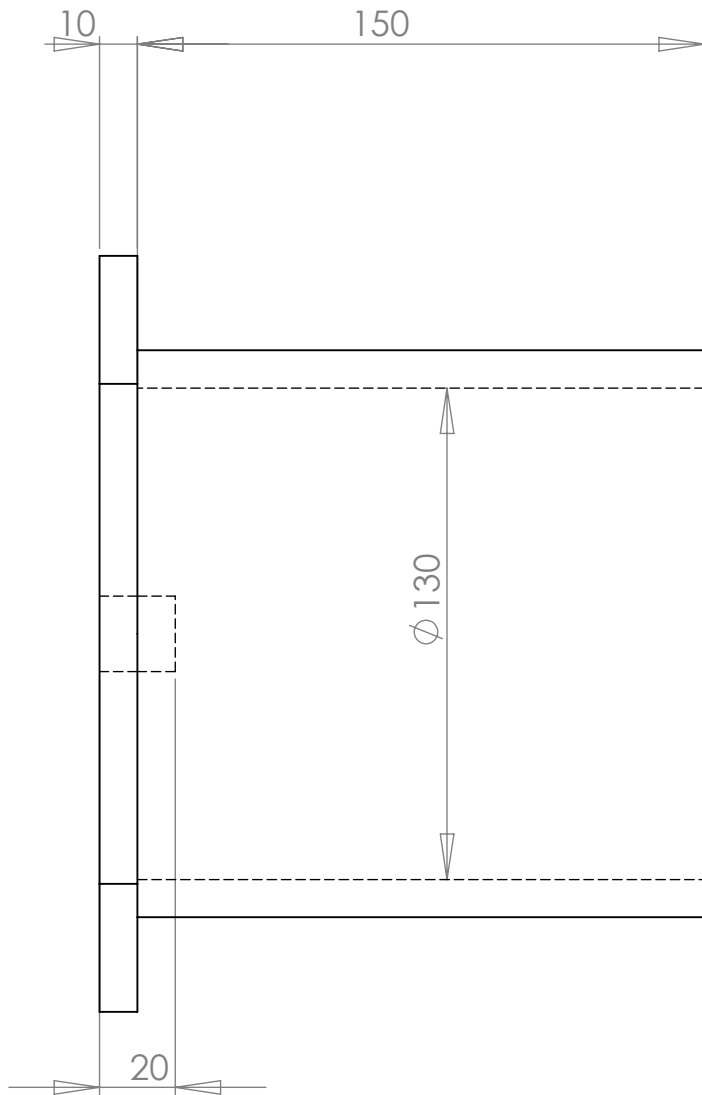


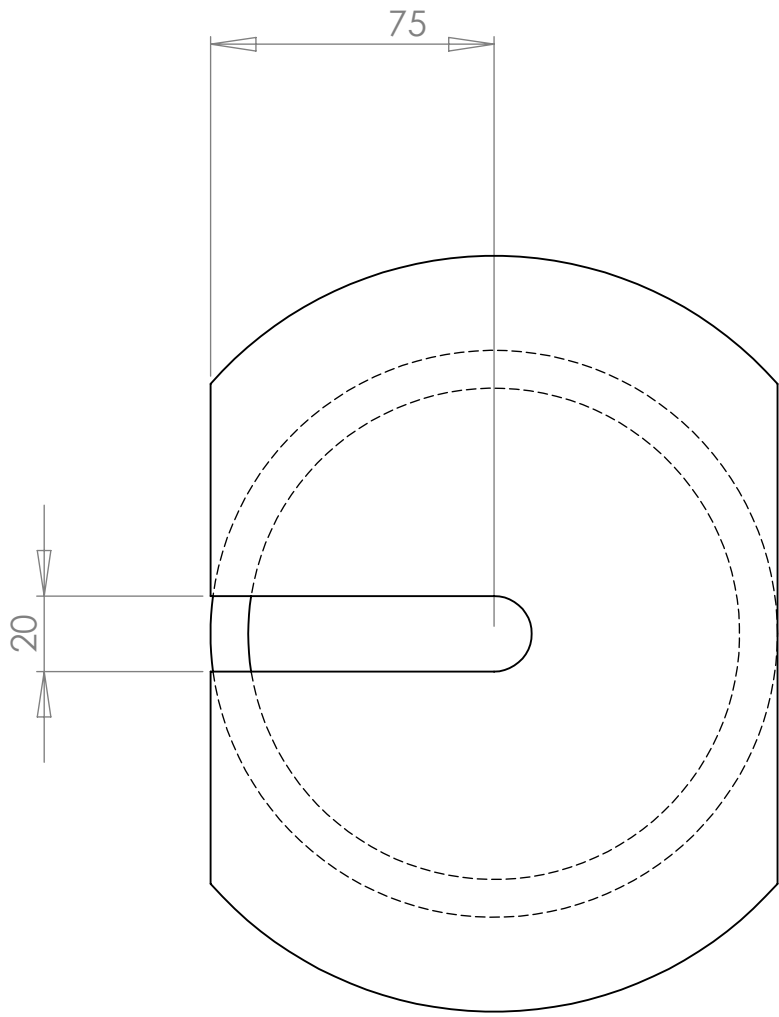
F
E
D
C
B
A



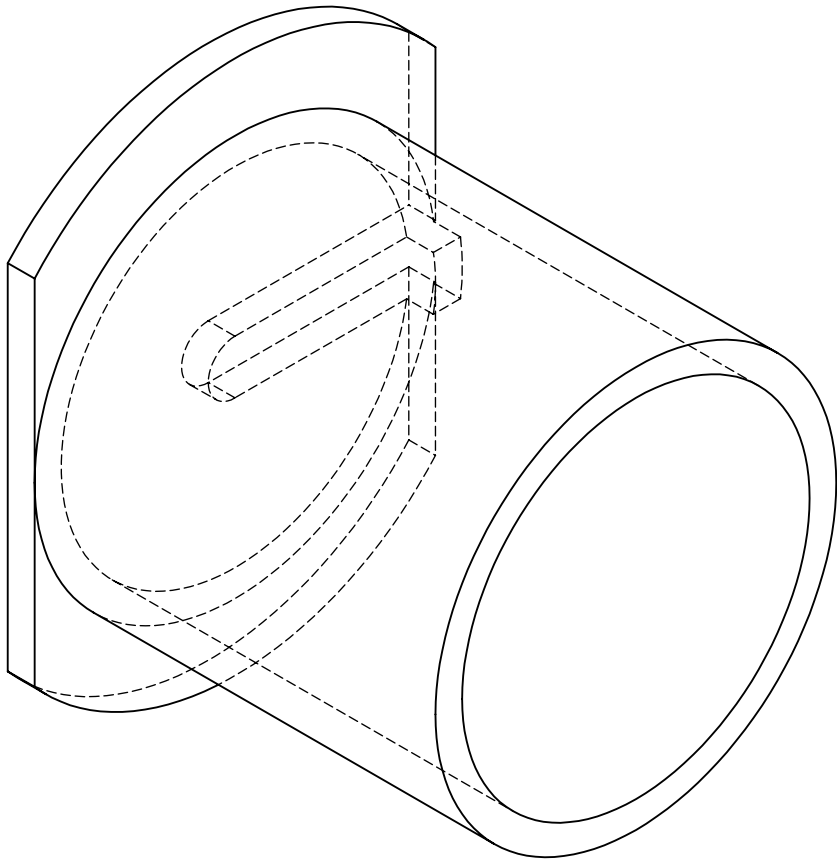
BOTTOM VIEW



SIDE VIEW



TOP VIEW



THE TOWER THRUST BEARING RETAINER IS THE HOUSING THAT CONTAINS THE THRUST BEARING WHICH IS RESPONSIBLE FOR ALLOWING THE NACELLE TO PIVOT FREELY ABOUT THE CENTRE OF THE TOWER WHEN SELF ADJUSTING TO THE DIRECTION OF ONCOMING WIND. THE CUP IS WELDED TO THE CENTRE OF THE GEARBOX BASE. THE THRUST BEARING SITS IN THE CUP AND RESTS UPON THE TOWER POST. THE TOWER POST IS SUPPORTED RADIALY BY A LARGE ROLLER BEARING AND AXIALLY BY THE THRUST BEARING WHICH Acounts for the force of the nacelle and rotor system.
A 20 x 20mm CHANNEL IS MACHINED INTO THE TOP OF THE CUP TO ALLOW THE ELECTRICAL WIRING TO PASS FROMT HE GENERATOR THROUGH THE THRUST BEARRING CUP AND TOWER PLUG, DOWN THROUGH THE CENTRE OF THE TOWER.

PROPRIETARY AND CONFIDENTIAL
THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF JOSUA KIRSCH. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF JOSUA KIRSCH IS PROHIBITED.

UNIVERSITY OF SOUTHERN QUEENSLAN	UNLESS OTHERWISE SPECIFIED:		NAME	DATE	KH3- 500 WIND TURBINE	
	DIMENSIONS ARE IN INCHES		DRAWN	J.KIRSCH	6/10/09	TITLE: THRUST BEARING CUP
	TOLERANCES:		CHECKED			
	FRACTIONAL: ±		ENG APPR.			
	ANGULAR: MACH ± BEND ±		MFG APPR.			
		TWO PLACE DECIMAL ±	Q.A.			SIZE DWG. NO. REV
		THREE PLACE DECIMAL ±	COMMENTS:			
		INTERPRET GEOMETRIC TOLERANCING PER:				SCALE: 1:2 SHEET 1 OF 1
		MATERIAL				
NEXT ASSY USED ON		FINISH				
APPLICATION		DO NOT SCALE DRAWING				