

Bulk Deformation Process – Forging

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1. Why is friction factor preferred over coefficient of friction in forming analysis?
Friction factor is independent of the applied pressure, whereas coefficient of friction is dependent on applied pressure.
2. Which of the following processes are forging operations? Cogging, swaging, thread rolling, trimming, upsetting.
All except trimming and thread rolling.
3. What factors are important in selection of forging die?
Forging load, flow stress of work material, strain rate sensitivity, forming temperature etc.
4. Give two reasons why lubrication during forging may be undesirable.
Lubricant may form thick film which may lead to peel effect. Too much of lubricant may be left in die cavity reducing the die filling chance. A defective product may be obtained.