



Ophthalmic Surgical System

# Fortas™



THE ART OF EYE CARE

# Fortas™

CV-30000 OPHTHALMIC SURGICAL SYSTEM

The CV-30000 provides complete support for Cataract and Vitreoretinal surgery with four features that enhance usability:

## Essential Components

### Fortas Pump

- Sophisticated peristaltic pump

### Advanced Cassette System

- Phaco cassette
- Vit cassette\*1

## Phaco Innovation

### VIS (Variable Intervals and Strokes)

- Dual-oscillation of conventional pulse and ultra-short duration pulse

### APS-Plus (Auto Pulse System-Plus)

- Efficient control of ultrasound and aspiration pump

## Cut Control

### High Speed Vitreous Cutter

- Maximum 8,000 cuts / min\*2

### Pro-Pedal Mode

- Desired setting with smart software

## User Friendly

### Navigation Mode

- Guidance with pictures for the setup procedure

### Sequential Mode

- Programming for surgical procedure

### Multi-functional Foot Pedal

- Enhanced operability with customized foot pedal functions

### Integration with Green Laser Photocoagulator

- Efficient operation flow and space-saving

### Optimal Cassette System

- Separate cassette system for optimal vacuum control

### Selectable Vitreous Cutters

- Conventional cutter
- Bi-Blade™ cutter\*3



\*1 Available for type AP.

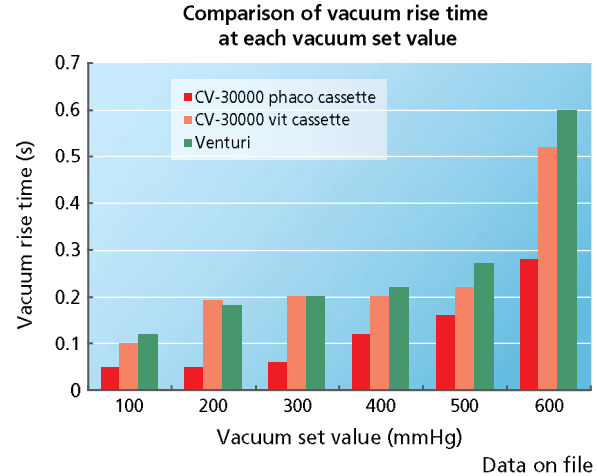
\*2 Available for type AP. (Maximum 5,000 cuts / min is available for type A.)

\*3 Available for type AP. (High Speed Vit 8000 model)

## Fortas Pump

### Sophisticated peristaltic pump

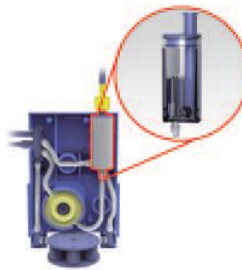
The refined pump achieves vacuum rise at shorter times than the venturi pump with use of a CV-30000 phaco cassette and provides secure nucleus retentivity of a phaco tip and enhanced followability. It achieves vacuum rise at similar times as the venturi pump with use of a CV-30000 vit cassette and provides quick vacuum response during vitreoretinal surgery.



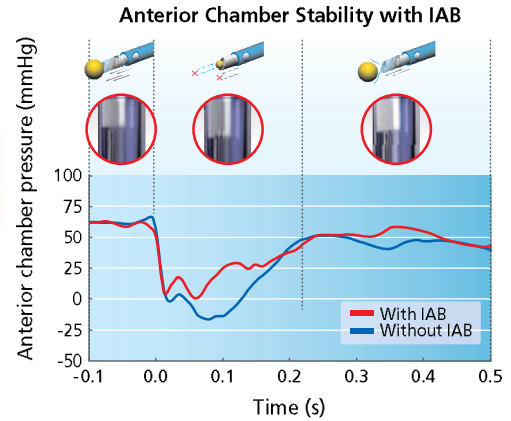
## Advanced Cassette System

### Phaco cassette

The phaco cassette incorporates the unique Irrigation Assist Bottle (IAB) to improve anterior chamber stability. The IAB contains irrigation solution and air. When the occlusion breaks, the air in IAB expands and enables the surge reduction with instant increase of irrigation flow into anterior chamber.



Inside of the cassette

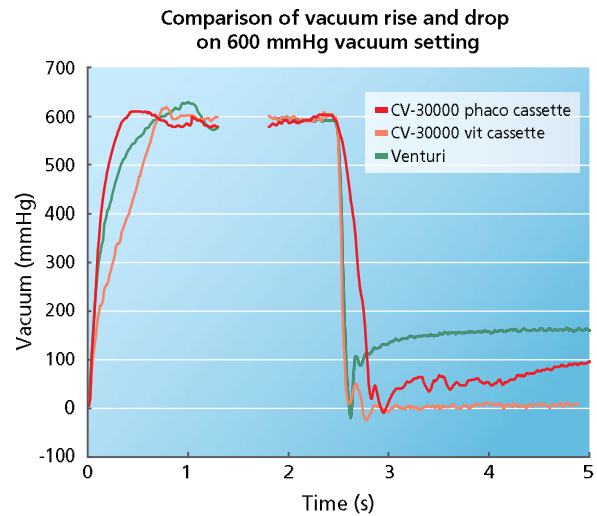


Data on file

### Vit cassette\*

The new vent system controls the vacuum pressure effectively with reduction of the residual suction.

\*Available for type AP.



Data on file

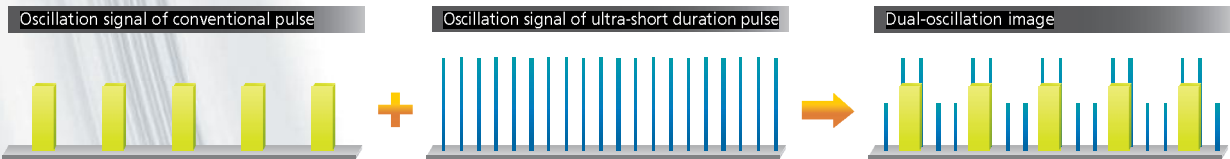
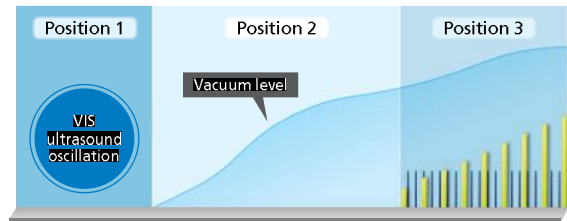
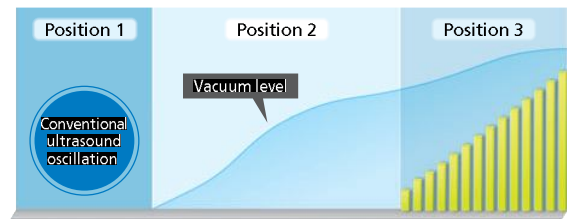


## VIS (Variable Intervals and Strokes)

### ■ Dual-oscillation of conventional pulse and ultra-short duration pulse

The nucleus can be emulsified easily with less energy by using dual-pulse oscillation.

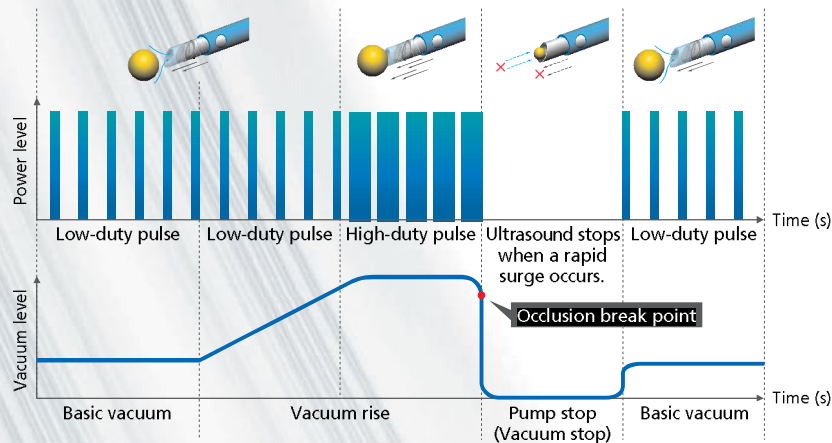
The dual-pulse oscillation provides overlapping and separation of conventional pulse and ultra-short duration pulse. The ultra-short duration pulse can provide high energy or low energy for an extremely short duration. VIS provides numerous customizable oscillation settings.



## APS-Plus (Auto Pulse System-Plus)

### ■ Efficient control of ultrasound and aspiration pump

Both ultrasound and aspiration pump automatically stop immediately after occlusion breaks to minimize surge. When the phaco tip is occluded, an automatic increase in the pulse duty provides a highly efficient control for phacoemulsification. The change in IOP can be controlled when the occlusion breaks.

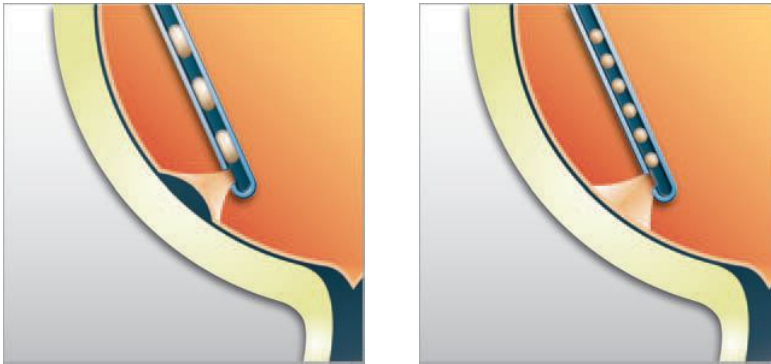


## High Speed Vitreous Cutter



- Maximum 8,000 cuts / min\*

The excision per single cut is decreased with a high speed cutter and it is effective for precise treatment proximal to the retina.

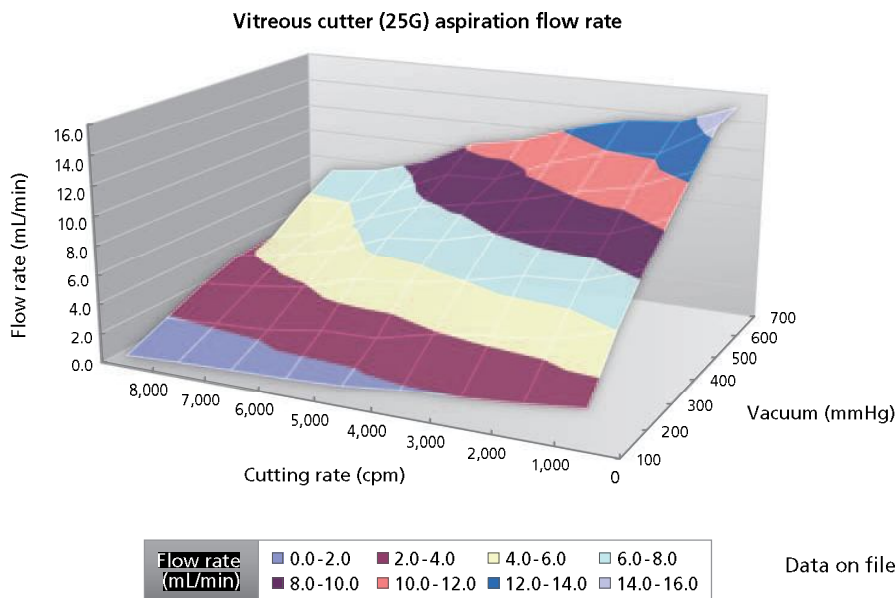


\* Available for type AP. (Maximum 5,000 cuts / min is available for type A.)

## Pro-Pedal Mode

- Desired setting with smart software

Cutting rate, flow rate, and vacuum can be independently controlled and modified in three dimensions. This software improves performance during vitreoretinal surgery and efficiency of vitreous body excisions.



## Navigation Mode

- Guidance with pictures for the setup procedure

Navigation screen uses images to aid in the setup procedure for ease of use.



## Sequential Mode

- Programming for surgical procedure

Operation modes can be switched using the foot pedal.

Example of the program for combined cataract and vitreoretinal surgery



## Multi-functional Foot Pedal

- Enhanced operability with customized foot pedal functions

Foot pedal functions are customizable with up to 8 selectable positions.



## Integration with Green Laser Photocoagulator

- Efficient operation flow and space-saving

The CV-30000 is equipped with a room to integrate the GYC-500 Green Laser Photocoagulator. It enables efficient operation flow and effective use space in the operating room.



## Optimal Cassette System

- Separate cassette system for optimal vacuum control

With the use of the separate cassette system for cataract and vitreoretinal surgery, the CV-30000 provides optimal intraoperative vacuum control during the surgery.



Phaco cassette



Vit cassette

## Selectable Vitreous Cutters

- Conventional cutter

The selectable vitreous cutter based on the surgical techniques optimizes the effectiveness of vitreoretinal surgery.



20G vitreous cutter



23G vitreous cutter



25G vitreous cutter

- Bi-Blade™ cutter (25G)\*

The Bi-Blade™ vitreous cutter cuts twice in a single motion. Its continuously open port enables high aspiration efficiency independent of the cut rate.

\* Available for type AP. (High Speed Vit 8000 model)



Cuts twice in a single motion



Comparison of flow rate for 25G vitreous cutter (Vacuum: 600mmHg)

