



# Snowden-Pencer™ 3-mm laparoscopic instruments

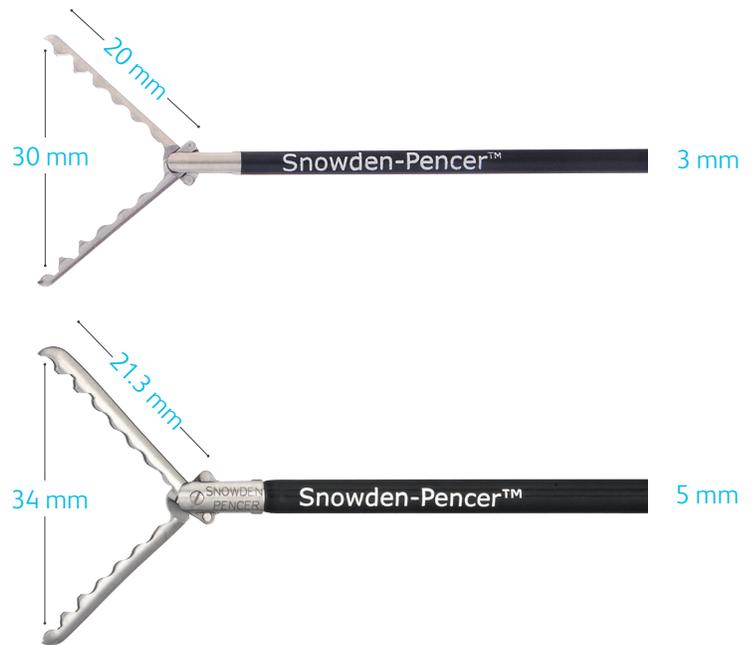
BD worked with leading surgeons for more than two years to find the ideal balance of function, strength and design in a 3-mm instrument size. The result of our collaboration is the new portfolio of Snowden-Pencer™ 3-mm instruments, which feel and function like 5-mm instruments. The two-piece modular design features a large selection of 26 jaw patterns, in two lengths and six handle styles. This industry-leading portfolio gives you more than 300 configurations to confidently accomplish nearly any surgical task.



## Big jaws, small diameter

Our 3-mm instruments offer jaw features that are closely scaled to standard laparoscopic instrument size. The 3-mm jaw lengths and opening widths provide maximum tissue purchase, allowing the instruments to perform like 5-mm instruments.

Thanks to this tailored design, you can feel confident using a microlaparoscopic instrument for your most challenging surgical tasks.



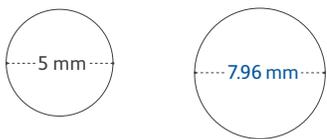
## A true 3-mm incision

Several manufacturers state that their disposable trocars are 5 mm in diameter. In actuality, they can be much larger, which means more trauma to your patients.\* Microlaparoscopic procedures that utilize 3-mm trocars result in better cosmesis and patient comfort post-surgery.<sup>1</sup>

### Ethicon

Endopath XCEL® trocar  
5 mm x 100 mm, dilating tip

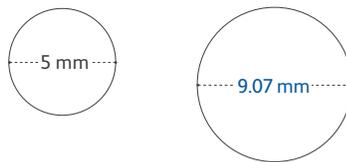
Stated diameter:      Actual diameter:\*



### Applied Medical Resources

Kii Advanced Fixation  
5 mm x 100 mm, dilating tip

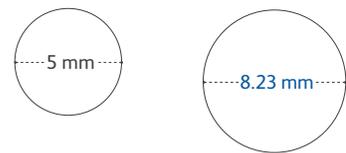
Stated diameter:      Actual diameter:\*



### Medtronic Versaport™

Bladeless trocar  
5 mm x 115 mm

Stated diameter:      Actual diameter:\*

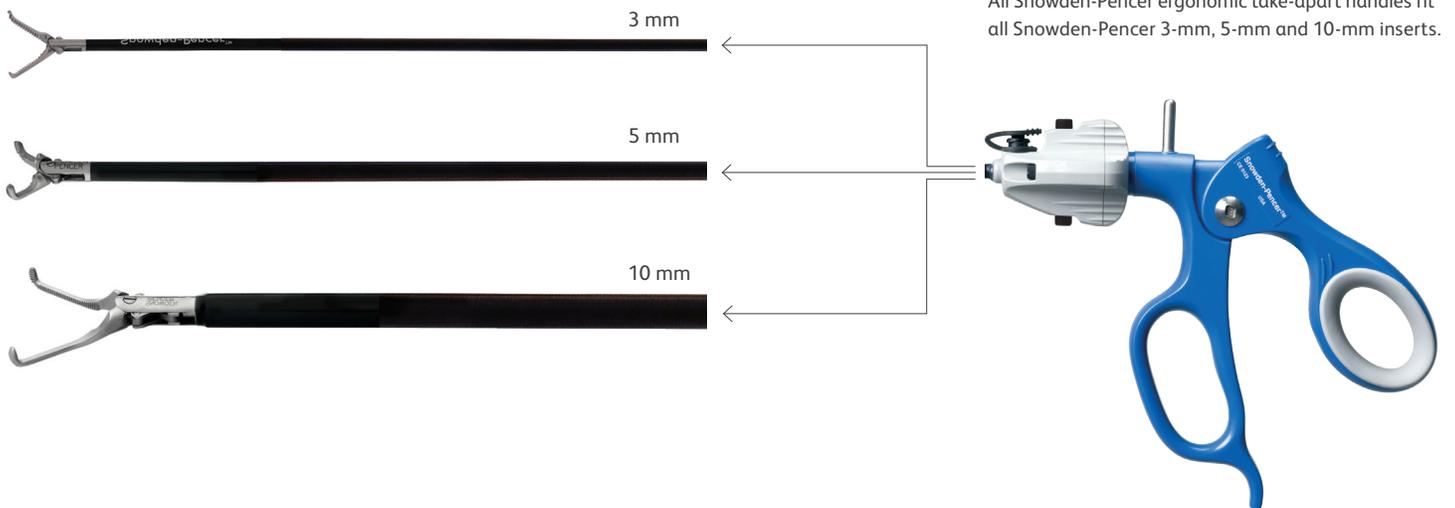


## Smaller incisions, happier patients

By minimizing skin tissue trauma and abdominal wall damage, microlaparoscopic procedures promote quicker recovery time as well as produce smaller incisions that can help improve postoperative cosmesis and comfort for your patients.<sup>1</sup>

# Modular take-apart system

Assembly and disassembly is quick and intuitive, allowing for easy inspection during cleaning to help support sterility initiatives. The two-piece 3-mm microlaparoscopic portfolio uses the same ergonomic handles as our three-piece 5-mm and 10-mm instruments for a truly integrated, versatile portfolio of modular laparoscopic instruments.



Our modular system features:

$$\begin{matrix} 6 \\ \text{handles} \end{matrix} \times \begin{matrix} 2 \\ \text{lengths} \end{matrix} \times \begin{matrix} 26 \\ \text{jaw patterns} \end{matrix} = \begin{matrix} \text{More than} \\ 300 \\ \text{available options for} \\ \text{3-mm instruments} \end{matrix}$$

The complete 3-mm portfolio includes:

15 graspers + 4 dissectors + 3 needle holders + 4 scissors + Various scopes, trocars and accessories

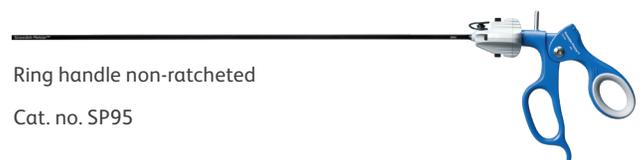
## Increase comfort, reduce fatigue

For years, surgeons have endured using laparoscopic instruments designed with little to no ergonomics. The result has been an increased prevalence of neuromuscular or arthritic symptoms.<sup>2</sup> One study concluded that 87% of surgeons who regularly perform minimally invasive surgery suffer from occupational injury symptoms.<sup>3</sup> To help avoid these conditions, Snowden-Pencer ergonomic ring handles were designed to evenly distribute pressure throughout the entire hand. By increasing hand-surface contact, the Snowden-Pencer ring handle may reduce hand fatigue and improve comfort during long procedures.

Snowden-Pencer ergonomic handles are available in ring, pistol-grip and in-line styles. These ergonomic handles feature an integrated ratchet mechanism that allows you to adjust the ratchet quickly and easily. The handles are designed to be used with or without a locking mechanism.



Ring handle ratcheted/ratchet defeat  
Cat. no. SP94



Ring handle non-ratcheted  
Cat. no. SP95



In-line ratcheted handle—rotating  
Cat. no. SP96



In-line ratcheted handle—nonrotating  
Cat. no. SP97



Pistol-grip ratcheted handle—rotating  
Cat. no. SP98



Pistol-grip ratcheted handle—nonrotating  
Cat. no. SP99

## Warranted quality designed by surgeons for surgeons

Our 3-mm instruments are the result of years of surgeon-assisted research and development. We now present an industry-leading portfolio of 3-mm instruments that feel and function like 5-mm instruments. Each 3-mm instrument is designed and manufactured for strength and durability to withstand the demands of the operating room and sterile processing department. They are protected by a full-service one-year warranty, plus a lifetime warranty against manufacturing defects.

Dissectors	Description	Jaw length (mm)	24-cm insert	36-cm insert
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KELLY	13	SP0324-KLY	SP0336-KLY
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MARYLAND	18	SP0324-MD	SP0336-MD
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MIXTER	20	SP0324-MX	SP0336-MX
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Right angle	11	SP0324-RA	SP0336-RA
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Needle holders	Description	Jaw length (mm)	24-cm insert	36-cm insert
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Curved left	7.5	SP0324-NHCL	SP0336-NHCL
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Curved right	7.5	SP0324-NHCR	SP0336-NHCR
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Straight	7.5	SP0324-NH	SP0336-NH
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Graspers		Description	Jaw length (mm)	24-cm insert	36-cm insert
		ALLIS	20	SP0324-AG	SP0336-AG
		BABCOCK	18	SP0324-BK	SP0336-BK
		Biopsy cup with thorn	6.6	SP0324-BK	SP0336-BK
		Bullet nose, short	14	SP0324-BN	SP0336-BN
		Bullet nose, long	18	SP0324-BN-18	SP0336-BN-18
		Claw, single-action, 2 x 3	20	SP0324-CSA	SP0336-CSA
		DEBAKEY	20	SP0324-DB	SP0336-DB
		Dolphin nose	10.3	SP0324-DG	SP0336-DG
		JOHANN, fenestrated, double-action	20	SP0324-JDA	SP0336-JDA
		JOHANN, fenestrated, single-action	20	SP0324-JSA	SP0336-JSA

## Graspers (con'td)

	Description	Jaw length (mm)	24-cm insert	36-cm insert
	MCKERNAN ADSON	17	SP0324-MA	SP0336-MA
	Tenaculum	20	SP0324-TN	SP0336-TN
	Universal	17.5	SP0324-UG	SP0336-UG
	Wavy, double-action	20	SP0324-WDA	SP0336-WDA
	Wavy, single-action	20	SP0324-WSA	SP0336-WSA

## Scissors

	Description	Jaw length (mm)	24-cm insert	36-cm insert
	Curved METZENBAUM	11.5	SP0324-CM	SP0336-CM
	Hook	4.5	SP0324-HS	SP0336-HS
	Straight METZENBAUM	11.5	SP0324-SM	SP0336-SM
	Straight peritoneal	6.3	SP0324-SP	SP0336-SP

To learn more about Snowden-Pencer 3-mm instruments, contact your sales representative, call Customer Service at **800.323.9088** or visit [bd.com/New3mm](http://bd.com/New3mm)

#### References

1 Redan JA, Humphries AR, Farmer B, et al. Big operations using mini instruments: the evolution of mini laparoscopy in the surgical realm. *Surg Technol Int*. 2015;27:19–30. 2 Gofrit ON, Mikahail AA, Zorn KC, Zagaja GP, Steinberg GD, Shalhav AL. Surgeons' perceptions and injuries during and after urologic laparoscopic surgery. *Urology*. 2008;71(3):404-7. 3 Park A1, Lee G, Seagull FJ, Meenaghan N, Dexter D. Patients benefit while surgeons suffer: an impending epidemic. *J Am Coll Surg*. 2010 Mar;210(3):306-13.

\* BD internal competitive survey VM945, April 2017.

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