

Beyond the Limits of Lens Edger Standards

ME-1000

DESIGN +

MULTIFUNCTION EDGER



Multifunction Edger ME-1000

DESIGN+

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■ Automatic 3D Drilling

The ME-1000 DESIGN+ offers drilling with flexible 3D adjustment, providing high precision and accuracy. The system can easily drill combination holes such as parallel twin holes, hole & notch, countersunk holes, etc. Simply by coordinating the hole placement, the ME-1000 DESIGN+ automatically calculates the best drilling angle and creates the desired holes to perfection, thus eliminates unnecessary pressure on frame and lens. This highly technological edging solution offers the ability to use multiple settings for any hole angle, providing both high performance and versatility to meet all the customers desires.



■ 3D Grooving

With the 3D tilt control, the ME-1000 DESIGN+ provides precise and highly steady grooving for the entire lens circumference whether a flat or high-curve lens. In guided mode, the position, depth and width of the groove may be adjusted to suit the frame. Using the newly integrated "Partial Grooving"* option, a more flexible processing is now also possible.



*See "Partial Grooving"

■ Safety Beveling

The amount of safety bevel can be manually selected from Large to Medium, Small and "Special". The "Special" safety beveling allows high minus power lenses to have a cosmetically thinner look achieved by increasing the lens chamfer to the rear temporal side of the lens. The ME-1000 DESIGN+ also has the ability to polish the safety bevel, ensuring no dull edges are visible to your rimless lens. "Special" safety bevel with polish is also possible.





NIDEK's Multifunction Edging system ME-1000 DESIGN+ can not only edge a lens but with advanced technology can polish, groove, drill and apply a safety bevel to the highest of industry standards. This latest addition to the family of edging systems offers advanced functionality for creating an elaborate design lens of the highest quality. With a user-friendly LCD touch panel, the ME-1000 DESIGN+ allows operators to achieve accurate, reliable and flexible performance with a more simple and easier operation. The ME-1000 DESIGN+ is a truly outstanding lens edging system that offers everything you need not only for retail edging but also for a large-scale optical laboratory.



■ High Speed & High Quality Edging

As well as a world-class, high quality edging system, the ME-1000 DESIGN+ offers an improved processing time (15% faster than former models). Using the Advanced 'Soft Grinding' mode, even with super hydrophobic coated lenses you will now achieve optimum results.

■ Extended Lens Types

The ME-1000 DESIGN+ accommodates all lens types inclusive of glass, plastic, polycarbonate, acrylic, etc. To provide best possible results, the system incorporates special grinding modes for individual lens forms. Detecting the chuck pressure whilst edging, the unit intelligently reduces any inaccuracies and grinding noise emission (-10db compared to former models). For example, the new "TRX mode" for TRIVEX material offers increased precision and stability in processing.

■ Versatile Grinding Wheels

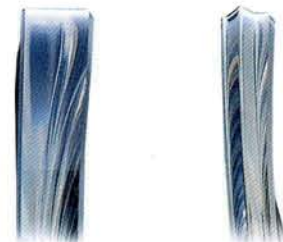
The ME-1000 DESIGN+ has three types of grinding wheel composition - Type PLB, PLB-G and PLB-2R. Combining a polycarbonate/CR39 roughing wheel, a glass roughing wheel, a glass bevel and flat wheel, a plastic bevel and flat wheel and a bevel and flat polish wheel, the ME-1000 DESIGN+ ensures the best possible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

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

○ = Available × = Not available

■ Polishing

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



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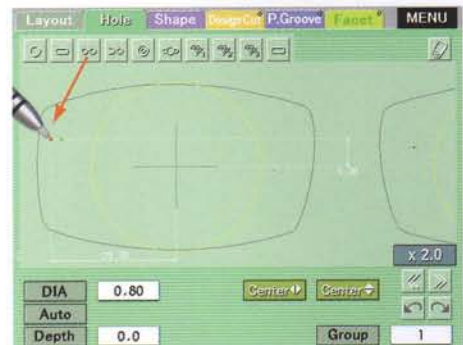
DESIGN +

Expand, Create & Customize Frame Fashion

The ME-1000 DESIGN+ integrates various functions for advanced lens design including Hole Creation, Shape Editor, Design Cut, Partial Grooving and Lens Facet. Each function assists you in your challenge toward more advanced and high-value added lens processing.

■ Hole Creation

Icons of various hole types, such as twin holes, jewel holes (3 different sizes), hole & notch, and countersunk holes, are displayed on the touch panel screen allowing the operator to easily place desired holes on the lens by simple drag & drop operation. This allows quick and intuitive hole data editing.



■ Shape Editor

With a quick and easy operation on the touch panel, the Shape Editor can alter the size of a lens shape to meet a wider variety of customer needs. It is also possible to set certain part of the lens shape to remain unchanged for design purpose.



■ Design Cut

The Design Cut realizes a more free and unique shaping of lens outlines and holes. The details can be magnified x4, allowing better and more precise design. Also, the processed edge can be sloped to have a smoother, fitting edge for a high-curve lens.



Layout

Hole

Shape

DesignCut

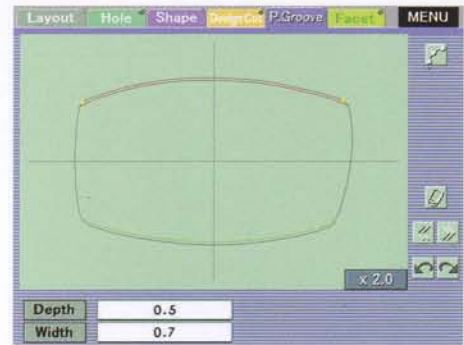
P.Groove

Facet

Partial Grooving

This function is for applying partial grooving to the lens for design purpose and improve the appearance of the rimless lens. For example, by coloring the partial grooved area of the lens, the contour can be accentuated. In addition, the groove width and depth can be partially altered, making the grooving in which the nylon cord sits less noticeable.

Max. display magnification: x2



Facet

Highly fashionable facet processing can be applied to the lens outline, offering a new, high-value added attraction to the lens. With a user-friendly touch panel, quick and intuitive operation is possible. Both front and rear face facet is possible and the amount and the width may be set freely. The sophisticated result simulation provides a virtual shape of the finished lens, allowing visual confirmation of the actual result before processing.



Editing



Simulation



Mini Cup (Optional)



The "Mini Cup" is available for specially small lenses. (Minimum B size : Flat 17.4mm, Bevel 18.4mm) The operator will be notified on the screen when the use of Mini Cup is recommended.

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Flexible Configurations

It is possible to configure various laboratory software systems to improve efficiency in the retail store or large-scale processing facility - thus combining the ME-1000 DESIGN+ Multifunction Edger, ICE-9000 Intelligent Blocker, LT-900 Satellite Tracer, RD-100 Rimless Designer and other available lab edging systems.

Configuration Examples

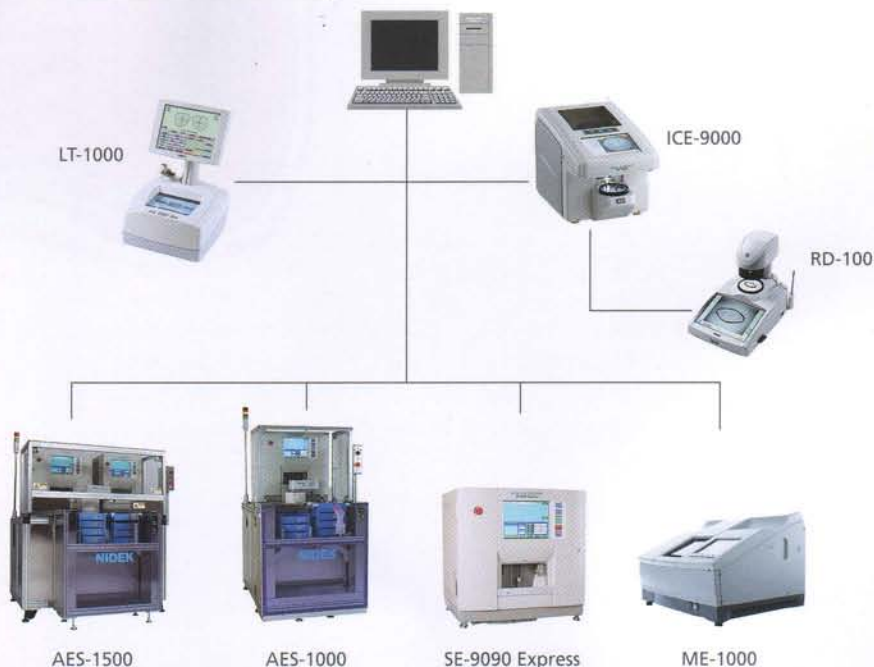
1 | Retail Shop

VCA Protocol Compatible

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



2 | Large-scale Lab



The above configurations are just examples. Please contact us for further information.

Intelligent Blocker **ICE-9000** (Optional)

Easy Blocking with Built-in 3D Tracer

The NIDEK ICE-9000 offers automatic blocking for all lens types with great ease and precision. With a tracing unit incorporated into the main console of the ICE-9000, this intelligent system 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.



Rimless Designer **RD-100** (Optional)

Easy and Accurate Data Creation

The NIDEK RD-100 can easily and accurately read the outline of a demonstration lens for a rimless mount. This data is used then to create both hole position and diameter data via a simple operation. The data may then be transferred to the ME-1000 DESIGN+ to eliminate the dreaded task of data input for the desired holes.



