Medtronic
Engineering the extraordinary

The Signia™ stapling system with Adaptive Firing™ technology

Senses. Measures. Informs. Adapts.

Tissue-sensing technology.[1-3,†] Adaptive firing speed. More properly formed "B"-shaped staples for more secure staples lines.[1,4,5,†,‡]

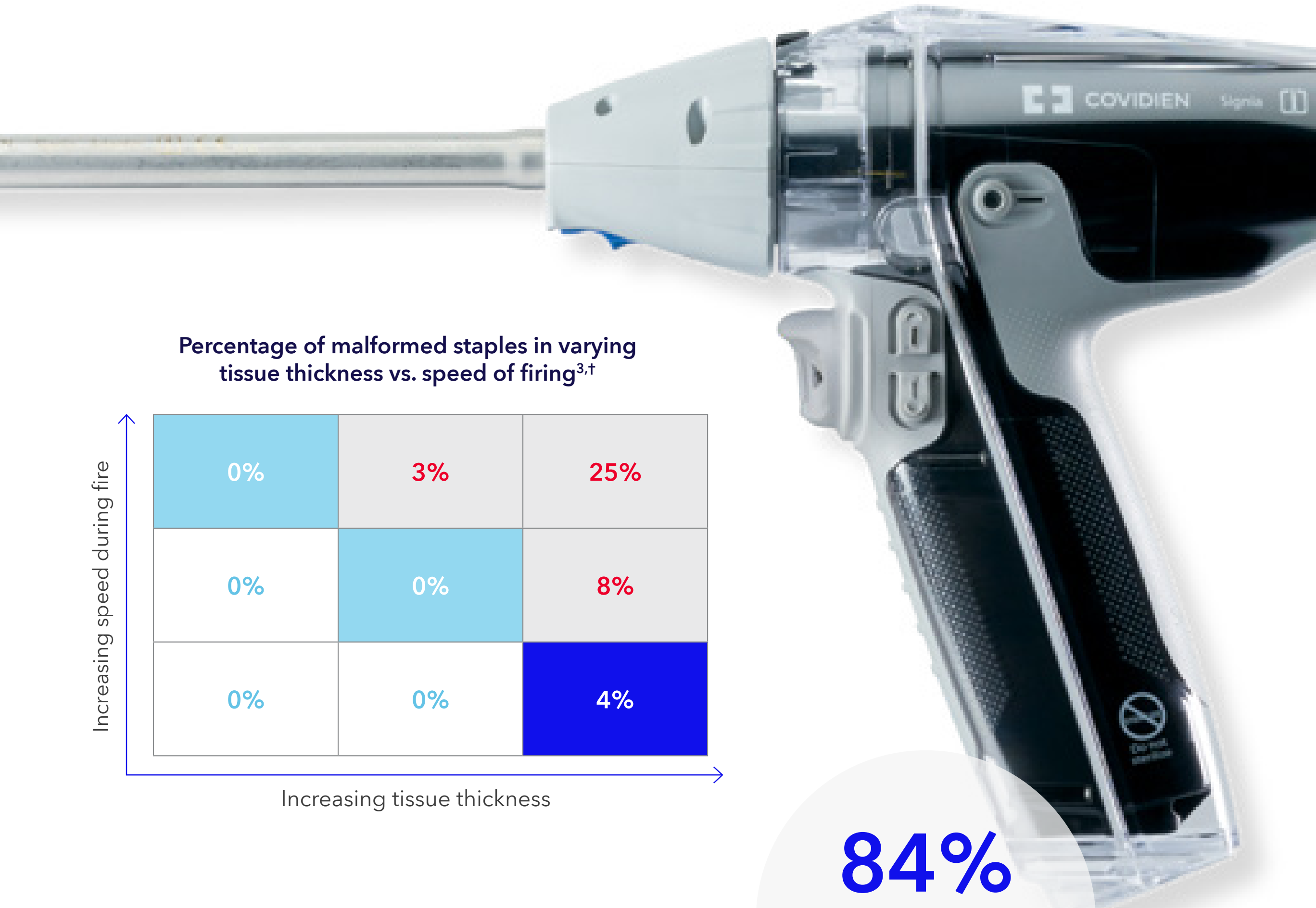
That's the Signia™ stapler.

†Preclinical results may not correlate with clinical performance in humans.
‡Compared to manual and fixed-speed powered staplers.

Adaptive Firing™ technology

Controlling firing speed based on tissue properties can increase staple line security[1-3,†]

That's why we gave the Signia™ stapler Adaptive Firing™ technology. It senses tissue to adjust firing speed based on tissue properties and thickness.[1,2,†] The result is more properly formed "B"-shaped staples for a more consistent staple line.[1-3,†,‡]



Percentage of malformed staples in varying tissue thickness vs. speed of firing[3,†]

Increasing speed during fire ↑ / Increasing tissue thickness →			
	0%	3%	25%
	0%	0%	8%
	0%	0%	4%

Increasing tissue thickness

84% reduction in malformed staples[1-3,†]

†Preclinical results may not correlate with clinical performance in humans.
‡Compared to manual and fixed-speed powered staplers.

Real-time feedback

See intelligence in action

Along with Adaptive Firing™ technology, you also get real-time feedback before and during firing. Visual cues simplify setup[6,†] and tell you when the Signia™ stapler is ready to fire.

Real-time feedback also allows you to:

- Make informed decisions about reload selection[7,‡]
- Shows you forces on tissue to let you know when Adaptive Firing™ technology is adjusting firing speed to improve staple formation in challenging applications[1,2,§]

The Signia™ stapler is the only stapler made specifically to optimize intelligence-enabled Tri-Staple™ and Signia™ small diameter reloads.

†38 out of 38 surgeons surveyed agreed.
‡Bench test results may not necessarily be indicative of clinical performance.
§Preclinical results may not correlate with clinical performance in humans.

Don't compromise staple line integrity

Get more consistent staple lines with greater staple line security.[1-3,†,‡]

Contact your sales rep to try the intelligent Signia™ stapler.

Code	Description
SIGPHANDLE	Signia™ power handle
SIGPSHELL	Signia™ power control shell
SIGADAPTSTND	Signia™ linear adapter
SIGADAPTXL	Signia™ linear adapter XL
SIGADAPTSHORT	Signia™ linear adapter short
SIGSBCHGR	Signia™ single-bay charger
SIGRIG	Signia™ reusable insertion guide
SIGMRET	Signia™ manual retraction tool
SIGTRAY	Signia™ sterilization tray
SIGPCORD1	Signia™ power cord 1 – US
SIGPCORD6	Signia™ power cord 6 – JA

†Preclinical results may not correlate with clinical performance in humans. ‡Compared to manual and fixed-speed powered staplers. 1. Based on internal test report #R2146-151-0, Powered stapling firing speed DOE analysis and ASA parameters: preliminary ex vivo porcine model data using various speeds a user can deploy staples with a manual handle (n = 243 firings). 2015. 2. Based on internal test report #R2146-173-0, ASA verification testing with slow speed force limit evaluation. 2015. 3. Based on internal report #RE00218740, Signia™ stapling adaptive firing technology data calculations and references. Aug. 7, 2019. 4. Based on internal test report #PCG-028, Signia™ stapling system competitive claims, March 27, 2017. 5. Based on internal test report #PCG-032, Comparison of undercrimp staple measurement between Medtronic and Ethicon powered stapling platforms. May 10, 2018. 6. Based on internal test report #RE00024826 rev D, Signia™ stapling system summative usability report. September 2016. 7. Based on internal test report #RE00055515, Surgeon evaluation testing Signia™ stapling system sensing technology and real-time feedback. Aug. 4, 2016.