

A double stage gear reducer with an output vertical shaft as shown in the figure below, is driven by an electric motor (uniform drive) that rotates at n_{motor} rpm with a Power equals to P Watt. the machine is considered as a **moderate shock** driven machine. The two stage gear reducer is **commercial enclosed gearing**. The first reducer is a bevel gear set, while the second is a helical gear set.

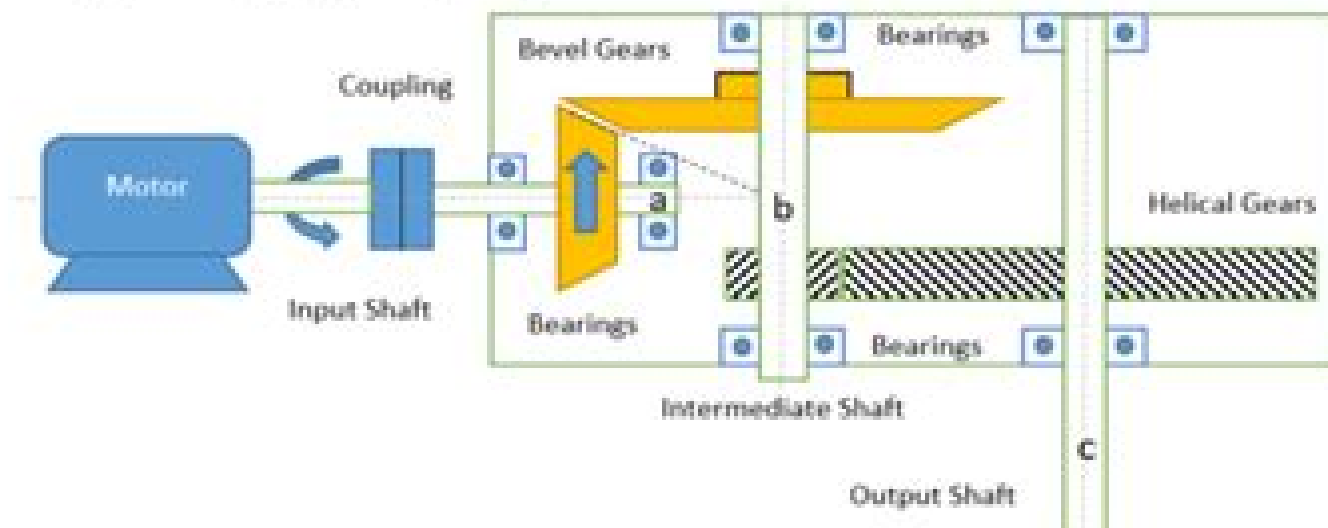
The straight bevel gear set is composed of a pinion on shaft (a) with N_p teeth and a driven gear on shaft (b) with N_g teeth. The face width is to be deduced (smaller of $10m$ and $A_w/3$), 20° pressure angle, and a module of m mm.

The Helical gear set consists of a pinion on shaft (b) with 20 teeth and a driven gear on shaft (C) with 120 teeth. The face width is 40 mm, 20° pressure angle, ψ Helix angle (Hand) and a 4 mm normal module.

The bevel and Helical gear sets are manufactured from AISI 1040 Q&T steel with $S_{ut}=779$ MPa, $E=207$ GPa, $\nu=0.3$. The Gear Material is **Grade 1 through-hardened steel** with surface hardness of H_{Bp} (pinion) and H_{Bg} (gear). Gears are manufactured with quality number $Q_v=9$, all teeth are crowned. The gearbox is **adjusted at assembly** and the required life of the gear sets is **12000 working hours**, with a **reliability of 90%**.

It is required to determine:

- The output rotational direction, speed and torque.
- The magnitude and directions of the forces acting on shaft (b)
- The safety factor due to bending and surface fatigue of the first stage (Bevel gear-set pinion and gear).
- The safety factor guarding against bending fatigue only of the second stage (Helical gear-set pinion and gear) (Use $C_{pm}=1$).



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