# TYPES OF PATTERN

The types of pattern to be used for a particular casting depends upon many factors.

The following types of patterns are commonly used:

1.) Solid or Single piece pattern

my Multipiece pattern

D. Grated pattern

VII. Sweep pattern

Is. Cope and Drog battern

E. Segmental pattern.

II) Two-piece or Split pottern

Ty) Match plate bottern.

VI Skeleton pattern .

VIII. Pattern with loose pieces.

X. Follow board pattern.

## DSOLID / SINGLE PIECE PATTERN:

- Simplest pattern.

- One of the surface of the pattern is flat:

- Flat surface must coincide with the parting line.

- Made up of one piece and xarries no joint.

### 2) SPLIT | TWO-PIECE PATTERN :

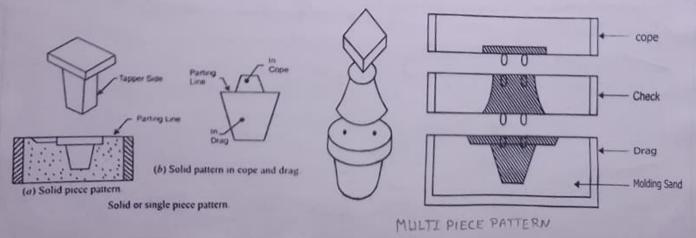
- Used for complex shaped object and symmetrical castings.

- Pattern can be split into no. of split pieces along the parting line such that they can be removed from Cope & Drag boxes separately.

## (3) Multipiece pattern:

- More complicated Design.

- Pattern split into more than two basts.



. ATCH PLATE PATTERN

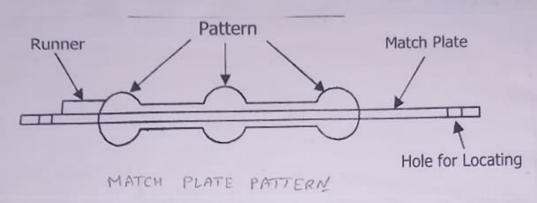
5- Pattern can be split along the parting line in match plate.

-In the match plate, no role of county.

- Used for symmetrical cartings.

- Grate and sunners are also attached in the plate.

- Used for mass production.



(5) GATED PATTERN:

Used in mass brooker from of small castings

Hulti-cacuity moulds are prepared.

All battern are connected with gates

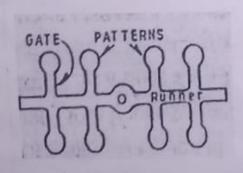
Single runner can be used for feeding all the cauties.

(6) SKELETON PATTERN:

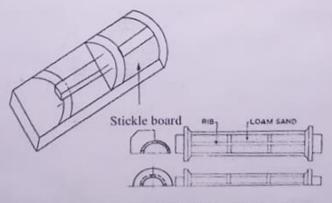
- Size of the pattern is very large, but easy to shape.

- pattern consisting of a wooden frame, strips, wires.

- Hould model by Loan sand.

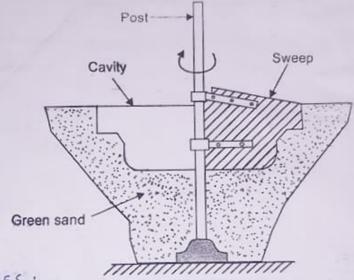


GATED PATTERN



SKELETON PATTERN

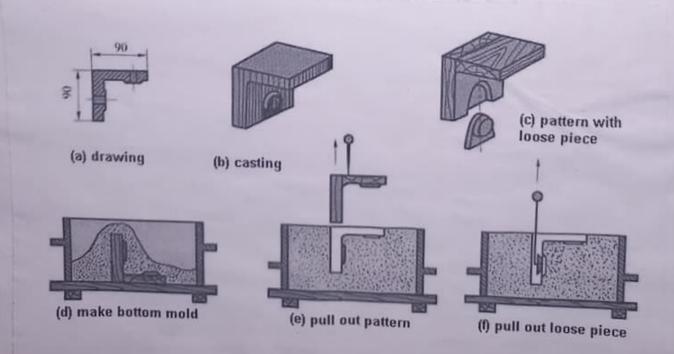
- (7) SWEEP PATTERN:
  - 20 blane pattern can be rotated in the mould.
  - Used for axis symmetric objects only
  - Lorge sawing in time, Labour and material.
  - con produce both solid and hollow costings.



#### (8) PATTERN WITH LOOSE - PIECES !

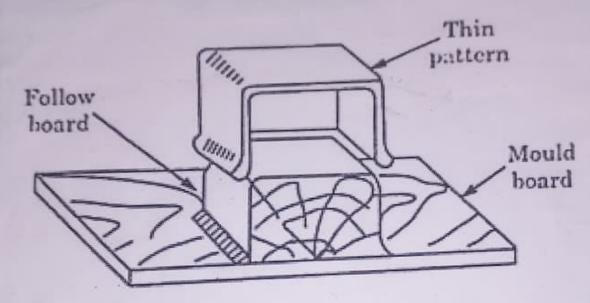
- 34 the objects are having internal projections or undercut.

- After the mould completes, the pattern is withdrawn leaving the biecess in the sand, which are later withdrawn separately through the lifter.



& LLOW BOARD PATTERN !

If the battern are not having sufficient strength, due to ramming force. there is a possibility of breaking of the battern. To overcome this, patterns are supported by providing flow board. that carrity is made mould later and after solidification, the mould is broken to get the product.



Follow-board Pattern.

PATTERN COLOURS:

There is no universal method of colouring but following method is followed as a practice for colouring of patterns and core boxes.

- ORed machining Surface.
- (2) Black -> Unmachined Surface.
- (3) Yellow -> Core points.
- (4) Red Strip on Yellow base Seat for loose pieces.
- (5) Without colour parting surface.