

stryker

Enhanced.
Expanded.
Elevated.

Signature 2 Portfolio

The most comprehensive and customizable high speed drill platform



Signature 2 Portfolio

Bigger and bolder than ever

The most comprehensive and customizable neurosurgical high speed drill platform just grew stronger. With new mechanics, motors and attachments, Signature 2 Portfolio aims to provide the exact tool and touch you want with the speed, power and durability you need.

Next-level performance

8

motors
(electric and pneumatic)

40

attachments

700+

cutting accessories

One

portfolio serves multiple specialties
universal console drives all instruments
system for you to learn

Broad value

Specialties include:

(but aren't limited to)

- Neuro
- Neuro otology/ENT
- Spine
- Dental
- Orthopaedics

Functionality includes:

- Open, endoscopic/MIS and microscopic procedures
- Cutting, drilling, reaming, decorticating, shaping and smoothing of bone, bone cement and teeth
- Placing or cutting of screws, metals, wires, pins and other fixation devices



**Reimagined.
Remarkable.^{1, 4}**

4x higher bearing grease
performance at 104°F (40°C)

~2.5x higher bearing grease
performance at 212°F (100°C)

4 year
(minimum 400 cycle)
preservation of exterior
housing and markings

29% decrease
(3.3 lbf) in attachment
mean peak pullout force

Up to 36% reduction
in cable friction (CoF)

~50% reduction
in sound energy

Up to **75K RPM** speed

πdrive motor technology at its best

We strive to deliver superior solutions that give you every advantage possible. So through innovative design and mechanics, we've reimagined and refined πdrive motors from tip to tail to elevate their performance, ergonomics, durability and usability.



Custom preferences²

Dr. Schabel

πdrive 2
Torque 100%
Speed 75K RPMs
Irrigation rate 50%
Brake 35%

πdrive 2 for neuro/ENT otology¹

- ½" shorter motor length
- 21% lighter than πdrive+
- 6.5% better motor balance vs πdrive
- 16% better motor balance vs S2 drill



- | | | |
|--|---|---|
| <p>1 Minimal vibration creates stable, high quality feel</p> <p>2 Expanded area of exclusive KnurLock grip technology allows tripod and other grips</p> <p>3 Alignment dots for easy and consistent assembly/disassembly</p> <p>4 Reduced attachment pull out force</p> <p>5 Non-footed slam latch and release collar simplify use</p> | <p>6 Bearing grease performance with higher operating temperature (98.6°F increase; 350.6°F vs 284°F) (37°C increase; 177°C vs 140°C)</p> <p>7 Center of gravity shifted to distal end for better motor balance</p> <p>8 Motors optimized inside and out for durability and supremely nuanced power and torque control</p> <p>9 Motor highly tunable to define custom drill response and tactile feel</p> | <p>10 Matte anodizing and drill coating help reduce light reflection and glare off drill surface</p> <p>11 πdrive 2 gives neuro/ENT otologists a maneuverable, shorter and lighter use option</p> <p>12 Single piece, metal rotor simplifies repairs</p> <p>13 Enhanced cable coating augments insulation, tactile feel and anti-friction</p> |
|--|---|---|

Detachable handswitch available

Maestro Air

balancing power with finesse

Like π drive motors, we've continually refined our pneumatic technology based on your input. Today's Maestro Air motor provides the power you need for the toughest procedures with the intuitive feel you appreciate in a pneumatic system.

Powering performance¹

20% more torque than previous model

25% more power in watts

Up to **150 psi** motor rating

Up to **75K RPM** speed

4 foot pedal options

Custom preferences²

Dr. Lin

Maestro Air
Universal foot pedal
150 psi
Irrigation rate 25%



Optional motor extender for enhanced grip options and ergonomics (also compatible with π drive motors)

- 1 Compatible with the industry's most expansive array of attachments and cutting accessories
- 2 Refined attachment design for improved balance and maneuverability
- 3 Color coding on product and packaging instantly identifies matching attachments and cutting accessories
- 4 Alignment dots and Snap-Connect for easy and consistent assembly/disassembly
- 5 Available with or without our high-performance integrated handswitch
- 6 Improved swivel at hose, increasing handpiece freedom of movement
- 7 Lighter, more flexible hose with low-friction coating to reduce catching on surgical fabrics or collection of dust and debris

Accessories abound:

It's not a single thing, **it's everything.**

Effective solutions deliver on all fronts, so we put as much effort and innovation into our accessories as we do our drills. Today's Signature 2 Portfolio offers the most comprehensive lineup of attachments, cutting tools and other accessories so you can tackle clinical challenges precisely the way you want.

Optimized options¹

5 attachment families, including new iBur angled integrated attachments

4 new additions to the Elite and Non-Footed lineups

25% less chatter with 2Flute head geometry

700+ cutting accessories

Patented 2Flute, RIM Glide, telescoping and other advantageous design features

All compatible with π drive and Maestro motors

30% less chatter with carbide burs over tool steel

Accessories

iBur™ integrated attachments:

Angled to perfection

- For MIS or other procedures
- Angled integrated attachment, cutting accessory and irrigator with 15° distal- or proximal-bend
- Proximally-bent: 6 burs spanning three design styles and 2.5-4mm diameters
- Distally-bent: 10 burs spanning five design styles and 2-5mm diameters
- Reusable straight or angled hubs



100%
of surgeons
could see the
head of the bur³



Elite: A notch above

- 300+ cutting tools, including nine carbide ones
- Patented multi-notch telescoping enables convenient customization of exposure by user or application
- Adjustable up to five exposure levels (up to 10mm)

New 440 and 442 knurled attachments help optimize system length and balance for neuro/ENT otologists



Footed: Power and protection

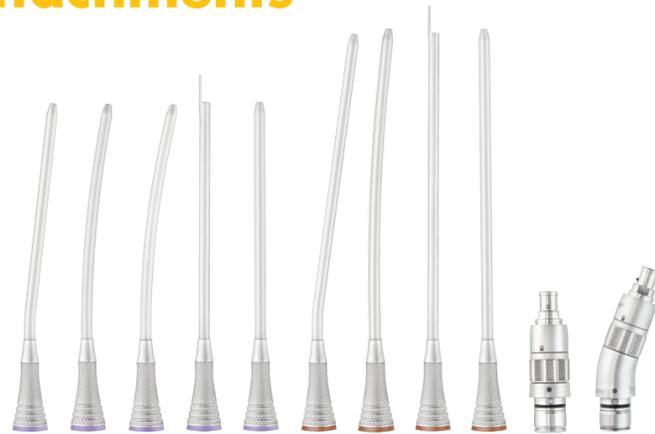
- Balances power with protection of delicate tissues
- Cutting accessories lock into motor to remain in place when changing attachments
- Tactile toe alignment indicator signals which way foot is pointing
- Matching part numbers on routers and footed attachments enable instant pairing in surgical field
- Color coding quickly identifies matching components

New 8cm and 9cm non-footed attachments with slam latch and release collar permit easier release technique while augmenting safety



Traditional MIS attachments

- 50+ MIS accessories; largest selection on the market
- Market's only MIS cutting accessories with multi-notch (4-10mm) telescoping ability
- Head diameters up to 5mm; largest on market



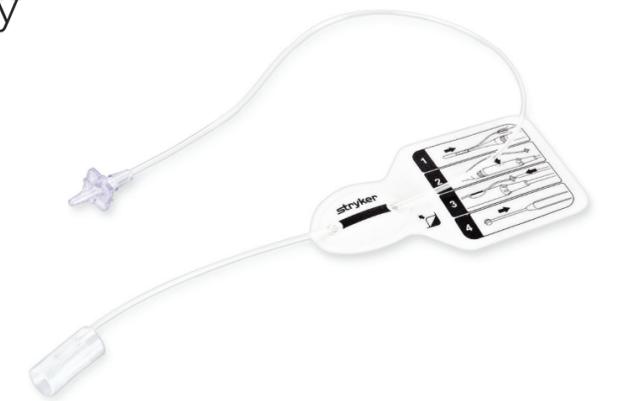
Heavy Duty: Has you covered

- Ideal for tough jobs like cement and metal cutting
- Lock into place to reduce chatter



Irrigation: Made easy

- Sleeves for Elite (7cm and 12-20cm) and MIS (13cm and 16cm) attachments provide seamless irrigation through CORE 2 Console
- iBur integrated irrigation; no sleeve required
- Customizable flow rates



Unparalleled customization:

Where Signature truly gets its name

Our underlying technology has one fundamental focus; giving you ultimate control and choice over how your system functions and feels. In this manner, you hold all the power to create a “Signature” portfolio and style that’s all your own.

Signature 2: Create your custom solution

Options for personal preferences are engineered into multiple features

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	•		

CORE 2 Console

- Universal control center across Signature components
- Drives industry-exclusive I.D. Touch software
- Capable of running two drills simultaneously, irrigation and Bone Mill



Vital signs¹

Market-leading customization and choice

30,000 CORE Console units trusted worldwide

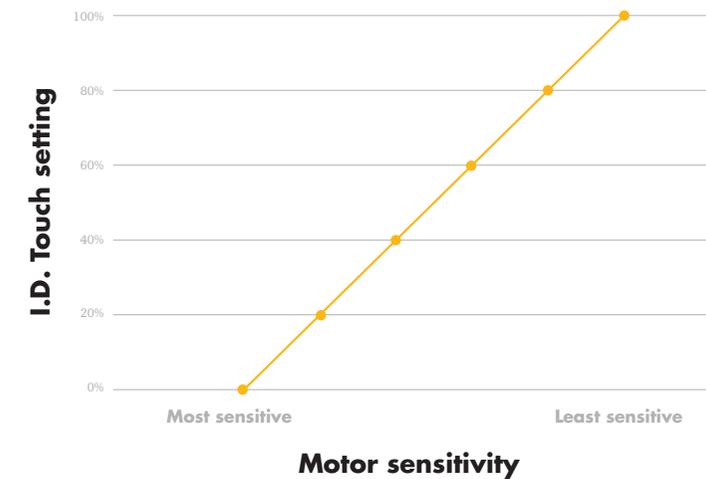
0-100% torque range for low-to-high drill sensitivity

Virtually every element is **customizable**

Unlimited user profiles; 100+ can be stored and transferred

I.D. Touch software

- Industry-exclusive software adjusts torque 0-100% for tailored drill response and tactile feel
- Settings can be saved in user preferences
- Applies to electric motors



The console’s ability to regulate sensitivity of the motor while in use

π drive motor technology

- Patented, industry-unique design
- Magnets in “pie” configuration replace nonfunctioning steel core
- Flat wiring encases core, not open loop wiring
- Creates volumetric optimization to enhance performance while limiting housing size



Support you can count on

We're acutely aware you rely on our products to help get your patients safely over the finish line. So our team has given its all to help elevate your clinical capability and performance — all with an eye towards optimal safety and outcomes. Together with your surgical expertise, we've created a winning formula for **advancing neurosurgery and transforming lives.**

To trial today's Signature 2 Portfolio or to get more information contact your Neurosurgical sales representative, call **800 253 3210** or visit **neurosurgical.stryker.com**. Your rep can also inform you of our ProCare maintenance and repair services as well as Flex Financial purchase and payment options.

1. Stryker data on file
2. Surgeon names and preferences are for demonstration purposes only to help depict the range of performance and customizations possible
3. Stryker design validation completed for iBur devices, data on file.
4. Understanding the 3dB rule." Pulsar Instruments, 26 Oct. 2015, <https://pulsarinstruments.com/en/post/understanding-3db-rule>

Neurosurgical

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Part number	Product description
Motor	
5407-150-000	Pi Drive 2 Motor
5407-350-000	Pi Drive 2 Plus Motor
5407-200-000	Maestro Air
5407-200-00H	Maestro Air with handswitch
Console	
5400-052-000	CORE 2 Console (software version 2.3 or higher)
Irrigation sleeves	
Elite	
5407-120-450	For use with 7cm (black)
5407-120-452	For use with 7cm (black)
5407-120-470	For use with 12-20cm (black)
5407-120-472	For use with 12-20cm (black)
5407-120-480	For use with 12-20cm (black)
5407-120-482	For use with 12-20cm (black)
5407-120-484	For use with 12-20cm (black)
5407-120-485	For use with 12-20cm (black)
5407-120-486	For use with 12-20cm (black)
5407-120-490	For use with 12-20cm (black)
5407-120-492	For use with 12-20cm (black)
Cutting accessories (partial list)	
MIS	
5407-120-950	For use with 13cm (lilac)
5407-120-950C	For use with 13cm (lilac)
5407-120-950A	For use with 13cm (lilac)
5407-120-970	For use with 16cm (brown)
5407-120-970C	For use with 16cm (brown)
5407-120-970A	For use with 16cm (brown)

Visit strykerdriven2perform.com for a complete list of our product offerings including all cutting accessories and attachments.