

If more than two gears are used in a system, it is called a gear train.

Gear Terminology

Pitch refers to the distance between any on one tooth to the same point on the next tooth.

The **pitch circle** is the circle with radius up to around half the teeth's height, where they contact one another.

Pitch point is the teeth contact point.

Root is the bottom part of the wheel.



Velocity Ratio

When two gears mesh their teeth and profile must be the same.



$$GVR = \frac{N_{d1}}{N_{d2}} = \frac{d_{d2}}{d_{d1}} = \frac{N_{d2}}{N_{d1}} = \frac{d_{d1}}{d_{d2}}$$

GVR = gear ratio

ω_{d1} = angular velocity - driver

ω_{d2} = angular velocity - driven

N_{d1} = number of teeth - driver

N_{d2} = number of teeth - driven

d_{d1} = diameter - driver

d_{d2} = diameter - driven

τ_{d1} = torque - driver

τ_{d2} = torque - driven

- This means that there is a relationship between the number of teeth and the diameter of the gears.

Mechanical Gears Study Guide

S Ben Porath



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