

Characteristics and Comparison – VIPER™ against Market Competitors

	VIPER™	Harmonic Ace +	Sonicision	ThunderBeat
Max. vessel size sealed	7 MM	7 MM	5 MM	7 MM
Tissue cutting speed*	26.1 ± 5.2 S	43.4 ± 7.0 S	44.6 ± 4.3 S	Unknow
Lateral thermal spread	1.00 ± 0.42 S	0.96 ± 0.36 S	1.15 ± 0.39 S	Unknow
Dedicated coating on tip of the waveguide	Yes	Yes	No	No

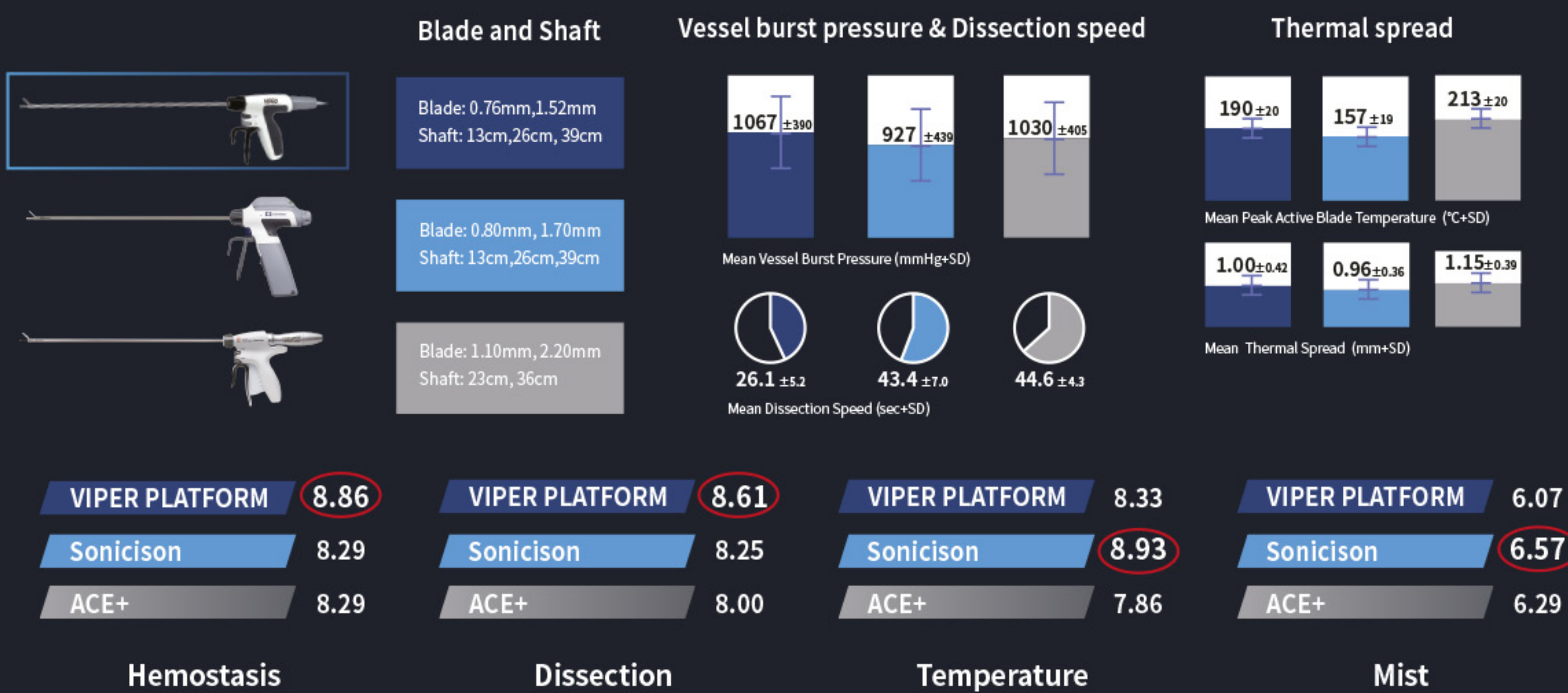
* Benchmark test: Cutting chicken skins with equivalent thickness and size.

VIPER™

ENERGY PLATFORM



Acute benchmarking test with Harmonic, JNJ and Sonicision, MDT



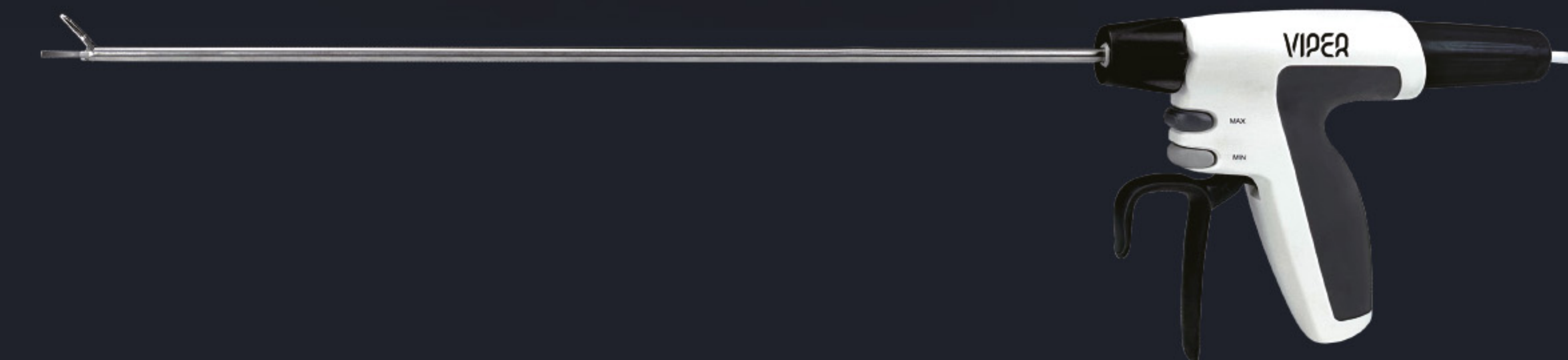
VIPER™ Soft Tissue Ultrasonic Dissection System-PRODUCT CODES

Product code	Description	Shaft length, Tolerance +- 5%	Units/ Carton
VU-13	Viper™ Soft Tissue Ultrasonic Scalpel 130 mm	130 mm	10
VU-26	Viper™ Soft Tissue Ultrasonic Scalpel 260 mm	260 mm	10
VU-39	Viper™ Soft Tissue Ultrasonic Scalpel 390 mm	390 mm	10
Product code	Description	Dimensions	Units/ Carton
VIPER-I	Viper™ Soft Tissue Ultrasonic Dissection System	380 mm x 300 x 115 mm	1
Product code	Description	Dimensions	
VIHP-I	Reusable Transducer of VIPER-I	Cable Length L	Tolerance
		270 mm	±10%
Product code	Description		
VFS-I	FootSwitch of VIPER-I		

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DESIGN . FLEXIBILITY . POWERFUL COAGULATION



VIPER™ Soft Tissue Ultrasonic Dissection System

Flexibility is everything in the operating room, with the VIPER™ you can coagulate and dissect with Ultrasonic Technology. The 7mm coagulation feature, allows the Surgeon to perform the surgical procedures with more safety and control.

VIPER™ offers you: 7MM COAGULATION POWER, DESIGN and FLEXIBILITY.

- PLL-Phase-locked loop algorithm to insure system working in resonant frequency
- IRT-Instant Responding Technique to insure system working on maximum vibration amplitude Ultrasonic Transducer



DESIGN



FLEXIBILITY



7mm POWER COAGULATION



PVD(Physical Vapor Deposition)sputtering process w/ DLC(Diamond-Like Carbon) coating

- High hardness, wear resistance, corrosion resistance
- Fast heat dissipation, high adhesion and anti-sticking
- Good biocompatibility



The scalpel allows

cutting, coagulation, dissection and grasping all in one for a maximum flexibility and efficiency on the OR.

