

# Signature Portfolio

The high speed drill platform of choice







**Dr. Schabel**  
Custom preferences<sup>1</sup>

$\pi$ drive  
Torque 100%  
Speed 75K RPMs  
Irrigation rate 50%  
Brake 35%

## Signature Portfolio

# Create a Signature performance

### Comprehensive collection

We understand—more than anyone—the importance of having all the right tools in the O.R. Giving you access to high performing and customizable options that provide the depth and breadth you need was the reason we created the most comprehensive drill platform in our storied company history. Our Signature Portfolio reflects years of collaboration with surgeons like you to create a broad collection of refined motors, attachments and cutting accessories all designed to give you the functionality and ergonomics you asked for.

### Completely customizable

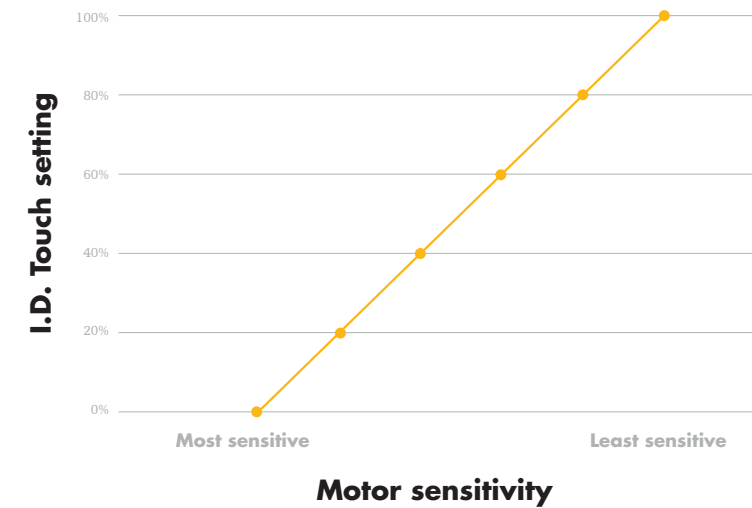
Just as no two patients are alike, we realize that no two surgeons will operate the same. That's precisely why we engineered the Signature Portfolio with the unmatched ability to customize the performance of your drill with your preferred combination of components. With 33 meticulously crafted attachments, the industry's largest selection of cutting accessories and our exclusive I.D. Touch Software on the CORE 2 Console, you're empowered with the ability to calibrate your exact electric drill preferences.

### Consistency and confidence

Reproducible results are something we all aim for in the O.R. By fine-tuning your drill settings to your liking, you can expect nothing less than a consistent and tailored performance that's built around you. Your CORE 2 not only stores your unique settings but provides you with the ability to transfer them to another CORE 2 Console via a portable USB drive. It's just one more way to ensure your drill will perform on demand whether you're operating from room to room or from a demanding to delicate procedure.

## I.D. Touch Software: Define your style

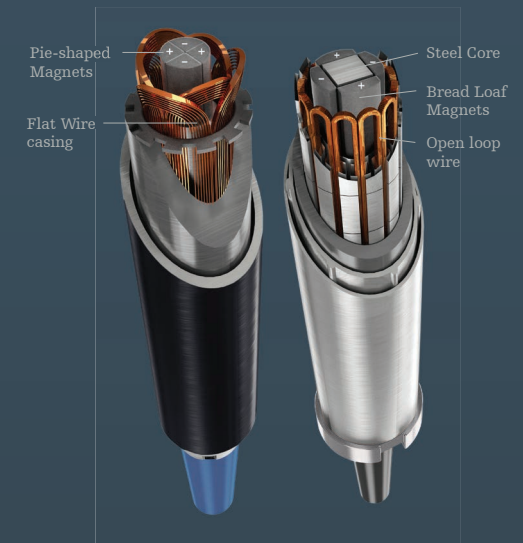
When used with either the  $\pi$ drive or  $\pi$ drive+ motors, your cutting accessories can be optimized even further using I.D. Touch Software on the CORE 2 Console instrument driver. This industry exclusive software enables you to adjust torque from 0-100% to customize how your electric drill responds when pressure is applied during use — from low to high sensitivity — redefining performance to your liking. Your NSE sales representative can guide you through the options and save the performance and feel that's right for you in user preferences.



<sup>1</sup>The console's ability to regulate sensitivity of the motor while in use

## $\pi$ drive Motor Technology

$\pi$ drive Motor vs. Conventional Electric Motor



## Customization beyond compare

Everyone claims to offer a highly customizable drill platform, but we deliver on it. As shown, options for personal preferences are engineered into multiple features, giving you unparalleled ability to control and customize your system.

Your system. Your choice.	Signature Portfolio	Midas Rex	Anspach
Ability to create and store user profiles	•		
Unlimited user profiles	•		
I.D. Touch Software	•		
Adjustable irrigation flow	•	•	•
Customizable foot pedal buttons	•		
Adjustable brake settings	•		
Adjustable acceleration settings	•		
Telescoping cutting accessories; each offering up to 5 choices in reach and shaft exposure	•		
Largest breadth of portfolio options	•		
Detachable electric handswitch options	•		•
4 foot pedal options	•		
4 Pneumatic foot pedal options	•		

We retooled and reconfigured the conventional motor with a patented industry-unique design, used in both the  $\pi$ drive and  $\pi$ drive+ motors by:

- Replacing a nonfunctioning steel core with magnets in a "pie" configuration
- Fully encasing the core with flat wire winding as opposed to an open loop design
- Creating volumetric optimization through reconfiguring internal components to enhance performance, optimize space and limit housing size
- Allowing you to customize how the drill responds and feels via I.D. Touch Software within the CORE 2 Console



# Breadth and depth

Signature Portfolio offers over 100 components to give you optimal power, functionality, ergonomics and maneuverability. This creates an unsurpassed ability to customize your signature style and enhanced confidence in the performance of your drill. Crafted with quality materials and exquisite attention to detail and ergonomics, we're confident that Signature Portfolio high speed drills will exceed your needs.

- 65 cutting accessories
- 33 attachments
- 4 motors; two electric ( $\pi$ drive) and two pneumatic (Maestro Air)

## Touch and feel

- The industry's most comprehensive drill platform; vast selection of motors, attachments and cutting accessories
- I.D. Touch Software customizes how the electric drill responds; giving you the performance and feel you want
- Exclusive 2Flute cutting accessory for 25% chatter reduction<sup>2</sup>
- Unparalleled user customization
- Design refinements for improved balance in hand
- Tapered, concave tip for line of sight
- Knurling for better grip and more options for positioning your hand

## Performance and power

### $\pi$ drive

- Long run time with low heat generation
- Electric motor with speeds up to 75K RPMs
- Patented  $\pi$ drive technology

### $\pi$ drive+

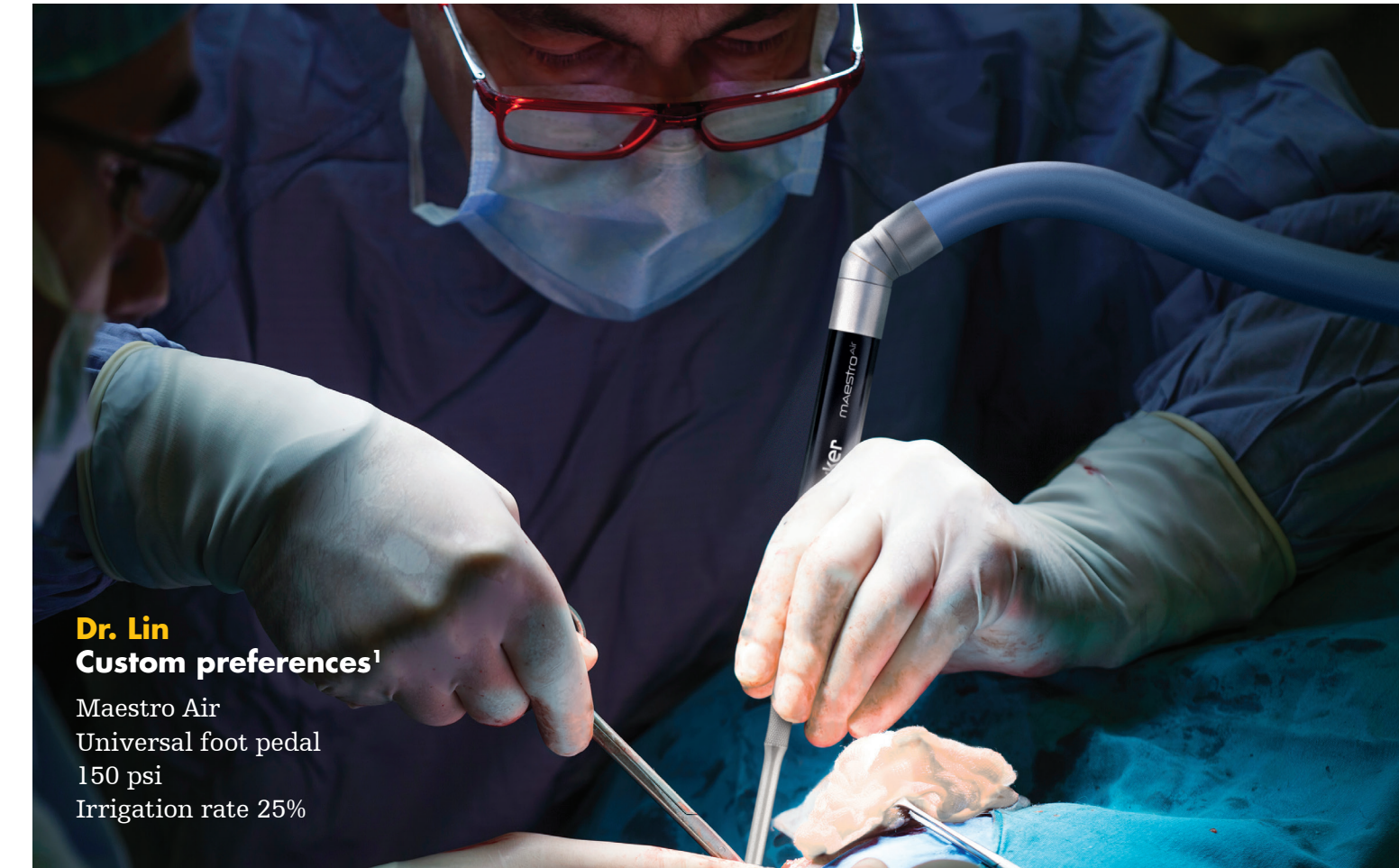
- Added 60% boost in power to get the job done quickly
- 242% more torque at max speed of 75K RPMs
- Patented  $\pi$ drive technology

### Maestro Air

- Pneumatic motor rated up to 150 psi
- 20% more torque than previous model
- 25% more power in watts
- Speeds up to 75K RPMs

## Efficiency and ease of use

- Multi-notch (up to 10mm) telescoping cutting accessories can consolidate inventory items up to 5:1
- Consistency in intuitive assembly/disassembly simplifies use and training
- Color-coded accessory packaging aligns with color-coded attachments to facilitate selection and connection of compatible components; color withstands cleansers and autoclaving
- Alignment dots guide connection of attachments to motor
- Tactile bump indicates the direction footed attachments are facing
- Matching part numbers on routers and footed attachments enable instant pairing in the surgical field
- Connects to our CORE 2 Console which powers multiple instruments simultaneously and uniquely allows you to store your preferred settings

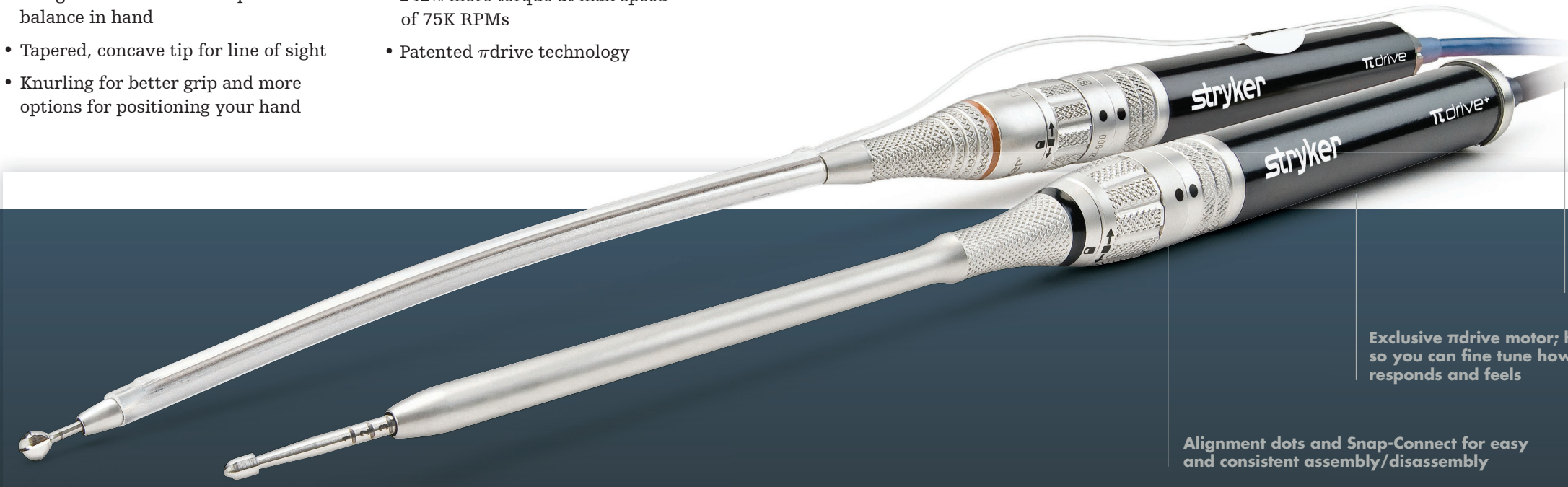


**Dr. Lin**  
**Custom preferences<sup>1</sup>**  
 Maestro Air  
 Universal foot pedal  
 150 psi  
 Irrigation rate 25%

## NEW! Irrigation Sleeves

Deliver precise irrigation by simply sliding over your MIS (13cm or 16cm) or Elite (7cm or 12-20cm) attachment for a total drill solution.

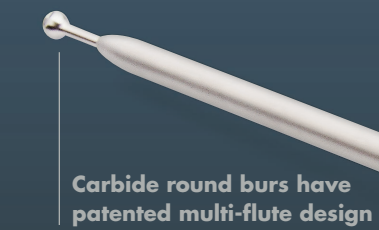
Low profile with ergonomic design facilitates site access and visibility – sterile, disposable and compatible with CORE Console disposable irrigation cassettes



Low-friction coating helps to reduce friction and the collection of debris

Exclusive  $\pi$ drive motor; highly tunable so you can fine tune how the drill responds and feels

Alignment dots and Snap-Connect for easy and consistent assembly/disassembly



Carbide round burs have patented multi-flute design

Features on today's Maestro Air have been elevated to a new level, reflecting our relentless pursuit of improved quality, performance and customer satisfaction.



Optional motor extender for enhanced grip options and ergonomics



Detachable handswitch available for  $\pi$ drive+ motor

## Attachments



Elite

HD

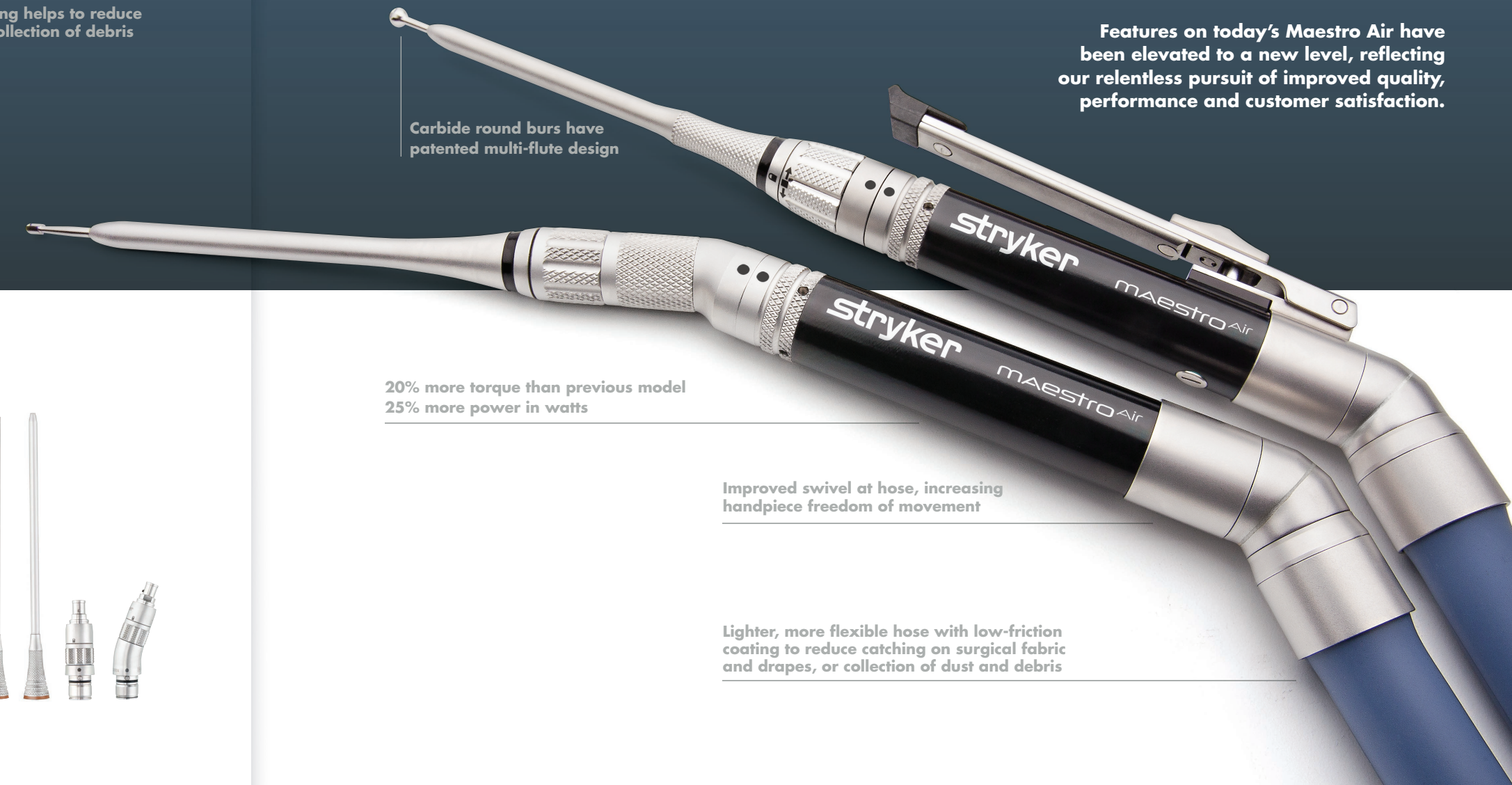
Footed

Minimally Invasive Surgery (MIS)

20% more torque than previous model  
 25% more power in watts

Improved swivel at hose, increasing handpiece freedom of movement

Lighter, more flexible hose with low-friction coating to reduce catching on surgical fabric and drapes, or collection of dust and debris







Cutting Accessories

# Vast and versatile variations

Our expansive selection of cutting accessories were thoughtfully engineered to handle your craniotomies, bone drilling and reaming as well as preparation for screw placement, pins and other fixation devices. Snap-Connect color coding pairs compatible attachments and cutting accessories to make them instantly recognizable. Combined with the compatibility of our Elite Series of telescoping cutting accessories, you'll have access to a wealth of instruments to help fulfill your every need.

**With more than 65 cutting accessories available in various shank sizes, diameters and styles including routers, rounds, match heads and diamond surfaces, you'll welcome the depth and breadth of performance and versatility.**

## Elite LX

**Our new addition of nearly 40 Elite cutting accessories features a range of styles that include carbide burs to reduce chatter by greater than 30% helping neuro, spine and ENT surgeons achieve the exact functionality they need.<sup>3</sup>**



# Customization at the core

The Consolidated Operating Room Equipment (CORE) 2 Console provides a convenient, single control center for a multitude of powered instruments. Here's a look at the many capabilities and benefits it brings to you and your instruments.

- 100+ user profiles that can be stored and transferred to other CORE 2 Consoles via USB drive
- Adjustable acceleration and braking
- I.D. Touch Software for tailored torque, tactile feel and drill precision/performance
- Adjustable irrigation flow rate
- Four foot pedal choices, each with customizable buttons to set desired functions
- Largest breadth of compatible products in our portfolio



## CORE FS

The CORE footswitch provides easy access to power with an ergonomic design to make it accessible from any angle whether sitting or standing.

## A class of its own

Drill and instrument portfolios are only as good as their driver, and ours stands apart from the crowd. Engineered with all the bells and whistles, it empowers your instruments – and you – with added capability and benefits. These value-added features, combined with power and reliability, are why 30,000 CORE Console units are trusted worldwide.

	CORE 2 Console <sup>4</sup>	Medtronic IPC	Anspach EG1
Universal console for use across specialties (capital ROI)	•		
Average cost	•		
Breadth of compatible instrument portfolios	•		
Colored illumination rings indicating matched hand/foot switches	•		
Capable of running two drills simultaneously	•		

# Confidence built around you

We're ready to help you perfect your Signature. For a hands-on product demonstration or to learn how you can customize your Signature Portfolio, contact your Neurosurgical sales representative or visit [neurosurgical.stryker.com](http://neurosurgical.stryker.com). To learn more about our exclusive  $\pi$ drive motor technology, ask your Neurosurgical sales representative about the white paper, " $\pi$ drive Motor Technology: an Assessment of Technological Advantages."



1. Surgeon names and preferences are for demonstration purposes only to help depict the range of performance and customizations possible.
2. Stryker internal data on file, test number S1610.110019. Kalamazoo, Michigan. March, 2011.
3. Stryker internal data on file, test number S12265.161839. Kalamazoo, Michigan. November 2016
4. Competitive data reflects information accessed via marketing materials, IFUs and company websites as of May, 2017.

## Neurosurgical

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