

*Speedy & Beautiful*

# LE-9000SX/LX

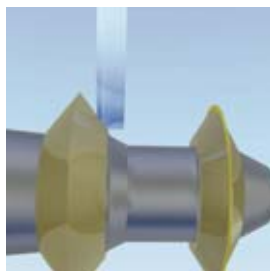
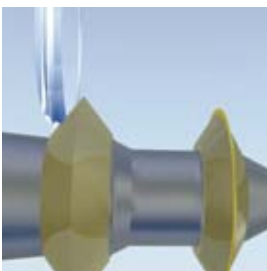
PATTERNLESS EDGER



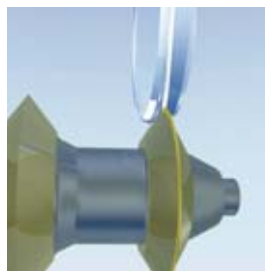


## Patternless Edger LE-9000SX/LX Speedy & Beautiful

-Chamfering Operation-



-Grooving Operation-



### Automatic Chamfering & Grooving

Nidek's newest SX series of patternless edgers provide automatic chamfering and grooving, with a new multi-disk arm that grooves and chamfers in one operation. The optimal chamfering amount can be set by selection of chamfering parameters.

Grooving is automatically accomplished in the proper position.

Position, depth and width of the groove can be manually selected on the simulation display.

### Wider Grinding Wheel

The 20% wider, more durable grinding wheel has an improved carriage that facilitates grinding of even thicker lenses at greater speed.

### Frame Replacement Function

Tracing of the new frame outline is displayed on top of the traced old lens. When PD and layout values are entered, displayed data (form) changes, and the optimal PD and layout value for edging can be automatically determined.

### Flexible and Versatile

The Nidek LE-9000SX/LX series edgers can process any type of lens materials, including glass\*, plastic, polycarbonate and acrylic lenses. Newly designed "High Index Plastic Mode" can be applied to high index plastic lenses for smoother processing, in accordance with lens hardness and viscosity.

\*Except model PLB, which is recommended only for use on plastic



# LE-9000SX/LX Accurate & Smooth

## Built-in Tracer

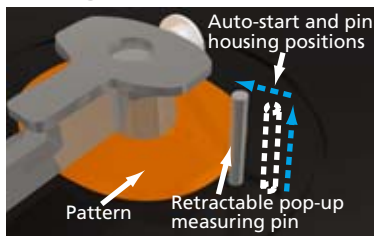
The Nidek LE-9000SX/LX series edgers incorporate a tracer into the main console and achieve the smallest footprint in the world. A shielded connection cable ensures safe and reliable data communication. With its operator-friendly design, frame setting position can be easily observed.

## High Speed, High Precision 3D Tracing

The LE-9000SX/LX series edgers provide precise tracing in all three dimensions. Unlike die plates, the edger finishes even highly curved frames with greater accuracy. Also, the new design features high speed tracing, approximately 30% faster than our conventional edger.

## Fully Automatic Measurement of Patterns and Dummy Lenses

The edger automatically measures frame, pattern and dummy lenses, and at completion of the operation the measuring pin returns to its housing.



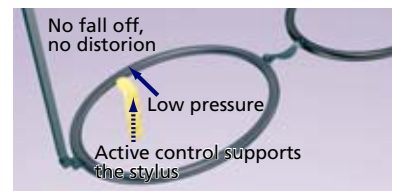
## Dual Tracing System

As both sides of lenses are traced with high accuracy, a perfect fit is possible even when there are subtle differences between right and left lenses. The frame PD is automatically measured, eliminating the need for manual measurement and input.

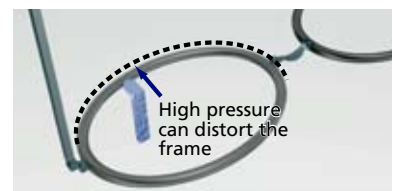
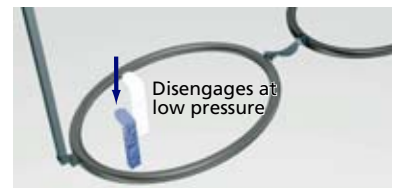
## New Low-Pressure, Active Control Stylus

Accurate tracing is accomplished at low pressure, eliminating frame distortion and disengagement.

LE-9000 Series (Active control)



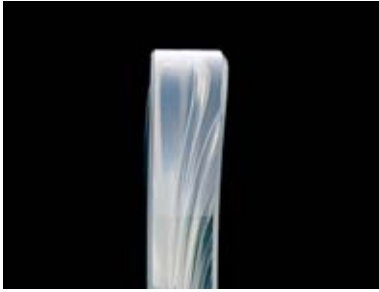
Conventional Stylus



## Mirror Polish

LE-9000's "Mirror Polishing" produces mirror-like lenses.

### Mirror Polish Finish



### Bevel Mirror Polish



## Accuracy measured in microns

Two-point and half-rim lenses can be polished very precisely with greatly reduced buffing time. LE-9000SX PLB provides easy and accurate bevel mirror polishing.

\*To ensure high performance of bevel mirror polishing, the PLB model is recommended for use only on plastic.

## Speed Up!

The LE-9000 features high speed processing at every step of operation--frame tracing, lens measurement, calculation and edging. Operation time is reduced to 1/3 compared to that of our first edger model.

## High Quality

Newly developed 3D tracing & lens measurement feature provides accurate frame and lens measurements, ultimately offering a perfect finish. Thirty-two thousand data points per processing round ensures a precise fit.

## Frame Memory

One hundred tracing patterns can be stored in memory, and with optional barcode scanner up to 500 patterns can be stored. This improves efficiency, saves time and storage space.

# LE-9000SX/LX

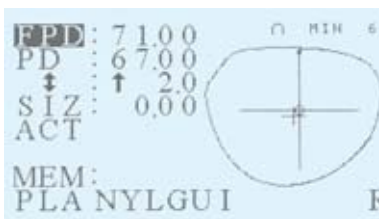
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# Simplicity

## Multi Layout

### Standard Layout

Clear display of frame and optical center at actual size.



### Bifocal Lens Layout

Unique layout system for double focal point lenses.

### PD Layout

Layout for distance from optical center to the lens base and prescribed PD input. Convenient for processing progressive lenses.

## Bottom Layout

Ideal for progressive lens processing. Your choice of two modes (PD inputs and BT inputs) can be used.

## Eye Point Layout

Layout for inputting distances from eye point to lens base and horizontal distance to the edge of nose side. Convenient for processing of two-point lenses.

## Multi Display

### Frame Replacement Display

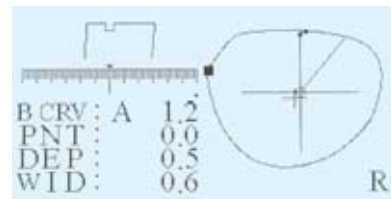
Convenient for frame replacement processing.

### Bevel Simulation Display

Provides easy confirmation and change of bevel position before processing.

## Grooving Simulation Display

Provides easy confirmation and change of grooving position, depth and width before processing.



## Safe and Smart

For operator safety, the system will not start if the edger cover is open.



Also, LE-9000 SX/LX Express offers safety features to prevent processing mistakes.

## Global Support

The LE-9000 supports eight languages: English, German, French, Italy, Greek, Spanish, Dutch, and Japanese.

## Other Equipment for Integration



Hand Edger  
HE-200



Intelligent Blocker  
ICE-9000



Blocker  
CE-1



Satellite Tracer  
LT-900

# LE-9000SX/LX Integration

## Greater Efficiency

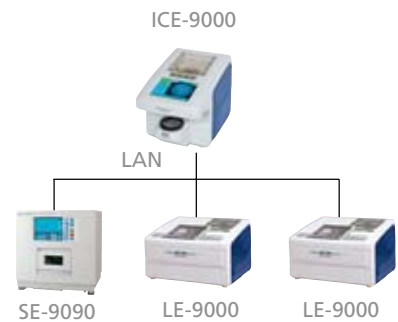
The LE-9000's traced data can be transferred via cable connection to the Nidek's Intelligent Blocker ICE-9000. This eliminates the need to mark a lens with lensmeter, and provides automatic adjustment of center and axis position, as well as precise processing with highly accurate PD layout.

With ICE-9000, LT-900, SE-9090 and PC, various lens processing systems can be easily linked to improve lab efficiency and large-scale processing.

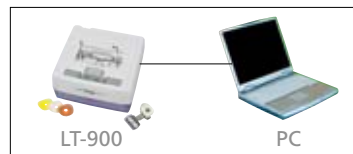
### A. Minimum Configuration



### B. Medium Configuration



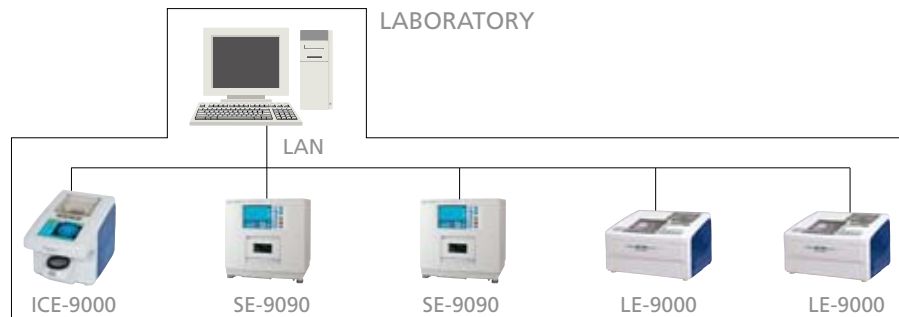
### C. Lab Configuration



Optical Shop

Maximum of 30 units

Telephone Line



## Color Variations

In addition to the standard Pearl White, the SX series is also available in Emerald Green, Aqua Blue and Ruby Red. (optional, limited quantity)

### Pearl White (Standard)



### Emerald Green



## Model PLB-2R

This multi-function edger provides glass lens processing in addition to all plastic lens grinding. This versatile edger is a good choice for customers with a wide range of needs.

PC, PLA roughing wheel	GLS roughing wheel	Finishing wheel	Polishing wheel
17mm	17mm	17.5mm	17.5mm



	Bevel	Flat	Polish		Chamfering	Grooving
			Flat	Bevel		
Plastic, Acrylic, Polycarbonate	○	○	○	○	*○	*○
Glass	○	○	×	×	*○	×

\*SX series only.

# LE-9000SX/LX

## Excellent Line Up

### Aqua Blue



### Ruby Red



## Model PL4

The most popular edger; grinds glass and plastic lenses.

PC, PLA roughing wheel	GLS roughing wheel	Finishing wheel	Polishing wheel
17mm	17mm	22.5mm	12.5mm



	Bevel	Flat	Polish		Chamfering	Grooving
			Flat	Bevel		
Plastic, Acrylic, Polycarbonate	○	○	○	×	*○	*○
Glass	○	○	×	×	*○	×

\*SX series only.

## Model PC

Standard edger without mirror polishing function; provides chamfering and grooving of glass, plastic, acrylic and polycarbonate lenses.

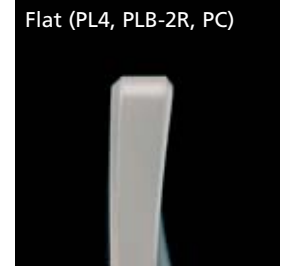
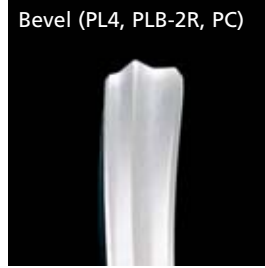


	Bevel	Flat	Polish		Chamfering	Grooving
			Flat	Bevel		
Plastic, Acrylic, Polycarbonate	○	○	×	×	*○	*○
Glass	○	○	×	×	*○	×

\*SX series only.

## Processed Examples

### ● Glass



### ● Plastic, Acrylic, Polycarbonate



# LE-9000SX/LX

## Diverse Selection

## Model PLB

PLB is a special edger for plastic lenses; It provides all plastic lens grinding, including mirror polish for flat and bevel grinding.



	Bevel	Flat	Polish		Chamfering	Grooving
			Flat	Bevel		
Plastic, Acrylic, Polycarbonate	○	○	○	○	*○	*○
Glass	×	×	×	×	×	×

\*SX series only.



- In all the examples, lenses requiring chamfering of front and rear edges must be processed with SX series edgers. The LX series cannot provide chamfering.
- Only SX series can provide grooving.

## LE-9000SX/LX Specifications

Grinding System	Patternless
Grinding Mode	
Bevering	
Auto	Computer-calculated Bevel
Guided	Manual Bevel Setting
Flat (Rimless) Edging	
Grooving	
Auto	Computer-calculated Groove Position and Curve
Guided	Manual-inputted Groove and Curve
Polishing	Type : PL4, PLB, PLB-2R
Chamfering	
Frame Changing	
Grinding lens	
Material	Glass, Plastic, High Index Plastic, Polycarbonate, Acrylic Resin (Except for Glass in Type PLB)
Lens Size	Dia. 90mm or Less
Layout Range	Dia. 110mm or Less
Grinding Size	
In Flat Edging	Dia. 26mm or More
In Beveling	Dia. 28mm or More
Tracing Method	3-D Binocular Automatic Tracing ( $\phi$ 18~ $\phi$ 92mm)
Water Supply System	Pump Circulation or Direct Connection to Tap Water
Power Supply	AC 115V / 230V 50 / 60Hz
Power Consumption	1.2kVA (max. at grinding)
Dimensions / Weight	520 (W)x 484(D)x 330(H)mm / 42kg 20.5(W)x19.1(D)x13.0(H)" / 92.6lbs.
Standard Accessories	Double-coated Adhesive Pad, Dressing Stick for Roughing Wheel (Model PL4, PLB-2R, PC Only), Dressing Stick for Fine Grinding Wheel (Model PL4, PLB, PLB-2R Only), Half-eye Adapter, Half-eye Lens Clamp, Standard Frame, Standard Pattern, Spare Fuse (x2), Power Cord, Conversion Adapter Set for Drain Pipe Diameter, Pattern Setting Unit, Hex Driver (2.5mm), Hex Wrench (3mm, 4mm)



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\*Specifications and design are subject to change without notice for improvement.



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