

ISO Fits

Mechanical Engineering

The hole-basis fits you actually use, and what each one behaves like.

Hole basis: the hole is H, and the shaft letter sets the fit.

Fit	Example	Behaviour
Loose running	H9/d9	Wide clearance, dirt tolerant
Close running	H8/f7	Oil film, general bearings
Sliding	H7/g6	Slides freely, still locates
Locational	H7/h6	Assembles by hand
Transition	H7/k6	Light tap, accurate location
Interference	H7/p6 or s6	Needs press force or heat

A smaller IT grade number means a tighter tolerance and a higher cost.
Hole basis is the usual default.