

EXCELON

EXCELLENT 3D EdGER

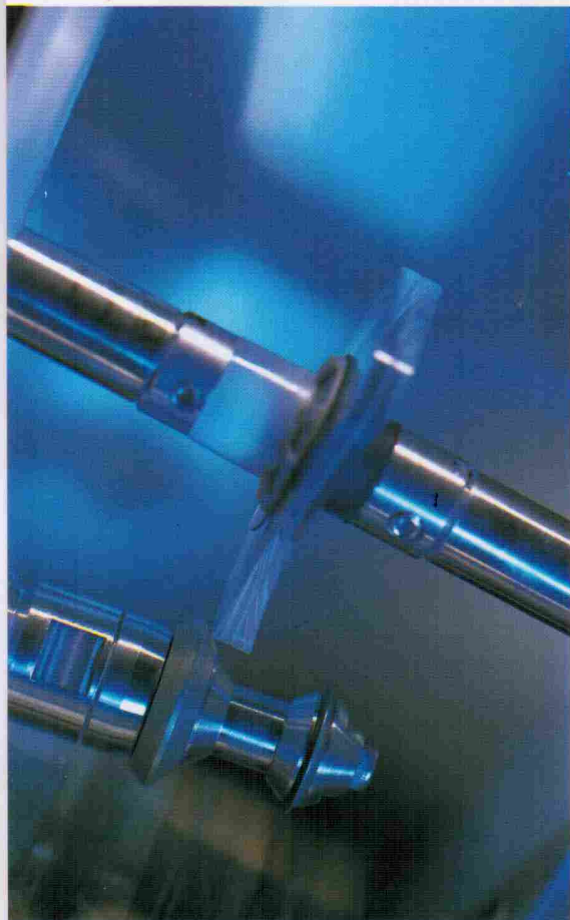
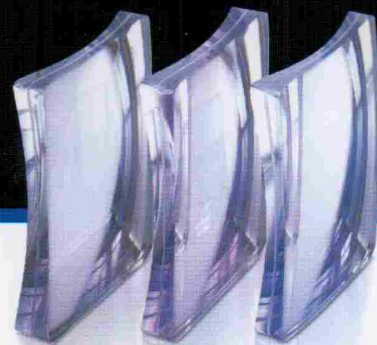


Huvitz
Pacing Progress toward People

EXCELON

EXCELLENT 3D EdGER

Huvitz Excelon™ provides unparalleled level of versatility and efficiency for today's retail practices need. With cutting – edge 3-Dimensional Digital Technology, Excelon™ offers completely integrated automatic finishing requirements, Beveling, Polishing, Grooving and Safety Beveling, for faster, easier and more accurate lens processing.



1 One – Stop Lens Finishing Process

Consisting of the cutting-edge technology, Excelon™ simplifies the finishing operation with the unparalleled efficiency.

Beveling, Polishing, Grooving and Safety Beveling processes are completely integrated and easily performed by a simple touch of a button.

2 Unmatched Finishing Quality

Excelon™ offers superior quality and unmatched accuracy with the excellent features.

- Accurate Tracing fitted to the frame shapes and materials
- 16000 points of High Resolution Scanning
- Adjustable Grooving Selection with 0.01 mm step in depth and width
- Two Phase Customized Safety Beveling

3 “Easy-Control System” for simple Maintenance

Graphically Designed Test Mode enables the operator to effectively perform the routine maintenances without the technical assistance.

Module-based Engineering allows the easy and convenient replacement of grinding wheels and components.

4 Edges All Known Lens Materials

All known lens materials like Glass, Plastic, High Index, Trivex and Polycarbonate can be edged effectively in one machine. The automatic pump switch mode, activates to ensure a smooth finish according to different edging regimens.

ALL 3D PROCESS TRACER

Tracer – Fully Automatic

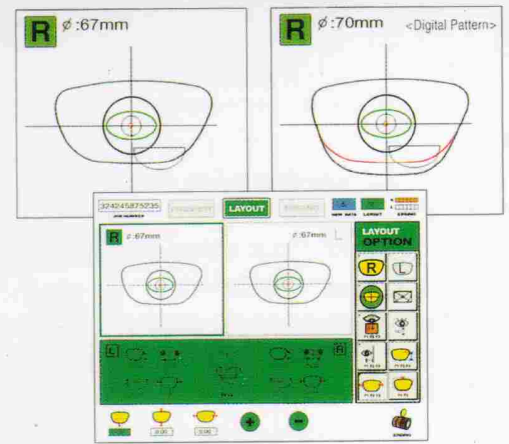
3-Dimensional Tracing

- ▲ Automatic Initialization
- ▲ Automatic Insertion of scanning stylus.
- ▲ 3-Dimensional fast Tracing of Frames, Patterns and Lenses
- ▲ Real-Time Automatic Data Transfer to Edger
- ▲ Left-Eye, Right-Eye or Simultaneous Two eye Readings Available
- ▲ Automatic Data Transfer of FPD value Edger



LAYOUT-DIGITAL PATTERN LAYOUT

- ▲ The "Digital Pattern Layout" modifies the lens shape in left/right, top/bottom as well as circumference and optimizes the fitting challenge for Rimless and Semi-Rimless.
- ▲ If Optical Centered Layout is not feasible, Geometrical Centered Layout (Boxing) is available alternatively
- ▲ Layout for Far Vision and Near Vision in Bifocal Lens are also provided
- ▲ Horizontal PD value can be easily adjusted
- ▲ Various Input Methods are applied to set the height for the multi-focal progressive lens
- ▲ If only the frame is being replaced, the size of old and new frame can be compared on the screen easily



Optimal Beveling and Grooving with 3-Dimensional Measurement

3D Lens Measurement with lens Feeler

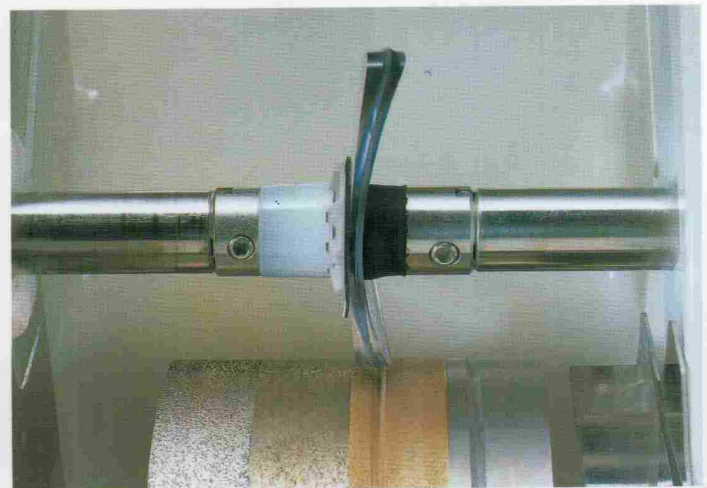
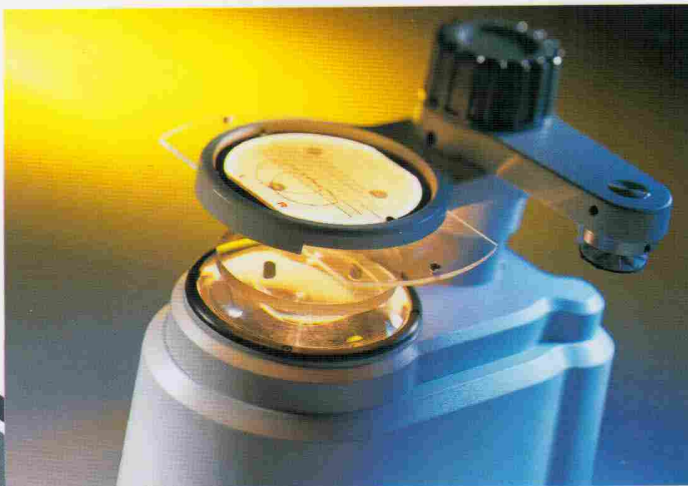
- ▲ Adjustment of bevel/ groove position and depth possible on the lens.
- ▲ Easy adjustment of the grooving axis and position in the test menu.
- ▲ Grooving and Beveling provided on either base-curve mode or on the automatic feeling mode. The 3D feeling of the Excelon allows grooving according to the lens shape.
- ▲ The bevel position can be adjusted in 0.01mm step.
- ▲ The polishing of the bevel or the groove takes place to enhance the finish.

SPECIFICATION CPE4000

Edging System	Automatic
Edging Mode	Beveling
	Flat Edging
	Grooving
	Safety Beveling
	Polishing
Lens	Glass, Plastic, High Index Plastic, Poly Carbonate, Trivex
Edging Size	Max: 90 mm
	Mi: 18 mm
Weight	45 kg
Power Supply	Ac 110/220V, 50/60 Hz
Power Consumption	1200 W (Max)
Dimension	570 (W) X 540 (D) X 460 (H) mm
Others	High Brightness Wide TFT LCD Adopted
	Bar Code System Available
	Networking System

TRACER CFR 4000

Dimension	280 (W) X 300 (D) X 230 (h) mm
Tracing System	3D Binocular
Weight	8 kg
Power Supply	AC 110/220 V, 50/60 Hz
Power consumption	42 W (Max)
Others	User friendly display with LCD

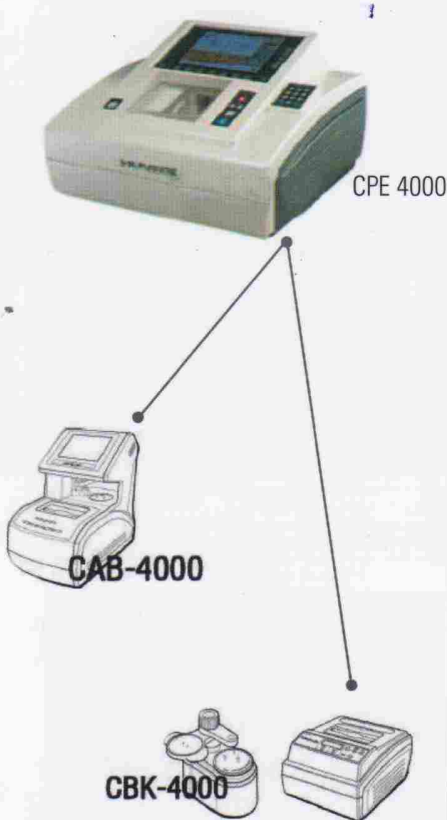
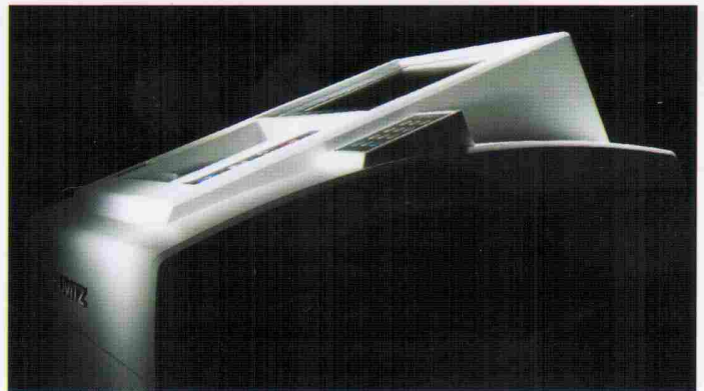
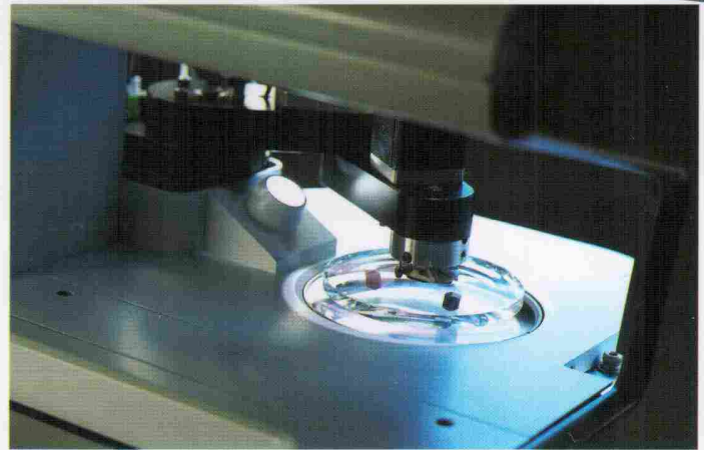


CAB 4000 AUTO BLOCKER

Just place the lens in the receptacle and the Excelon shall do the rest.

The Excelon Auto-Blocker CAB 4000 is a one stop finishing solution combining the functions of a tracer, lensmeter and a blocker in one powerful and fully automated system. Everything is touch-screen.

- ▲ Fully Automated. – Frame reading, lens centering and blocking are performed automatically for speed and convenience. The CAB 4000 auto-detects the shape of the demo lens, auto-detects the type of lens (bifocal, single vision, Progressive) and gives an icon based blocking guide according to your fitting needs.
- ▲ Direct Input of Lens layout and Edging options – All lens layout parameters like the PD, Fitting Height, Centration, Axis marking of lensmeter can be performed using the icon based screen for the ultimate precision. The selected data is then automatically transferred to the Excelon CPE 4000 Edger. Just clamp the lens and start the edging.
- ▲ 3D Joint Motorised Robotic Arm for blocking – The patented 3 joint motorized robot arm is efficient and extremely precise.
- ▲ Automatic Recognition and trace – the complete frame reading process including frame capture, groove detection and tracing is fully automatic resulting in exceptionally accurate scanning. The user can modify the lens width, height and size on the screen.
- ▲ **The CAB 4000 can easily be integrated with CPE 4000, and is available as an option.**



Technical Specifications

Lens Analysis	Method : Both Projected image and refractive image
	Lens diameter : Max 80mm, Min 18mm
	Camera : 2 CMOS Sensors
	Power measurement : SPH, -25D ~ +20D, CYL \pm 10D
	Measurement unit : 0.01D
	Accuracy of centering : -0.5 ~ + 0.5mm
	Accuracy of axis : \pm 1°
Layout Unit	Mode : Single, Multi, Prog, Dot, Manual
	FPD : 30~99.50 (in steps of 0.01mm)
	PD : 30~99.50 (in steps of 0.01mm)
	Optical Height : Δ Y, Mixed Height, Box Height
	Frame type : Metal, Plastic, Optyl
Edging Info	Material : Glass, Plastic, High Index Plastic, Poly Carbonate, Trivex
	Edging Type : Beveling, Grooving, Rimless
	Edging Position : Support several types for the designating position
Blocking	Blocking method : Robot Arm style
	Blocking pressure : 3kgf
GUI	Display : True Color LCD 8.4 inch 800x600
	User Interface : Touch Pad + Main several keys
External	ComPORT 1: Edger 1
Communication Port	ComPORT 2 : Edger 2
	ComPORT 3 : Tracer Out
	ComPORT 4 : Bar Code Reader

Design and details can be changed without prior notice for the purposes of improvement

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