

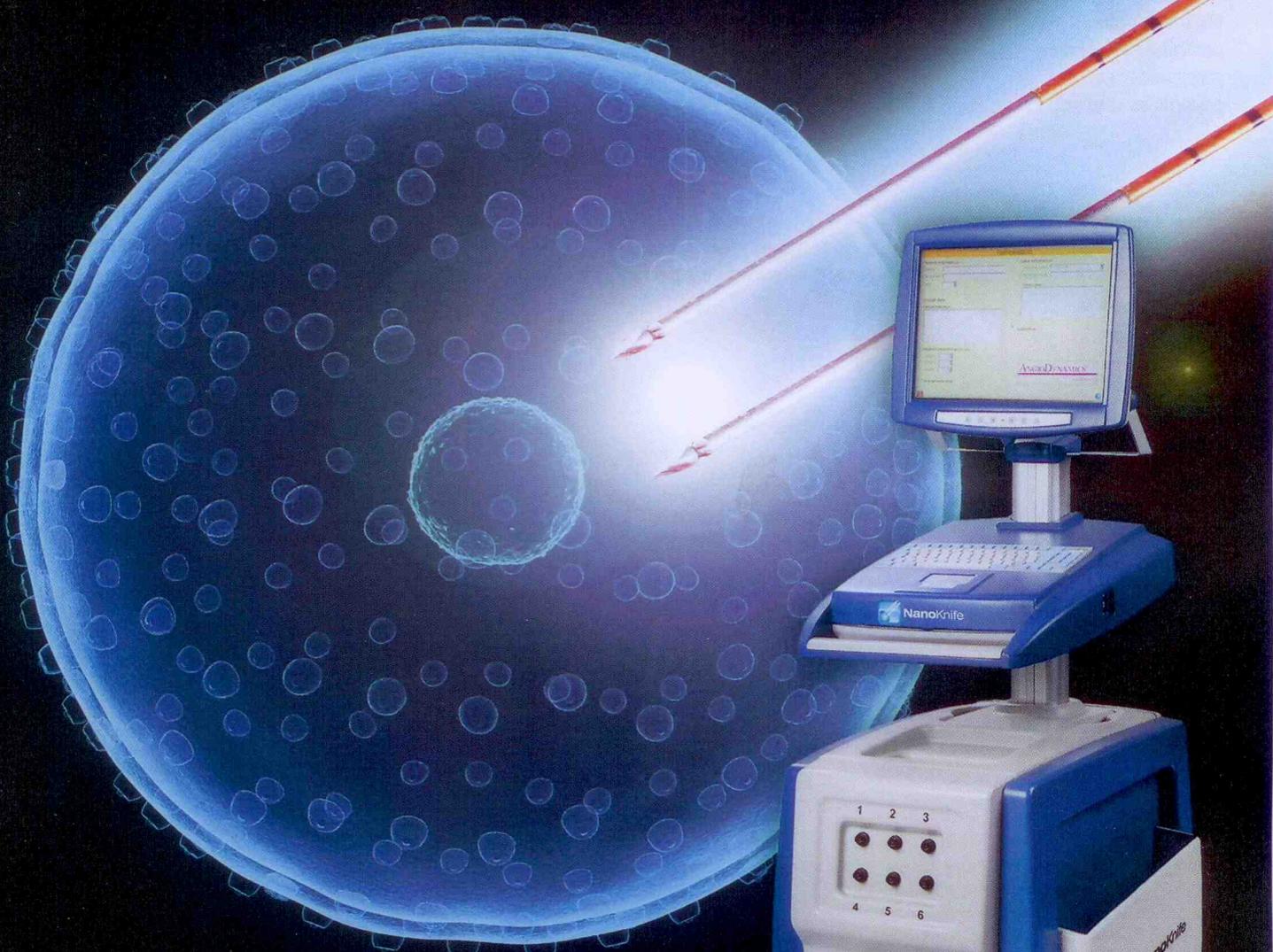
Irreversible Electroporation



NanoKnife™
Irreversible Electroporation

Surgery at the cellular level.

The first surgical ablation system based on
Irreversible Electroporation technology.



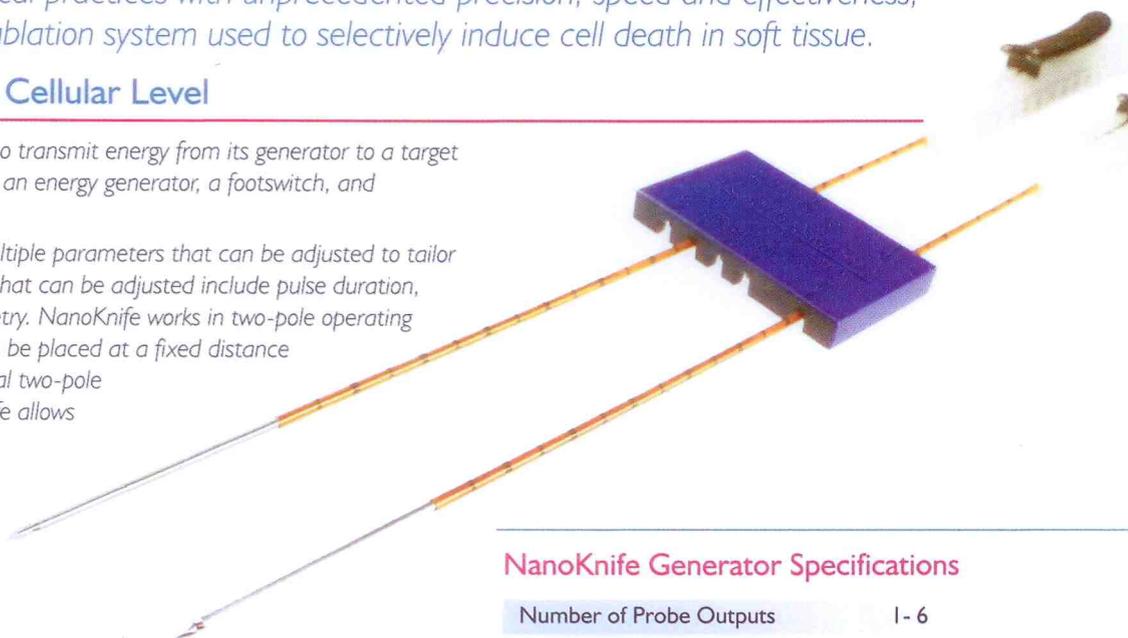
ANGIODYNAMICS®

Designed to provide clinical practices with unprecedented precision, speed and effectiveness, NanoKnife is a surgical ablation system used to selectively induce cell death in soft tissue.

Precise Surgery at the Cellular Level

NanoKnife uses electrode probes to transmit energy from its generator to a target area. It is a system which includes an energy generator, a footswitch, and single-use disposable electrodes.

Irreversible electroporation has multiple parameters that can be adjusted to tailor the ablation process. Parameters that can be adjusted include pulse duration, electrode configuration and geometry. NanoKnife works in two-pole operating mode and up to six electrodes can be placed at a fixed distance apart in soft tissue to create several two-pole electrode configurations. NanoKnife allows the user to choose between predefined target area configurations or customized settings.

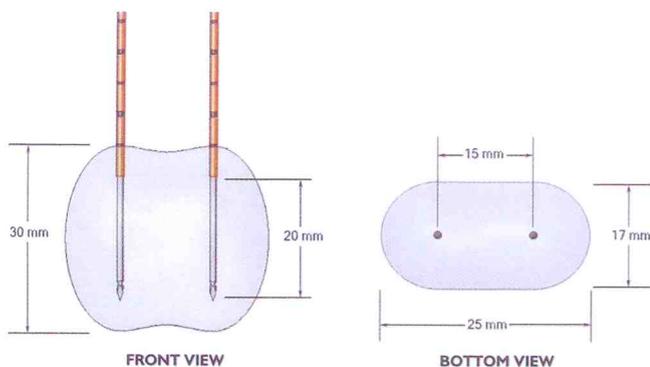


NanoKnife Generator Specifications

Number of Probe Outputs	1 - 6
Number of Pulses*	90
Pulse Amplitude	100 to 3000 V
Pulse Length	20 - 100 μ Sec
Pulse Amplitude Precision	\pm 5%
Pulse Length Precision	\pm 2 μ Sec or 2%
Maximum Current	50 A

* Number of pulses for each pair of electrodes.

Typical ablation results (based on pre-clinical data) for two NanoKnife probes spaced 1.5 cm apart with the active electrode length set at 2 cm.



Generator Settings

Probe +	Probe -	Voltage	Pulse Length	N. Pulses
1	2	2500 V	100 μ Sec	90

NanoKnife Ordering Information

Product Name	Diameter	Length	Active length	Catalog Number
Single Electrode Probe	1 mm	(15 cm)	0 mm to 40 mm	20400101
Bipolar Electrode Probe	1.5 mm	(15 cm)	N/A	20400201
Bipolar Electrode Probe	1.5 mm	(25 cm)	N/A	20400202
Generator	-	-	-	20300101
Single Electrode Probe Spacer (Qty. of 10)	-	-	-	20400301

ANGIODYNAMICS®

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CAUTION: Federal Law (U.S.) restricts the sale of this device by or on the order of a physician.