

◆ Product Overview

Rochester Carmalt Forceps are surgical instruments used to clamp large blood vessels or tissue bundles during surgeries. They feature longitudinal serrations with cross-serrated tips and a ratcheted locking mechanism, ideal for secure, non-slip clamping during major procedures.

◆ Description & Specification

<u>Feature</u>	<u>Details</u>
Type	Hemostatic surgical clamp (artery forceps)
Jaw Type	Longitudinal serrations + cross-serrated tips
Locking Mechanism	Ratcheted (3 to 4 steps) for secure hands-free clamping
Handle	Ring handle
Material	German-grade surgical stainless steel (1.4301 / 1.4571)
Finish	Satin (non-reflective) or mirror finish
Sterilization	Autoclave (134°C), EO gas, Gamma
Reusability	Reusable & autoclavable
Corrosion Resistance	Passivated and rust-resistant

◆ Available Sizes & Types

Length	Type	Variants
5.5 inches (14 cm)	Straight / Curved	Standard
6.25 inches (16 cm)	Straight / Curved	Standard
8 inches (20 cm)	Straight / Curved	Long/Deep surgery

◆ Product Classification

Category	Details
Product Category	Haemostats & Clamps
Subcategory	Artery Forceps
Medical Field	General Surgery, Gynecology, Ortho, Urology
HS Code (Global)	9018.90
HSN Code (India)	9018.90.23 (Forceps and similar instruments)
GST Rate (India)	12% (6% CGST + 6% SGST)

◆ Common Uses

Clamping ovarian pedicles (spay surgeries)
Ligating large blood vessels in abdominal or thoracic surgery
Controlling bleeding during major procedures
Used in:
General Surgery
Gynecology & Obstetrics
Orthopedic Surgery
Veterinary Surgery
Oral & Maxillofacial Surgery

◆ Advantages

Secure grip on thick tissue or vessels
Locking ratchet enables hands-free operation
Durable and corrosion-resistant
Ergonomic ring handle design
Autoclavable and reusable

◆ Disadvantages

May crush tissue if over-tightened
Not suitable for fine or delicate tissue work
Heavy instruments can cause hand fatigue
Requires careful maintenance and sterilization

◆ Sterilization Details

Methods Supported:

Steam Autoclaving at 121–134°C
Ethylene Oxide (EO) gas sterilization
Gamma Radiation (for packaging, if applicable)

Cleaning:

Ultrasonic cleaner recommended
Use neutral pH enzymatic detergents
Inspect hinges and jaws before each use
Lubricate joints regularly to maintain function

◆ Precautions

Do not apply excessive force using ratchet
Avoid harsh acidic cleaning agents
Always inspect for corrosion, cracking, or lock failure before use
Ensure proper drying after autoclave to prevent rust

◆ Frequently Asked Questions (FAQs)

Q1: What's the difference between Kelly and Rochester Carmalt Forceps?

A: Carmalt has longitudinal serrations and cross-serrated tips for heavy-duty use; Kelly has partial lateral serrations.

Q2: Which is better—curved or straight?

A: Curved is ideal for deep or angled access; straight is for superficial or general access.

Q3: Are left-handed versions available?

A: Yes, some manufacturers offer curved left-handed variants.

Q4: How do I prolong the life of the forceps?

A: Clean immediately after use, sterilize properly, and regularly inspect for wear or corrosion.

✔ Summary Table

<u>Aspect</u>	<u>Details</u>
Sizes	5.5", 6.25", 8" (Curved & Straight)
Material	German Stainless Steel
HSN / HS Code	9018.90.23
Sterilization	Autoclave, EO, Gamma
Application	Major vessel clamping in surgery
Finish	Satin / Mirror
Form	Reusable, Passivated