



### Compaction and Shaping

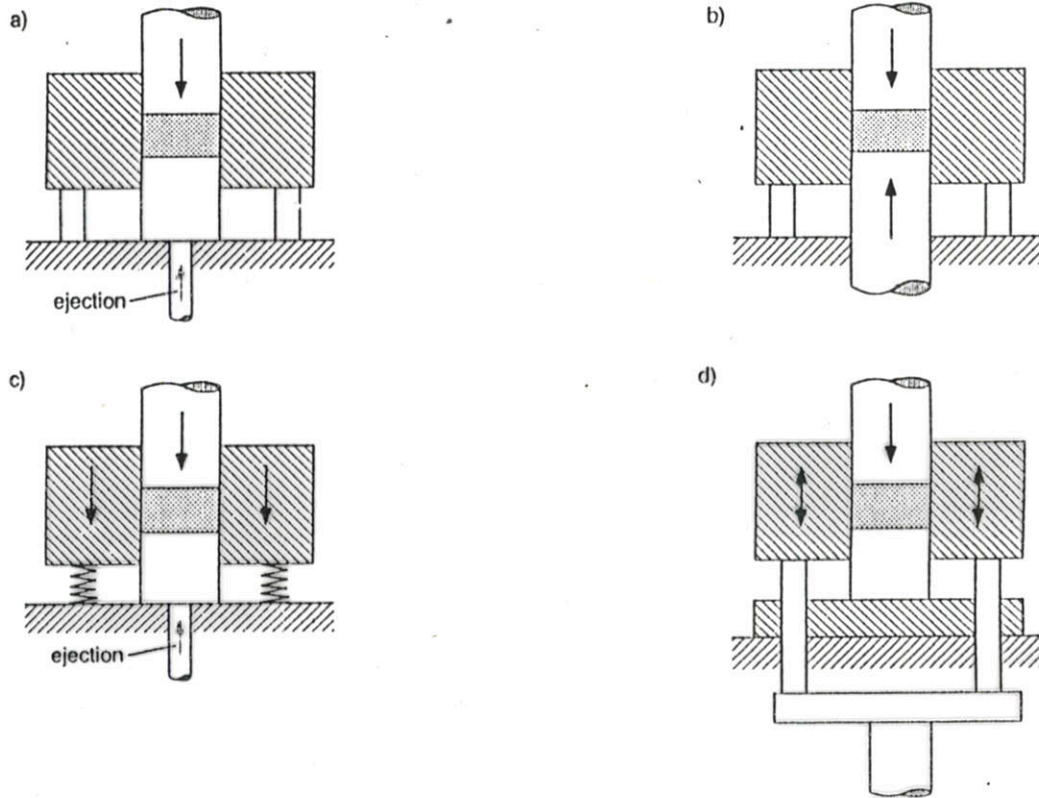
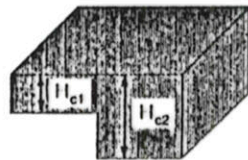


Figure 6.11 Axial cold pressing -tooling principles. a) single action pressing, b) ejection tooling system; c) floating die tooling system; d) withdrawal tooling system

$$\text{Compression ratio: } H_{o1}/H_{c1} = H_{o2}/H_{c2} = c$$

$$\Delta H = c \cdot (H_{c2} - H_{c1}) - H_{c1}$$

compact



powder filling

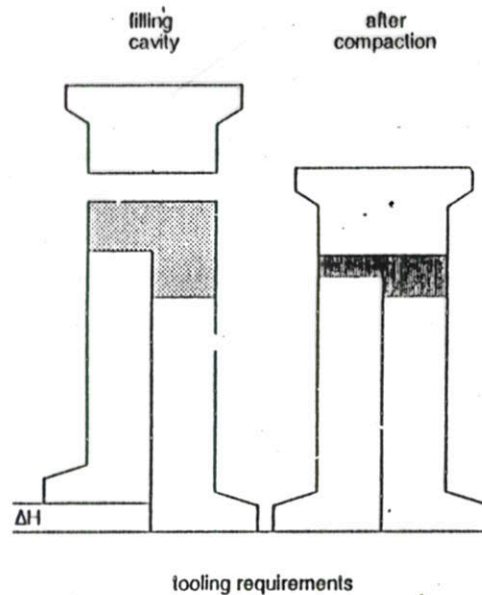
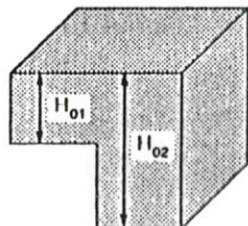


Figure 6.12 Tooling requirements for class III and IV parts: splitting of lower punches