

stryker

One
solution.

**Perfectly
aligned.**



Sonopet **iQ**

Ultrasonic Aspirator System in spinal surgery

Bone resection Tissue resection Unmatched cutting tips

Your singular spine **solution**

From cervical to lumbar spine, the Sonopet iQ system has your back. Its integrated power, suction and irrigation give you complete and precise control to resect bone and fibrous/soft tissue. Combined with the market's broadest tip on Sonopet iQ's universal handpiece, customization capabilities, semi-autonomous functionality and simple setup, Sonopet iQ aims to expand your spinal surgery capabilities while streamlining capital costs, staff training, O.R. workspace and inventory.

Common applications include:

- Laminectomy
- Laminoplasty
- Foraminotomy
- Facetectomy
- Corpectomy
- Pedicle subtraction osteotomy
- Vertebral column resection
- Spinal fusions
- Smith-Peterson osteotomies



The ultimate ultrasonic technology



iQ Control:

On-demand customized performance

Our exclusive blend of RFID technology, algorithms and smart features is always in play, automatically adjusting settings for optimal control and performance throughout your entire procedure.



iQ Connect:

RFID-enabled intelligence transfer

Store your custom user profile once and your preferences for tips, handpiece, irrigation and other peripheral devices are instantly transmitted to the console for efficient and effortless surgery.



Proprietary LT Technology

Couples longitudinal with torsional vibration for a 25,000x per second non-rotational motion that resects rigid bone and hard tissue while surrounding elastic soft tissue vibrates away.

Customization for power and control

One-step retrieval of surgeon profile or start up using **surgeon's default profile**

Precise settings for power, suction and irrigation at lower levels

Independent or synchronized settings for power, suction and irrigation

Three foot pedal options; basic wired, advanced wired or advanced wireless

Hand controller for remote control from sterile or non-sterile field

RFID technology instantly changes settings based on connected tip or user profile



Faster resection and more power to tackle cervical/lumbar bone and fibrous tissue

One-step connections for irrigation, suction, tubing and sleeve

93% of ACGME facilities rely on Sonopet⁵

Proven to reduce mean operating time³

Remains well below heat thresholds for osteonecrosis and thermal neural injury following laminectomy⁶



Integrated irrigation improves visibility and control and eliminates exterior wheel and tube threading

Controlled suction pinch valve helps reduce suction around critical structures

Large touchscreen interface

Front facing connections with color-changing feedback; port light signals proper setup

One universal handpiece compatible with all soft tissue/bone tips and tubing

Innovative air-cooling holes designed for heat management

Intuitive setup; all components labeled or color coded, and steps are non-sequential

iQ Broad Knife is designed for **reduced stalling in thick bone**¹

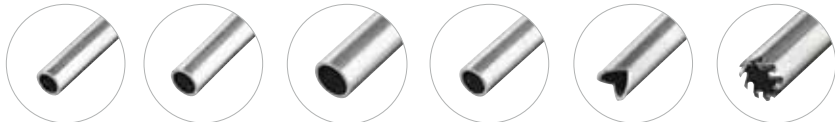
Market's broadest ultrasonic tip lineup on Sonopet iQ's universal handpiece¹

- 16 tips; 10 for bone and 6 for soft tissue
- Various lengths, diameters, tip styles and frangible irrigation sleeves for adjustable surface exposure

"I think the size and the heft... the resilience of the Broad Knife is really appealing."²

Neurosurgeon

Soft tissue



12cm iQ Micro 12cm iQ Standard 12cm iQ Large 20cm iQ Standard 12cm iQ Barracuda 12cm iQ Serrated Large

"Just perfect cuts with it, which is really nice."²

Orthopaedic surgeon

Bone cutting



12cm iQ Micro Claw 12cm iQ Claw 12cm iQ 120 Claw 12cm iQ Apex 360 20cm iQ Apex 360 18cm iQ Micro Claw 18cm iQ Apex Micro Claw 11cm iQ Knife 11cm iQ Apex Knife **10cm iQ Broad Knife**

The iQ Broad Knife is the broadest and thickest knife for enhanced power to cut bone with strength and efficiency on the Sonopet iQ system.

1.4mm cutting width

- Allows for robust cutting experience
- Provides osteotome functionality
- Creates clean-edged kerf channel

8.2mm cutting length

- Non-serrated distal tip for precision and control
- Serrations enhance cutting efficiency (3.2mm from blunt tip)

25mm working length

- Provides optimal access and reach



Trusted resection and power

367%

faster fibrous tissue resection³

133%

faster bone cutting³

75%

more precise suction control⁴

48%

faster setup time³

Making healthcare better, one instrument at a time

You don't settle, and neither do we. With the addition of our Broad Knife tip, the Sonopet iQ ultrasonic portfolio fulfills spinal surgery needs more than ever before. Through continued innovation we aim to improve your procedural experiences and – combined with your skill – procedural outcomes. **For a Sonopet iQ trial or more information, please contact your Stryker Neurosurgical sales representative**

1. Stryker data on file
2. Source and consent on file
3. All comparative metrics and claims are Sonopet iQ compared to Sonopet 1. Stryker internal test data on file
4. Sonopet iQ has improved suction control for delicate resection rates with 75% lower achievable pressure settings compared to the first generation Sonopet. Stryker internal data.
5. The Sonopet Ultrasonic Aspirator is currently being used in 104 out of 112 ACGME teaching institutions in the U.S. Stryker internal data on file.
6. Tarazi, N. et al. "Comparison of thermal spread with use of an ultrasonic osteotomy device: Sonopet ultrasonic aspirator versus Misonix Bonescalpel in spinal surgery." *Journal of Craniovertebral Junction & Spine.* (2018)

Ordering information

Capital					
Part number	Product description				
5500-050-000	Sonopet iQ Ultrasonic Aspirator Console (includes power cord, irrigation pole and hand controller)				
5500-255-000	Sonopet iQ Universal Angled Handpiece				
5500-800-278	Sonopet iQ Sterilization Tray				
5500-402-000	Sonopet iQ Hand Controller				
5500-006-000	Sonopet iQ Basic Foot Pedal - Wired				
5500-007-000	Sonopet iQ Advanced Foot Pedal - Wired				
5500-008-000	Sonopet iQ Advanced Foot Pedal - Wireless (includes wireless receiver)				
5500-008-300	Sonopet iQ Wireless Receiver				
5450-800-039	Sonopet Torque Wrench, 7mm				
5450-850-410	Sonopet Cart				
Disposables					
Part number	Product description				
5450-851-012	Suction Canister, 12/box				
5500-573-000	Sonopet iQ Irrigation Suction Cassette, 4/box				
5500-472-000	Sterile Drape, 4/box				
Soft tissue tips, 4/box					
	L	OD	ID	WL	
5500-25S-309	12cm iQ Micro	4.7in	1.6mm	1.2mm	4.25mm
5500-25S-307	12cm iQ Standard	4.5in	1.92mm	1.5mm	4.25mm
5500-25S-308	12cm iQ Large	4.7in	2.49mm	2mm	4.25mm
5500-25S-301	20cm iQ Standard	8.1in	1.92mm	1.5mm	3.8mm
5500-25S-310	12cm iQ Barracuda	4.5in	1.92mm	1.5mm	4.25mm
5500-25S-316	12cm iQ Serrated Large	4.6in	2.51mm	2mm	4.2mm
Bone cutting tips, 4/box					
	L	CL	CW	WL	
5500-25B-315	12cm iQ Micro Claw	4.8in	1.6mm	2mm	12.25mm
5500-25B-318	12cm iQ Claw	4.8in	1.7mm	2.8mm	12.25mm
5500-25B-317	12cm iQ 120 Claw	4.8in	2.58mm	3.15mm	12.25mm
5500-25B-312	12cm iQ Apex 360	4.8in	2.58mm	3.15mm	12.25mm
5500-25B-302	20cm iQ Apex 360	7.9in	2.5mm	3.15mm	11.05mm
5500-25B-303	18cm iQ Micro Claw	7.2in	1.6mm	2mm	12mm
5500-25B-319	18cm iQ Apex Micro Claw	7.2in	1.6mm	2mm	12mm
5500-25B-107	11cm iQ Knife	4.2in	11.6mm	.83mm	15.25mm
5500-25B-114	11cm iQ Apex Knife	4.2in	12mm	.83mm	15.6mm
5500-25B-110	10cm iQ Broad Knife	3.98in	8.2mm	1.4mm	25mm

Removal of the frangible sleeve adds 7.5mm to working lengths. On 5500-25B-114 and 5500-25B-107 there are 2 frangible sleeves meaning their working length can be increased by 7.5mm or 15mm. For 5500-25B-110 10cm iQ Broad Knife there is no frangible section on the sleeve.

Neurosurgical

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