

Forming Operations

11.13 The advantages of cold working are:

- (1) A high quality surface finish.
- (2) The mechanical properties may be varied.
- (3) Close dimensional tolerances.

The disadvantages of cold working are:

- (1) High deformation energy requirements.
- (2) Large deformations must be accomplished in steps, which may be expensive.
- (3) A loss of ductility.

The advantages of hot working are:

- (1) Large deformations are possible, which may be repeated.
- (2) Deformation energy requirements are relatively low.

The disadvantages of hot working are:

- (1) A poor surface finish.
- (2) A variety of mechanical properties is not possible.