Signature Portfolio

The high speed drill platform of choice
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.

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.

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.

I.D. Touch Software: Define your style
When used with either the πdrive or πdrive+ 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 NSK sales representative can guide you through the options and save the performance and feel that’s right for you in user preferences.

Dr. Schabel
Custom preferences
πdrive
Torque 100%
Speed 75K RPMs
Irrigation rate 50%
Brake 35%

We retooled and reconfigured the conventional motor with a patented industry-unique design, used in both the πdrive and πdrive+ 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
Signature Portfolio offers over 100 components to give you optimal power, functionality, ergonomics and maneuverability. This creates an unmatched ability to customize your Signature Portfolio high-speed drill to perform the requirements of your surgery and perfectly match the performance of your drill. Crafted with quality materials and rigorous 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 (πdrive) and two pneumatic (Maestro Air)**

### Touch and feel
- The industry’s most comprehensive drill platform; vast selection of motors, attachments and cutting accessories.
- πdrive: Touch Software customizes how the electric drill responds, giving you the performance and feel you want.
- Exclusive πdrive cutting accessories for 40% chatter reduction.
- 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
- **πdrive**
  - Long run time with low heat generation.
  - Electric motor with speeds up to 75K RPMs.
  - Patented πdrive technology.
- **Maestro Air**
  - Pneumatic motor rated up to 150 psi.
  - 20% more torque than previous model.
  - 20% more power in watts.
  - Speeds up to 75K RPMs.
  - Patented πdrive technology.

### Efficiency and ease of use
- Multi-switch top to 10mm telescoping cutting accessories can simultaneously manipulate tissue up to 4.5x.
- Consistency in intuitive assembly; dimensionally simplified care and training.
- Color-coded accessory packaging aligns with color-coded attachments to facilitate selection and connection of compatible components; color withstands cleaners and autoclaving.
- Alignment dots guide connection of attachments to motor.
- Tactile bump indicates the direction footed attachments are facing.
- Matching part numbers on motors and footed attachments eliminate 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.

### Irrigation sleeves
- Color-coded irrigation sleeves for easy ability over your Elite HD (7cm or 12cm) attachments.
- Lower profile with increased design features and lumen detail extending to under lumen and compatible with CORE. Conical-angle indexing guarantees correct orientation.
- Improved swivel at hose, increasing handpiece freedom of movement.
- Lighter, more flexible hose with low-friction coating to reduce catching on surgical fabric, or collection of dust and debris.
- 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, ergonomic design facilitates site access and visibility—sterile, disposable and compatible with CORE Cassettes.
- 20% more torque than previous model.
- 25% more power in watts.
- Option for irrigation sleeves.

### Attachments
- **Detachable handswitch available for πdrive+ motor.**
- Optional motor extender for enhanced grip options and ergonomics.
- Improved control of base, increasing handpiece freedom of movement.
- Lights; more flexible base with twofollowers for enhanced performance and direction, or collection of dust and debris.
- Patented πdrive motor; highly tunable to perform as you need it.
- Alignment dots and Snap-Connect for easy and consistent assembly/disassembly.

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**Maestro Air**

- Universal foot pedal.
- 150 psi.
- Irrigation rate 25%.

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**πdrive**

- Long run time with low heat generation.
- Electric motor with speeds up to 75K RPMs.
- Patented πdrive technology.
- Additional 60% boost in power to get the job done quickly.
- 242% more torque at max speed of 75K RPMs.
- Patented πdrive technology.

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**Maestro Air**

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

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**πdrive+**

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

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.

**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.**
- **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.**

With more than 65 cutting accessories available in various Shank types, 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 feature a range of styles that include carbide burs to reduce chatter by greater than 30% helping ensure safer, quicker and EHF surgery achieve the exact functionality they need.

### Cut the Corners

- 100+ user profiles that can be stored and transferred to other CORE 2 Consoles via USB drive
- Adjustable acceleration and braking
- U.S. Touch software for tailored target recall and drill precision and 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

**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 neurosurgery sales representative or visit neurosurgical.stryker.com. To learn more about our exclusive πdrive motor technology, ask your neurosurgery sales representative about the white paper, “πdrive 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.


Neurosurgical

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