

CUTTING TOOL MATERIALS

The various materials are used to remove metal from work piece. The **tool must be harder than the material** which is to be cut. The selection of cutting tool material will depend upon the following factors

- ❖ Volume of production
- ❖ Tool design
- ❖ Type of machining process
- ❖ Physical and Chemical properties of work material
- ❖ Rigidity and condition of machine

Properties Of Cutting Tool Material

- ✓ Hot Hardness
- ✓ Wear Resistance
- ✓ Toughness
- ✓ Low Friction
- ✓ Cost Of Tool