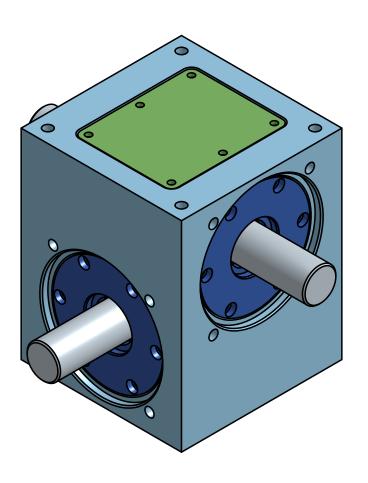
|--|

| Item | Name                    | Material   | Volume (mm^3) | Mass (kg) |  |
|------|-------------------------|------------|---------------|-----------|--|
| 1    | Gearbox Housing         | Cast Iron  | 1,078,360     | 7.522     |  |
| 2    | Bearing and Seal Cap    | Steel 8620 | 48,937        | 0.384     |  |
| 3    | Shaft                   | Steel 8620 | 124,254       | 0.975     |  |
| 4    | Bearing Assembly        | Purchased  |               |           |  |
| 5    | Access Hole Seal        | Neoprene   | 4,632         | 0.006     |  |
| 6    | Access Cover            | Steel 1020 | 18,921        | 0.149     |  |
| 7    | Helical Gear (Provided) | Steel 8620 | 36,360        | 0.285     |  |

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| UNLESS OTHERWISE SPECIFIED,<br>DIMENSIONS ARE IN INCHES |                 | NAME        | DATE       | Ferris State University                       |  |  |
|---|-----------------|-------------|------------|---|--|--|
| .XX = ±.0-<br>.XXX = ±.00- ANGULAR = ± °                | DRAWN           | BRIAN BRADY | 08/14/2019 | 1 erris state orniversity                     |  |  |
| .XXXX = ±.000- FRACTIONAL = ±  SURFACE FINISH /         | CHECKED         |             |            | Masses and Volumes<br>Gearbox Top-Down Design |  |  |
| SURFACE FINISH  | APPROVED        |             |            |   |  |  |
| DO NOT SCALE DRAWING                                    |                 |             |            | Multi-Part Studio                             |  |  |
| BREAK ALL SHARP EDGES AND<br>REMOVE BURRS               |                 |             |            | SIZE DWG NO. REV.                             |  |  |
| THIRD ANGLE PROJECTION                                  | MATERIAL VOLUME |             |            | $^{1322}A$ $^{100}M7$                         |  |  |
| $  \oplus \subseteq  $                                  |                 | XXXXX       | K mm³      | SCALE 1:2 WEIGHT X.XXX kg SHEET 1 of 4        |  |  |

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