DUAL PUMP SYSTEM
TRUE FLOW CONTROL
ANTERIOR/POSTERIOR
TRUE VACUUM CONTROL
MINIMAL TRACTION
DUAL LINEAR CONTROL

FOCUS ON
ASSOCIATE ADVANCED ASPIRATION TECHNOLOGY

FLOW CONTROLLED VITRECTOMY
- Direct aspiration control, independent of cutting speed, vacuum level and duty cycle
- Experience control and precision like never before

VACUUM CONTROLLED HIGH SPEED VITRECTOMY
- Cutting rate up to 6000 cuts/min
- Dual Linear Mode
- 3-D Mode

DUAL PUMP, PERISTALTIC & VENTURI
Flexibility in aspiration control
- Peristaltic pump for real flow controlled aspiration
- Venturi pump for vacuum controlled aspiration
- One cartridge for both pumps

DUAL LINEAR / 3D VITRECTOMY
Controlled vitrectomy
- Flexibility in control
- Excellent cutting performance
- Minimal traction
- Efficient aspiration

FULLY PROGRAMMABLE DUAL LINEAR FOOTSWITCH
Flexibility in linear control
- Independent linear phaco power and aspiration
- Independent linear vitrectomy cutting and aspiration
- 8 Programmable function switches

4TH GENERATION HIGH SPEED 6000 CUT VITRECTOMES
SUPERB CUTTING EFFICIENCY & FLOW RATE
Optimized duty cycle for maximum aspiration control at each cutting rate
2ND GENERATION LED ILLUMINATION

- 2nd generation multi LED lights source with unique lens focusing system
- Light intensity up to 40 lumen
- Triple port connector for up to 3 light fibers simultaneously
- Safe light without phototoxic ultraviolet or infrared output

Wireless Remote Control
- For optimal user flexibility

Viscous Fluid Injection
- Pneumatic drive for Viscous Fluid Injection
- Fixed or linear controlled injection

Viscous Fluid Extraction
- Linear controlled Viscous Fluid Extraction

Memory Setting
- User-friendly memory setting
- Individual programmable memory settings for all parameters

2ND GENERATION HIGH VACUUM CARTRIDGE

- One cartridge for peristaltic and venturi pump
- Effective intraocular fluid dynamics with strong followability to phaco-I/A aspiration port and tractive force
- Option for VGPC pressurized IOP control
ASSOCIATE EXCELLENCE IN ANTERIOR/POSTERIOR

**Diathermy**
- Endo and Exo Diathermy
- Fixed and linear
- Diathermy control

**Phaco**
- Micro incision technology (MICS)
- Phaco dual linear mode
- 1.8 mm micro incision technology
- Softsonic phaco mode,
  50% phaco power reduction
- Vacuum threshold technology
  for safe & quick lens removal

**Air**
- Anterior and Posterior global pressure control
- Air Tamponade Mode
- Air-fluid Exchange
- Pressure range:
  0-120 mmHg
Dual Pump Phaco and Vitrectomy System

Advanced Features:
- Dual System, Phaco and Vitrectomy
- Twin Pump System, Peristaltic and Venturi
- High Speed Vitrectomy, 20, 23, 25 & 27 gauge compatible
- Ledstar Illumination
- Simultaneous Dual Linear Footswitch

Phaco

- Phaco for 1.8 mm MICS.
- SoftSonic for reduction of ultrasound energy
- Dual linear mode for independent control of aspiration and phaco power
- 40 Khz Ultrasound technology with continuous auto tuning
- Peristaltic pump:
  - High vacuum occlusion technology for advanced capsular protection
- Venturi Pump:
  - Venturi threshold: for optimized flow and hold ability to increase phaco efficiency combined with a stable chamber

Irrigation/Aspiration

Peristaltic Aspiration System for flow control
- Aspiration Flow: 1-50 cc/min
- Vacuum: 10-600 mmHg

Venturi Aspiration System for vacuum control
- Vacuum: 10-600 mmHg
- Selectable vacuum rise-time
ASSOCIATE ACCESSORIES

I/A HANDPIECES

1273.EH
Universal I/A Handpiece, excl. tips

1273.EA
Curved tip

1273.EPA
Curved tip with silicone sleeve

1273.ES
Straight tip

DIATHERMY

1115
Bipolar coagulation forceps, angled

1115.A
Diathermy cable for 1115/1116

1120(.06)/(.05)/(.04)
Endo-diathermy handle with straight pointed electrode, available in 20G/0.9 mm, 23G/0.6 mm, 25G/0.5 mm, 27G/0.4 mm

1122
Exo-diathermy handle with curved or straight tip, 1.3 mm

1120.A
Diathermy cable for 1120/1121/1122

PHACO HANDPIECES

3002.M
Mini Phaco handpiece, suitable for emulsification/fragmentation and cool phaco

PHACO ACCESSORIES

3008.N
Cleaning Adaptor Phaco Needle

3008.S
Cleaning Adaptor Phaco Sleeve

3008.K
Reusuable Needle Wrench

6279.PEN
User Interface Touch Pen

3008.IR18
Irrigation Sleeve for 1.8 mm Phaco needles (set/6, non-sterile)

3008.IR22
Irrigation Sleeve for 2.2 mm Phaco needles (set/6, non-sterile)

3008.IR25
Irrigation Sleeve for 2.5 mm Phaco needles (set/6, non-sterile)

3008.IR28
Irrigation Sleeve for 2.8 mm Phaco needles (set/6, non-sterile)
PHACO ACCESSORIES

REUSABLE PHACO NEEDLES: MICS 1.8 MM INCISION

3005.F18 (1.8 mm)
- Triple step flared phaco needle
- Limited reusable 20x
- 30 degree tip
- Irrigation sleeve
- Testchamber

3005.AF18 (1.8 mm)
- Triple step angled flared phaco needle
- Limited reusable 20x
- 30 degree tip
- Irrigation sleeve
- Testchamber

REUSABLE PHACO NEEDLES: 2.2 MM INCISION

3005.F22 (2.2 mm)
- Triple step flared phaco needle
- Limited reusable 20x
- 30 degree tip
- Irrigation sleeve
- Testchamber

3005.AF22 (2.2 mm)
- Triple step angled flared phaco needle
- Limited reusable 20x
- 30 degree tip
- Irrigation sleeve
- Testchamber

3005.S22 (2.2 mm)
- Straight phaco needle
- Limited reusable 20x
- 30 degree tip
- Irrigation sleeve
- Testchamber

REUSABLE PHACO NEEDLES: 2.5 MM INCISION

3005.F25 (2.5 mm)
- Triple step flared phaco needle
- Limited reusable 20x
- 30 degree tip
- Irrigation sleeve
- Testchamber

3005.AF25 (2.5 mm)
- Triple step angled flared phaco needle
- Limited reusable 20x
- 30 degree tip
- Irrigation sleeve
- Testchamber

3005.S25 (2.5 mm)
- Straight phaco needle
- Limited reusable 20x
- 30 degree tip
- Irrigation sleeve
- Testchamber

REUSABLE PHACO NEEDLES: 2.8 MM INCISION

3005.F28 (2.8 mm)
- Triple step flared phaco needle
- Limited reusable 20x
- 30 degree tip
- Irrigation sleeve
- Testchamber

3005.AF28 (2.8 mm)
- Triple step angled flared phaco needle
- Limited reusable 20x
- 30 degree tip
- Irrigation sleeve
- Testchamber

20G & 23G FRAGMENTATION NEEDLES

3005.FT
20 Gauge
- 0.9 mm incl. needle wrench
- Box/3

3005.F106
23 Gauge
- 0.6 mm incl. needle wrench
- Box/3

VFI-VISCIOUS FLUID INJECTION

1363.DD
VFI pack for D.O.R.C. Silicone Oil syringes (Box/5, sterile)

VFE-VISCIOUS FLUID EXTRACTION

1362.D
Disposable pack for viscous fluid extraction: 10 cc syringe & 20 gauge side port vacuum needle (Box/6, sterile)
ASSOCIATE ACCESSORIES

4TH GENERATION HIGH SPEED 6000 CUT VITRECTOMES

- Closest aspiration port to the tip
- Increases aspiration flow
- Increased shaft stiffness
- 6000 cuts/min.

Available High Speed 6000 cut Vitrectomes:

- 6267.NMD04 Pneumatic High Speed Cutter, 27G/0.4 mm. (Box/6, sterile)
- 6267.NMD05: Pneumatic High Speed Cutter, max. 6000 cuts/min 25G/0.5 mm. (Box/6, sterile)
- 6267.NMD06: Pneumatic High Speed Cutter, max. 6000 cuts/min 23G/0.6 mm. (Box/6, sterile)
- 6267.NMD09: Pneumatic High Speed Cutter, max. 6000 cuts/min 20G/0.9 mm. (Box/6, sterile)

AIR-FLUID EXCHANGE/GLOBAL PRESSURE CONTROL

1250.E
3-Way connector for combined air-fluid procedure and anterior/posterior global pressure control

1250.ABD
Disposable tubing complete with filter for Air-Fluid Exchange (Box/6, sterile)

1250.VGPC
Vented Global Pressure Control air pump controlled infusion for constant intraocular pressure. Suitable for anterior & posterior use (Box/6, sterile)

CARTRIDGE

6279.ASC  Includes:

- Cartridge, suitable for:
  - Peristaltic & Venturi
  - Anterior & Posterior
- Irrigation Giving set
- Irrigation /Aspiration Tubing

(Box/5, sterile)
ASSOCIATE ACCESSORIES

6000.ASC20 – 20G VITRECTOMY PACK

**Includes:**
- A 6267.NMD09 (Box/6, sterile) Vitrectome (max. 6000 cuts/min)
- B 6279.ASC Cartridge with fluidics tubing set
- C 3269.SBS Endoillumination Probe
- D 1250.ABD Disposable tubing complete with filter for air-fluid exchange
- E 2-Way Stopcock
- F Female/female luer connector
- G 51.5230 MVR Blade 20G, straight
- H 1271.D2 Drape for touch screen
- I 1272.BD Drape for remote control
- J 1271.D2 Mayo Cover

**Stand Alone Components:**
- 1250.VGPC Vented Global Pressure Control Set
- 6267.NMD09 Vitrectome (max. 6000 cuts/min)
- 1363.DD Viscous Fluid Injection Pack for Silicone Oil Syringes
- 1362.D Viscous Fluid Extraction Pack
- 51.5230 EFD.100 MVR Blade 20G, straight
- Disposable Dual Bore PFC Cannula

6000.ASC23 - 23G VITRECTOMY PACK

**Includes:**
- A 6267.NMD06 (Box/6, sterile) Vitrectome (max. 6000 cuts/min)
- B 1272.ED206 23 Gauge One Step Cannula System
- C 6279.ASC Cartridge with fluidics tubing set
- D 1250.ABD Disposable tubing complete with filter for air-fluid exchange
- E 2-Way Stopcock
- F Female/female luer connector
- G 3269.SBS06 Endoillumination Probe
- H Drape for touch screen
- I Drape for remote control
- J 1271.D2 Mayo Cover

**Stand Alone Components:**
- 1250.VGPC Vented Global Pressure Control Set
- 6267.NMD06 Vitrectome (max. 6000 cuts/min)
- 3269.B06 TotalView Endoillumination Probe
- 3269.D06 Universal PVC infusion line for 23G cannula system for VFI/VFE
- 1272.VFI06 Disposable VFI cannula, with 7 mm thin wall polyimide tip
- EFD.06 Efiar Dual Bore Cannula

6000.ASC25 - 25G VITRECTOMY PACK

**Includes:**
- A 6267.NMD05 (Box/6, sterile) Vitrectome (max. 6000 cuts/min)
- B 1272.ED205 25 Gauge One Step Cannula System
- C 6279.ASC Cartridge with fluidics tubing set
- D 1250.ABD Disposable tubing complete with filter for air-fluid exchange
- E 2-Way Stopcock
- F Female/female luer connector
- G 3269.SBS05 Endoillumination Probe
- H Drape for touch screen
- I Drape for remote control
- J Mayo Cover

**Stand Alone Components:**
- 1250.VGPC Vented Global Pressure Control Set
- 6267.NMD05 Vitrectome (max. 6000 cuts/min)
- 3269.B05 TotalView Endoillumination Probe
- 3269.D05 Universal PVC infusion line for 25G cannula system for VFI/VFE
- 1272.SD25 25-gauge soft tipped cannulas
- 1272.5D25
ASSOCIATE ACCESSORIES

6000.ASC27 - 27G VITRECTOMY PACK

Includes:
A 6267.NMD04 Vitrectome (max. 6000 cuts/min)
B 1272.ED204 27 Gauge One Step Cannula System
C 6279.ASC Cartridge with fluidics tubing set
D 1250.ABD Disposable tubing complete with filter for air-fluid exchange
E 2-Way Stopcock
F Female/female luer connector
G 3269.SBS04 Endoillumination Probe
H Drape for touch screen
I Drape for remote control
Mayo Cover

Stand Alone Components:
1250.VGPC Vented Global Pressure Control Set
6267.NMD04 Vitrectome (max. 6000 cuts/min)
3269.B04 TotalView Endoillumination Probe
3269.D04 Endoillumination Probe
1286.WD04 Disposable Microforceps: End-Gripping
2286.PD04 Disposable Microscissors: Oshima, Hooked
2281.AD04 Backflush instrument with blunt needle, active aspiration

PHACO PACKS

DISPOSABLE PHACO PACKS : MICS 1.8 MM INCISION

8400.18F01 Includes:
A 1.8 mm Triple step flared phaco needle
B 2 x Irrigation Sleeve
C Testchamber
D Needle Wrench

8400.18A01 Includes:
A 1.8 mm Triple step angled flared phaco needle
B 2 x Irrigation Sleeve
C Testchamber
D Needle Wrench

DISPOSABLE PHACO PACKS : 2.2 MM INCISION

8400.22F01 Includes:
A 2.2 mm Triple step flared phaco needle
B 2 x Irrigation Sleeve
C Testchamber
D Needle wrench

8400.22A01 Includes:
A 2.2 mm Triple step angled flared phaco needle
B 2 x Irrigation Sleeve
C Testchamber
D Needle wrench

8400.22S01 Includes:
A 2.2 mm Straight phaco needle
B 2 x Irrigation Sleeve
C Testchamber
D Needle wrench
PHACO PACKS

DISPOSABLE PHACO PACKS : 2.5 MM INCISION

8400.28F01 Includes:
A  2.8 mm Triple step flared phaco needle
B  2 x Irrigation Sleeve
C  Testchamber
D  Needle wrench

8400.25F01 Includes:
A  2.5 mm Triple step flared phaco needle
B  2 x Irrigation Sleeve
C  Testchamber
D  Needle wrench

8400.25A01 Includes:
A  2.5 mm Triple step angled flared phaco needle
B  2 x Irrigation Sleeve
C  Testchamber
D  Needle wrench

8400.25S01 Includes:
A  2.5 mm Straight phaco needle
B  2 x Irrigation Sleeve
C  Testchamber
D  Needle wrench

DISPOSABLE PHACO PACKS : 2.8 MM INCISION

8400.28F01 Includes:
A  2.8 mm Triple step flared phaco needle
B  2 x Irrigation Sleeve
C  Testchamber
D  Needle wrench

8400.28A01 Includes:
A  2.8 mm Triple step angled flared phaco needle
B  2 x Irrigation Sleeve
C  Testchamber
D  Needle wrench

CUSTOMIZED PACKAGING CONSUMABLES

Additional Consumables:
A  Disposable Vitrectomy Lenses (1284-DD & 1284-ED)
B  Disposable Forceps & Scissors (complete range)
C  Disposable Backflush Instruments (complete range)
D  Disposable Backflush Consumables (needles & reservoirs)
E  Disposable Light Fibers (complete range)
F  Disposable Laser Probes (complete range)
G  Disposable Phaco needles & consumables
H  MVR Blade
I  Disposable I/A handpieces (no image available)

CUSTOMIZED PHACO/VITRECTOMY PACKS

Flexible customized packs for individual hospital needs
Ask your sales representative about options for your facility