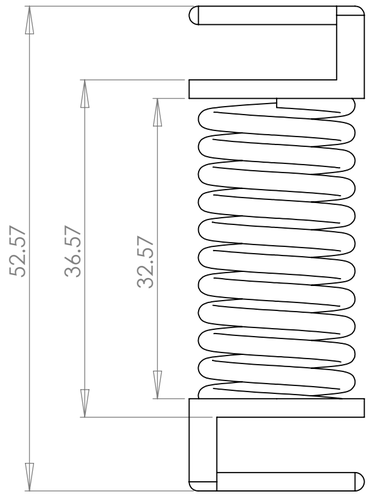
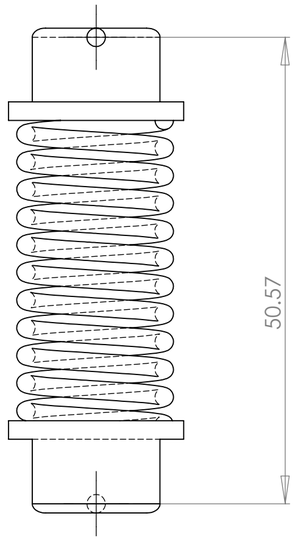
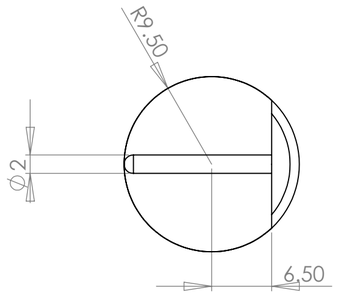


SIDE VIEW



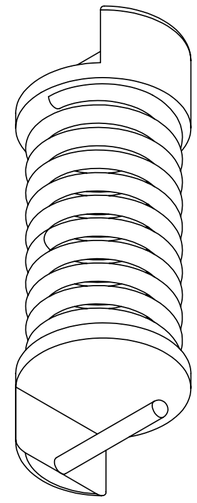
END VIEW

THE TENSION SPRING IS RESPONSIBLE FOR GOVERNING THE BRAKING FORCE BEING APPLIED AT A CERTAIN SPEED OF ROTATION.
THE GENERATOR'S RATED RUNNING SPEED IS 1000 RPM, THEREFORE THE TENSION SPRINGS NEED TO BE DESIGNED , OR SELECTED, TO BE ABLE TO STRETCH THE DISTANCE BETWEEN THE BREAK SHOE OUTER SURFACE AT A STATIONARY POSITION AND THE INSIDE OF THE BRAKE DRUM WHEN THE ROTATIONAL SPEED REACHES 1000 RPM.
CONSEQUENTLY THE BRAKE SHOE COMES INTO CONTACT WITH THE BREAK DRUM AND REDUCES THE ROTATIONAL SPEED.



TOP VIEW

UNLOADED, UNSTRETCHED POSITION



UNIVERSITY OF SOUTHERN QUEENSLAN	UNLESS OTHERWISE SPECIFIED:		NAME / DATE
	DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL ± ANGULAR: MACH ± BEND ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	J.KIRSCH 6/10/09
		CHECKED	
		ENG APPR.	
		MFG APPR.	
	INTERPRET GEOMETRIC TOLERANCING PER:	Q.A.	
	MATERIAL	COMMENTS:	
NEXT ASSY USED ON	FINISH		
APPLICATION	DO NOT SCALE DRAWING		

KH3- 500 WIND TURBINE

TITLE:

TENSION SPRING

SIZE	DWG. NO.	REV
C	24	

SCALE: 2:1 | SHEET 1 OF 1