



Patternless Edger

# *Le 1000 Express / Lite*

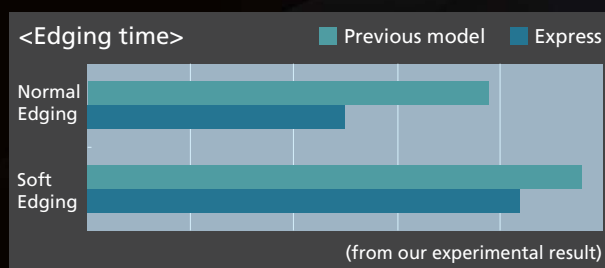


THE ART OF EYE CARE

# An improvement of the speed

## **Improved edging speed**

The Le 1000 Express has achieved faster grinding. The speed is approximately 35% faster than the previous Le 1000. In addition to the increased edging speed, a fabulous finish is achieved.



## **Heavy-duty, durable mechanism**

The Le 1000 Express has achieved a steady operation for lens processing by a direct drive with an exclusive motor and rotary gear system. A newly designed Y-axis direct drive assembly controls a size with a specialized servo motor, achieving consistent high precision.



## **Grooving & safety beveling**

A newly designed "multi-disk arm" makes grooving and safety beveling fully automatic. Specially designed wheels attain high accuracy for grooving and safety beveling. The Le 1000 Express provides beautiful finish even for high curve lenses.



~ Building the new stage of patternless edging ~

# Le 1000 Express

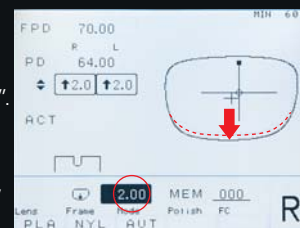
## **High precision 3D frame tracer**

The Le 1000 incorporates a tracer into the main body of the Le 1000 Express / Lite, which is the smallest frame tracer in the world. With its user-friendly design, frame setting position can be easily observed during the tracing process.



## **Easy shape editor**

Customized shapes are easily created with "easy shape editor". Changing the height of drill mount frames for improved progressive lens layout is easily achieved.



**Integrated air duct for deodorization**

**Chuck pressure stabilizer**

**New soft grinding mode**

**Color-coded lens identification**

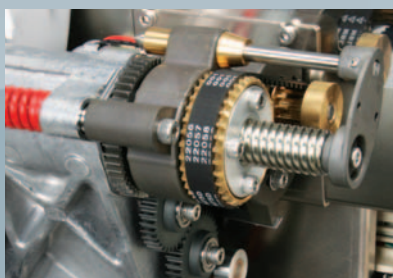
**Flat mirror polish & Bevel mirror polish**

# Le 1000 *Lite*



## Grooving & safety beveling

A newly designed "multi-disk arm" makes grooving and safety beveling fully automatic. Specially designed wheels attain high accuracy for grooving and safety beveling. The Le 1000 Lite provides beautiful finish even for high curve lenses.



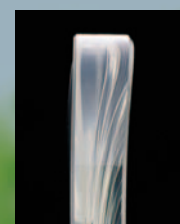
## Chuck pressure stabilizer

Chuck pressure is kept steady with an integrated stabilizer throughout edging process to prevent unwanted lens distortion and coating damage.

## New soft grinding mode

The Le 1000 Lite has achieved faster grinding with new soft mode. The speed of processing can be adjusted depending on the coating quality of lenses. Quieter operation has been attained by the new soft mode, too.

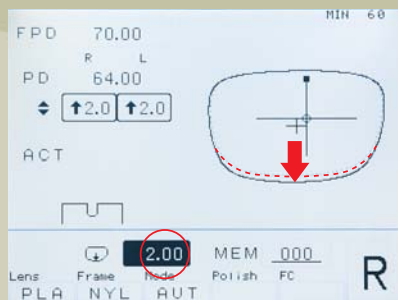
## Mirror polish



For two-point frame or nylon frame, flat and bevel mirror polish processing is enabled accurately by a new processing control function.

Flat mirror polish





### Easy shape editor

Customized shapes are easily created with Easy shape editor. Changing the height of drill mount frames for improved progressive lens layout is easily achieved.



Right side cup  
Left side cup

### Color-coded lens identification

The R/L indicator lamp helps operators correctly identify right and left lenses in combination with the use of green and red cups.



### High precision 3D frame tracer

The Le 1000 incorporates a tracer into the main body of the Le 1000 Express / Lite, which is the smallest frame tracer in the world. With its user-friendly design, frame setting position can be easily observed during the tracing process.

# Carrying more credibility

New entry model of **NIDEK** patternless edging



# The world standard



Le 1000 Express  
Patternless edger

From 1 Fro

## Mini cup (optional)

Minimum 17.4 mm "B" dimension can be processed with our Mini Cup.



	Mini cup	Le 1000 Express standard	Le 1000 Lite standard
Flat edging	ø22.0 x 17.4	ø32.0 x 19.0	ø22.0 x 19.0
Bevel edging	ø23.0 x 18.4	ø33.0 x 20.0	ø23.0 x 20.0

Minimum size (width x height) in mm (without safety bevel)

## Wheel Options

Various grinding wheel sets are available.

### Le 1000 Express

	PC	PL-4	PLB	PLB-2R / PLB-G*
Plastic Bevel	●	●	●	●
Plastic Bevel Polish			●	●
Plastic Flat	●	●	●	●
Plastic Flat Polish		●	●	●
Glass Bevel	●	●		●
Glass Flat	●	●		●

### Le 1000 Lite

	PLBL	PLB-2RL
Plastic Bevel	●	●
Plastic Bevel Polish	●	●
Plastic Flat	●	●
Plastic Flat Polish	●	●
Glass Bevel		●
Glass Flat		●

● : Available

Plastic is including CR-39, High index, Polycarbonate, Acrylic, Trivex and Polyurethane.

\*Use of finishing wheel for glass lens.

## Processing types

	Grooving	Safety beveling	Tracer
Le 1000 Express / Lite type S	●	●	●
Le 1000 Express / Lite type L			●
Le 1000 Express type SNT	●	●	
Le 1000 Express type LNT			

● : Available

\*Grooving are unavailable for glass lenses.

\*As shown on the table above, available lens materials and processing types are different depending on the wheel configuration.

## System configurations

Several Le 1000 series configurations are available to meet your specific needs.



Le 1000 Express type NT series + Ice 1000



Le 1000 Express / Lite + Ice 900



Le 1000 Express / Lite + ICE mini+



Le 1000 Express / Lite + CE-9

## Le 1000 Series Specifications

Model	Le 1000 Express	Le 1000 Lite
Grinding system	Patternless	←
Mode	Beveling (automatic, guided, frame curve) Flat edging Polishing (except for type PC) Safety beveling (only for type S and SNT model without polish) Grooving (only for type S and SNT model) Frame changing	←
Setting range		←
FPD	30.00 to 99.50 mm (0.50 mm increments)	
PD	30.00 to 99.50 mm (0.50 mm increments)	
1/2PD	15.00 to 49.75 mm (0.25 mm increments)	
Optical center height	0 to ±15.00 mm (0.1 mm increments)	
Size	0 to ±9.95 mm (0.05 mm increments)	
Bevel position	0 to ±15.0 mm (0.1 mm increments)	
Minimum grinding size		
Flat edging	ø32.0 x 19.5 mm / with mini cup (optional) ø22.0 x 17.4 mm	ø22.0 x 19.0 mm / with mini cup (optional) ø22.0 x 17.4 mm
Bevel edging	ø33.0 x 21.0 mm / with mini cup (optional) ø23.0 x 18.4 mm	ø23.0 x 20.0 mm / with mini cup (optional) ø23.0 x 18.4 mm
Flat chamfering	ø34.5 x 21.5 mm / with mini cup (optional) ø24.5 x 19.9 mm	ø27.0 x 24.0 mm / with mini cup (optional) ø24.5 x 19.9 mm
Bevel chamfering	ø35.5 x 22.5 mm / with mini cup (optional) ø25.0 x 20.9 mm	ø29.0 x 26.0 mm / with mini cup (optional) ø25.5 x 20.9 mm
Tracing unit (not available for NT type)		
Method	Automatic 3D binocular tracing	
FPD measurement	Available	
Frame clamping	One-touch automatic clamping	←
Setting of stylus	Switchable between automatic and semiautomatic	
Measurement point	1000 points	
Measurement accuracy	Frame tracing ±0.05 mm (circumference error with ø45 standard frame)	
Water supply system	Pump circulation or direct connection to tap water	←
Interface	RS-232C - 2 ports 1 port for connection with a PC or blocker 1 port for connection with a barcode scanner	RS-232C - 1 port a port for connection with a PC or blocker
Power supply	AC 100 to 120 V / 230 V, 50 / 60 Hz	←
Power consumption	1.3 kVA	←
Dimensions / Mass	528 (W) x 493 (D) x 345 (H) mm / 41 kg 20.8 (W) x 19.4 (D) x 14.0 (H) " / 90.3 lbs.	528 (W) x 493 (D) x 345 (H) mm / 42 kg 20.8 (W) x 19.4 (D) x 14.0 (H) " / 92.5 lbs.
Standard accessories	Pliable cup (red, green), Pliable cup for high base curve (red, green), Double-sided adhesive pad, Cup remover, Dressing stick for Roughing wheel for glass lenses (WA80K)(except for type PLB), Dressing stick for finishing wheel (WA320K), Compound kit for polishing wheel (except for type PC), *Pattern setting unit, *Standard frame, *Standard pattern, Hexagonal screwdriver (2.5 mm), Drain hose adapter set, Power cord, Spare fuse, Accessory case *only for S and L model	Specified cup (red, green), Double-sided adhesive pad, Cup remover, Dressing stick for roughing wheel for glass lenses (WA80K) (only for type PLB-2RL), Dressing stick for finishing wheel (WA320K), Pattern setting unit, Standard frame, Standard pattern, Hexagonal wrench (4 mm / 2.5 mm), Drain hose adapter set, Power cord, Spare fuse
Optional accessories	Specified table, Barcode scanner, Circulation pump and tank, Mini cup set	Specified table, Circulation pump and tank, Compound kit set for polishing wheel, Mini cup set, Pliable cup set

Specifications and design are subject to change without notice.



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