



ROSS-10S

Veterinary Shaver System

Console Unit Specifications ROSS-10S



Overview

The Veterinary Shaver System is an advanced motorized debridement platform designed for minimally invasive orthopedic and arthroscopic procedures in animals. Built with high torque performance, intuitive control, and a range of compatible burs and blades, the system delivers precision tissue resection, joint debridement, and bone shaping under endoscopic guidance.

Application

The system is ideal for small and large animal arthroscopy, including canine, feline, and equine procedures.

- **Removal of cartilage and bone fragments** in cases of osteochondritis dissecans (OCD)
- **Debridement of meniscal or ligament injuries** in the stifle, shoulder, and elbow
- **Arthroscopic-assisted fracture repair**, aiding in screw or implant placement
- **Joint lavage** during diagnostic or therapeutic procedures Compatible with rigid endoscopes and irrigation systems, the shaver system enhances procedural efficiency and visibility across a wide range of joint and soft-tissue veterinary surgeries.

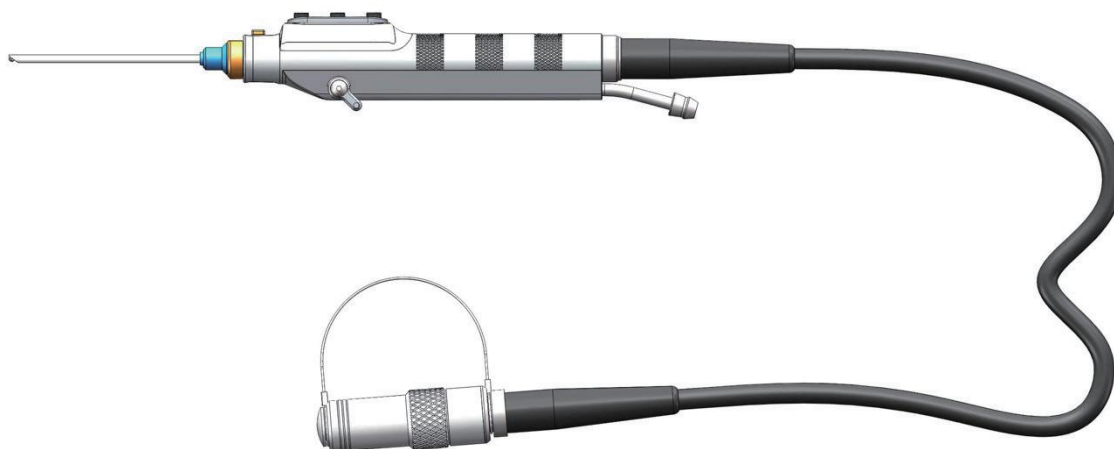
Product Features

- **Integrated Peristaltic fluid Pump:** The system features a powerful built-in peristaltic fluid pump, providing precise and adjustable irrigation flow control during surgical procedures. Able to connect suction unit on the hand piece or an external suction unit.
- Touch screen operation, 7 inch operation interface
- Controlled by buttons on the handpiece or by footswitch,
- 2 handle interfaces, can be connected to a variety of handles, a machine for multiple uses 9 oscillation modes
- Fully autoclavable, small and ergonomic handpiece, light weight, developed for veterinarians.
- Dedicated mini shaver blades, 2.5mm and 4mm diameter Window function
- Clockwise and anticlockwise speeds of up to 1000-10000 rpm, precisely adjustable with touch screen, with a small tolerance of $\pm 10\%$.

With its own water pump, convenient and economical easy to operate.

Low noise level, 60db

Handpiece Specification



Speed range:

Forward/Reverse rotation: 1,000 rpm – 10,000 rpm

Accuracy: $\pm 10\%$

Reciprocating: 500 rpm – 7,500 rpm

Operating noise: 60 dB

Operating mode: The orthopedic handpiece runs intermittently under full load.

Product Features

- Fully autoclavable, small and ergonomic handpiece, light weight, developed for veterinarians.
- Controlled by buttons on the handpiece, forward, backward, oscillation modes

Size

- Handpiece hold length 150mm, the Diameter 30mm

Blade Specification



Orthopedic Blade

Diameter: 4mm, 2.5mm

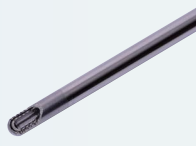
Surface roughness of optical surface: $\leq 1.6 \mu\text{m}$

Working length: 80mm

Blade tip hardness: $>450 \text{ HV}$

5 Blades: **Clean cut, Fast Cut, Full Radius, Oval, Round.**

Shaver System Burrs Application

Full Radius Bur		Application: Used for general-purpose soft tissue removal during arthroscopic procedures. Typical Use: •Efficient debridement of synovium and fibrous tissue •Commonly applied in knee (e.g., meniscectomy) and shoulder (e.g., subacromial bursectomy) surgeries •Ideal for clearing the joint space and improving visualization
Clean Cut Bur		Application: Designed for precise and smooth tissue trimming. Typical Use: •Trimming torn edges of meniscus or labrum •Preferred in hip, shoulder, and ankle joints where controlled cutting is necessary •Reduces trauma to surrounding tissue
Fast Cut Bur		Application: Used for rapid resection of fibrotic or thickened tissue. Typical Use: •Removing hypertrophic synovium •Cleaning up loose bodies and cartilage debris in knee, elbow, or shoulder arthroscopies •Enables faster tissue removal when time and efficiency are priorities
Oval Bur		Application: Designed for broader surface area contact and aggressive tissue resection. Typical Use: •Large volume tissue removal in knee or shoulder joint •Suitable for subacromial decompression or scar tissue clearance •Effective when large soft tissue beds need to be cleaned
Round Bur		Application: Used in delicate and confined joint spaces where smooth resection is essential. Typical Use: •Fine soft tissue removal in wrist, ankle, or small joint arthroscopy •Helpful in synovectomy and capsule resection •Designed for controlled and safe operation around sensitive structures

Shaver Clinical Application

2.5mm Blade Application Scenarios

The 2.5mm diameter blade is ideal for small animals and minimally invasive joint procedures,

including:

Small breed dogs

Cats – especially in tight joint spaces such as the stifle or elbow

Exotic small mammals

Endoscopic debridement or lavage in tight or delicate spaces

Pediatric animal surgery where precision and minimized trauma are critical

Its compact size and lightweight handpiece allow for delicate maneuvering, essential for maintaining visibility and control during fine arthroscopic work.

Shaver Clinical Application

4.0mm Blade Application Scenarios

The 4.0mm blade is more suitable for medium to large animals, including:

Medium to large breed dogs (e.g., Labrador Retriever, German Shepherd)

Horse joint cleaning and debridement in smaller equine joints

Aggressive cartilage resection and synovectomy procedures

Routine arthroscopic clean-up of joints such as the shoulder, stifle, or hip in large dogs

Soft tissue shaving during orthopedic or sports injury interventions

This blade provides higher mechanical strength and better efficiency for removing larger tissue volume.



Including List

Generator	ROSS-G-001	/	1
Motor Handpiece	ROSS-H-001	/	1
Footswitch	ROSS-FS-001	/	1
full radius blade	ROSS-SA-001	2.5mm*80mm	1
clean cut blade	ROSS-SA-002	2.5mm*80mm	1
fast cut blade	ROSS-SA-003	2.5mm*80mm	1
oval blade	ROSS-SA-004	2.5mm*80mm	1
round blade	ROSS-SA-005	2.5mm*80mm	1
Fluid Needle (Two Options)	FTO1/FTO2	/	1
Silicone Fluid Tube	PST-25	Length: 4M Φ4.8mm*Φ8mm	1

Technical Parameters

Power connection	Power output	Dimensions and weight
Rated supply voltage: 100–220 VAC	Maximum output: 160VA	Width x depth x height: 350 × 380 × 155 mm
Rated supply frequency: 50Hz		Weight: 8 kg