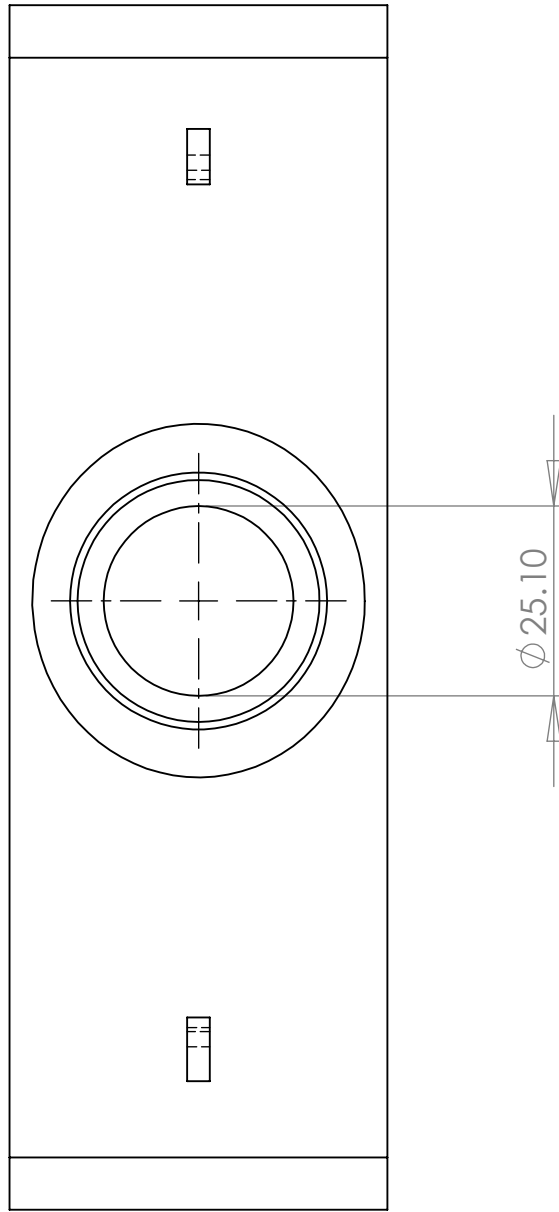
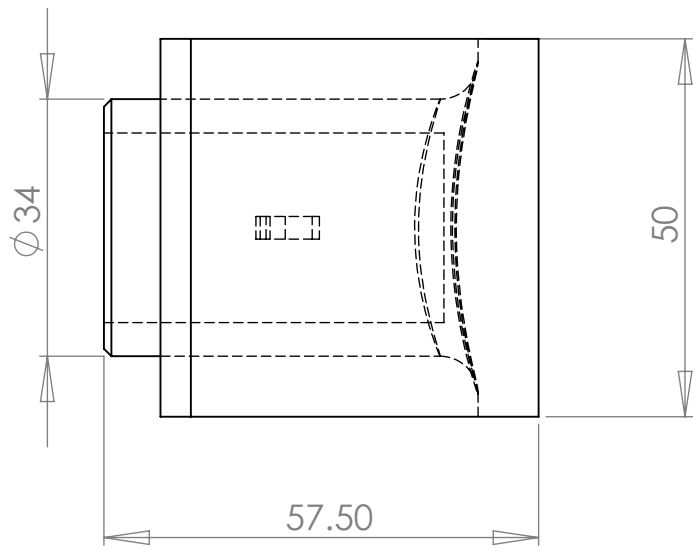


SIDE VIEW

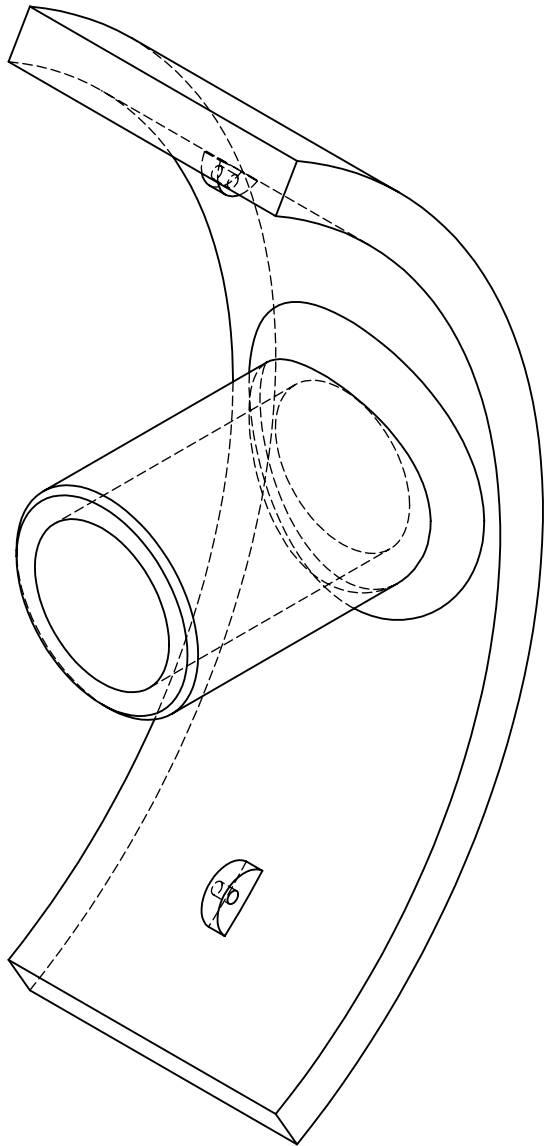


BOTTOM VIEW



END VIEW

THE BRAKE SHOE IS THE COMPONENT THAT APPLIES FORCE TO THE BREAK DRUM. OUTER SURFACE OF THE SHOE IS LINED WITH A HEAT RESISTANT COMPOSITE MATERIAL THAT RUBS AGAINST THE INNER BORE OF THE BRAKE DRUM. THE WEIGHT OF THE BREAK SHOE GREATLY INFLUENCES THE SPEED AT WHICH BRAKING FIRST OCCURS. THE SPRING CONSTANT AND THE WEIGHT OF THE BRAKE SHOE ARE THE TWO GOVERNING FACTORS THAT WILL INDUCE BRAKING AT A GIVEN ROTATIONAL SPEED. IF THE SPRING STIFFNES IS HELD CONSTANT THEN AN INCREASE IN THE WEIGHT OF THE BRAKE SHOE WILL DECREASE THE ROTATIONAL SPEED AT WHICH BRAKING FIRST OCCURS.



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UNIVERSITY OF SOUTHERN QUEENSLAN		UNLESS OTHERWISE SPECIFIED:		NAME		DATE		KH3- 500 WIND TURBINE					
		DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±		DRAWN		J.KIRSCH		6/10/09		TITLE: BRAKE SHOE			
				CHECKED									
				ENG APPR.									
				MFG APPR.									
		INTERPRET GEOMETRIC TOLERANCING PER:		Q.A.									
		MATERIAL		COMMENTS:				SIZE		DWG. NO.		REV	
NEXT ASSY USED ON		FINISH				C		23					
APPLICATION		DO NOT SCALE DRAWING				SCALE: 1:1				SHEET 1 OF 1			