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

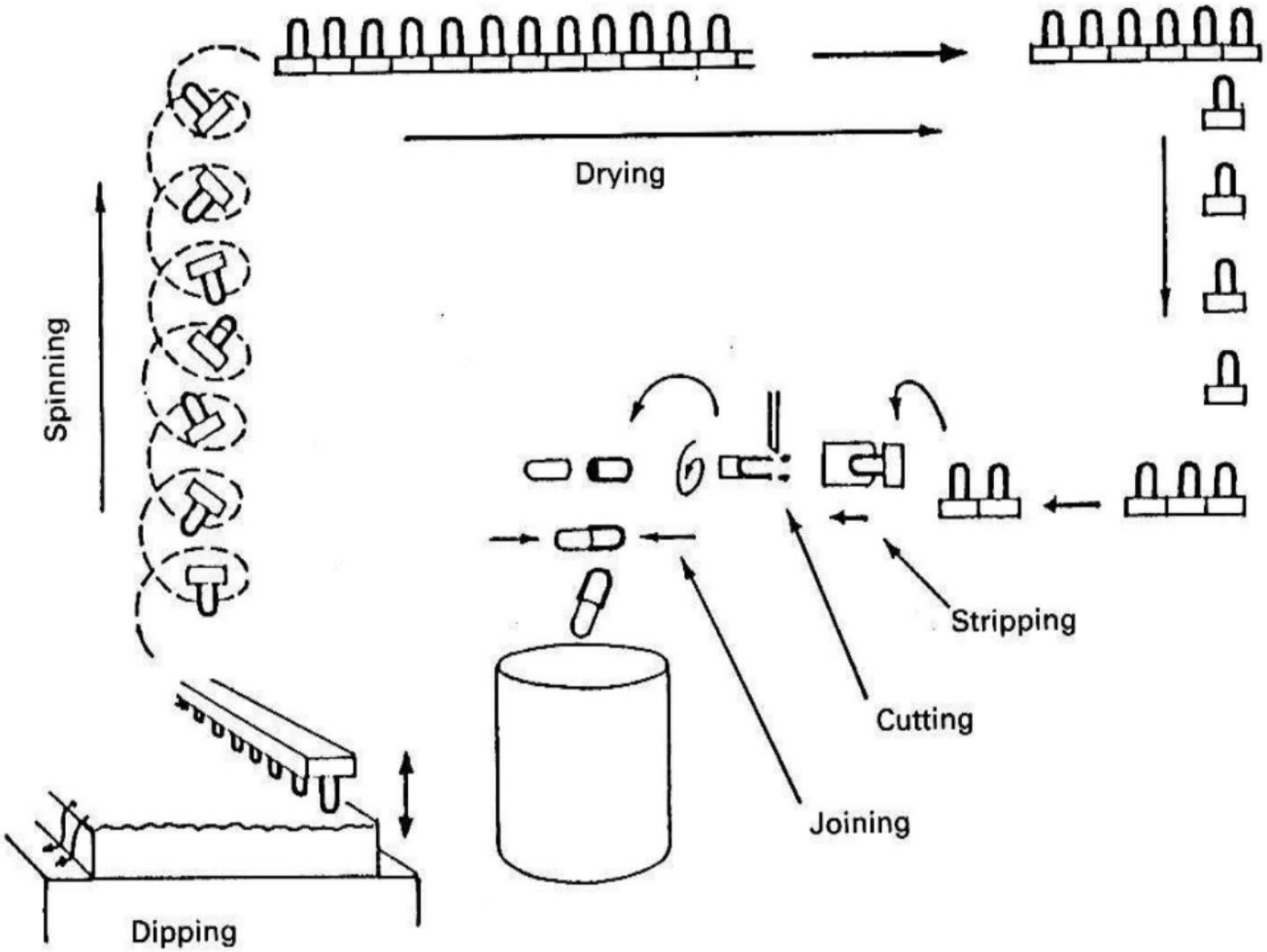
Capsule number	Approximate capacity in mg
000	950
00	650
0	450
1	300
2	250
3	200
4	150
5	100

MANUFACTURING OF HARD GELATIN CAPSULE.

MANUFACTURE OF EMPTY HARD GELATIN CAPSULES

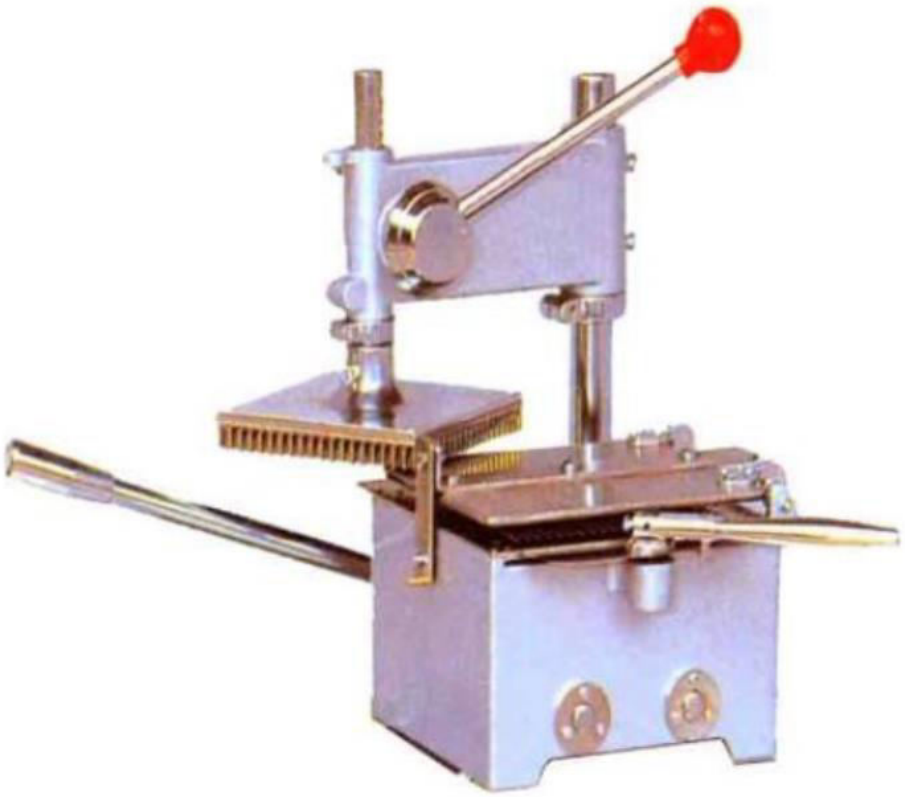
Steps involved in making empty gelatin capsules…

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


Drying
Spinning
Stripping
Cutting
Joining
Dipping

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 .

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and it is placed over the bed

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

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

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

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

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

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The powdered tray is removed after its complete filling

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The cap holding tray is again placed in position

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

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

SEALING OF CAPSULES

Heat-welding process

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

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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 import a gloss the capsule

THANK YOU