

SIMS ABDOMINAL STRUCTURAL NEEDLE

DESCRIPTION

The Sims Abdominal Structural Needle is a heavy-duty surgical needle used for placing deep, strong sutures in abdominal wall closures, fascia repairs, and structural reinforcement during major surgeries. Its robust, curved design allows surgeons to penetrate thick tissues with control and stability. This needle is commonly used in general surgery, gynaecology, obstetrics, and veterinary abdominal procedures.

SPECIFICATION

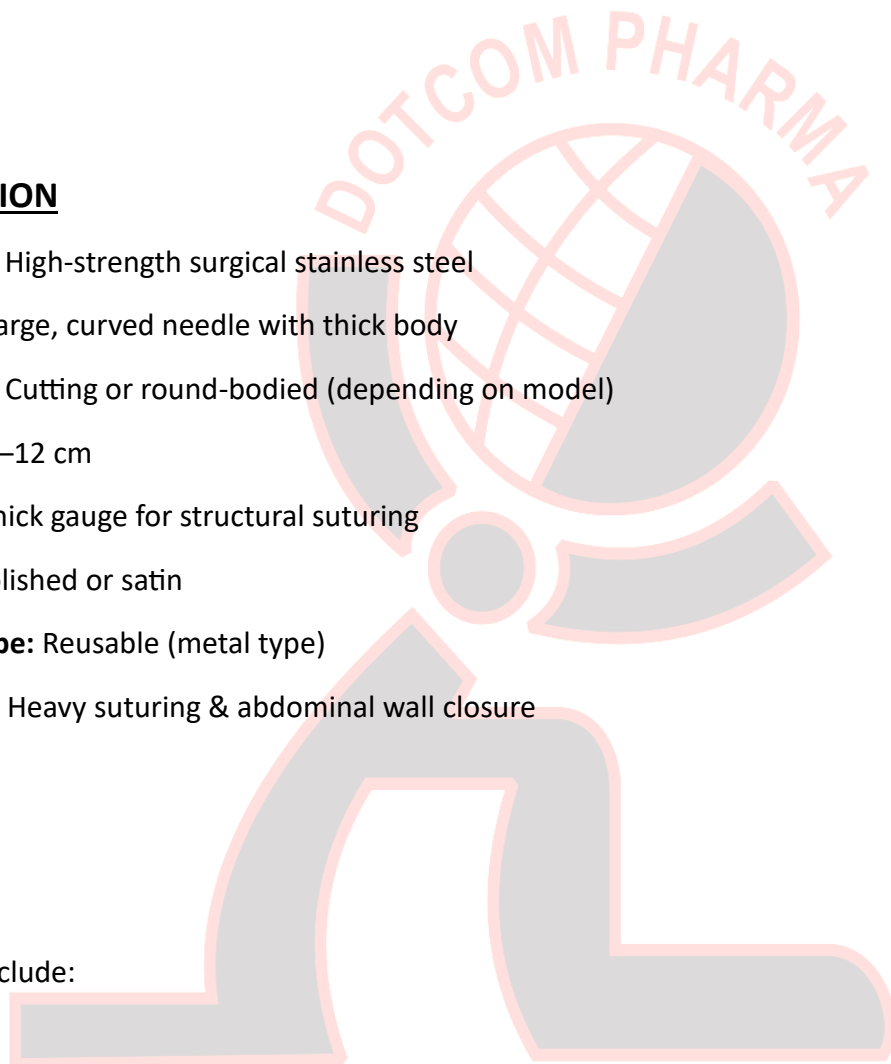
- **Material:** High-strength surgical stainless steel
- **Design:** Large, curved needle with thick body
- **Tip Style:** Cutting or round-bodied (depending on model)
- **Length:** 6–12 cm
- **Gauge:** Thick gauge for structural suturing
- **Finish:** Polished or satin
- **Usage Type:** Reusable (metal type)
- **Function:** Heavy suturing & abdominal wall closure

SIZES

Common sizes include:

- 6 cm
- 8 cm
- 10 cm
- 12 cm

(Curve angles vary)



◆ TYPES & SHAPES

- Curved Sims abdominal needle
- Half-curved heavy suture needle
- Cutting-edge Sims needle
- Round-body Sims needle
- Thick body structural closure needle

🔧 MATERIAL TYPES

- Stainless Steel SS 304
- Stainless Steel SS 316 surgical grade
- Hardened stainless steel (for cutting tip)

📁 CATEGORY

- General Surgical Instruments
- Abdominal Structural Suturing Tools
- Gynaecology & Obstetric Instruments
- Veterinary Structural Suturing Equipment

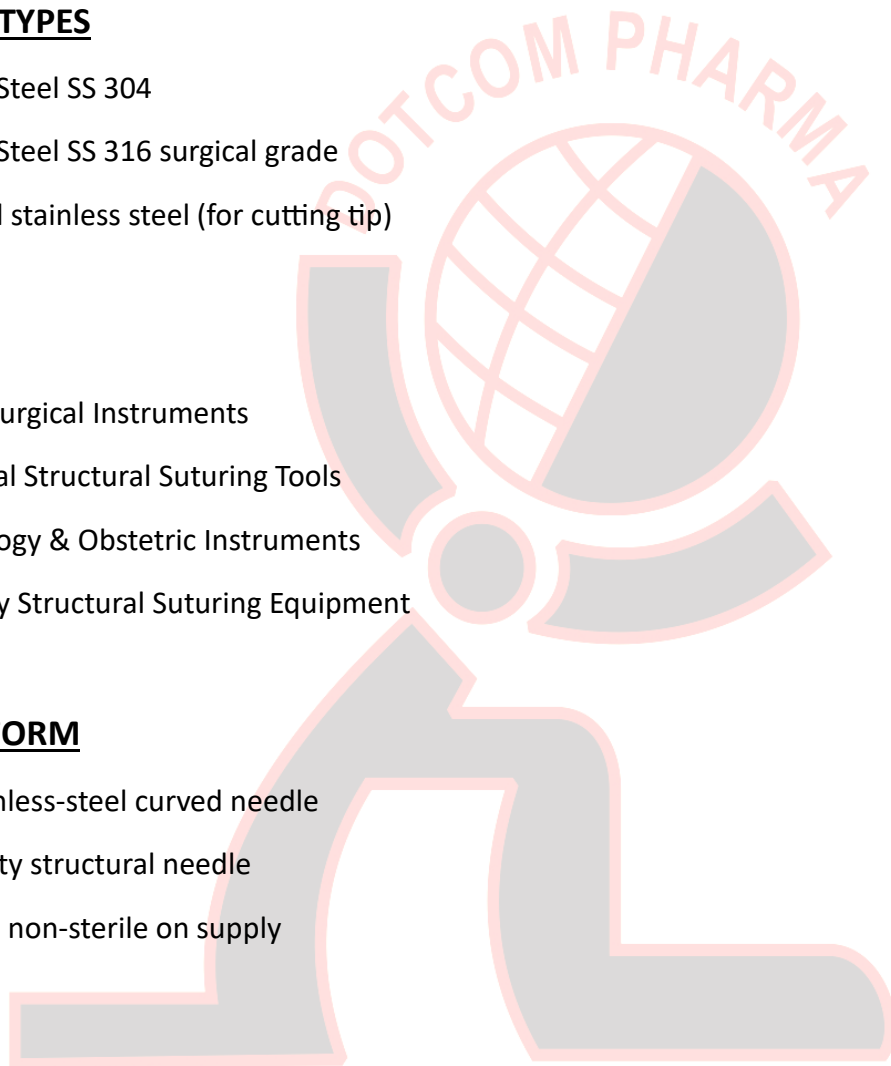
📄 PRODUCT FORM

- Solid stainless-steel curved needle
- Heavy-duty structural needle
- Reusable, non-sterile on supply

🔪 USAGE

Human Application:

- Closing abdominal wall layers
- Deep fascial suturing
- Structural support stitches
- Gynaecology & obstetric abdominal closures
- Large wound approximation



Veterinary Application:

- Closing abdominal incisions in large & small animals
- Heavy tissue suturing in livestock
- Structural tissue repair
- C-section closures in animals

★ ADVANTAGES

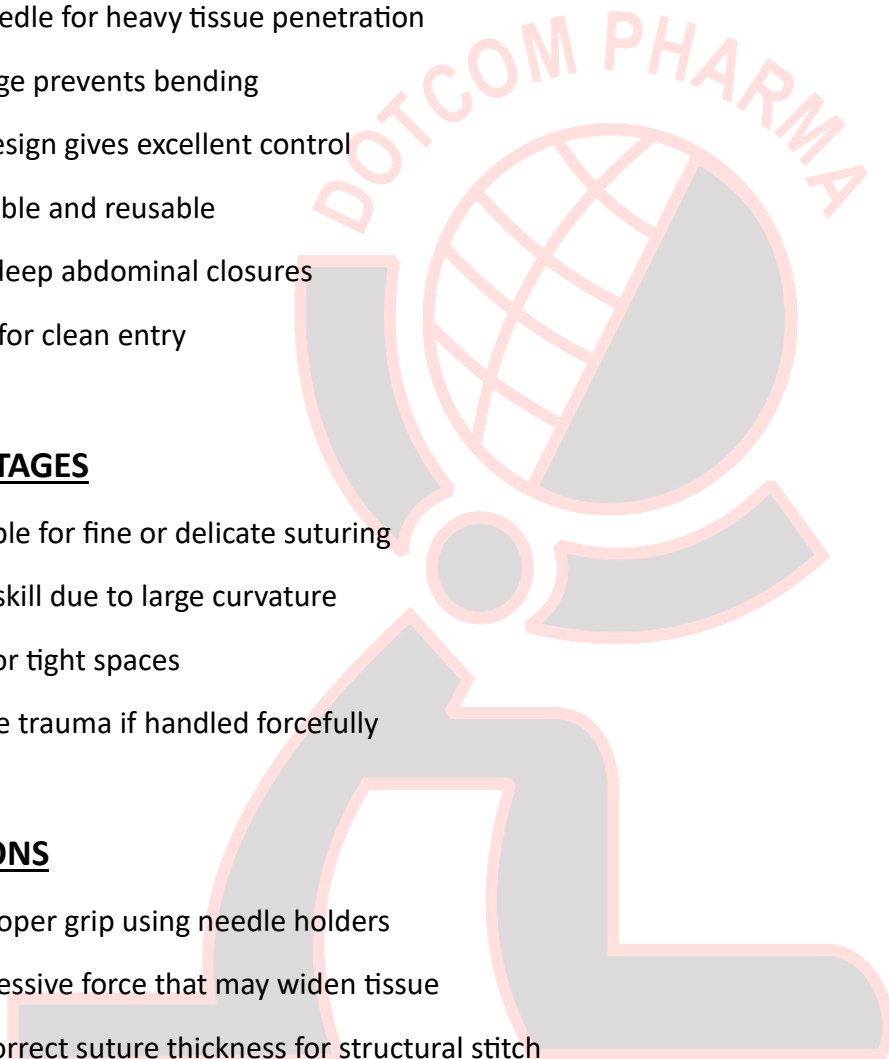
- Strong needle for heavy tissue penetration
- Thick gauge prevents bending
- Curved design gives excellent control
- Autoclavable and reusable
- Ideal for deep abdominal closures
- Sharp tip for clean entry

⚠ DISADVANTAGES

- Not suitable for fine or delicate suturing
- Requires skill due to large curvature
- Difficult for tight spaces
- May cause trauma if handled forcefully

🚫 PRECAUTIONS

- Ensure proper grip using needle holders
- Avoid excessive force that may widen tissue
- Choose correct suture thickness for structural stitch
- Inspect needle for bends or bluntness before use
- Sterilise properly before abdominal procedures



HANDLING DETAILS

- Hold with a strong needle holder at 1/3 from the tip
- Insert with controlled, sweeping motion
- Use reinforced sutures (nylon, polyester, etc.)
- Clean thoroughly immediately after procedure
- Store in protective needle cases

STERILISATION DETAILS

- Fully autoclavable
- EO (Ethylene Oxide) compatible
- Chemical sterilisation safe
- Dry completely to prevent corrosion
- Avoid abrasive scrubbing on tip or body

HS CODE (Harmonized System Code)

HS Code: 9018 – Medical, surgical, dental, veterinary instruments.

HSN CODE (India)

HSN Code: 9018.32 – Surgical needles.

FAQ (Frequently Asked Questions)

1. What is a Sims Abdominal Structural Needle used for?

For heavy-duty suturing of abdominal walls, fascia, and deep tissues.

2. Is it reusable?

Yes, made from stainless steel and fully autoclavable.

3. Is it curved or straight?

Mostly curved for better access and leverage.

4. Can it be used in veterinary surgeries?

Yes, widely used in abdominal closures for animals.

5. What sutures are recommended?

Thick, strong sutures such as nylon, polyester, or braided structural sutures.