**PROCESS SHEET FOR CNC MILLING**

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| **Name:** Bearing Mount | **Material:** Aluminium |
| **Stock Size:** 45 mm X 50 mm | **Checked By:** |
| **Prepared By:** | **Date:** |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **S. No.** | **Machine** | **Operation Description** | **Machine/Tool required** | **Operation time (min)** | **Credit**  |
| 1 | CNC Milling Machine | Design of part, generation of codes and simulation | Inventor | 30 | 50 |
| 2 | Machine and workpiece set up and referencing | CNC milling | 20 | 20 |
| 3 | Face milling -Finish on the top surface. | CNC milling machine /face mill cutter  | 10  | 20 |
| 4 | End milling-coarse cutting and finish the sides of block | End mill cutter | 20 | 20 |
| 5 | Face milling – finish on the bottom surface  | CNC Milling machine / face mill cutter | 10 | 20 |
| 6 | Drill pilot hole for large through hole 8 mm. | CNC milling machine / drill press (dia -8mm) | 10 | 20 |
| 7 | End milling for counter bore the dia from 8 mm to 15 mm  | CNC milling machine (dia -8 mm) | 10 | 20 |
| 8 | End milling for counter bore the dia from 8 mm to 24 mm | CNC milling machine (dia -8 mm) | 10 | 20 |



Learning outcome:

* Designing and generation of codes
* Workpiece alignment
* How to use CNC milling machine?
* Face milling
* End milling