

EYE SPECULUM

😊 Description

An Eye Speculum is a surgical instrument used to hold the eyelids apart during ophthalmic examinations or procedures. It provides hands-free access to the eye by preventing blinking, commonly used in both human and veterinary medicine.

📄 Specification

- Function: Keeps eyelids retracted
- Operation: Self-retaining or manually controlled
- Size: Infant to adult (20 mm – 50 mm approx.)
- Weight: 5–10 g depending on type
- Sterility: Autoclavable or pre-sterilized disposable
- Adjustment: Some models offer spring-loaded or screw-type adjustments

📏 Sizes & Shapes

Sizes

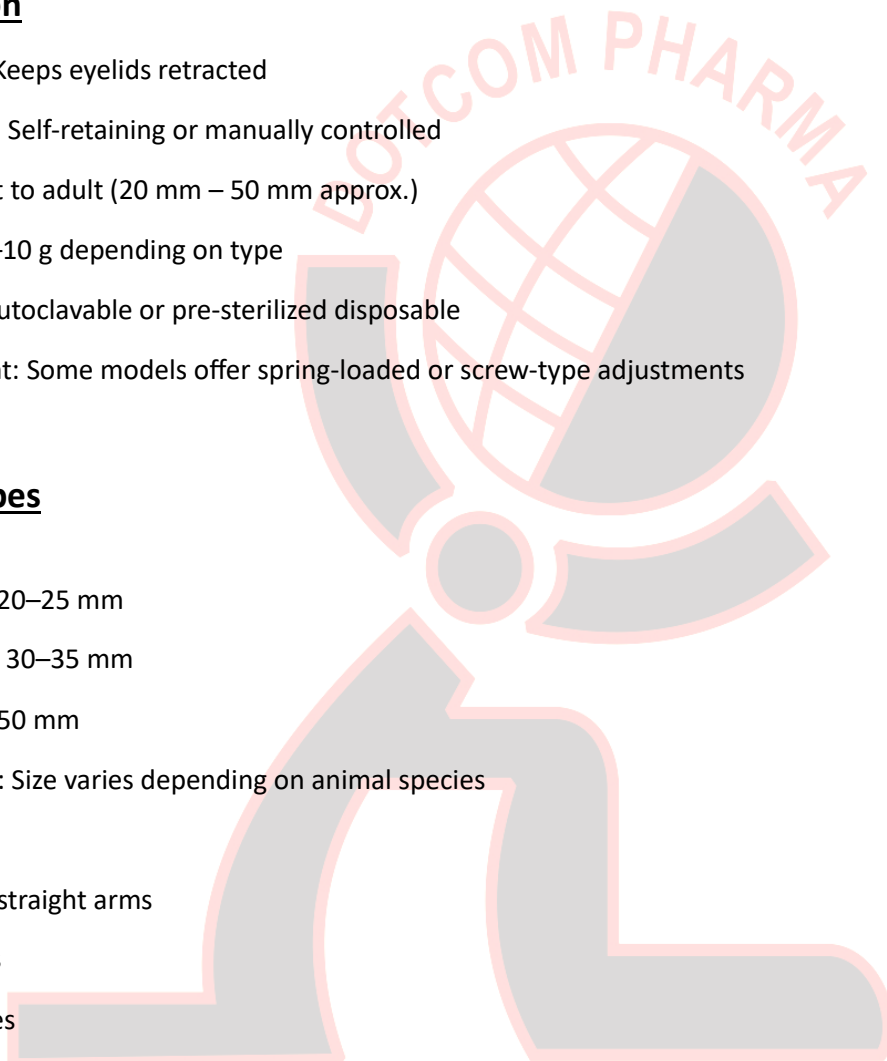
- Neonatal: 20–25 mm
- Paediatric: 30–35 mm
- Adult: 40–50 mm
- Veterinary: Size varies depending on animal species

Shapes

- Curved or straight arms
- Wire loops
- Solid blades
- Fenestrated blades
- Spring or screw-tension type

⚙️ Types

- **Wire Speculum** (e.g., Barrique, Kratz)
- **Solid Blade Speculum** (e.g., Cook, Alfonso)
- **Spring Action / Self-Retaining**
- **Adjustable Tension Blade/ Paediatric or Veterinary Specific Types**



Material

- Stainless Steel
- Titanium (lightweight, premium)
- Aluminium Alloy
- Disposable Plastic-Coated Wire

Category / Product Form

- **Category:** Surgical Ophthalmic Instrument
- **Form:**
 - Reusable (metal)
 - Disposable (plastic or coated wire)

Usage

Used to retract and hold open the eyelids for:

- Ophthalmic surgeries
- Eye examinations
- Foreign body removal
- LASIK
- Cataract procedures

Advantages

- Provides consistent eyelid retraction
- Improves visibility and access
- Reduces need for manual retraction
- Available in a range of sizes/types
- Disposable types reduce infection risk

Disadvantages

- Can cause discomfort or bruising if misused
- Not suitable for short procedures without sedation
- Disposable versions may lack rigidity
- Risk of corneal damage if improperly positioned



Precautions

- Always choose the correct size
- Lubricate the blades if necessary
- Avoid excessive tension
- Use sterile equipment
- Monitor the eye during longer procedures

Sterilization & Handling

Reusable

- Autoclave sterilization (121–134°C)
- Cold sterilization (if heat not available)
- Dry thoroughly to prevent corrosion

Disposable

- Pre-sterilized (ethylene oxide or gamma)
- One-time use only
- Dispose of in biohazard bin

HS / HSN Code

- **HS Code:** 9018.50 – Ophthalmic instruments
- **HSN Code (India):** 90185090 – Other ophthalmic instruments and appliances

Human Applications

Cataract Surgery

- LASIK
- Glaucoma Surgery
- Eye Examination
- Eyelid Surgery
- Foreign Body Removal

Veterinary Applications

Eye surgeries in dogs, cats, horses

- Treatment of corneal ulcers
- Ocular examination under sedation
- Equine ophthalmic procedures
- Use in exotic animals (e.g., rabbits, birds)

Frequently Asked Questions (FAQs)

Q1. What is an Eye Speculum (ES)?

- An instrument used to hold eyelids open during procedures.
- **Full Form:** Eye Speculum
- **Short Form:** ES

Q2. Is it safe to reuse an Eye Speculum?

- Yes, if it's a **reusable** model and is properly sterilized before each use.

Q3. Can the same ES be used for animals and humans?

- No. **Veterinary** speculums are designed to fit different anatomy and sizes.

Q4. How do you sterilize a reusable Eye Speculum?

- By autoclaving or using chemical sterilization as per manufacturer's guidance.

Q5. What sizes are available?

- Neonatal, Paediatric, Adult, and species-specific veterinary sizes.

