

Homework:

1. Read about the following metal forming processes in the RBR or using on-line references.

- Die forging
- Cold heading / upset forging
- Metal rolling – sheet, plate, structural sections
- Direct extrusion
- Indirect extrusion
- Wire drawing
- Tube drawing

2. Keep your list (or flash cards) of the manufacturing processes that we discuss in class up to date.

3. Prepare process summary sheets for direct extrusion and die forging. Due in class, 4/22/08

Lab: We will have an optional take-apart lab before the next lecture. Date and time to be determined in class today.

We will have a quiz in class next week covering the manufacturing processes that we have covered in lecture and the reading through week 3. To prepare make sure that you have a basic understanding of the different processes, and why one might be preferred over another for a particular part.

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| <ul style="list-style-type: none">• Sand Casting• Investment Casting• Die casting• Shearing• Punching• Blanking• CNC Punching• Fine blanking• Bending / brake forming• Rolling• Roll forming | <ul style="list-style-type: none">• Drawing / deep drawing• Spinning• Laser cutting• Die forging• Cold heading / upset forging• Metal rolling – sheet, plate, structural sections• Direct extrusion• Indirect extrusion• Wire drawing• Tube drawing |
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