# Flowchart

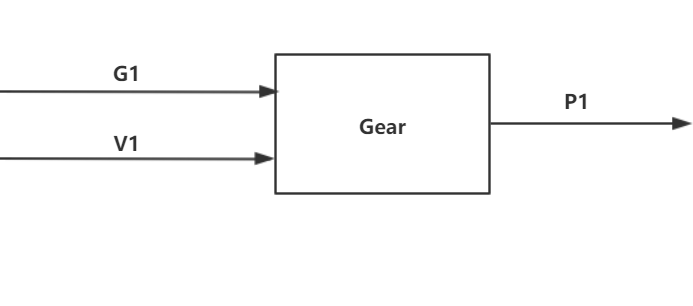


Figure 1 Gear component flowchart

# Table of limits

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Interaction | Symbol | Min. | Max. | Unit |
| -> G1 | | | | |
| *Data from motor calculation* | | | | |
| Motor torque output |  | 0 | 3500 | Nm |
| Motor rotation speed ouput |  | 0 | 2200 | rpm |
| -> V1 | | | | |
| *Data from user interface sub-system (input block)* | | | | |
| Gear friction coefficient |  |  |  |  |
| Gear transmission ratio |  | 0,1 | 10 | # |
| Gear index circle pressure angle |  | 15 | 25 |  |
| Gear index circle diameter of driving wheel |  | 0 | - | m |
| Gear addendum radius |  | 0 | **-** | m |
| Gear dedendum radius |  | 0 | - | m |
| Gear tooth number |  | 0 | **-** | **-** |
| Gear tooth width ratio |  | 0 | 1 | - |
| Gear modulus |  | 0 | - | - |
| Gear immersion depth ratio |  | 0 | 1 | - |
| Gear lubricant viscosity |  | 0 | **-** | **-** |
| Gear lubricant density |  | 0 | - |  |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| -> P1 | | | | |
| *Data to bearing calculation* | | | | |
| Gear power loss |  | 0 | 8400 | W |
| Gear torque output |  | 0 | 3500 | Nm |
| Gear rotation speed output |  | 0 | 2200 | rpm |