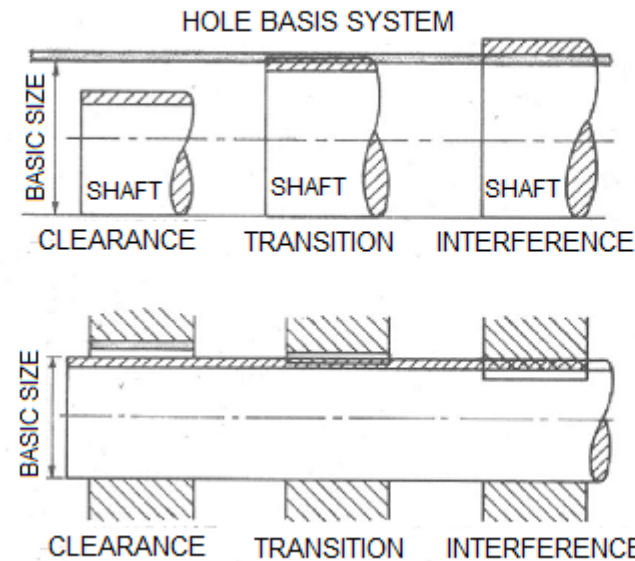


TERMS OF LIMITS AND FITS

The extreme two permissible sizes of dimension between which actual size of dimension is contained is called as limit.

The relationship existing between two mating parts with respect to amount of play when they are assembled together is called as fits.

HOLE AND SHAFT BASIS SYSTEM



HOLE BASED SYSTEM
Size of the Hole is kept constant, Shaft size is varied to get different fits

SHAFT BASED SYSTEM
Size of the Shaft is kept constant, Hole size is varied to get different fits

HOLE AND SHAFT BASED SYSTEM

Mating parts may be designed to slide freely against one another or they may be designed to bind together to form a single unit. The most common fit found in the machine shop is that of a shaft in a hole. Three types of fits are Clearance, Transition, Interference.