

# Classification of Oral and Maxillofacial Surgical Instruments

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## A. GENERAL SURGICAL INSTRUMENTS CAN BE CLASSIFIED AS FOLLOWS

- Cutting instruments
- Grasping or holding instruments
- Haemostatic forceps
- Retractors
- Clamps and distractors
- Miscellaneous

## B. EXODONTIA AND MINOR ORAL SURGICAL INSTRUMENTS CAN BE CLASSIFIED AS FOLLOWS

### Exodontia Instruments Can be Classified as Follows

#### 1. Forceps

- Maxillary anterior forceps
- Maxillary premolar forceps
- Maxillary molar forceps
- Maxillary cowhorn forceps
- Bayonet forceps or root forceps
- Maxillary 3rd molar forceps
- Mandibular anterior forceps
- Mandibular premolar forceps
- Mandibular molar forceps
- Mandibular cowhorn forceps
- Mandibular 3rd molar forceps

#### 2. Elevators

- Straight elevators
  - Coupland elevator
  - London hospital pattern
- Angular elevators
  - Apexo elevator
  - Cryer's elevator
    - Crossbar pattern
    - Straight pattern

# General Surgery Instruments

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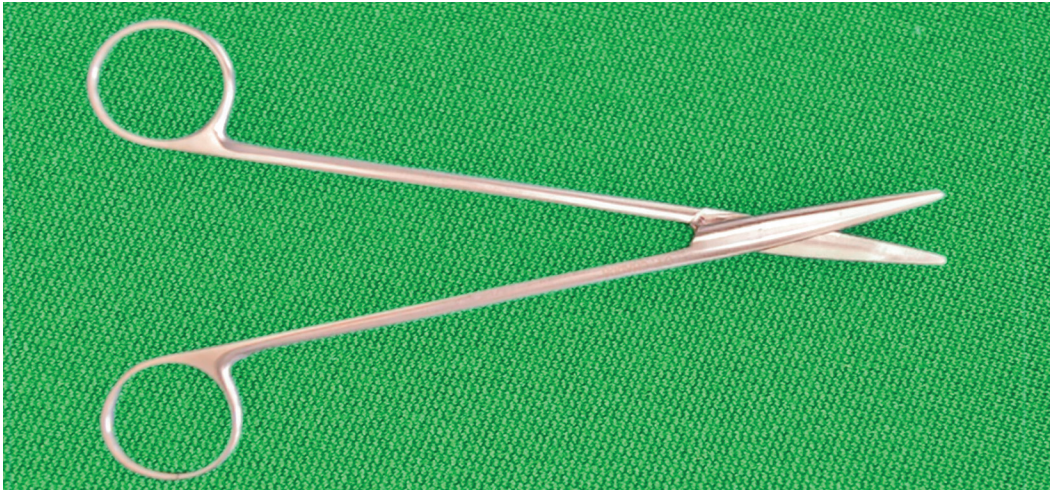
## CUTTING INSTRUMENTS

### DISSECTING SCISSORS

This is also called Mayo's scissors and is popularly called tissue scissors.

#### Indication

- This is used to dissect tissue planes during surgical operations and to cut or divide important structures.



Dissecting scissors

### HUMBY'S KNIFE

This instrument has a handle and long sheath. There is a screw at the operating end, with which prior adjustments should be done.

#### Indication

- The instrument is used to harvest skin grafts. Hence, it is also called skin grafting knife.





### Indication

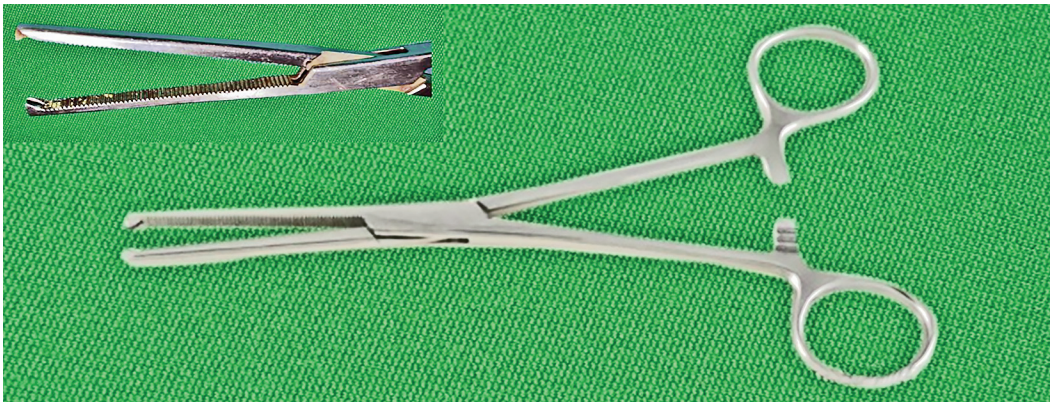
- Used for picking up sterile instruments from trays and linens from the drum. Stored in a container containing antiseptic solution.

### KOCHER'S FORCEPS

This is similar to an artery forceps with serrations.

It is available as curved and straight.

There is a sharp tooth at the tip of the instrument, hence it has a better grip.



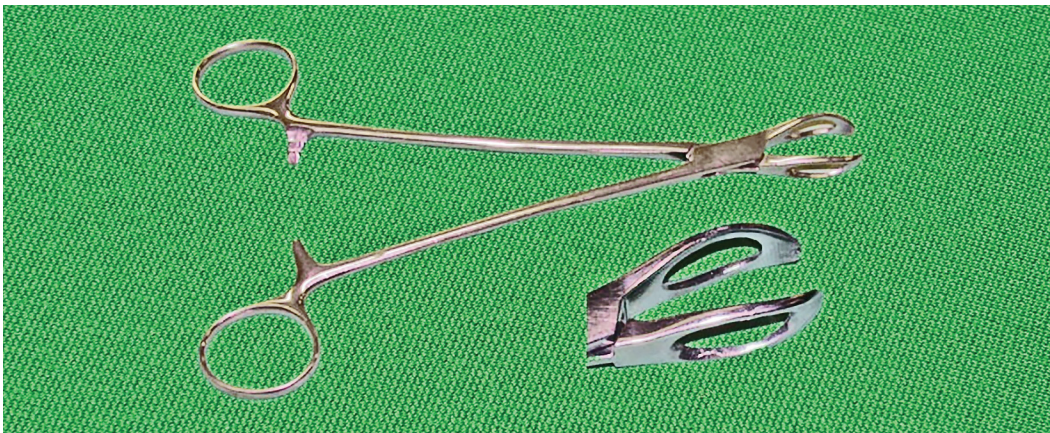
Kocher's forceps

### Indications

- Used to hold tough structures such as aponeurosis, fascia, and muscles.
- During thyroidectomy, it can be used to hold the strap muscles for dividing them.
- To hold rib during rib resection.

### LANE'S FORCEPS

This is similar to babcock's forceps, but the tip is more broad, expanded with a bigger opening.



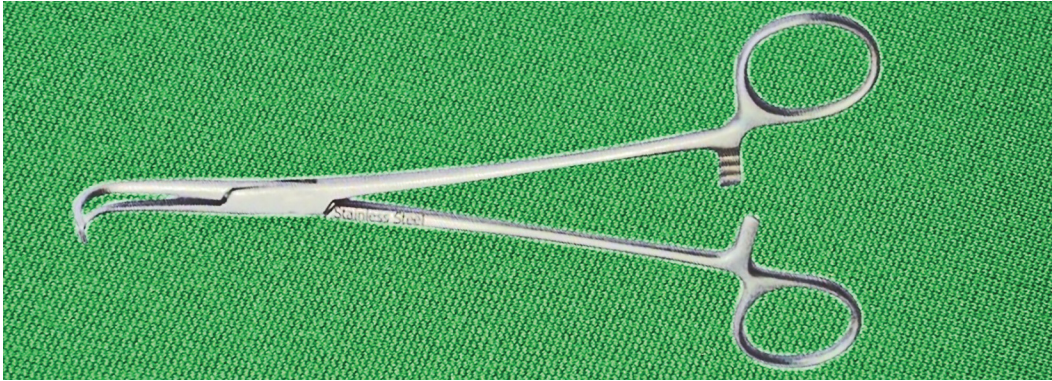
Lane's forceps





### NEGU'S ARTERY FORCEPS

It is a stout, long jawed forceps. The jaws are bent in the form of a hook. The inner margins of the jaw are transversely serrated.



Negu's artery forceps

#### Indication

- It is used to ligate the vessels present at depth. The bleeder is held with a straight artery forceps and then Negu's curved artery forceps is used to ligate it.

## RETRACTORS

### CAT'S PAW RETRACTOR

Instrument resembles a cat's paw. Thin metallic double ended/single ended instrument. Blade has prongs that are curved at tip. Double ended/senn retractor with other end has a broad curved blade to retract small amount of soft tissue.



Cat's paw retractor

#### Precaution

- Care should be taken not to apply excessive force which might lead to soft tissue damage.

#### Indication

- It is used for retraction of a small amount of soft tissue.