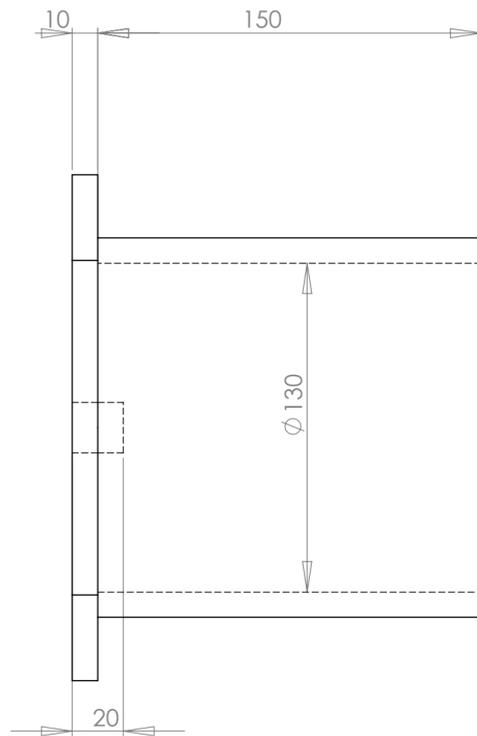
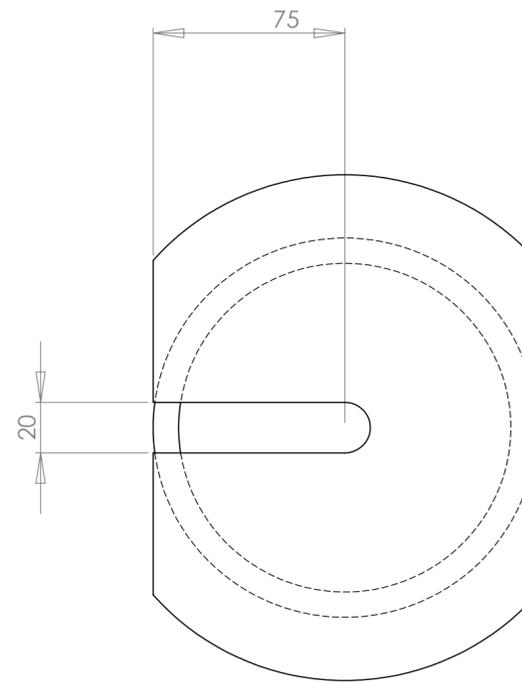


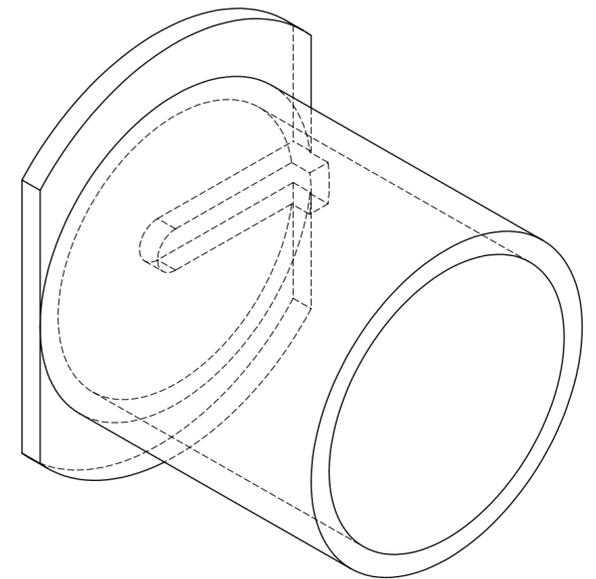
BOTTOM VIEW



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 RADIALLY BY A LARGE ROLLER BEARING AND AXIALLY BY THE THRUST BEARING WHICH ACCOUNTS 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 FROM THE GENERATOR THROUGH THE THRUST BEARING CUP AND TOWER PLUG, DOWN THROUGH THE CENTRE OF THE TOWER.

PROPRIETARY AND CONFIDENTIAL
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UNIVERSITY OF SOUTHERN QUEENSLAND	UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN J.KIRSCH 6/10/09	NAME DATE	KH3- 500 WIND TURBINE
	INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL	CHECKED		TITLE: THRUST BEARING CUP
	FINISH	ENG APPR.		SIZE DWG. NO. REV C 27
NEXT ASSY	USED ON	MFG APPR.		SCALE: 1:2 SHEET 1 OF 1
APPLICATION	DO NOT SCALE DRAWING	Q.A.	COMMENTS:	