



Multifunction Edger  
**ME-1500**



THE ART OF EYE CARE

# Dramatic fit and finish

NIDEK's flagship model, the ME-1500, boasts comprehensive technology to deliver expert lens edging. True to its name of "multifunction edger", the expanded features such as drilling, high base curve lens processing, and design functions allow processing a wide array of frames.

NIDEK's exclusive processing mechanism results in a high percentage of one-cut fit accuracy and delivers edging like a master craftsman's work. With an ergonomic and compact design, plus a colorful LCD touch screen, it gives the operator a masterful command of all the functions.

The ME-1500 pairs seamlessly with the NIDEK's peripheral products like blockers and tracers, ensuring stable data management and workflow. Our portfolio of products provides an ideal system to suit any requirement. The ME-1500 satisfies your demands for meticulously finished eyewear.



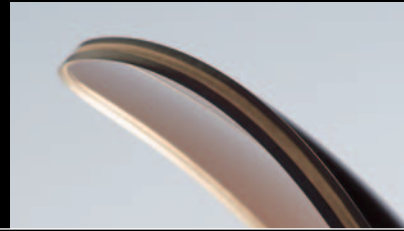
Automatic  
3D drilling

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High base curve  
processing

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Multi/mini  
beveling

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Step beveling /  
partial step  
processing

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Design cut

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Facet

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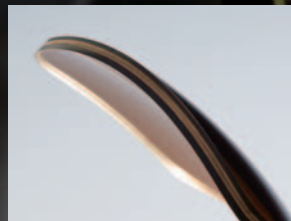
# Masterful lens edging

The ME-1500 offers a multitude of lens processing options based on lens material and coatings through reliable technology. NIDEK's super fit software automatically selects the most appropriate lens processing method by calculating the grinding pressure. Even super hydrophobic coated lenses are processed without axis shifts.



## Automatic 3D drilling

Various hole shapes such as slots, notches, counterbored holes, and jewel holes can be performed. A maintenance message notifies operator when drill bit needs replacing.



## Automatic 3D grooving

Semi-rimless groove jobs are processed with pin-point accuracy resulting in highly attractive lens periphery regardless of lens shape, curve, and thickness. Even when processing high base curve lenses, the width and the profile of the groove are consistent.



## High base curve processing

NIDEK's unique front and rear independent grinding function offers a high base curve bevel with flawless results. The position and height of the bevel can also be manually controlled.



## Multi/mini beveling

Highly customizable, asymmetrical bevel permits lenses to be perfectly fitted into various eyewires. Mini beveling is also available with a single touch of the button.

## Flexible lens clamp

Specialized swivel lens clamp securely stabilizes any lens.



## Safety beveling / polishing

In addition to the standard safety beveling, the special safety bevel makes the edge of a high minus lens look thinner than it actually is. It can be polished to a high luster.



# Unbridled imagination

The design functions of the ME-1500 will stimulate your imagination and make creative ideas a reality. Your unleashed imagination will produce lenses like beautiful works of art.



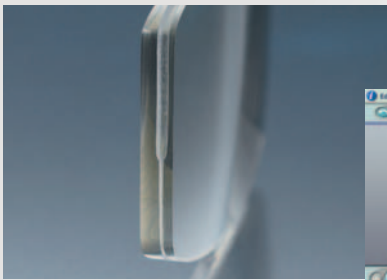
## Step beveling / partial step processing

With step beveling, Rx lenses can be easily inserted into sunglass frames, which are traditionally difficult to fit. The partial step processing grinds Rx lenses for specialty-type sport frames. Maximum lens size:  $\phi 67$  mm (type PLB-8S),  $\phi 72$  mm (type PLB-2R8S)



## Design cut

Bespoke lens shapes can be designed creatively by utilizing the drill bit as a milling tool.



## Partial grooving/beveling

Multiple grinding conditions can be applied to a lens, such as partial grooving and beveling. Changing the groove width and depth at different locations is possible, along with partial bevel.



## Facet

The ME-1500 creates a highly fashionable facet on a lens edge by setting the position and width. The finished design of front and rear facet can be viewed on the screen in advance for accurate processing.





## User friendly

The distinctive design of the ME-1500 is in the pursuit of ergonomics and ease of use. A full-scale display and jog dial offer smooth data entry. The assistant functions make workflow more efficient, even for beginners.



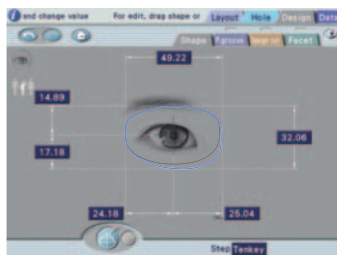
### Intuitive 3D bevel simulation

Bevel is simulated in 3D, on the screen, to observe the real-time actual shape and position, from any angle.



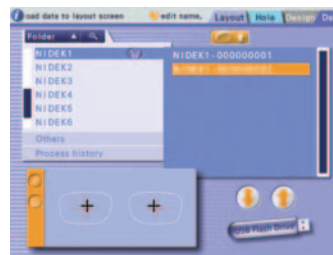
### Integrated accessory storage compartment

Accessories can be stored and easily accessed at any time.



### Advanced shape editor

Customized shapes are easily created with the advanced shape editor. A special "fixed area" function allows the operator to change a particular portion of the lens while leaving other peripheral areas unchanged.



### Data management

The ME-1500 has vast number of memory storage for basic job data, as well as custom design data files.



- LCD touch screen with high resolution graphics
- Jog dial for smooth data entry
- Information bar indicates next operation
- Processing time indicator
- Audio announcement for processing time and completion
- Automatic processing chamber door
- Mini and nano cup (optional) for minimal B lens processing

# System configurations

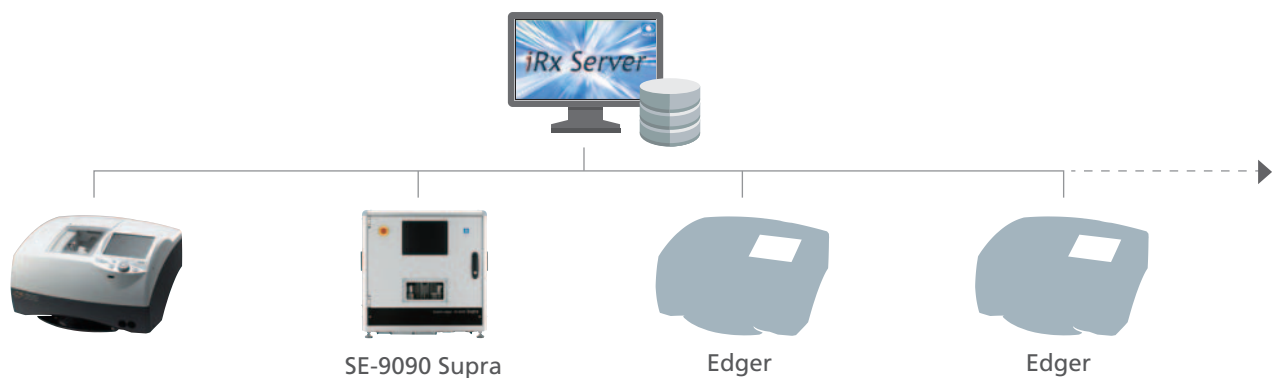
## ► Combination with ICE-1500



## ► Combination with LT-980 and ICE-1



## ► High-volume processing system\*



\*The ME-1500 is compatible with the VCA protocols.

Wheel configuration	PLB-8S	PLB-2R8S
Plastic bevel	●	●
Plastic bevel polish	●	●
Plastic flat	●	●
Plastic flat polish	●	●
Glass bevel		●
Glass flat		●
Plastic high base curve bevel*	●	●
Step bevel / Partial step	●	●

\* Safety beveling is not possible for high base curve bevel.

●: Available

Minimum grinding size	Pliable cup (standard) W x H mm	Mini cup (optional) W x H mm	Nano cup (optional) W x H mm
Flat edging	ø32.0 x 19.5	ø22.0 x 17.4	ø20.0 x 15.5
Bevel edging	ø33.0 x 21.0	ø23.0 x 18.4	ø21.0 x 16.5
High base curve beveling	ø39.0 x 26.0	ø29.0 x 24.4	ø27.0 x 22.5
Safety beveling (flat)	ø34.5 x 21.5	ø24.5 x 19.9	ø23.0 x 18.5
Safety beveling (bevel)	ø35.5 x 22.5	ø25.5 x 20.9	ø24.0 x 19.5
Grooving	ø32.0 x 19.5	ø22.0 x 17.4	ø20.0 x 15.5

## ME-1500 Specifications

Grinding system	Patternless
Mode	Beveling (automatic, guided, frame curve) Partial beveling (automatic, guided, frame curve) Flat edging Polishing Chamfering (with, without polish) Special safety beveling Facet Grooving (automatic, guided) Partial grooving Drilling Design cut High base curve beveling Step beveling Partial step processing Mini beveling (0.4 to 0.7 mm) (0.1 mm increments) Custom beveling Frame changing Soft processing
Setting range	
FPD	30.00 to 99.50 mm (0.01 mm increments)
PD	30.00 to 99.50 mm (0.01 mm increments)
1/2PD	15.00 to 49.75 mm (0.01 mm increments)
Optical center height	0 to 15.0 mm (0.1 mm increments)
Size adjustment	0 to ±9.95 mm (0.01 mm increments)
Minimum grinding size	
Flat edging	ø32.0 x 19.5 mm / with nano cup (optional) ø20.0 x 15.5 mm
Bevel edging	ø33.0 x 21.0 mm / with nano cup (optional) ø21.0 x 16.5 mm
Safety beveling (flat)	ø34.5 x 21.5 mm / with nano cup (optional) ø23.0 x 18.5 mm
Safety beveling (bevel)	ø35.5 x 22.5 mm / with nano cup (optional) ø24.0 x 19.5 mm
High base curve beveling	ø39.0 x 26.0 mm / with nano cup (optional) ø27.0 x 22.5 mm
Grooving	ø32.0 x 19.5 mm / with nano cup (optional) ø20.0 x 15.5 mm
Drilling	
Hole diameter	ø0.80 to 10.00 mm (0.01 mm increments)
Hole depth	6.0 mm or less
Range for hole milling	ø33.0 to 70.0 mm from lens rotation axis
Direction for hole milling	Automatic/manual tilting 0 to 30°
Slotted hole width	ø0.80 to 10.00 mm (0.01 mm increments)
Slotted hole depth	6.0 mm or less
Slotted hole length	20.8 mm or less
Wheel configuration	Type PLB-8S, PLB-2R8S
Water supply system	Pump circulation or direct connection to tap water
Interface	RS-232C - 3 ports 1 port for connection with a PC or blocker 1 port for connection with a barcode scanner 1 port for connection with a frame tracer USB - 1 port LAN - 1 port
Power supply	100 to 120 V AC / 200 to 240 V AC, 50/60 Hz
Power consumption	1.5 kVA
Dimensions/mass	600 (W) x 496 (D) x 355 (H) mm / 52 kg 23.6 (W) x 19.5 (D) x 14.0 (H)" / 115 lbs.
Standard accessories	Pliable cup, Pliable cup for high base curve lenses, Double-coated adhesive pad, Stylus pen, Pliable cup remover, Compound kit for polishing wheel, Adapter set, Flat lens, Dressing stick for finishing wheel, Dressing stick for glass roughing wheel (type PLB-2R8S), Hexagonal screwdriver, Hexagonal wrench, RMU/LMU calibration jig, Wrench, Tray, Drill bit, Power cord, Ferrite core
Optional accessories	Barcode scanner, Internal barcode scanner, Circular pump tank, Mini cup set, Nano cup kit, USB flash drive, Drill bit (ø1.0, 1.2, 1.6)

Specifications and design are subject to change without notice.



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