Gear Design For Solidworks

For ANSI Metric gears

U specify:

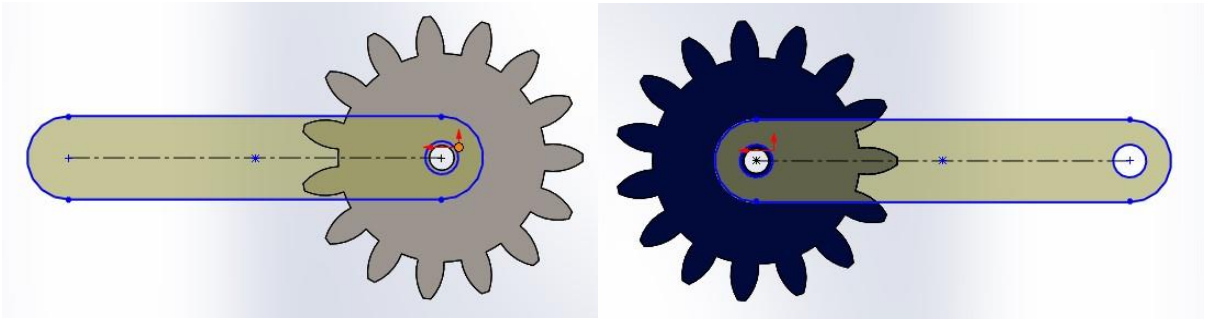
- **Module.**
- **Number of teeth.**
- **Pressure Angle (14.5, 20).**
- **Face width.**
- **Hub style (one side, both sides).**
- **Nominal Shaft diameter.**
- **Keyway.**

U calculate:

Pitch diameter P = module * no. of teeth

Save Gear After selecting parameters as part & open it, start sketching gear additionals like the following.

- **Interconnected gears must be of the same module.**
- **For interconnection symmetrically draw additionals as follow.**



- **To check motion. Make assembly and do that**
  - ✓ **Sketch Circle for each gear with the same pitch diameter.**
  - ✓ **Mate each gear with its circle.**
  - ✓ **Make sure no intersection between Gears @ interconnected point.**
  - ✓ **Select move component tool and choose physical Dynamics.**
  - ✓ **Start rotating any gear.**