

Features and Benefits:

Most Economical Choice: MTP phacos are significantly lower in price than available phacos from other manufacturers. Additionally, all accessories are reusable, ensuring the lowest cost per cataract extraction.

Feature-packed, Easy-to-Use Consoles: Ergonomically designed for ease of operation, with large, easy-to-read displays. MTP are extremely simple to operate.

Continuously Autotuned Emulsification: The most advanced high-power ultrasonics available can emulsify all nuclei from the softest to the very hardest densities. Continuous autotuning circuitry gives the cataract surgeon superior control at all power levels and nuclei densities. Multiple Ultrasonic modes offer additional flexibility.

All-Titanium Phaco Handpieces: Constructed entirely of the ultimate surgical metal, MTP phaco handpieces will not corrode. Far better than stainless steel, titanium completely ends the possibility of corrosion. MTP phaco handpieces are lightweight and virtually indestructible.

Hi-Performance Footpedals: Multi-function footpedals with tactile feedback provide precise proportional control. Cast aluminum construction and polyurethane-armored cable make these footpedals extremely durable, yet small and lightweight.

Advanced Irrigation and Aspiration: The low-pulsation, peristaltic pump gives the cataract surgeon complete vacuum and aspiration flow rate control, as well as freedom from anterior chamber shallowing. Multiple audible tones continuously convey system status. Vacuum is fully adjustable, providing safe and adequate vacuum for the latest phaco techniques.

Built-in Vitrectomy and Cautery: An internal air compressor eliminates the connection to an external air source for vitrectomy. Cutting rate is adjustable over a wide range, including a single-cut setting for optional pneumatic scissors. Bipolar diathermy delivers predictable tissue cauterization.

Superior Components Provide Reliability: Unsurpassed component quality, from the precision peristaltic pump to the rugged stainless steel vacuum transducer, MTP phacos are built to last.

MTP
Medical Technical Products



Ophthalmic Surgical Systems



TRISONIC Phacoemulsification System

The TRISONIC Surgical System:

- Advanced Cataract Removal
- State of the Art Performance
- Lightweight and Portable
- 24 Customizable User Programs
- Four US Modes

Continuous, Pulse, Burst and Micro

- Large 12.1" Touchscreen
- All Titanium Handpiece
- Integrated Coagulation and Vitrectomy
- Programmable Multi Function Footpedal
- Easy to Insert, Reusable Tubing Cartridge
- Rugged Travel Case Included
- Integrated IV Pole Optional

Standard Accessories:

- U/S Handpiece
- Tubing Cartridge
- Footpedal
- Travel Case

Optional Accessories:

- Phaco Tips
- I/A Handpiece
- Aspiration Tips
- Irrigation Sleeve
- Test Chamber
- Vitrector
- Coagulation Forceps/Cord



Technical Parameters

IRRIGATION

FLUID DELIVERY	Gravity Fed
US (ULTRASONIC)	
HANDPIECE TYPE	All Titanium, Lightweight, Balanced Handpiece
OPERATING FREQUENCY	40 KHz
AVAILABLE VACUUM LEVEL	From 0 to 500 mmHg
SURGEON MODE (LINEAR POWER)	Allows linear control of US power by depressing footpedal
MULTI MODULATION	Allows for rapid transition for aspiration and phaco settings
US BURST MODE	Allows for surgeon control of pulse width in phaco power
MICRO PHACO	Allows for surgeon control of both the on-time and off-time of the phaco pulse
PRIME/TUNE MODE	Automatically primes system and tunes ultrasonic handpiece

IA (IRRIGATION/ASPIRATION)

ASPIRATION PUMP	Peristaltic, low pulsation
AVAILABLE VACUUM LEVEL	From 0 to 500 mmHg
AVAILABLE ASPIRATION FLOW RATE	From 0 to 50 cc/min
SURGEON MODE (LINEAR ASPIRATION)	Linear aspiration (vacuum and/or flow rate) from zero to preset
HANDPIECE TYPE	Coaxial IA, user's choice

VIT (VITRECTOMY)

HANDPIECE TYPE	Pneumatically powered guillotine cutter
CUTTING MODE	Guillotine action
AVAILABLE CUT RATE	From 60 to 700 cuts per minute
ACTUATION DEVICE	Internal air compressor
OPERATING PRESSURE	20 PSI
AVAILABLE VACUUM RANGE	0 to 500 mmHg
AVAILABLE ASPIRATION FLOW RATE	0 to 50 cc/min
SURGEON MODE (LINEAR ASPIRATION)	Linear aspiration (vacuum and/or flow rate) from zero to preset

COAG (COAGULATION)

TYPE	Bipolar generator
OPERATING FREQUENCY	315 kHz
NOMINAL POWER	5.5 Watts (250 Ohm load)
AVAILABLE COAG POWER	5 to 100%
SURGEON MODE (LINEAR POWER)	Allows linear control of the Coag power by depressing footpedal

DIMENSIONS

H/W/DWT	6.5in (16.5cm) / 14.5in (36.8cm) / 13.5in (34.3cm) / 21lbs (9.55kg)
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Technical Parameters

Model 2000 Premium Phacoemulsifier

- Advanced Cataract Removal
- State-of-the-Art Performance
- Cold Phaco Capability
- Easy-to-Use Precise Controls
- FDA Approved
- ISO Certified Quality
- Affordable Price



Standard Accessories:

- U/S Handpiece
- Footpedal
- Tubing Kit

Optional Accessories:

- Phaco Tips
- I/A Handpiece
- Aspiration Tips
- Irrigation Sleeve
- Test Chamber
- Vitrector
- Cautery Forceps/Cable



Mode	Specification	Feature	Yes
CAUTERY	CAUTERY POWER: 0 to 100%, 1 MHz, 10W into 150 ohms	All Titanium Phaco Handpiece	✓
		Continuous Autotuning	✓
I/A	ASPIRATION RATE: 0 to 50 cc/MIN I/A VACUUM: 0 to 650 mmHg	Three (3) Phaco Modes	✓
		Low-Pulsation Peristaltic Pump	✓
U/S	U/S POWER: 0 to 100%, 40 kHz ASPIRATION RATE: 0 to 50 cc/MIN U/S VACUUM: 0 to 650 mmHg	Separate U/S Vacuum Control	✓
		Independent Vacuum & Flow Controls	✓
U/S PULSE	U/S POWER: 0 to 100%, 40 kHz ASPIRATION RATE: 0 to 50 cc/MIN U/S VACUUM: 0 to 650 mmHg Pulse Rates: <ul style="list-style-type: none"> • LO 4.5 PPS • MED 6.5 PPS • HI 10 PPS • XTR 15 PPS 	Multiple Audible Status Tones	✓
		Reflux On-Demand	✓
		Pneumatic Vitrectomy	✓
		Bipolar Cautery	✓
		Reusable Accessories	✓
U/S COLD	U/S POWER: 0 to 100%, 40 kHz ASPIRATION RATE: 0 to 50 cc/MIN U/S VACUUM: 0 to 650 mmHg Pulse Widths: <ul style="list-style-type: none"> • LO 20 mS • MED 40 mS • HI 90 mS • XTR 200 mS 	Small and Compact	✓
		No Complicated Menu System	✓
		No Programming Required	✓
		Superior Components	✓
VITRECTOMY	CUT RATE: 60 to 600 cuts/MIN, Single Cut ASPIRATION RATE: 0 to 25 cc/MIN I/A Vacuum: 0 to 500 mmHg	Multi-Function, Linear-Control Footpedal	✓
		U/S Timer with Reset	✓

General

Dimensions

Height: 14.6 cm (5.7 in)
Width: 41.2 cm (16.2 in)
Depth: 33.0 cm (13.0 in)

Weight

Weight: 7.4 kg (16.4 lbs)

Electrical

100 to 240 VAC, 50 to 60 Hz

- FDA approved
- ISO 13485 Quality Certification
- Satisfies IEC 60601-1 Specification
- Made in the USA

Technical Parameters

Model 2000 Value Phacoemulsifier

- Advanced Cataract Removal
- State-of-the-Art Performance
- Easy-to-Use Precise Controls
- FDA Approved
- ISO Certified Quality
- Affordable Price



Standard Accessories:

- U/S Handpiece
- Footpedal
- Tubing Kit

Optional Accessories:

- Phaco Tips
- I/A Handpiece
- Aspiration Tips
- Irrigation Sleeve
- Test Chamber
- Vitrector
- Cautery Forceps/Cable



Mode	Specification	Feature	Yes
CAUTERY	CAUTERYPOWER: 0 to 100%, 1 MHz, 10 W into 150 ohms	All Titanium Phaco Handpiece	✓
		Two (2) Phaco Modes	✓
		Separate U/S Vacuum Control	✓
IRRIGATION	Footpedal-Controlled Pinch Valve Actuation	Multiple Audible Status Tones	✓
		Pneumatic Vitrectomy	✓
I/A	ASPIRATION RATE:0 to 40 cc/MIN I/A VACUUM:0 to 500 mmHg	Reusable Accessories	✓
		No Complicated Menu System	✓
		Superior Components	✓
U/S	U/S POWER:0 to 100%, 40 kHz ASPIRATION RATE:0 to 40 cc/MIN U/S VACUUM:0 to 500 mmHg	U/S Timer with Reset	✓
		Continuous Autotuning	✓
		Low-Pulsation Peristaltic Pump	✓
U/S PULSE	U/S POWER:0 to 100%, 40 kHz ASPIRATION RATE:0 to 40 cc/MIN U/S VACUUM:0 to 500 mmHg Pulse Rate: 10 PPS	Independent Vacuum & Flow Controls	✓
		Reflux On-Demand	✓
		Bipolar Cautery	✓
VITRECTOMY	CUT RATE:60 to 600 cuts/MIN,Single Cut ASPIRATION RATE:0 to 20 cc/MIN I/AVACUUM:0 to 500 mmHg	Small and Compact	✓
		No Programming Required	✓
		Multi-Function, Linear-Control Footpedal	✓

General

Dimensions

Specification

Height: 11.0 cm (4.4 in)
Width: 40.0 cm (16.0 in)
Depth: 32.0 cm (13.0 in)

Weight

Weight: 6.2 kg (13.6 lbs)

Electrical

100 to 240 VAC, 50 to 60 Hz

- FDA Approved
- ISO 13485 Quality Certification
- Satisfies IEC 60601 -1 Specification
- Made in the USA