

# Machine Drawing

## Lecture 5

Dr./ Ahmed Nagib

November 1, 2015

# GEARS

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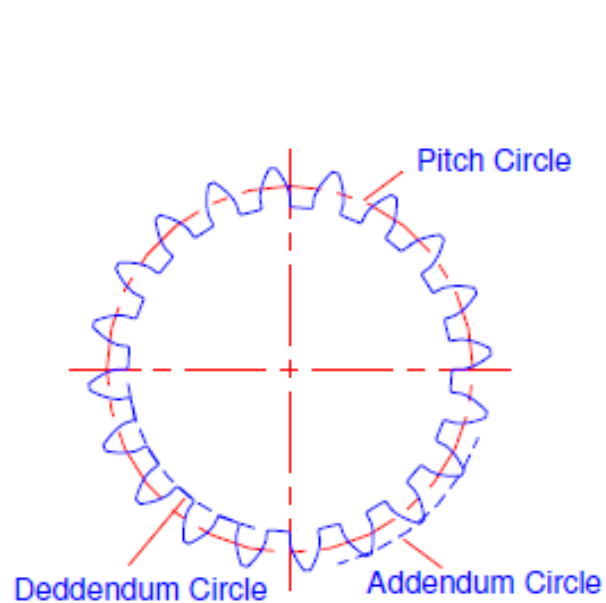
## Gears Types



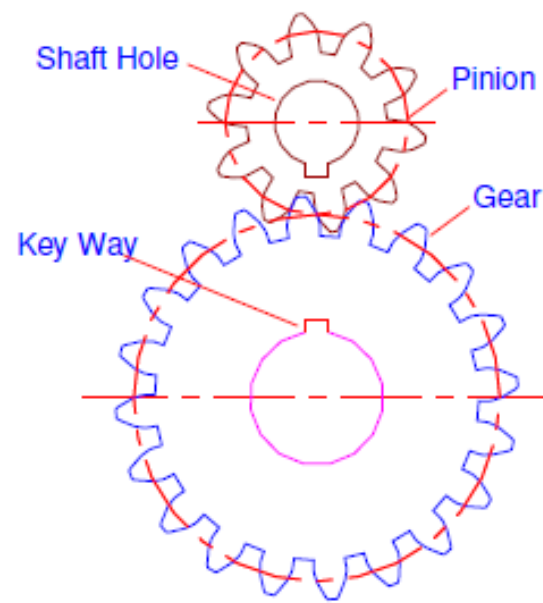
# GEARS

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## Spur Gears

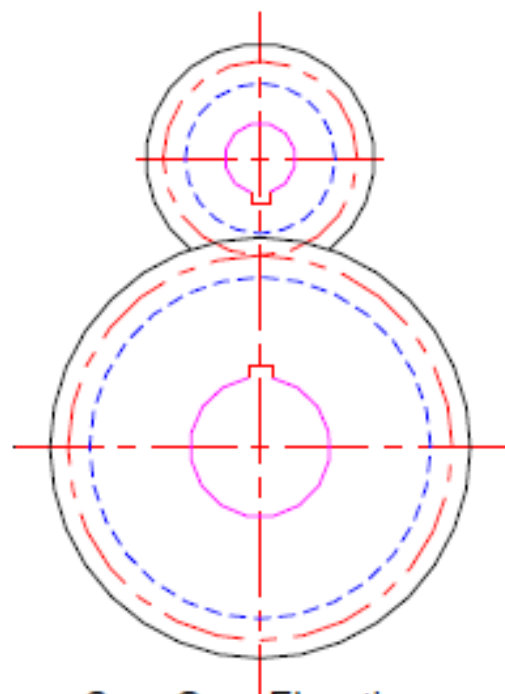


Spur Gear Geometry

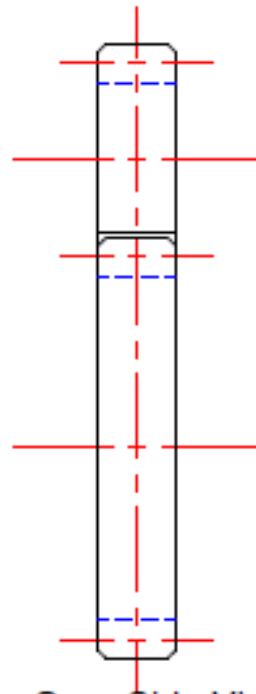


Spur Gear Pair

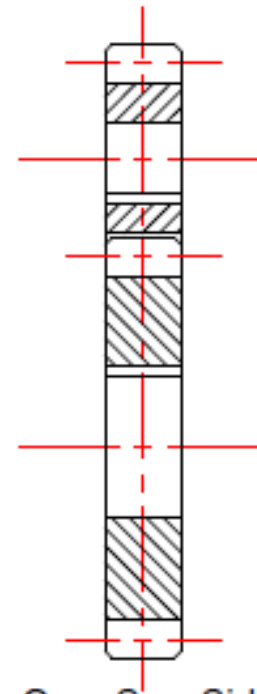
## Spur Gears



Spur Gear Elevation

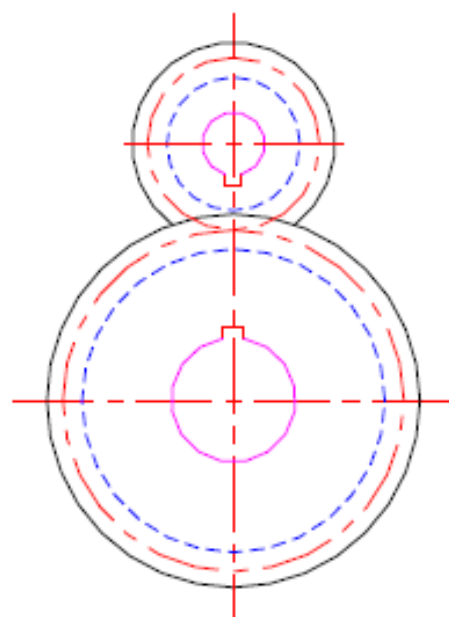


Spur Gear Side View

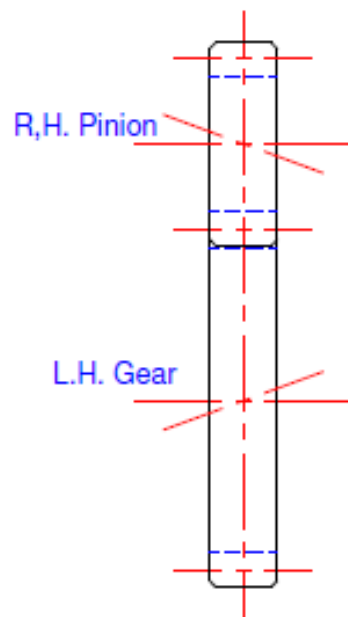


Spur Gear Sec. Side View

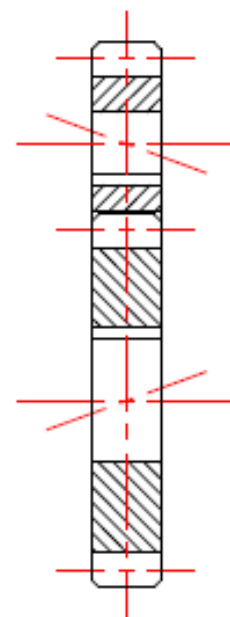
## Helical Gears



Helical Gear Elevation

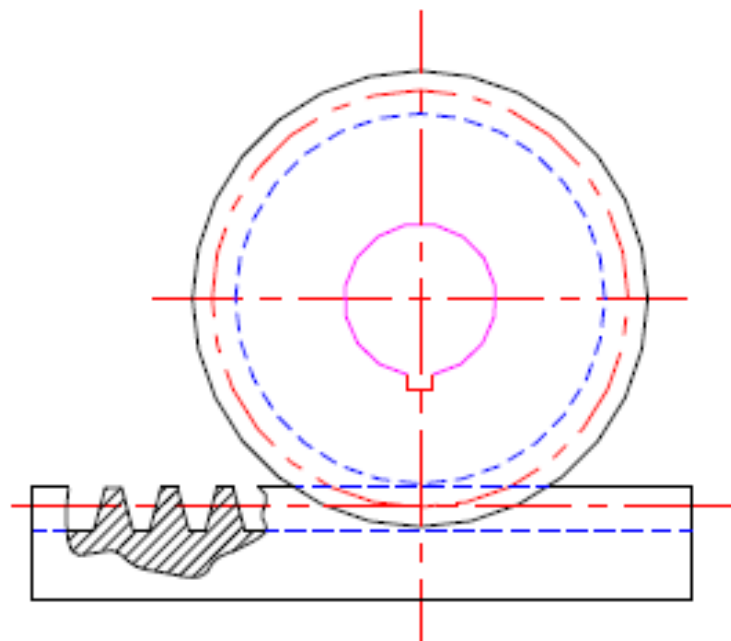


Helical Gear Side View

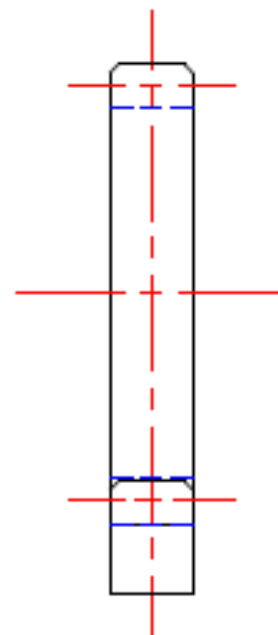


Helical Gear Sec. Side View

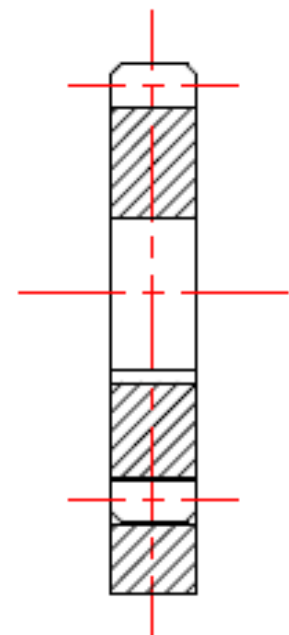
# Rack and Pinion



Rack and Pinion  
Elevation

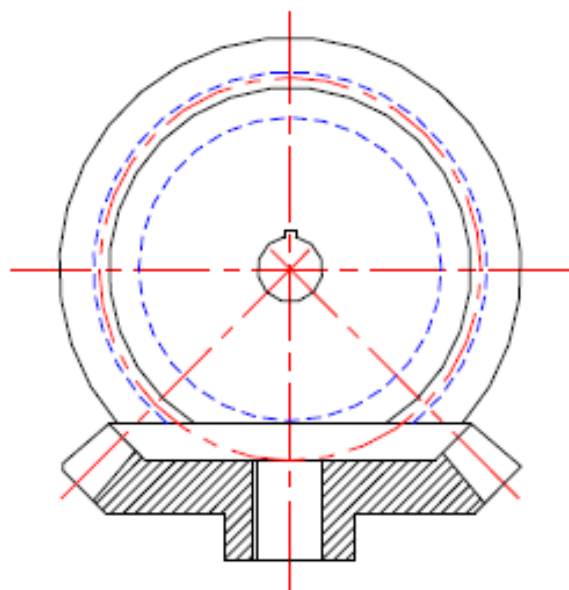


Rack and Pinion  
Side View

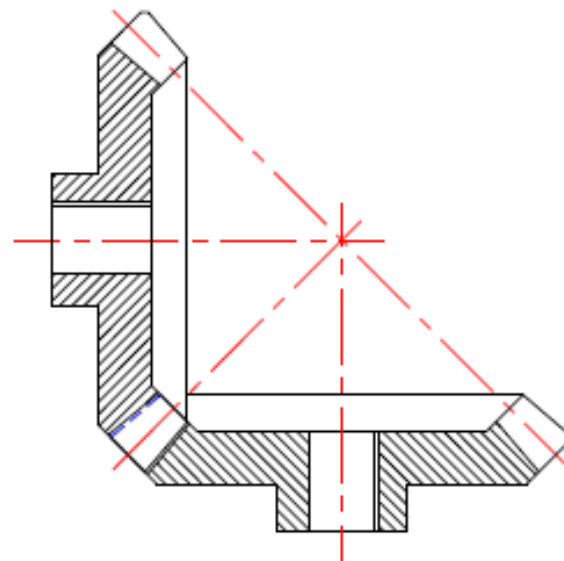


Rack and Pinion  
Sec. Side View

## Bevel Gears

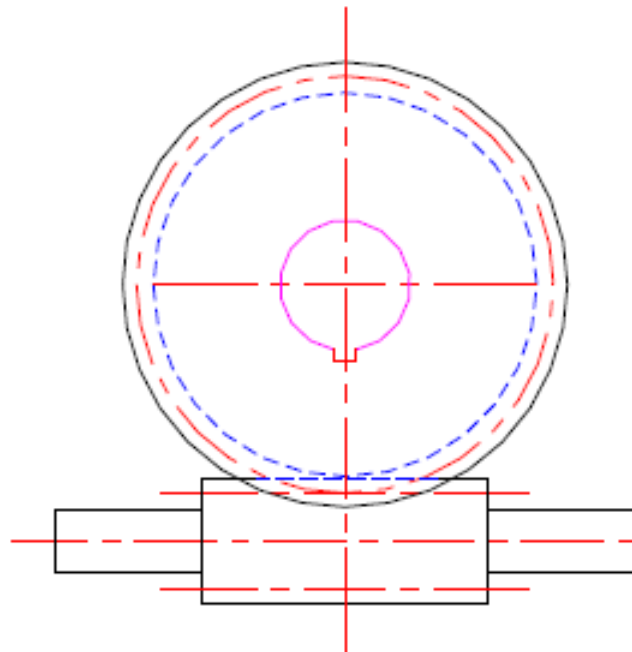


Straight Bevel Gears  
Sec. Elevation

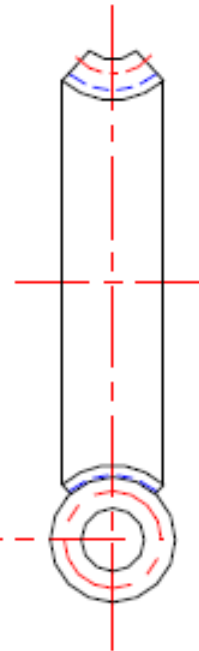


Straight Bevel Gears  
Sec. Side View

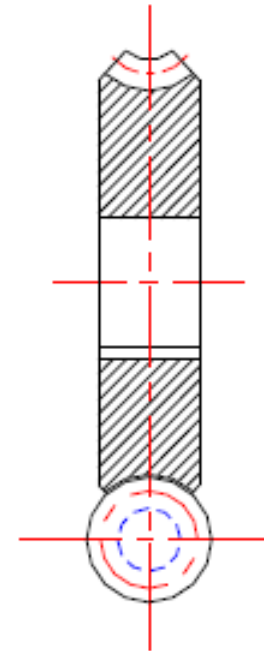
## Worm & Worm-Wheel



Worm & Worm-Wheel  
Elevation



Worm & Worm -Wheel  
Side View



Worm & Worm-Wheel  
Sec. Side View