



# ME-1000

Multifunction Edger

Eye & Health Care



## **ME-1000**

### **Beyond the Limits of Lens Edger Standards**

Dreams come true --- NIDEK delivers the advanced ME-1000 Multifunction Edger that can cut, edge, polish, groove, drill and apply a safety bevel to the highest industry standards. With an LCD touch screen, the ME-1000 allows operators to achieve accurate, reliable and flexible performance with more simple and easier operation. The ME-1000 is a truly outstanding lens edging system that offers everything you need not only for retailing but also for a large-scale optical laboratory.

# Drilling

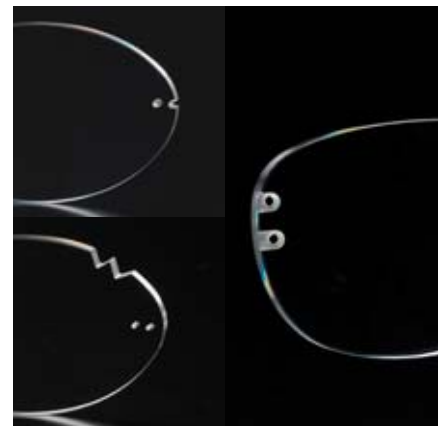
## ■ 3D Drilling with Tilting Function

The ME-1000 offers drilling with flexible 3D adjustment, providing high precision and accuracy. When in automatic mode, the ME-1000 will drill a hole at 90 degrees to the front surface, ensuring the best possible fit for rimless sides. When in manual mode, the hole can be set at an intended angle from 0 to 30 degrees to the vertical axis of the lens surface.



## ■ Fully Automatic Drilling for Combination Holes

The ME-1000 easily drills combination holes such as parallel twin holes, hole & notch, countersunk holes, etc. Just by coordinating the holes, the ME-1000 automatically calculates the best drilling angles and creates the holes. This eliminates unnecessary pressure on frame and lens, and a time-consuming task for rimless frames.



## Grooving

### ■ 3D Grooving with Tilting Function

With 3D tilt control, the ME-1000 provides precise and highly steady grooving for entire circumference, regardless of the shape, curvature and thickness of the lens. In guided mode, the position, depth and width of the groove can be adjusted to suit the frame.



## Safety Beveling

### ■ Safety Beveling with Polish

The ME-1000 also has the ability to polish the safety bevel, ensuring no dull edges on a rimless lens. The amount of safety bevel can be manually selected from Large, Medium and Small.

Flat : Front & Back  
Bevel : Front & Back / Back only  
(Selectable)



## Polishing

### ■ Mirror Polish

Advanced Mirror Polish technology offers high quality finish. The ME-1000 has the ability to apply both a flat edge polish and a bevel polish.



# Edging

## ■ High Speed & High Quality

The ME-1000 offers the world-class high quality and fast processing time, realized by the advanced 600W direct drive spindle motor, linear control carriage and optimal pressure control system. Highly efficient mechanism offers 15% faster processing time than our former edger models.

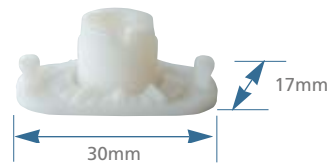
## ■ Extended Lens Types

The ME-1000 accommodates all types of lens --- glass, plastic, polycarbonate, acrylic, etc.

The ME-1000 also has special grinding modes for certain lenses to provide optimum results, detecting the pressure on the lens while edging, reducing the inaccuracies and the grinding noise emission (-10db compared to former models). For example, the new "TRX mode" for new TRIVEX material offers increased precision and stability in processing.

## ■ Pliable Cup

Specially developed "Pliable Cup" offers high flexibility, fitting lens surfaces with varied curvatures and coatings. The wide attachment area helps hold the lens firmly, preventing the slip of axis during the edging process.



NIDEK Pliable Cup



Pliable Cup Remover

## ■ Versatile Grinding Wheels

The ME-1000 has three types of grinding wheel composition - Type PLB, PLB-G and PLB-2R. Combining a polycarbonate/CR39 roughing wheel, a glass roughing wheel, a glass bevel and flat wheel, a plastic bevel and flat wheel and a bevel and flat polish wheel, the ME-1000 ensures the best possible finish for all types of lenses.

### ME-1000 Wheel Types

Type \ Lens	Plastic	Acrylic	Polycarbonate/CR39	Glass
PLB	○	○	○	×
PLB-G PLB-2R	○	○	○	○

○ = Available    × = Not available

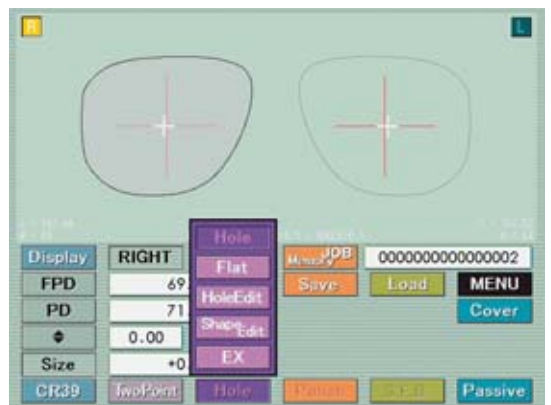


## Operability

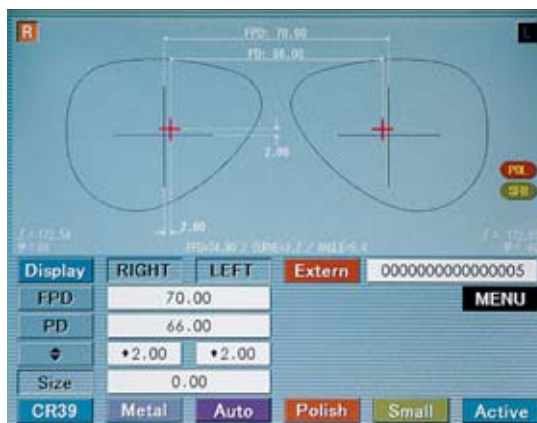
### ■ 8.4-inch LCD Touch Panel

The user-friendly LCD touch panel displays life-sized layout for both eyes.

The operator can easily enter the patients' PD and segment height, as well as select the lens material, frame type, edge polish and safety level settings.

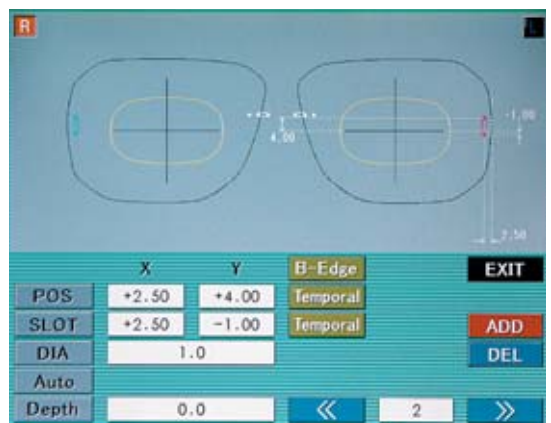


Binocular Display



ME-1000 provides wide binocular display for easier operation.

Drilling Editor



Automatic/Manual setting of the drilling tilt offers highly flexible performance.

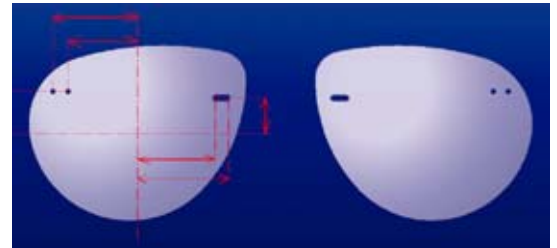
## ■ Easy Hole Coordinates Input

When "Two Point" is selected as the frame type, hole coordinates for a rimless frame can be entered in one of three formats selectable according to your preference. You may set a hole position either by entering their position numerically or by touching the screen.

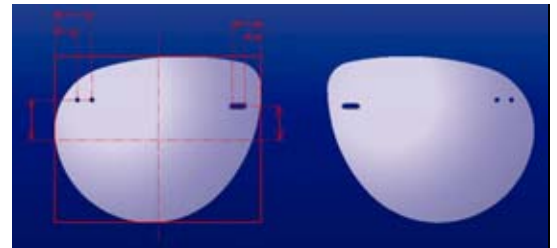
**Center Mode** : All coordinates start from the Geometric center of the shape.

**B-Edge Mode** : The coordinates are calculated to the edge of an imaginary box around the lens shape.

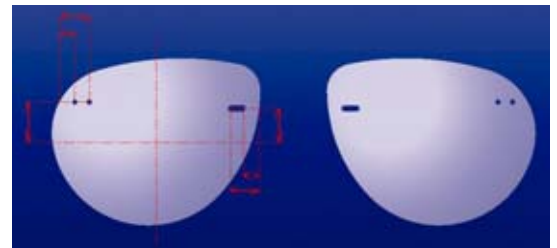
**H-Edge Mode** : The coordinates are measured to the edge of the lens shape.



Center Mode



B-Edge Mode



H-Edge Mode



## Further Versatility

### ■ High Extensibility

The ME-1000 features and integrates high capacity compact flash in the form of a memory disk, allowing easy and efficient data management and storage on a PC.

### ■ Shape Editor\*

To alter the size of a lens shape to meet a wider variety of customer needs.

Before (Traced shape)



After (Desired shape)



### ■ Design Cut Software\*

To assist you in your challenge toward more free and various designs of rimless frame glasses.

\*Future release.





## Intelligent Blocker ICE-9000 (Optional)

### ■ Fast, Precise and Easy Blocking

The NIDEK ICE-9000 offers automatic blocking for any type of lenses with greater ease and precision.

The ICE-9000 incorporates the ALM (Auto Lens Meter) function to permit lens blocking without having to mark and center the lens with a lensmeter. The ICE-9000's blocking arm moves in both the X and Y directions and the blocking head rotates, making it easier and simpler to block any lens. When blocking, just place a lens and the ICE-9000 takes over automatically. The ICE-9000 incorporates the color touch screen for optimum ease of use.



### ■ Built-in 3D Tracer

A tracer is incorporated into the main console and the ICE-9000 provides high-speed and precise tracing in all three dimensions.

The ICE-9000 boasts the smallest footprint in the world, and with its operator-friendly design, frame setting position can be easily observed during the tracing.



## Laboratory Applications

### ■ Flexible Lab Configurations

Combined with the NIDEK ICE-9000 Intelligent Blocker, the ME-1000 provides all-in-one functionality with high quality and versatility.

Various lab systems can be easily configured to improve efficiency in large-scale processing facilities - combining the ICE-9000, LT-900 Satellite Tracer, SE-9090 Express System Edger and PC.

### Minimum Configuration

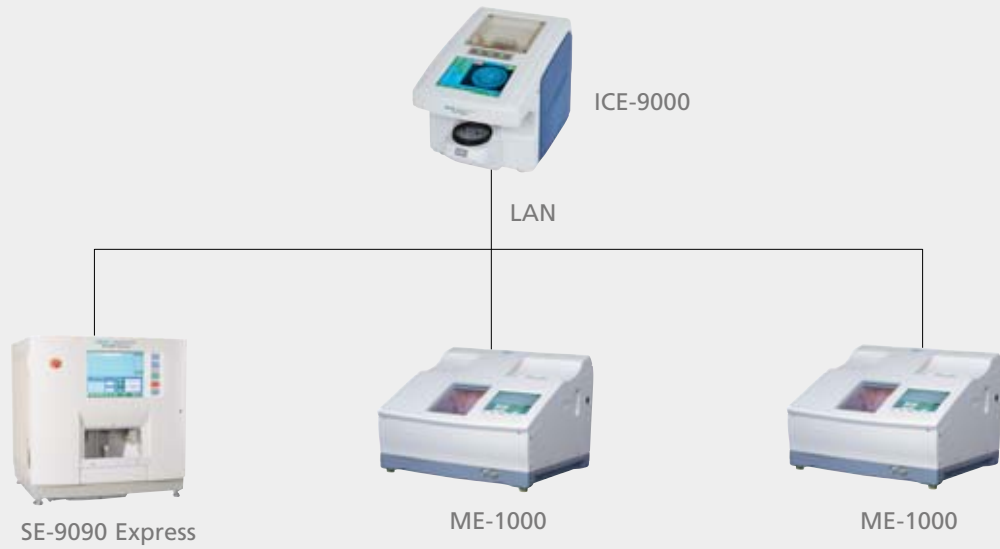


ME-1000 & ICE-9000

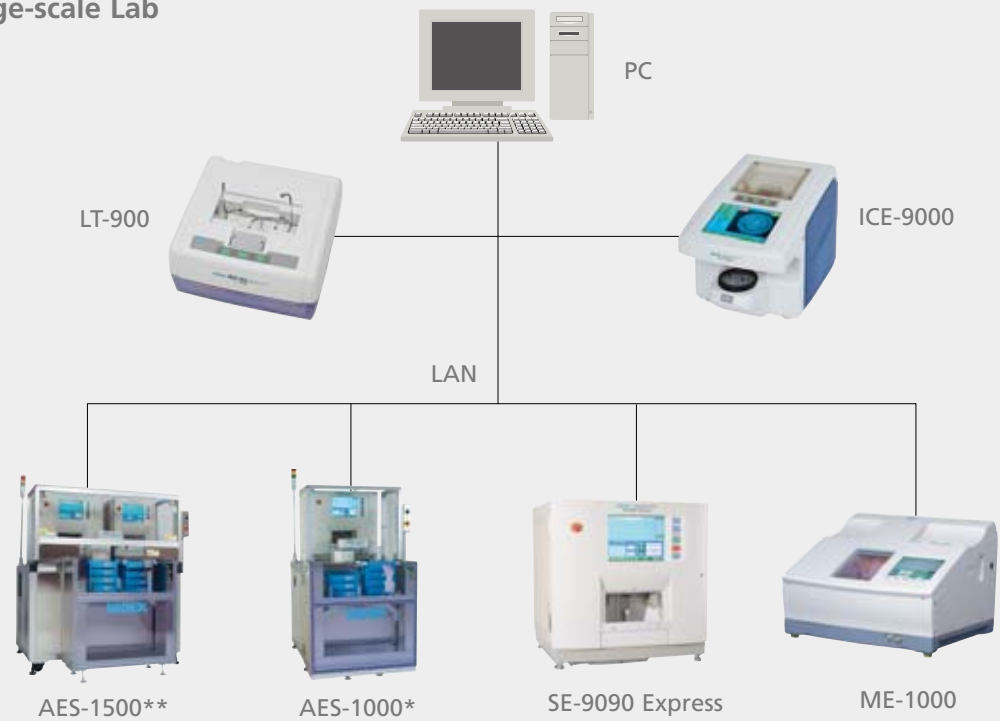
### ■ VCA Protocol Compatible

All the current NIDEK lens edgers and the related products support VCA communication protocol. The VCA version 3.30 accommodates hole drilling data, with which the ME-1000 is compatible.

## Medium Lab



## Large-scale Lab



\*AES-1000: SE-9090 Express + RHU-1000

\*\*AES-1500: SE-9090 Express + AHM-1000 + RHU-1500

These configurations are just examples. Please contact us for further information.

