

## GEAR DATA

Group/Problem Code:

Group Member: (i) <Roll No> <Name>

(iii)

(ii)

(iv)

Problem:

Power:

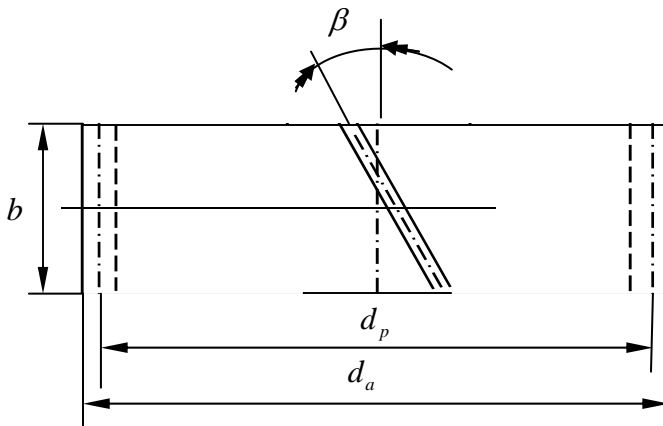
Input rpm:

Output rpm:

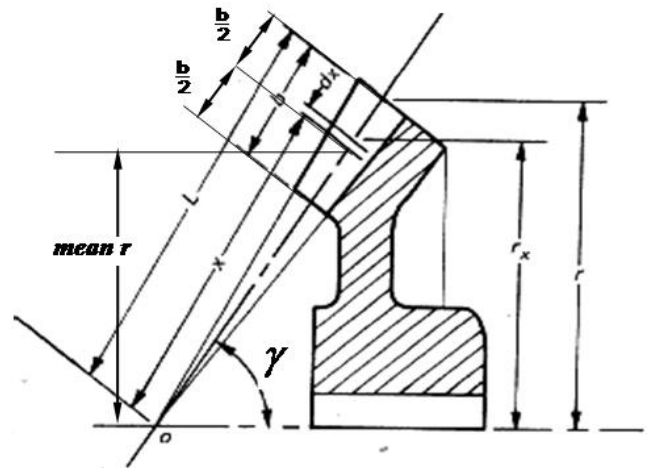
Gear box type:

Loading type:

Lubrication type:



Helical Gear



Bevel Gear

| Sl. No.   | Description                             | First Stage (Straight Bevel)          |      | Second Stage (Helical) |      |
|---|---|---------------------------------------|------|------------------------|------|
|   |   | Pinion                                | Gear | Pinion                 | Gear |
| 1.  | Number of Teeth, $Z$                    |                                       |      |                        |      |
| 2.  | Profile                                 | 20° Involute, Full Depth, Uncorrected |      |                        |      |
| 3.  | Normal Module, $m_n$ (mm)               |                                       |      |                        |      |
| 4.  | Helix angle, $\beta$ (Degree)           | —                                     | —    | RH                     | LH   |
| 5.  | Cone Angle, $\gamma$ (Degree)           |                                       |      | —                      | —    |
| 6.  | Back Cone Angle (Degree)                |                                       |      | —                      | —    |
| 7.  | Pitch Circle Diameter*, $d_p$ (mm)      |                                       |      |                        |      |
| 8.  | Centre Distance, $A$ (mm)               | —                                     |      |                        |      |
| 9.  | Tip/Addendum Circle Dia. *, $d_a$ (mm)  |                                       |      |                        |      |
| 10.   | Addendum Height*, $f_a \times m_n$ (mm) |                                       |      |                        |      |
| 11.   | Dedendum Height*, $f_d \times m_n$ (mm) |                                       |      |                        |      |
| 12.   | Face Width, $b$ (mm)                    |                                       |      |                        |      |
| 13.   | Material                                |                                       |      |                        |      |
| 14.   | Surface Hardness (BHN)                  |                                       |      |                        |      |
| Note: i) * In case of Bevel Gear these are mean values i.e., at $b/2$ . |   |                                       |      |                        |      |