

● MARKING OUT TOOLS

MARKING OUT TOOLS ARE TOOLS USED TO MARK OUT LINES, ARCS, CIRCLES AND POINTS ON SURFACE OF SHEET METALS OF AREAS TO WORK ON. UNDER THIS CATEGORY OF TOOLS YOU HAVE THE FOLLOWING:

- a) SCRIBER MADE OF HARDENED STEEL. BOTH ENDS ARE SHARP POINTED. ONE OF THE END IS BENT. USED TO SCRATCH OUT LINES ON METAL SURFACE.
- b) DIVIDER USE TO TRANSFER DIMENSIONS. TO DRAW ARCS AND CIRCLES.

- c) TRAMMEL POINTS USE FOR DRAWING LARGER ARCS AND CIRCLES.
- d) PUNCHES ARE MADE OF TOOL STEEL .PUNCHES ARE OF TWO TYPES:
 - PRICK PUNCH: THE END HAS TAPER ANGLE OF 60° FOR MAKING SMALL INDENTATIONS. ESTABLISHING POINTS FOR THE DIVIDER AND TRAMMEL POINTS
 - CENTRE PUNCH THE END HAS TAPER ANGLE OF 90° FOR MAKING BIG INDENTATIONS FOR POINTS TO DRILL.

○ CUTTING TOOLS

1. CHISEL COLD CHISEL ARE USED TO CUT AND SHEAR METAL .THERE ARE DIFFERENT TYPES
 - FLAT
 - CAPE
 - DIAMOND POINT
 - ROUND
2. SNIPS: ARE SIMILAR TO A PAIR OF SCISSORS BUT ARE HEAVIER AND USED TO CUT SHEET METALS OF LESS THICKNESS

◎ STRICKING TOOLS

HAMMERS ARE OF VARIOUS TYPES

1. HARD FACE HAMMERS

- i. BALL PEEN HAMMER
- ii. CROSS PEEN HAMMER
- iii. FLAT PEEN
- iv. STRAIGHT PEEN

2. SOFT FACE HAMMERS

- i. MALLET

● PLIERS ARE USED FOR GRIPPING OR HOLDING SHEET METALS ARE OF VARIOUS TYPES WHICH ARE:

1. FLAT NOSE PLIER
2. ROUND NOSE PLIER
3. SLIP JOINT PLIER

● HACKSAW FOR CUTTING METALS

● FILES ARE USED FOR REMOVING SMALL AMOUNT OF MATERIAL FROM METALS .