

New

ReNew XR Laparoscopic Handpiece



ENHANCED DESIGN:

- O-Ring Free Design
- Improved Electrical Safety
- Extended Reuse Life

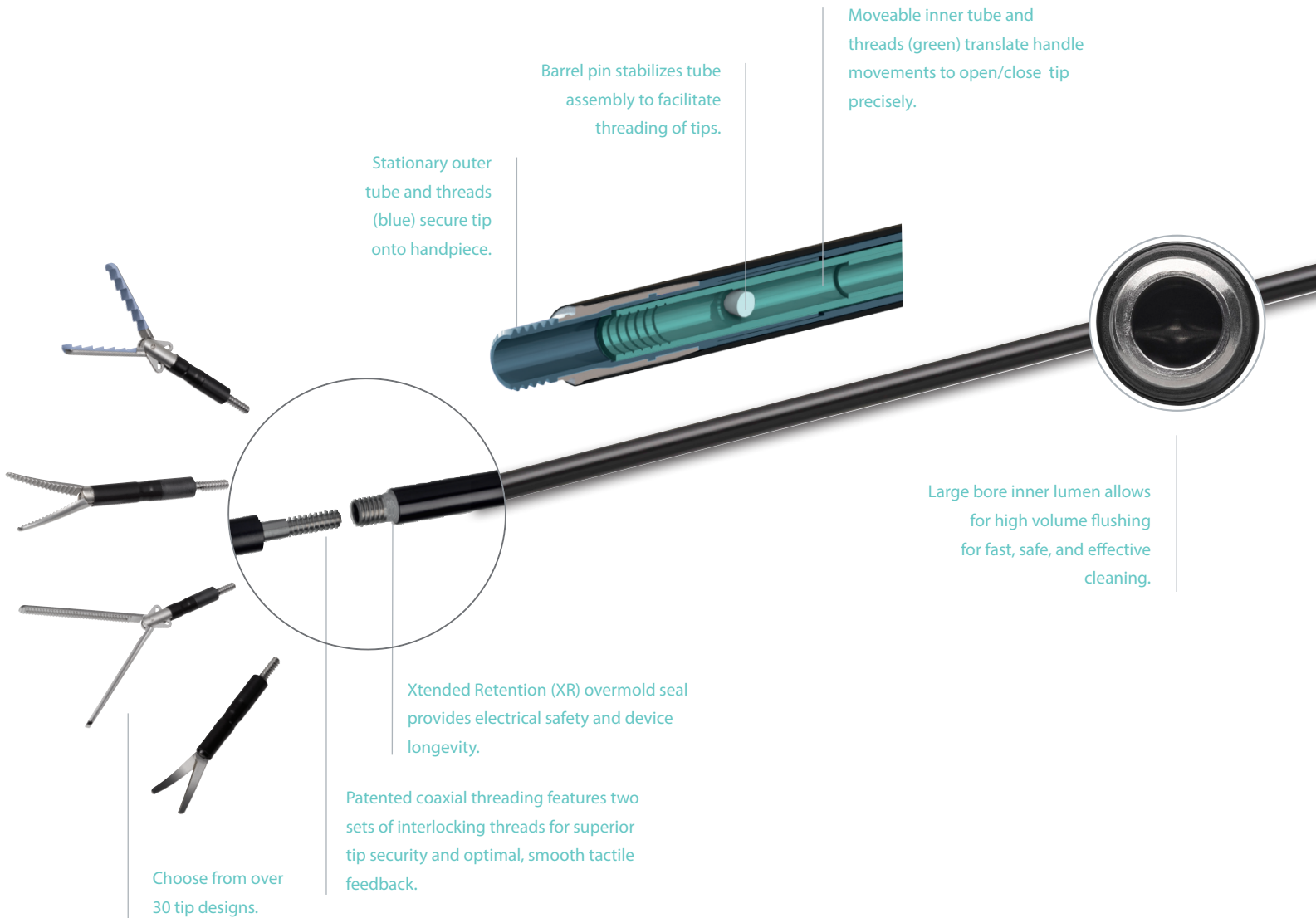


QUALITY, COST REDUCTION AND WASTE MINIMIZATION COMBINED IN ONE REPOSABLE SYSTEM.

The technology of the ReNew XR system pairs an ergonomic, high quality, reusable handpiece with a wide range of disposable scissor, grasper and dissector tips to meet the needs of both surgeons and sterile processing departments.

ReNew XR handpieces provide the opportunities to control your Total Cost of Ownership via:

- reductions in inventory, cleaning, testing, packing and unused equipment.
 - cost containment and cost reduction associated with repair and replacement of laparoscopic instruments.
 - reduced risk of surgical site infection.
 - reduction of surgical waste and associated costs.
- ... without compromising on surgical performance.



INTERNATIONAL STANDARDS

Sterilization

- ISO 149372 2nd Edition
- ISO 17665-1 1st Edition

Reprocessing

- ISO 17665 2nd Edition

Electrical Safety

- IEC 60601-1 3rd Edition
- IEC 60601-1-2 4th Edition

Biocompatibility

- ISO 10993-1 5th Edition

The unique design of the ReNew XR handpiece ensures low hysteresis, performing like a one-piece instrument, while retaining the benefits of a reusable platform.

ReNew XR handpieces have undergone extensive reprocessing cycle validations, making them economically and environmentally sustainable.

PRECISION CUT DISPOSABLE SCISSORS

All Microline disposable scissors receive an electro-chemical treatment, resulting in a clean cut along the entire length of the blade to ensure that the last cut is as precise as the first.



Hook

REF 3132



Micro

REF 3122



Mini Endocut

REF 3152



Endocut

REF 3142



Metzenbaum

REF 3112



**Delicate
Metzenbaum**

REF 3162



High dielectric strength PEEK (TM)** shaft material provides excellent electrical insulation².

CONTROL TIP DISSECTORS

All Microline disposable tips are designed to offer precise dissection and increased response.



Dolphin Nose

Traditional tapered dissector pattern with micro-serrations at the tip. Wider opening jaws. Slightly longer for increased versatility. Recessed smooth proximal area. REF 3312



Traditional Maryland

Gentle curve with tapered, serrated jaws. Effective for suture grasping and knot tying. REF 3352



Modified Maryland

A slender jaw design with micro-serrations and a pronounced angle at the tip allows for more delicate tissue manipulation. REF 3322



5mm Right Angle

True right angle for wide tissue spread and dissection around delicate structures. REF 3332



10mm Right Angle

Extra tip length for greater visibility. Requires a 10mm Trocar. REF 3342



Micro Dissector

Duck Bill Dual bevel entry, small jaws and teeth allow for precise dissection and enhanced visibility. REF 3472

CONTROL TIP GRASPERS

Safe and secure tissue grasping, without exerting excessive pressure.



Grabber

More distinctive jaw pattern with large, smooth retrograde teeth for firm hold. REF 3242



Lapclinch

Microline's answer to the most popular disposable grasper patterns. Larger serration at tip and recessed proximal area. REF 3252



Cobra Tooth

Jaw design provides an extremely secure grip. Improved traditional design for extraction of tissue. REF 3412



Allis Graspers

Single row of Allis teeth with a serrated jaw. REF 3372



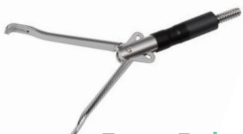
Modified Traditional

A longer bullet nose jaw with closely fitting distal teeth and toothed proximal recesses for grasping and manipulation of moderately bulky tissue. REF 3232



Traditional

A bullet nose jaw with closely fitting distal teeth and toothed proximal recesses for grasping and manipulation of moderately bulky tissue. REF 3202



5mm Babcock

Traditional pattern with smaller grasping pads for use on the most delicate tissue. REF 3302



10mm Babcock

Traditional design with larger jaws provides greater grasping and manipulation of the most sensitive tissues. Requires a 10mm trocar. REF 3382



Modified Traditional Babcock

Traditional pattern with larger grasping pads to permit more secure, gentle grasping of delicate tissues. REF 3272



Long Fenestrated

A slender jaw design with micro-serrations and a pronounced angle at the tip allows for more delicate tissue manipulation. REF 3262



Modified Raptor

Our most versatile all-purpose grasper. Beveled edges and a capture box permit secure, atraumatic hold. REF 3292



Hunter

Full length Debakey-style teeth provide secure yet atraumatic grasping while manipulating delicate tissue. REF 3362



Fenestrated

Fenestrated and grooved slot to allow for strong yet gentle grasping. REF 3222



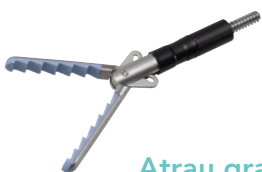
Micro Fenestrated

Full radius tip, tapered entry fenestrated jaws allow for wide dissection and secure grasping. REF 3402

SUPER-ATRAU GRASPERS

Safe and secure grasping of the most delicate tissues.

- Soft insert reduces force on tissue
- Reduces the risk of tissue tears and perforations
- Non-latex padding



Atrau grabber

Our most versatile all-purpose atraumatic grasper with polymer pads. REF 3622



Atrau Modified Raptor

Distinctive jaw pattern with polymer pads provides a secure grip on soft tissue. REF 3632



Atrau Fenestrated

Fenestrated jaws with polymer pads. Excellent for blunt dissection. REF 3642

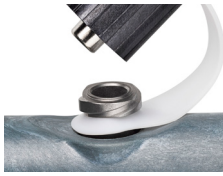


Atrau Short Grabber

Short design combined with polymer pads. REF 3652

FAST, SAFE AND EFFECTIVE CLEANING

The ReNew XR handpiece is designed to be cleaned quickly and easily: The disposable tip is removed and discarded, the cautery post is unscrewed and the handpiece is ready for cleaning. No further disassembly is required. Contact your Microline sales professional for a full cleaning demonstration and efficiency study.



Monopolar cautery pin with integrated flushport beneath. Removable cautery cap doubles as flushport luer cover



Cautery posts available in two sizes



Comfortable single-handed 360° rotation knob

Optional, easy ratchet for right or left-handed operation



Delivered with two sets of removable, reusable non-latex ring inserts for custom fit and comfort



MICROLINE IS A GLOBAL LEADER IN REPOSABLE LAPAROSCOPIC INSTRUMENTATION

95% OF SURGEONS RESPONDED THAT THE RENEW INSTRUMENTS ARE IDEAL OR COMPLETELY SATISFACTORY FROM A STANDPOINT OF OVERALL EFFECTIVENESS ¹

THE RENEW XR HANDPIECES

The ReNew XR handpieces are available in ratcheted and non-ratcheted versions. Both versions are available in 25, 34 and 42 cm lengths. Each ReNew XR handpiece is designed to fit any Microline scissor, grasper or dissector tip.

All components of the ReNew XR system are assembled in USA from domestic and imported materials.



ORDERING INFORMATION FOR MICROLINE RENEW XR LAPAROSCOPIC HANDPIECE:

REPLACES RENEW IV CODE(S):

ReNew XR Laparoscopic Handpiece	25 cm	REF 3943	REF 3908*
	34 cm	REF 3941	REF 3904* & 3924*
	42 cm	REF 3942	REF 3905* & 3925*
ReNew XR Ratcheted Laparoscopic Handpiece	25 cm	REF 3946	REF 3918*
	34 cm	REF 3944	REF 3914* & 3934*
	42 cm	REF 3945	REF 3915* & 3935*
Cautery Post	Standard 1.4 cm	REF 63-08-00	
	Long 2.3 cm	REF 63-09-00	
Ring inserts	Small (set of 3)	REF 3909	
	Medium (set of 3)	REF 3910	

***NO LONGER AVAILABLE FOR SALE AFTER 5/31/2023**

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*PEEK is a registered trademark of Victrex, Inc.

US Patent 5,358,508

References:

(1) 2020 Microline Post-Market Clinical Follow-Up Survey Study | (2) Complies with IEC 60601-1-2 Fourth Edition & 60601-1 3rd Edition
(3) Complies with ISO 14937 Second Edition, 17665-1 First Edition, 17664-1 First Edition & 10933-1 Fifth Edition

Important information: Prior to use, refer to Instructions for Use (IFU) supplied with the device. IFUs may also be obtained by contacting Microline Customer service, or by visiting www.microlinesurgical.com/resources/ifus/. Caution: Federal (USA) law restricts this device to sale by or on the order of a Physician.

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