

### **13.4.8. Closing Remarks**

Many more processes can be classified as rolling. The drive to employ rolling as an alternative process stems from the following advantages, some or all of which are present in each process:

- 1.** Material is saved by the elimination of chips or scrap.
- 2.** Better physical properties are imparted by mechanical fibering and hardening due to the plastic deformation.
- 3.** The process is continuous and most suitable for mass production.
- 4.** When considered as alternatives to forging (reduce rolling, wedge rolling, gear rolling, etc.), the smooth gradual forming replaces the sudden impact loading of a forging press.

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