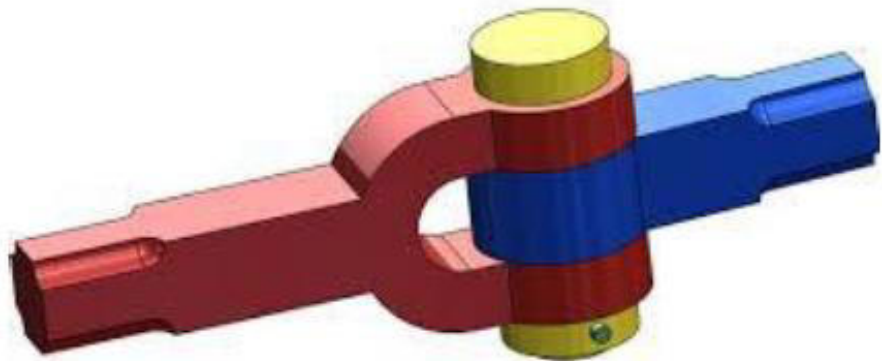


# Knuckle Joint- Assembly drawing

## Engineering Graphics



# Knuckle joint



# Assembly of Knuckle joint



# Introduction and application of Knuckle joint

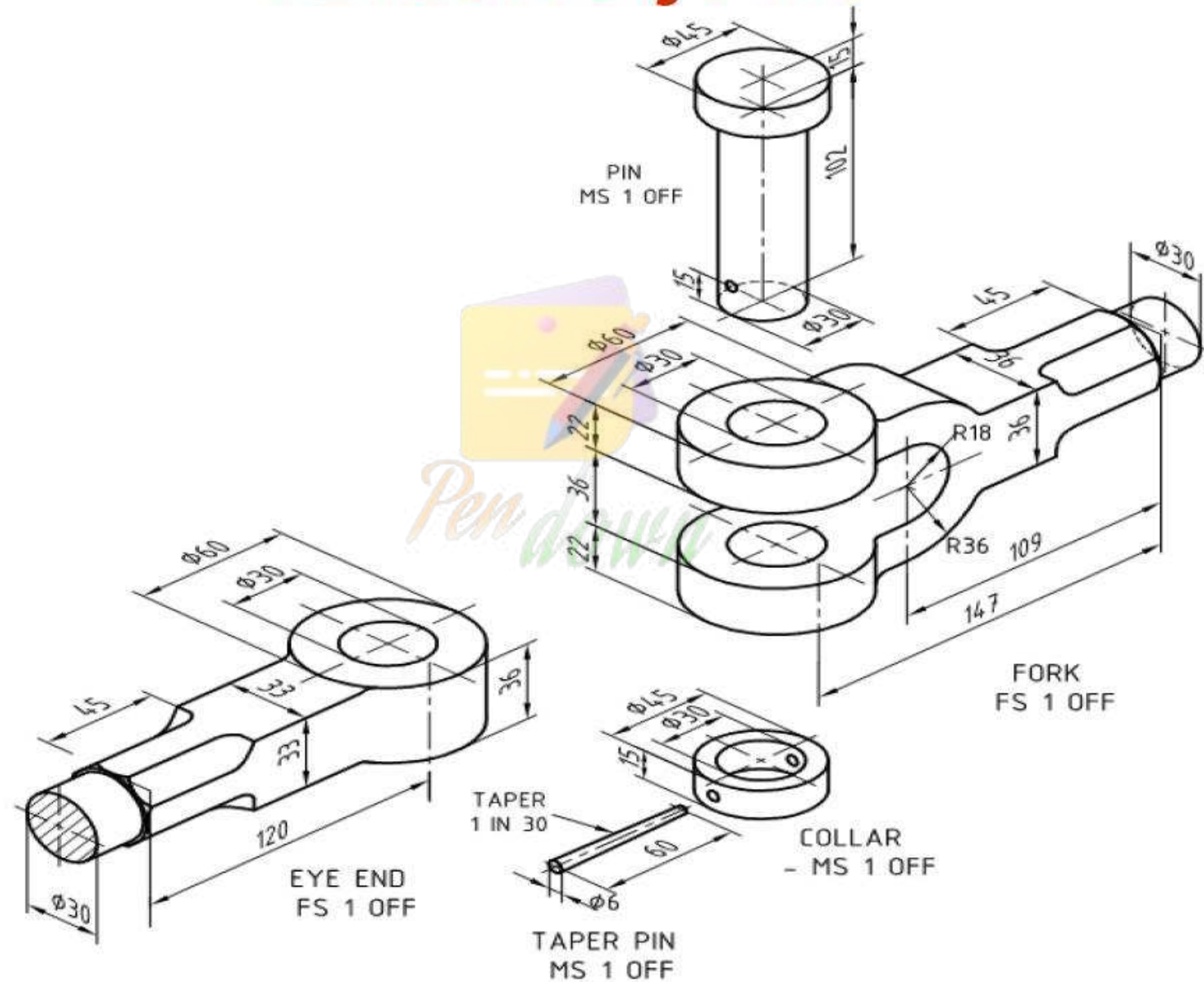
- These joints are used for different types of connections e.g. tie rods, tension links in bridge structure. In this, one of the rods has an eye at the rod end and,
- The other one is forked with eyes at both the legs. A pin (knuckle pin) is inserted through the rod-end eye and fork-end eyes and is secured by a collar and a split pin.

## Applications of knuckle joint

- Joints between the tie bars in a roof trusses.
- Between the links of suspension bridge.
- In valve mechanism of a reciprocating engine.
- Fulcrum for the levers.
- Joints between the links of a bicycle chain.



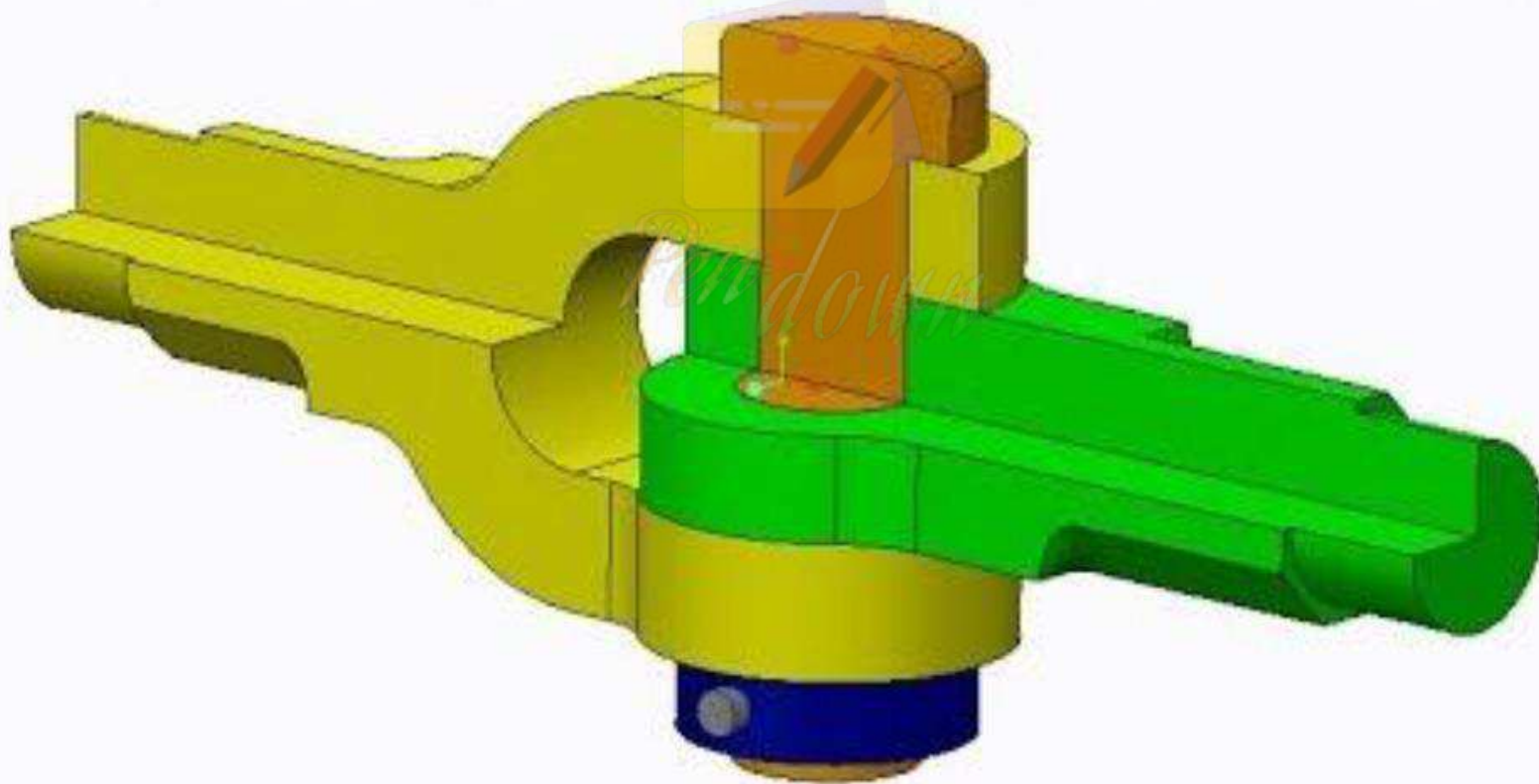
# Knuckle joint



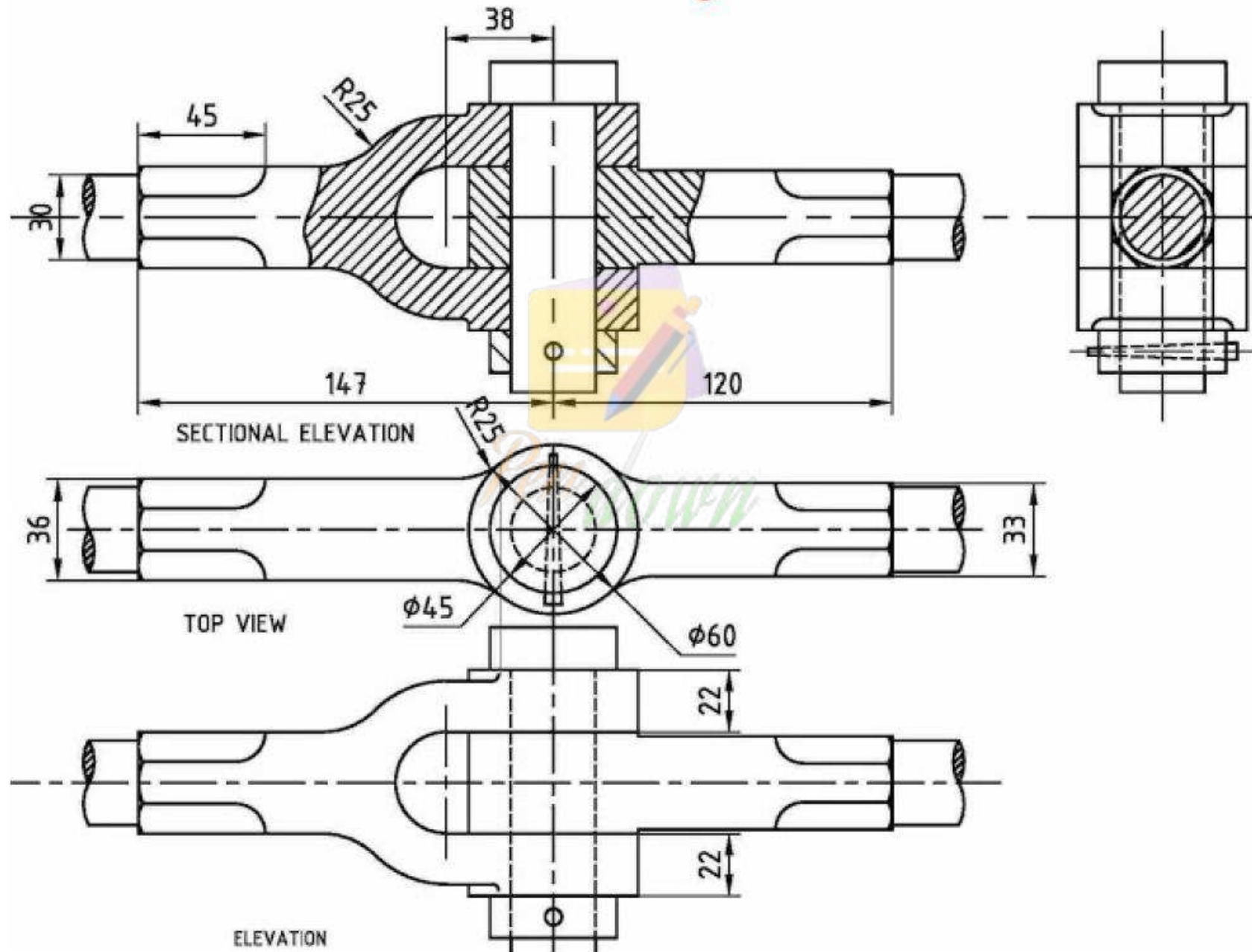
KNUCKLE JOINT

# Knuckle joint (K. J.)

## ASSEMBLING & SECTIONAL VIEWS OF KNUCKLE JOINT



# Knuckle joint





# Parts List / Bill of Material

- The **parts list** is an itemized list of the parts that make up the assembled machine.
- Parts lists contain the
  - part number, part name, the number required and the material of the part.
  - Other information can be included, such as, stock sizes of materials and weights of the parts.
- Parts are listed in order of their part# or sequence of assembly.
- Part#'s are usually assigned based on the size or importance of the part.