

HARD GELATIN CAPSULE



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Hard gelatin capsules

- These are used for administration of solid medicaments.
- It consists of two parts i.e. body and cap.
- Example : omeprazole



Filling of Capsules



POWDERS w/ capsules



GRANULES

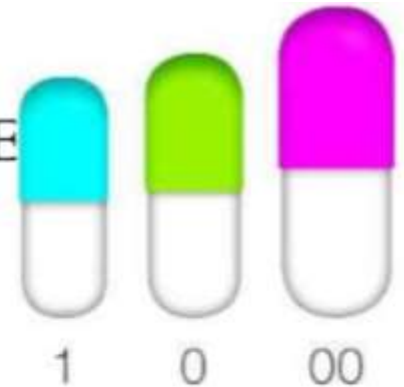


BEADS



TABLETS

CAPSULE NUMBER AND ITS APPROXIMATE CAPACITY



Capsule number	Approximate capacity in mg
000	950
00	650
0	450
1	300
2	250
3	200
4	150
5	100

MANUFACTURING OF HARD GELATIN CAPSULE.

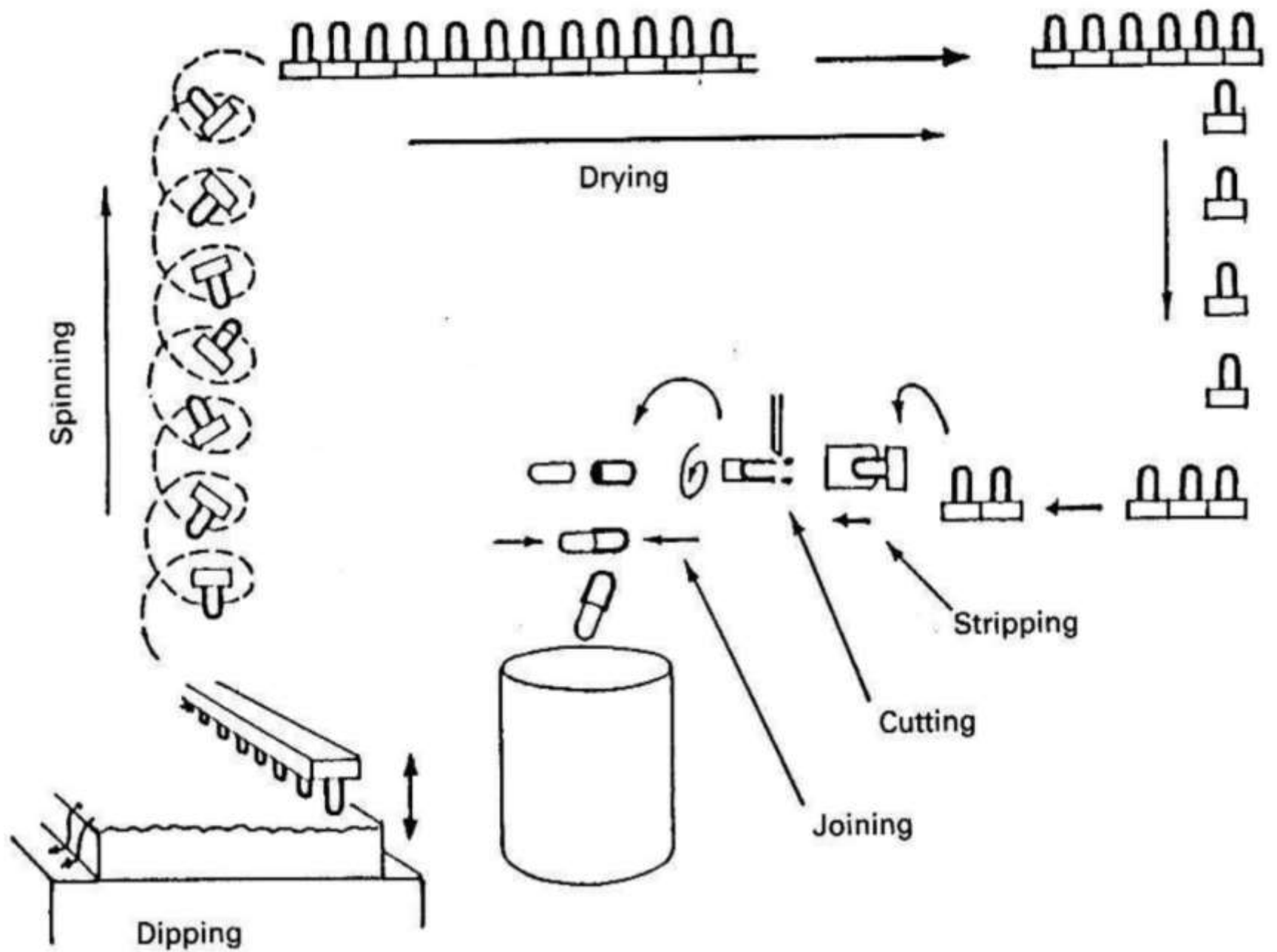


MANUFACTURE OF EMPTY HARD GELATIN CAPSULES

Steps involved in making empty gelatin capsules...

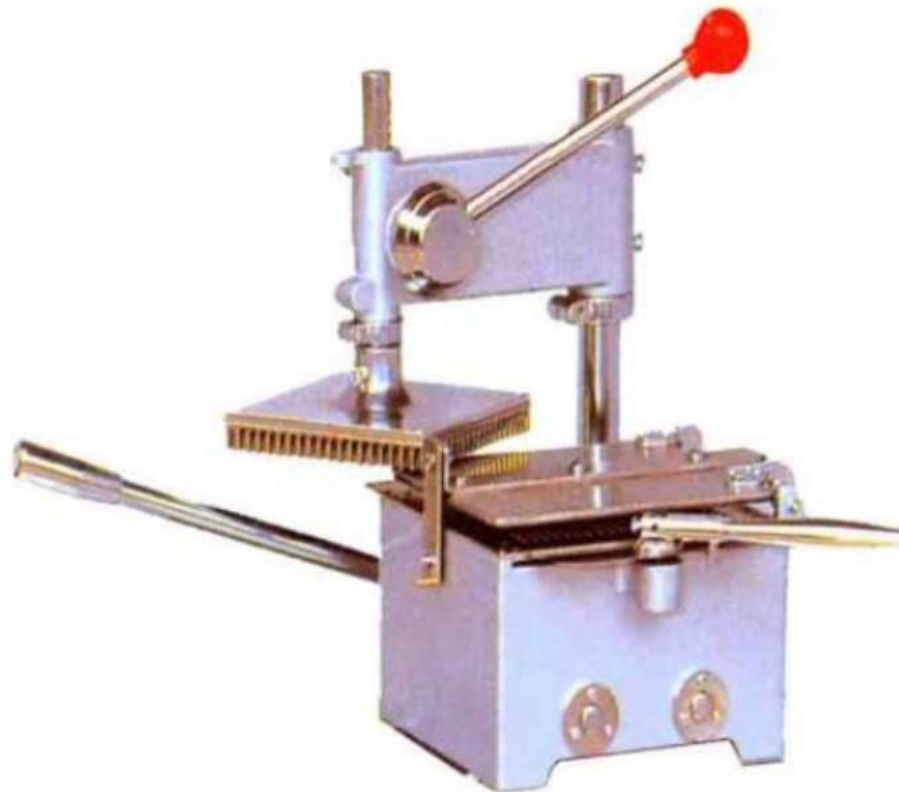
- **Dipping**
- **Spinning**
- **Drying**
- **Stripping**
- **Trimming and Joining**





METHODS OF FILLING THE HARD GELATIN CAPSULES

- Capsule filling machine (hand operated)



- It consists of:
 1. A bed having 200-300 holes
 2. A loading tray having 200-300 holes
 3. A powder tray
 4. A pin plate having a rubber top
 5. A lever
 6. A cam handle.



The empty capsules are filled in the loading tray .



and it is placed over the bed



The cam handle is operated to separate the capsule caps from their bodies.



The powder tray is placed in a proper position and filled with an accurate quantity of powder with scraper.



The excess of powder is collected on the plat for of the powder tray



The pin plate is lowered and the filled powder is pressed by moving the pin downwards



After pressing ,the pin plate is raised and the remaining powder is filled into the bodies of the capsules



The powdered tray is removed after its complete filling



The cap holding tray is again placed in position



The plate with the rubber top is lowered and the lever is operated to lock the caps and bodies



The loading tray is then removed and the filled capsules are collected



SEALING OF CAPSULES

Heat-welding process



Fuse the cap & body
through double wall
thickness at their juncture



distinctive ring around the
capsule where heat welded



CLEANING OF CAPSULES

- Accela-cota tablet coating pan may be used to clean and polish capsules.
- A polyurethane or cloth liner is placed in the pan, the liner is used to trap the removed dust as well as to impart a gloss to the capsule



ACCELA-COTA COATING PAN



THANK YOU

