

stryker

Driven to perform



Signature 2
the new high
speed drill portfolio

Built to **win**¹

Bearing grease performance

4x higher at 104°F (40°C)

~2.5x higher at 212°F (100°C)

29% decrease (3.3 lbf)

in mean peak pullout force

87% of users

preferred new pullout force interface

New durable housing and markings

preserved 4+ years (minimum 400 cycles)

π drive 2 motor balance

6.5% improvement vs π drive

16% improvement vs S2

21% lighter

π drive 2 to π drive+

Up to 36% reduction

in cable friction (CoF)

Leading the field

In the world of high performance racing – and surgery – every nuance matters. And superior solutions save lives. So we've revved up the breadth, performance and innovation of Signature 2 Portfolio. As the most comprehensive neurosurgical high speed drill suite, it fulfills a spectrum of clinical needs through a single system. Combined with unparalleled customization, Signature 2 Portfolio gives you the flexibility, functionality and confidence needed for victory in the O.R.



πdrive 2+

New, shorter πdrive 2

Shifting gears into higher performance

Enhanced across the board, Signature 2 Portfolio pairs robust surgical essentials with nuanced personal preferences for an exceptional experience you'll feel. Whether you need to cut, drill, decorticate, shape or smooth, Signature 2 aims to provide the exact tool and touch you want with the speed, power and durability you requested. **It's not a single thing, it's everything.**

New attachments, new benefits¹

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

440 and 442 knurled attachments help optimize system length and balance for neuro otologists and ENTs



Optimized performance

- πdrive 2 and πdrive 2+ motors continue their legacy of providing supremely nuanced power and torque control
- πdrive 2 gives neuro otologists/ENTs a maneuverable, shorter and lighter use option¹
- Proprietary πdrive motor technology

Elevated ergonomics¹

- Matte anodizing and drill coating helps reduce light reflection and glare off drill surface
- Center of gravity shifted to distal end for better motor balance
- New exclusive KnurLock machining helps secure grip
- Continued legacy of minimal vibration creates stable, high quality feel
- Industry-exclusive I.D. Touch software for custom drill response/touch

Mechanical improvements^{1,2}

- Motor bearing grease boasts higher viscosity and max operating temperature (98.6°F increase; 350.6°F vs 284°F) (37°C increase; 177°C vs 140°C)
- Sound energy reduced by more than half (in πdrive 2) and nearly half (in πdrive 2+)
- Single piece, metal rotor simplifies repairs
- Drill tracker adapter (πdrive 2 and πdrive 2+) provides future-ready design

Added durability¹

- Matte finishes help reduce corrosion, improve resistance to reprocessing, and preserve exterior markings 4+ years (minimum 400 cycles)

Enhanced usability¹

- Non-footed slam latch and release collar simplify use
- Reduced attachment pullout force
- Attachments and cutting accessories are forward/backward compatible
- Enhanced cable coating augments insulation, tactile feel and anti-friction
- All powered through the CORE 2 universal console

iBur integrated attachments

- 16 sterile, single-use attachments with 15° proximal or distal bend for enhanced access and direct view of bur on surgical surface
- Integrated attachment, cutting accessory and irrigation
- Low, slim profile with tapered, concave design enables direct line of sight
- Protective shank covers shaft to guard against rotational harm



Today's Signature 2 Portfolio

8

motors
(electric and pneumatic)

40
attachments

700+
cutting accessories

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**.

Part number	Product description
Motors	
5407-150-000	Pi Drive 2 Motor
5407-350-000	Pi Drive 2 Plus Motor
Attachments	
5407-NF2-8CM	8cm Non-footed 2 attachment
5407-NF2-9CM	9cm Non-footed 2 attachment
5407-120-440	7cm 440 Elite straight attachment
5407-120-442	7cm 442 Elite angled attachment
iBur integrated attachments, cutting accessories with irrigation	
Hubs	
5407-120-300	iBur Hub
5407-120-300A	iBur Angled Hub
15° Distal bend (12.5cm, orange color band)	
8431-107-530	3.0mm iBur Precision Match Head
8431-107-030D	3.0mm iBur Diamond Match Head
8431-009-030	3.0mm iBur Precision Round
8431-009-040	4.0mm iBur Precision Round
8431-012-020D	2.0mm iBur Diamond Round
8431-012-030D	3.0mm iBur Diamond Round
8431-012-040D	4.0mm iBur Diamond Round
8431-013-030DC	3.0mm iBur Coarse Diamond Round
8431-013-040DC	4.0mm iBur Coarse Diamond Round
8431-013-050DC	5.0mm iBur Coarse Diamond Round
15° Proximal bend (12.5cm, orange color band)	
8442-107-525	2.5mm iBur Precision Match Head
8442-107-530	3.0mm iBur Precision Match Head
8442-107-025D	2.5mm iBur Diamond Match Head
8442-107-030D	3.0mm iBur Diamond Match Head
8442-009-030	3.0mm iBur Precision Round
8442-009-040	4.0mm iBur Precision Round
Console	
5400-052-000	CORE 2 Console (software version 2.3 or higher)

1. Stryker data on file
2. "Understanding the 3dB rule." *Pulsar Instruments*, 26 Oct. 2015, <https://pulsarinstruments.com/en/post/understanding-3db-rule>

Neurosurgical

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