

# MAXIMUM PERFORMANCE.

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



megaTRON® S4 <sup>HPS</sup>

**Geuder**<sup>®</sup>  
Precision made in Germany

Image shows configuration with xenonTRON III  
and endoTRON 532nm (both systems are optional)

megaTRON 54<sup>HPS</sup>

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<sup>HPS</sup> 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<sup>HPS</sup> 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<sup>HPS</sup> a fully equipped vitrectomy system.

A large variety of accessories for the anterior and posterior segment are perfectly matched to the megaTRON 54<sup>HPS</sup> 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<sup>HPS</sup>
- + 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\*



Operation High-Speed Virektomie

Virektomie	Vakuum	Flow	Diathermie
6000	250	25	35
4000	115	2	0

High Speed Virektomie

- LifeDetection
- Endlöser
- Diagnostik
- Leitkontrolle

Virektor min. 6000 rpm notwendig  
Ultraschall: 0.5 sek  
Sensor OK (ohne Fall-Sperrenung)

Vorbereitung  
Parameter ändern

B/E

Zurück OP-Ende

megaTRON S4  
Deaucker

# SPECIFICATIONS

G-60000/G-60001 megaTRON S4<sup>HPS</sup>

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

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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