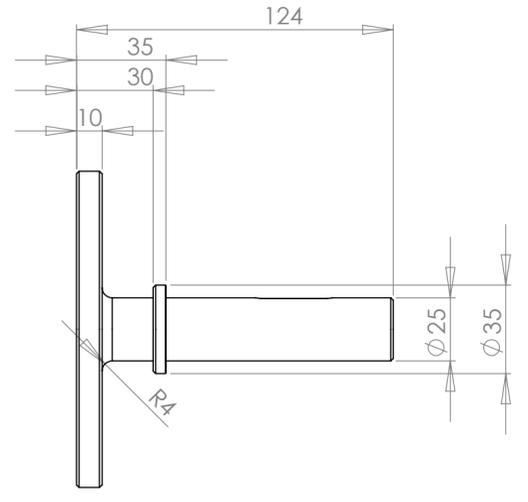
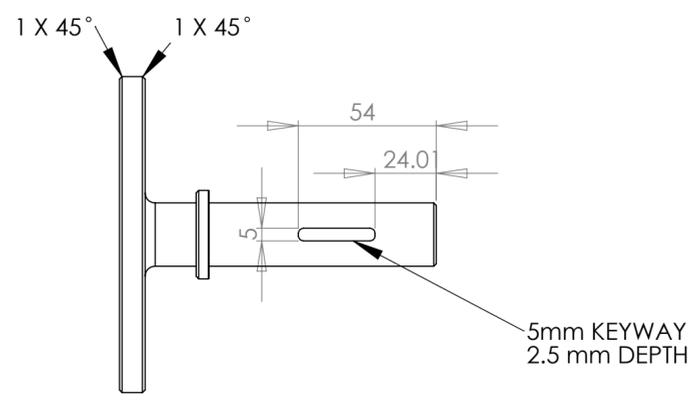


END VIEW

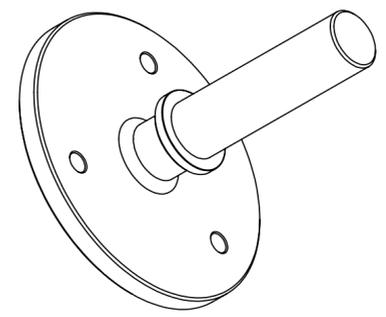


SIDE VIEW



TOP VIEW

THE DRIVE SHAFT IS A STAINLESS STEEL MACHINED SHAFT THAT TRANSMITS POWER FROM THE ROTOR SYSTEM TO THE GEARBOX. THE ROTOR HUB IS MECHANICALLY FASTENED TO THE SPIGGOT ON THE SHAFT USING 3 M10 BOLTS. THE RADIALY LOADING APPLIED BY THE ROTOR IS EVENLY DISTRIBUTED AROUND THE SPIGGOT OD WHILST THE BOLTS ONLY PROVIDE AXIAL CLAMPING FORCE. A 5mm KEYWAY IS MACHINED INTO THE TOP SURFACE OF THE 25mm ϕ SECTION OF THE SHAFT WHICH ACTS AS A DRIVING POINT FOR THE FIRST 72 TOOTH GEAR IN THE GEARBOX.



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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: |
| | | TOLERANCES: | | CHECKED | | | DRIVE SHAFT |
| | | FRACTIONAL \pm | | ENG APPR. | | | |
| | | ANGULAR: MACH \pm BEND \pm | | MFG APPR. | | | |
| | | TWO PLACE DECIMAL \pm | | Q.A. | | | |
| | | THREE PLACE DECIMAL \pm | | COMMENTS: | | | |
| | | INTERPRET GEOMETRIC TOLERANCING PER: | | | | | |
| | | MATERIAL | | | | | |
| | | FINISH | | | | | |
| NEXT ASSY | USED ON | | | | | | SIZE DWG. NO. REV |
| | | | | | | | C 6 |
| APPLICATION | | DO NOT SCALE DRAWING | | | | | SCALE: 1:2 SHEET 1 OF 1 |