

JOB NO. 2

1. **Objectives:** Making a flat chisel

2. **Tools used:** Furnace, anvil, hammer, tongs, flatter, chisel grinder, steel rule, try square

3. **Materials used:** Mild steel round bar ϕ 20mmX150mm

4. **Drawing:** See Diagram

5. **Procedure:**

- a) Do marking on the raw material by scale and cut the piece as per the dimension with the help of hexa frame. (See diagram)
- b) Start the furnace and heat the job upto forgeable temperature (1250° C) or till metal is red hot
- c) Keep the red hot metal piece on the anvil with the help of tongs. Then give octagonal shape to the job with flatter and hammer. (See diagram)
- d) Re heat the octagonal job and place horizontally on the anvil with tongs and taper one end. To make chisel head with hammer. The other end of the job is taper flattening to make chisel mouth with flatter and hammer. (See diagram)
- e) Heating the whole chisel again, cut the excess metal to maintain dimensions then do finishing with the chisel.(See diagram)
- f) Keep the chisel in a restricted place for cooling in air.
- g) After the job has cooled grind the cutting edge of the chisel to 60° angle. (See diagram)
- h) Do hardening and tempering on the cutting edge of the chisel

6. **Precautions**

- a) Don't wear wrist watched and finger rings while working
- b) don't use mushroom headed tools
- c) always use suitable togs as per the job shape and size
- d) Clean the oil substance from the tools
- e) Heat the job carefully as per the forgeability of the metal
- f) Start hammering on the red hot job only
- g) Take great care during hammering of the job. Improper hammering may cause job to jump out of the tongs and hit somebody
- h) Do not touch the hot jobs

First Year Basic Mechanical Lab Manual

M Woodhall



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