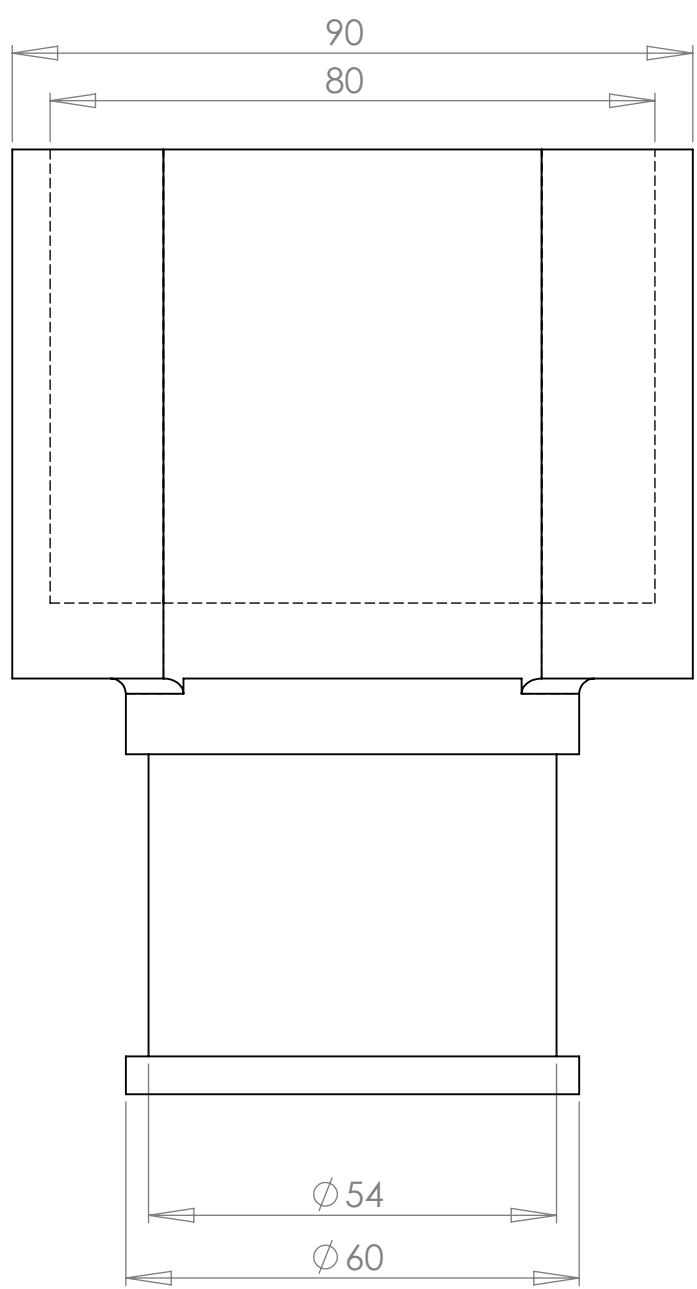
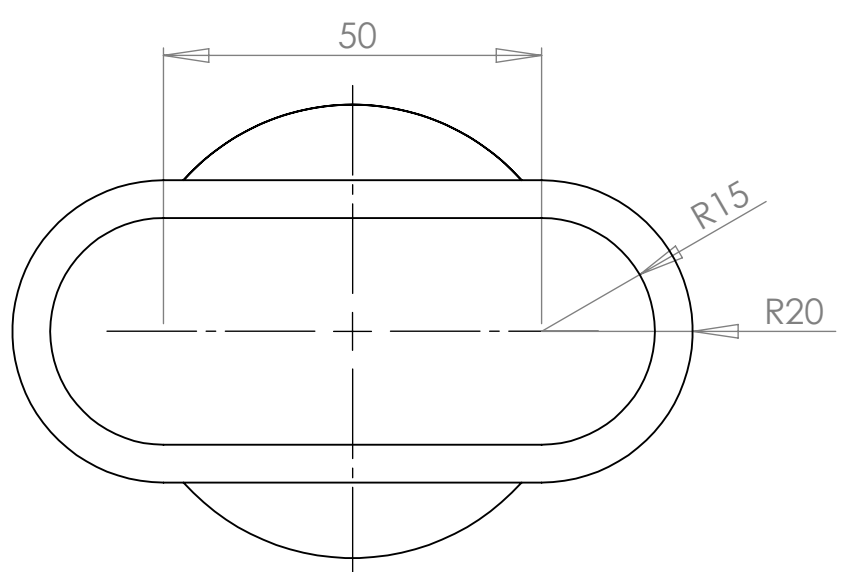


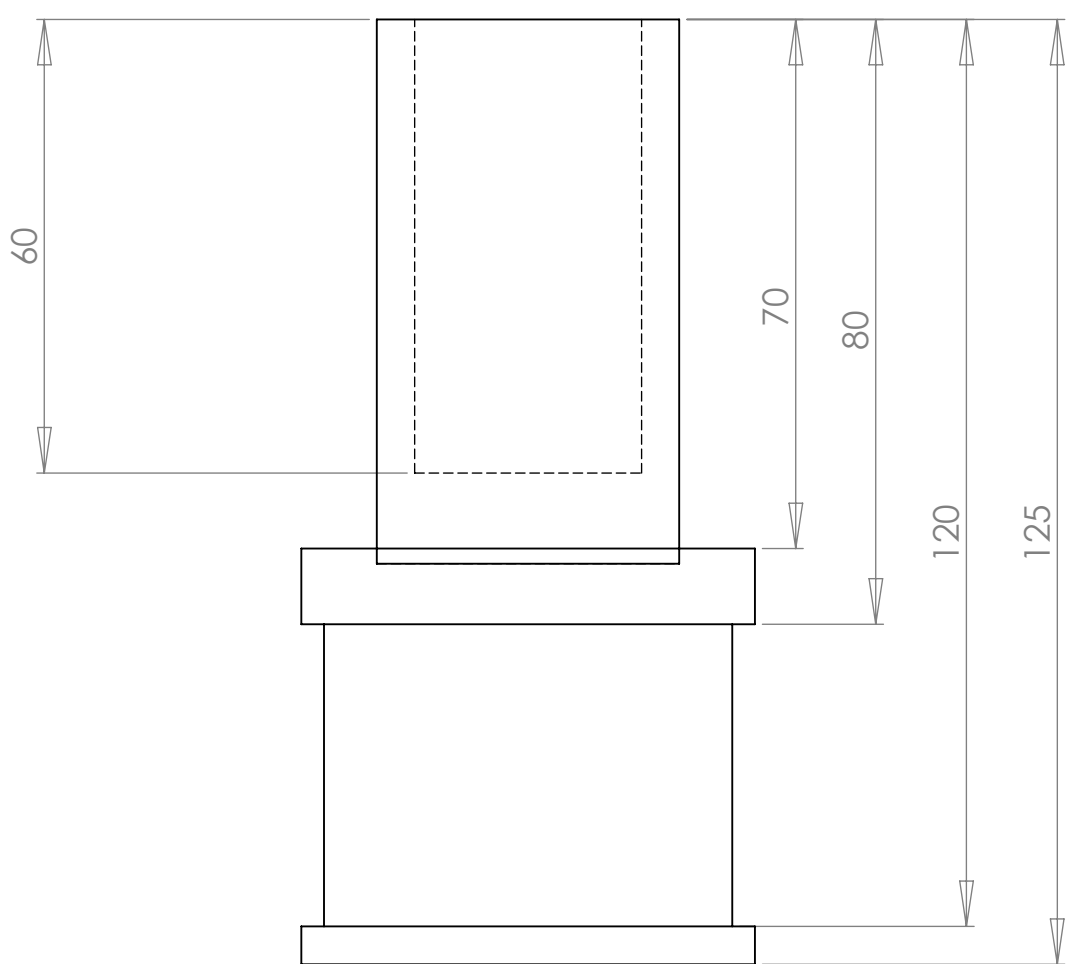
F  
E  
D  
C  
B  
A



FRONT VIEW

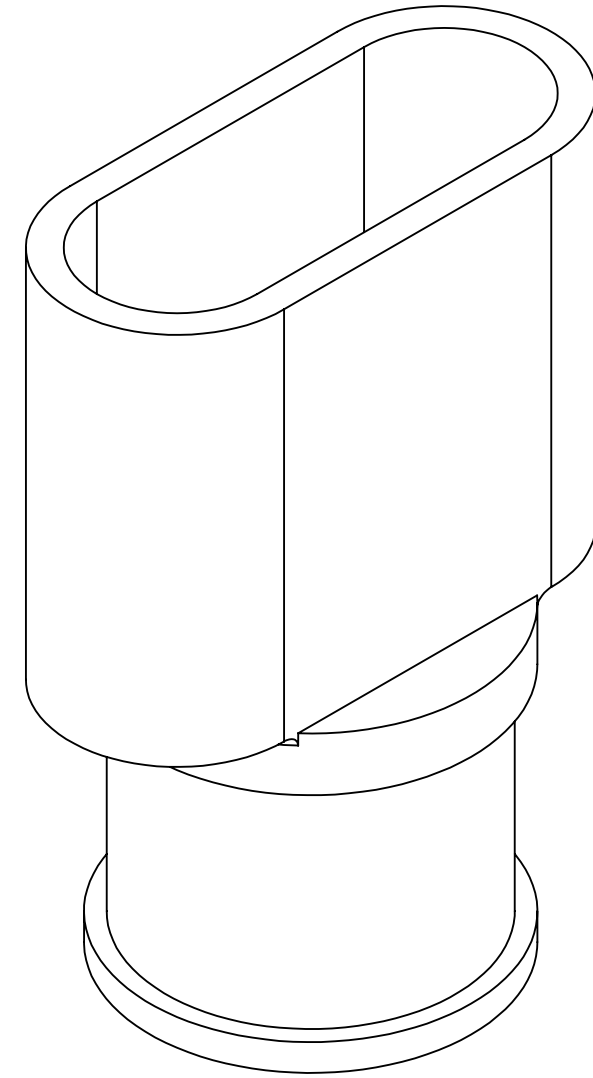


TOP VIEW



END VIEW

THE BLADE ROOT HOLDER IS THE MECHANISM THAT INTO WHICH THE BLADE PROFILE IS GLUED. THE BLADE ROOT HOLDER IS MECHANICALLY CLAMPED BETWEEN THE FRONT AND BACK HALF OF THE HUB. THE BLADE ROOT HOLDERS RELY ON CLAMPING FORCE TO MAINTAIN THEIR POSITION AND RIGIDITY. DUE TO THE NATURE OF THE CYLINDRICAL DESIGN OF THE HOLDER BASE, THE BLADE PITCH CAN BE ADJUSTED TO AN OPTIMUM LEVEL DEPENDING UPON THE AMOUNT OF ENERGY TO BE CONVERTED. THE UNIT IS MACHINED FROM SOLID ALUMINIUM.



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