

MAXIMUM PERFORMANCE.

THE MEGATRON S4 HPS
HIGH PERFORMANCE SYSTEM
WITH MAXIMUM FLEXIBILITY FOR THE
ANTERIOR AND POSTERIOR SEGMENT



megaTRON® S4 HPS

megaTRON 54^{HPS}

MAXIMUM PERFORMANCE
IN THE ANTERIOR AND POSTERIOR SEGMENT.

Bausch & Lomb
Precision made in Germany

Take the lead in performing best. With sophisticated technology of the megaTRON 54^{HPS} you can achieve maximum safety, efficiency, rentability and flexibility.

The revolutionary hybrid pump system is only one of the numerous features which make the megaTRON 54^{HPS} one of the most powerful ophthalmic surgery systems for the anterior and posterior segment. Its UNO Colorline MACH2 vitreous cutters enable cut rates of up to 12,000 cpm. The optional endolaser endoTRON532 and xenon light source xenoTRON III make the megaTRON 54^{HPS} a fully equipped vitrectomy system.

A large variety of accessories for the anterior and posterior segment are perfectly matched to the megaTRON 54^{HPS} to serve all applications.

HIGHLIGHTS IN THE ANTERIOR SEGMENT

SAFETY



- + Optimization of applied ultrasound energy
- + Excellent chamber stability
- + Internal compressor
- + **age** *DETECT* – wear detection for ultrasound handpieces

EFFICIENCY



- + Revolutionary hybrid pump system with hot-switch function and Venturi effect in peristaltic mode
- + Intelligent fluidics management
- + Maximum exploitation of cavitation

PROFITABILITY



- + Security of investment due to upgradability
- + Low and controllable costs per case
- + Auto-tuning for long durability of handpieces
- + “One cassette for all” – no intraoperative change required

FLEXIBILITY



- + Maximum mobility and modularity
- + Large variety of accessories
- + Individually programmable dual-linear footswitch
- + Text-to-speech output in eight different languages
- + Input languages: various European languages, Arabic and Chinese

HIGHLIGHTS IN THE POSTERIOR SEGMENT.

SAFETY



- + **NOTRACTION** – high safety at vitreous base
- + Perfect aspiration management with UNO Colorline MACH2 vitreous cutter
- + Revolutionary hybrid pump system with hot-switch function and Venturi effect in peristaltic mode
- + Medication timer

EFFICIENCY



- + Remove vitreous at 12,000 cpm*
- + Optimum duty cycle management system
- + Fast core vitrectomy
- + Integrated control for endoTRON532

PROFITABILITY



- + Internal compressor
- + Low and controllable costs per case
- + Full downward compatibility

FLEXIBILITY



- + Flexible modularity and upgradability
- + Freely configurable accessories in all standard sizes
- + Combined foot switch for endoTRON532 and megaTRON S4^{HPS}
- + Text-to-speech output in eight different languages
- + Input languages: various European languages, Arabic and Chinese

* in combination with UNO Colorline MACH2 vitreous cutters



UP TO
12.000
CPM*



SPECIFICATIONS

G-60000/G-60001 megaTRON S4^{HPS}
system for ophthalmic surgery (anterior and posterior segment)
G-61100 (optional) endoTRON 532nm
laser system for ophthalmic surgery (posterior segment)
G-26032 (optional) xenoTRON III xenon light source for endoillumination

GENERAL SPECIFICATIONS

DIMENSIONS (H X W X D) 370 x 420 x 420 mm
WEIGHT max. 25 kg

POWER SUPPLY

VOLTAGE 100 – 240 V
FREQUENCY 50/60 Hz
MAX. POWER CONSUMPTION 500 W

PERISTALTIC PUMP

VACUUM (LINEAR, EXPONENTIAL, LOGARITHMIC AND
FIXED CONTROL) 1 – 600 mm Hg
FLOW (LINEAR, FIXED CONTROL AND PULSATION) 1 – 50 ml/min
PULSATION FREQUENCY (ADJUSTABLE) 1 – 20 Hz
RISE TIME (VENTURI EFFECT, ADJUSTABLE) 0,5 – 5 s

DIRECT CONTROL PUMP

VACUUM (LINEAR, EXPONENTIAL, LOGARITHMIC AND
FIXED CONTROL) 1 – 600 mm Hg
RISE TIME (ADJUSTABLE) 0,5 – 5 s

COLD LIGHT

OCULED CONNECTOR / OPTIONAL XENON LIGHT SOURCE

ULTRASOUND

FREQUENCY RANGE 27 – 55 kHz
POWER OUTPUT (LINEAR, EXPONENTIAL, LOGARITHMIC
AND FIXED CONTROL) 0 – 100 %
PULSATION FREQUENCY (ADJUSTABLE) 1 – 60 Hz
PULSE DURATION (ADJUSTABLE) 2 – 900 ms

VITRECTOMY

CUT RATE (LINEAR, EXPONENTIAL, LOGARITHMIC AND FIXED CONTROL)
MAGNETIC (WITH MEGA-VIT G-30910 AND G-30985) 15 – 4.000 cuts/min
PNEUMATIC (WITH UNO COLORLINE MACH2 VITRECTOR) 30 – 12.000 cuts/min
PNEUMATIC (WITH UNO COLORLINE VITRECTOR) 15 – 6.000 cuts/min

AIR / OIL INJECTION

AIR INJECTION (LINEAR AND FIXED CONTROL) 0 – 100 mm Hg
OIL INJECTION (LINEAR AND FIXED CONTROL) 0,5 – 6 bar

BIPOLAR DIATHERMY

BIPOLAR WET-FIELD COAGULATION

ENDO-DIATHERMY

POWER CONSUMPTION (LINEAR AND FIXED CONTROL) 0 – 15 W
PULSATION FREQUENCY (ADJUSTABLE) 1 – 100 Hz



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GEUDER AG reserves the right to make changes to technical details in response to recent developments. GEUDER does not assume liability for the accuracy of each individual statement. Illustrations not drawn to scale.

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