

Cataract Knife (Keratome)

Description

A **Cataract Knife (Keratome)** is a microsurgical ophthalmic blade used to create precise corneal incisions during **cataract surgery**, particularly in **phacoemulsification** procedures.

It is engineered with an ultra-sharp, fine, and smooth cutting edge to ensure **clean, self-sealing corneal entry wounds** with minimal tissue trauma.

Specification

- **Product Name:** Cataract Knife / Keratome
- **Category:** Ophthalmic Microsurgical Instrument
- **Blade Type:** Ultra-sharp microsurgical steel blade
- **Blade Angles:** 15° / 20° / 22° / 30° depending on incision requirement
- **Sizes:** 1.8 mm, 2.2 mm, 2.4 mm, 2.8 mm, 3.0 mm
- **Handle:** Lightweight, ergonomic, slip-resistant grip
- **Material:** Surgical-grade stainless steel or disposable steel blade attached to polymer handle
- **Usage:** Single-use or reusable (depending on model)
- **Finish:** Sterile, polished edge with burr-free sharpness

Types

- **Straight Keratome:** Standard corneal incision
- **Angled Keratome:** Easier access for temporal incisions
- **Slit / Crescent Knife:** For tunnel and side-port creation
- **Disposable Keratome:** Pre-sterilised, ready to use
- **Reusable Steel Keratome:** Autoclavable ophthalmic-grade steel

Material

- **Blade:** High-carbon surgical steel
- **Handle:**
 - Stainless steel (reusable)
 - Polymer (disposable)
- **Surface:** Ultra-polished, anti-corrosive

Sizes & Shapes

- **Incision Widths:** 1.8 mm to 3.0 mm
- **Blade Shapes:**
 - Flat angled
 - Slit
 - Crescent
 - Micro-angled
- **Handle Shapes:** Straight or contoured ergonomic

Usage

- Creating primary corneal incision
- Side-port incisions
- Tunnel formation in phaco surgery
- Entry for IOL (Intraocular Lens) insertion
- Minimal-trauma precision cutting

Handling

- Hold like a pen for maximum control
- Ensure correct angle alignment before incision
- Replace immediately if blade dulls (for disposable type)
- Avoid excessive pressure to prevent corneal tears

Sterilisation & Cleaning

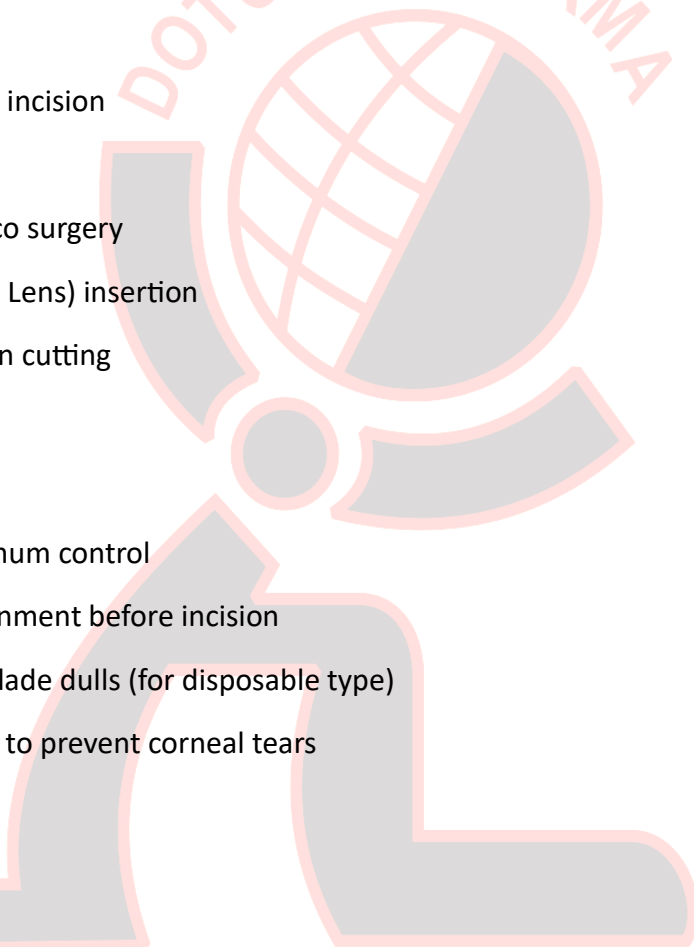
Reusable type:

- Clean with neutral enzymatic solution
- Rinse thoroughly
- Autoclave at standard ophthalmic settings
- Handle with extreme care to protect blade edge

Disposable type:

- Single-use only
- Discard after procedure

DOTCOM PHARMA



Advantages

- Ultra-sharp precision
- Smooth, linear incision
- Reduced endothelial damage
- Consistent, self-sealing wound
- Lightweight, ergonomic handling

Disadvantages

- Blade dulls if reused too many times
- Requires high surgical skill
- Disposable versions increase waste

Precautions

- Never touch blade tip with fingers or instruments
- Must remain sterile until use
- Use correct incision size for procedure type
- Dispose in sharps container after single use

HS & HSN CODES

- **HS Code:** 9018.90 – Ophthalmic surgical instruments
- **HSN Code (India):** 9018 90 99 – Other ophthalmic surgical instruments

Frequently Asked Questions

Q1. What is a Keratome (CK)?

A microsurgical blade used to create precise corneal incisions in cataract surgery.

Q2. What sizes are commonly used?

1.8 mm to 3.0 mm depending on incision requirement.

Q3. Can keratomes be reused?

Yes, if they are stainless-steel reusable models; disposable keratomes must be discarded.

Q4. Why are keratomes angled?

To provide better approach and visibility in temporal incisions.