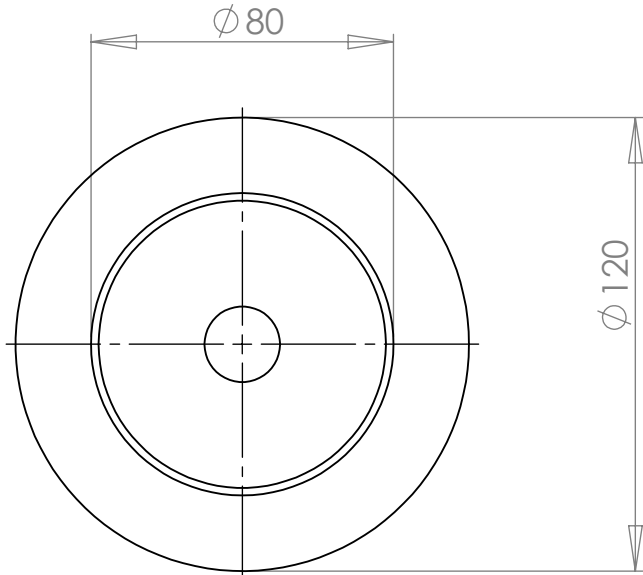
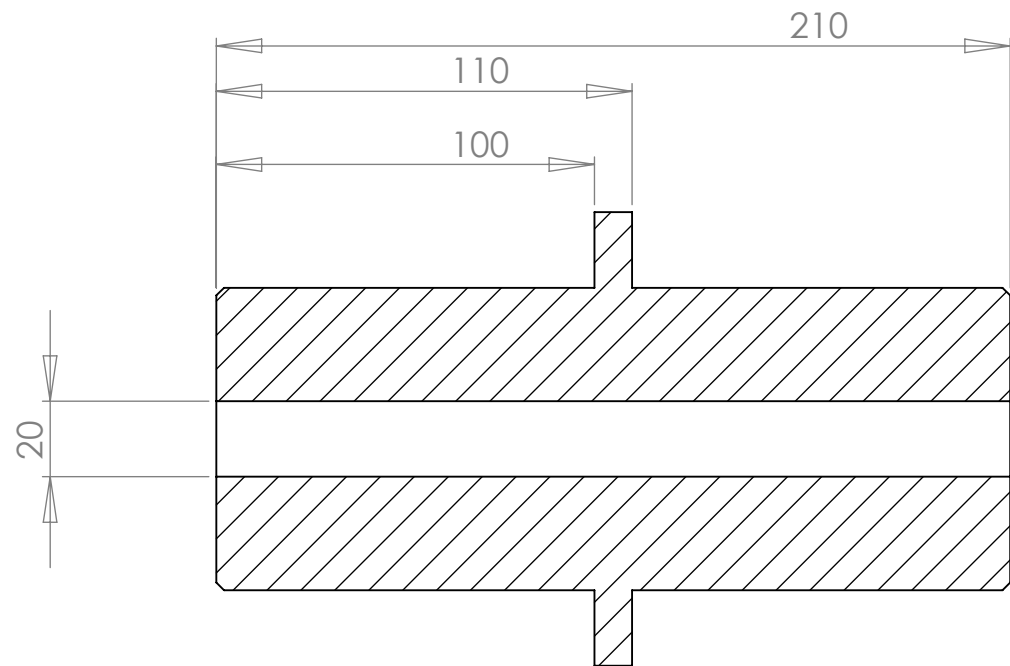


SIDE VIEW



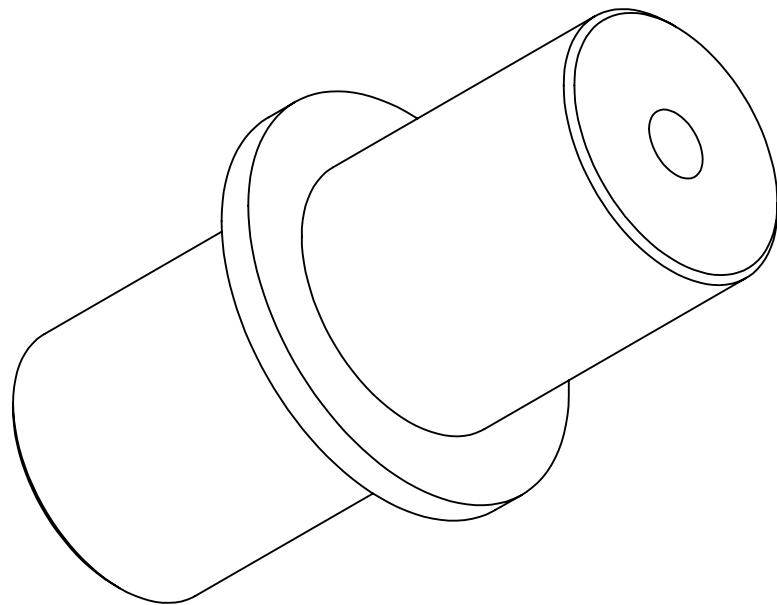
TOP VIEW



SECTION A-A

THE NACELLE PIVOT IS A TURNED STAINLESS STEEL PLUG THAT IS PRESSED INTO THE TOP OF THE TOWER. THE PLUG GESTS ON THE TOP OF THE TOWER ON ITS 10mm SHOULDER. THE OPPOSITE SIDE OF THE SHOULDER IS A LOCATION POINT FOR A ROLLER BEARIING WHICH RADIALLY SUPPORTS THE FREE MOTION OF THE NACELLE DURING YAWING ( ADJUSTING TO THE ONCOMING WIND DIRECTION) THE EXPOSED END OF THE PLUG SITS UP AGAINST THE THRUST BEARING IN THE THRUST BEARING. THE THRUST BEARING ENSURES THAT THE NACELLE IS ABLE TO FREELY ROTATE ABOUT THE CENTRAL TOWER AXIS.

THE PLUG IS INSERTED INTO THE TOP OF THE TOWER DURING ASSEMBLY AND ONCE ERECT SLIDES INTO THE THRUST BEARING CUP AT THE BASE OF THE GEARBOX HOUSING. THE 20mm BORE AT THE CENTRE OF THE PLUG ALLOWS THE WIRING TO PASS THROUGH THE PLUG AND DOWN THE TOWER TO ENERGY ENERGY DISTRIBUTION SYSTEM.



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UNIVERSITY OF SOUTHERN QUEENSLAN	UNLESS OTHERWISE SPECIFIED:  DIMENSIONS ARE IN INCHES TOLERANCES: FRACTIONAL: ± ANGULAR: MACH ± TWO PLACE DECIMAL ± THREE PLACE DECIMAL ±	DRAWN	J.KIRSCH	6/10/09	KH3- 500 WIND TURBINE		
		CHECKED			TITLE:  TOWER PLUG		
		ENG APPR.					
		MFG APPR.					
	INTERPRET GEOMETRIC TOLERANCING PER: MATERIAL	Q.A.			COMMENTS:		
NEXT ASSY	USED ON	FINISH					
APPLICATION		DO NOT SCALE DRAWING			SIZE	DWG. NO.	REV
					C	29	
					SCALE: 1:2		SHEET 1 OF 1