

Hexa Blade with Handle

Description

The Hexa Blade with Handle is a precision-cutting surgical tool commonly used for orthopaedic, autopsy, anatomical dissection, and tissue-slicing procedures. It consists of a hexagonal, replaceable or fixed blade mounted on a firm, ergonomic handle. Designed to provide high cutting efficiency, this instrument ensures smooth, controlled incisions with minimal tissue drag.

Specification

- **Blade Type:** Hexagonal, stainless steel, ultra-sharp
- **Handle Material:** Stainless steel or polycarbonate grip
- **Mounting Mechanism:** Screw-lock or snap-fit blade attachment
- **Blade Coating:** Optional titanium nitride for extra durability
- **Length:** Varies from 15 cm to 22 cm (with blade)
- **Grip Style:** Anti-slip ridged or rubberized handle

Sizes

- Blade Size:
 - Small (1.5–2 cm cutting edge)
 - Medium (2.5–3 cm cutting edge)
 - Large (3.5–4 cm cutting edge)
- Handle Length:
 - 10 cm (compact)
 - 12–15 cm (standard)

Shapes

- **Blade:** Hexagonal cutting edge with straight, flat sides
- **Handle:** Cylindrical or slightly tapered for ergonomic handling

Types

- **Fixed Blade Hexa Knife:** Blade permanently attached to handle
- **Replaceable Blade Hexa Tool:** Blade can be detached and replaced
- **Disposable Hexa Blade Units:** For single-use applications
- **Autopsy-Grade Hexa Blades:** Heavier with reinforced grip

Material

- **Blade:**
 - Surgical-grade stainless steel (AISI 420 or 440C)
 - Optional tungsten or titanium-coated variants for extended use
- **Handle:**
 - Stainless steel (reusable)
 - Polycarbonate or ABS (for disposables)

Category

- Surgical cutting instruments
- Dissection tools
- Anatomical and autopsy instruments
- Orthopaedic auxiliary tools

Product Form

- Available as:
 - Blade with reusable handle
 - Pre-attached disposable unit
 - Bulk packs (for high-usage environments)
- Packed sterile or non-sterile, depending on use-case

Usage

Used for precise cutting of tough tissue, cartilage, or bone covering during surgeries, dissections, or autopsies. Ensures clean slicing with reduced trauma to the surrounding areas. Ideal for controlled deep or surface cuts.

✔ Advantages

- Ultra-sharp edges for efficient cutting
- Stable grip for safety and control
- Replaceable blade options reduce long-term cost
- Hexagonal shape prevents blade rotation during use
- Durable materials resist rust and wear

✘ Disadvantages

- Improper handling can lead to injury or deep tissue damage
- Disposable versions generate medical waste
- Must be stored carefully to avoid blade dulling or damage

⚠ Precautions

- Always inspect blade sharpness and attachment before use
- Replace or sterilize after each procedure
- Use proper blade guards during storage
- Handle with gloves and avoid contact with the blade edge

📊 HS / HSN Code

- **HSN 9018:** Surgical and medical instruments
- **HSN 82119390:** Blades with handles — surgical or dissection tools not elsewhere specified

👐 Handling

- Always hold by the handle — never by the blade edge
- Use two-hand technique when replacing or locking blades
- Store in blade guard or sterilization tray
- Do not reuse disposable blades

Sterilization Details

- **Reusable Handles:** Autoclavable at 121°C (15 mins) or 134°C (5 mins)
- **Blades:** Replaceable blades should not be reused; if required, chemical sterilization only
- **Disposables:** Single-use only; dispose of as per biohazard protocols

Veterinary Application

Commonly used in animal surgeries, dissections, and post-mortem analysis. Especially suitable for thick-skin species or muscle-dense areas. Preferred tool in veterinary colleges and forensic departments.

Human Application

Used in orthopaedic surgeries, autopsy procedures, forensic medicine, and anatomical dissections in medical schools. Helps ensure deep and clean cuts during complex procedures.

Frequently Asked Questions (FAQ)

1.What is a Hexa Blade with Handle used for?

It's used for deep or precision cutting in surgical, anatomical, and post-mortem procedures.

2.Can the blade be replaced?

Yes, depending on the model — many are designed for blade replacement.

3.Is it reusable?

Handles usually are; blades are often single-use or limited use.

4.Is it suitable for veterinary surgeries?

Yes, widely used in both small and large animal procedures.

5.How do I sterilize it?

Autoclave reusable handles; dispose or chemically sterilize blades depending on design.