



Patternless Edger  
**LEX-1200**



THE ART OF EYE CARE

# Patternless Edger LEX-1200

## Perfection at every curve

Today's lenses and frames have a wide range of shapes and curves. The LEX-1200 is equipped with a multiple-frame tracer that accurately reads any shape at every curve. Versatile edging options are offered via unique specialty-shaped wheels and software.

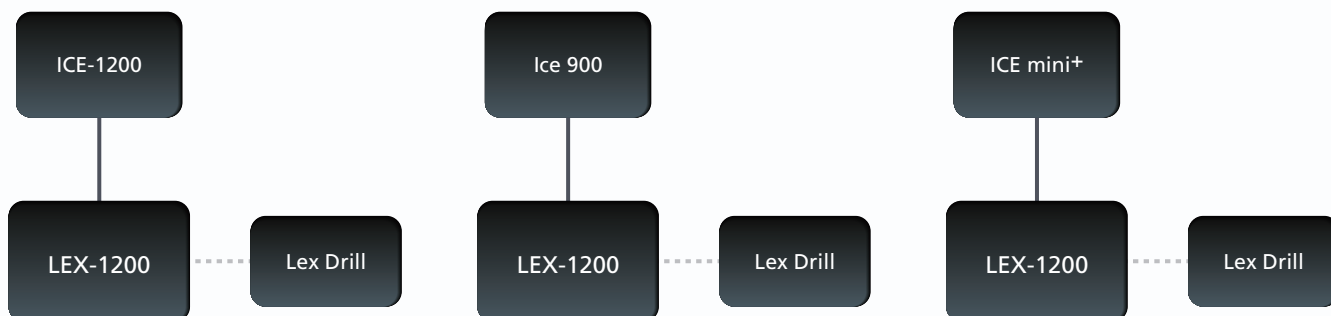




Keeping up with  
the latest trends



### System configurations with blockers





# Patternless Edger LEX-1200

## Smart grinding pressure control

The LEX-1200 lens edging process is performed with optimal grinding pressure that minimizes lens torque, yet expedites cycle time.

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## High-quality lens finish

The intelligent software lens-processing sequence ensures a high-quality finish every time.

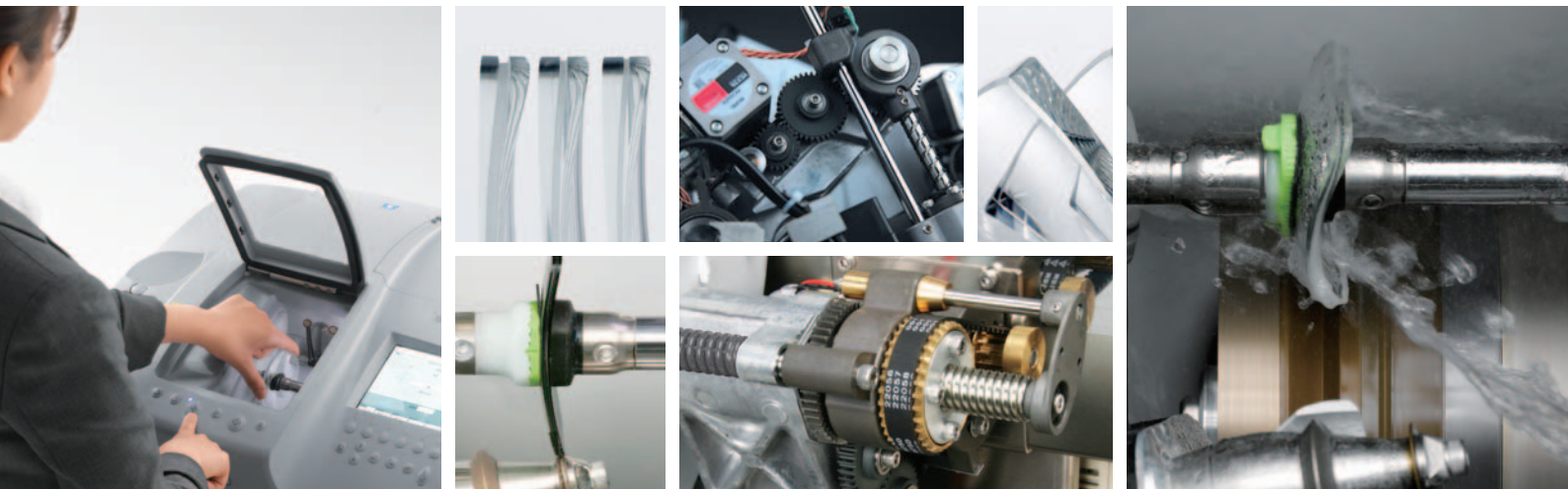
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## Selectable processing speed mode

Two modes of processing speed make cycle time selectable.

## Soft grinding mode

A gentler processing mode keeps hydrophobic coated lenses perfectly on axis.



## Grooving & safety bevel function

Fully-automatic grooving and safety beveling are available.

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## Stabilized chuck pressure

Lens chucking assembly secures lens with appropriate, continuous, and stable amount of pressure for grinding.

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## Four types of wheel configurations

Four wheel configurations\* are available to meet varied processing applications.

\*The availability may vary by market.

## Multiple modes for all lens materials

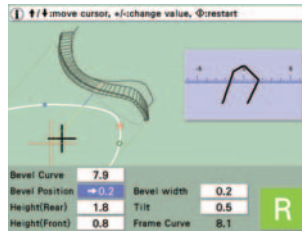
Special processing modes for various lens materials, including Trivex lenses, are available.

## Multiple lens edging profiles

Unique and specialized lens edge profiles favorable with all types of current frames, such as high-wrap and shallow groove rims, deliver a high-quality “first-cut” fit.

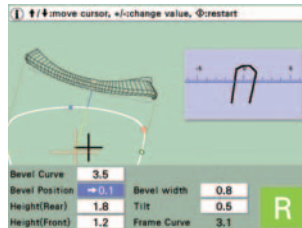
### High base curve lens processing

Special wheel design provides a wide variety of lens edging to fit various frame shapes and styles.



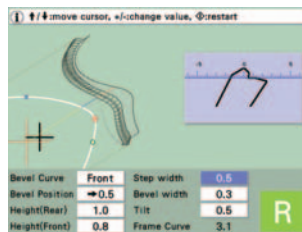
### Multi bevel function

There are a multitude of highly-customizable bevel shapes available to meet today’s challenging frame eyewires.



### Mini step beveling function

Highly specialized step bevel function is able to grind an asymmetrical shelf-style rear bevel with excellent lens-to-frame fit for those “non-Rx-able” eyewear.



### Nano cup and Mini cup (optional)

With the optional Nano cup, minimum 15.5 mm B dimension can be processed.



Nano cup kit

Minimum size in mm (not including safety bevel)

	Nano cup	Mini cup	Standard pliable cup
Flat edging	ø20.0 x 15.5	ø22.0 x 17.4	ø32.0 x 19.5
Bevel edging	ø21.0 x 16.5	ø23.0 x 18.4	ø33.0 x 21.0
Bevel edging (PL-8)	ø21.0 x 17.5	ø23.0 x 18.4	ø33.0 x 21.0
Hi-curve bevel	ø27.0 x 22.5	ø29.0 x 24.4	ø39.0 x 26.0



### Built-in high-wrap frame tracer

Multiple-frame tracer provides accurate measurement of a wide array of frames including high-wrap style.

### Simple "one-touch" demo lens tracing

Easy-load, magnetic pattern setting assembly provides single-step tracing operation.

### 3-D simulation

### Shape editor function

### Automatic grinding-chamber door

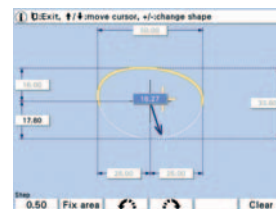
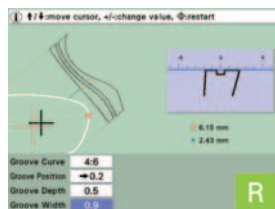
### Integrated job tray

### USB flash drive port

### Low water consumption

### Eco-friendly water volume control

### Built-in barcode scanner (optional)



### Wheel options

Various grinding wheel sets are available.

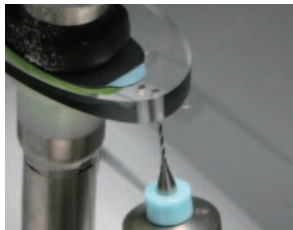
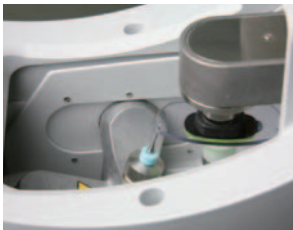
	PLB-G	PL-8	PLB-8	PLB-2R8
Plastic Bevel	●	●	●	●
Plastic Bevel Polish	●		●	●
Plastic Flat	●	●	●	●
Plastic Flat Polish	●	●	●	●
Glass Bevel	●	●		●
Glass Flat		●		●
Hi-curve Bevel		●	●	●

●: Available

\*Plastic including CR-39, high index, polycarbonate, acrylic, Trivex, and polyurethane



# Lex Drill



## **Automatic drilling unit (optional)**

Add-on "side car" Lex Drill provides automatic drilling of various hole types. Its slim, compact shape makes it an easy fit for any lab size.

# LEX-1200 Specifications

Model	LEX-1200	LEX-1200NT
Grinding system	Patternless	←
Mode	Beveling (automatic, guided, safety beveling, polishing, high base curve)*1 Flat edging (polishing, safety beveling, grooving) Mini step (0.0 to 2.0 mm) (0.1 mm increments) Custom beveling 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 ±15.0 mm (0.1 mm increments) Size adjustment 0 to ±9.95 mm (0.05 mm increments) Bevel position 0 to ±10.0 mm (0.1 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*2 Hi-curve bevel edging ø39.0 x 26.0 mm / with nano cup (optional) ø27.0 x 22.5 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 Grooving ø32.0 x 19.5 mm / with nano cup (optional) ø20.0 x 15.5 mm	←
Tracing unit (built-in)	Method Automatic 3-D binocular tracing FPD measurement Available Frame clamping One-touch automatic clamping Setting of stylus Switchable between automatic and semiautomatic Measuring points 1,000 points Measurement accuracy Frame tracing ±0.05 mm (circumference error with ø45 standard frame)	None
Wheel configuration	Type PLB-G, PL-8, PLB-8, PLB-2R8	←
Water supply system	Pump circulation or direct connection to tap water	←
Interface	RS-232C - 3 ports 2 ports for connection with a PC or blocker 1 port for connection with the Lex Drill LAN - 1 port	←
Power supply	AC 100 to 120 V or 230 V, 50/60 Hz	←
Power consumption	1.5 kVA	←
Dimensions/Mass	528 (W) x 493 (D) x 356 (H) mm / 45 kg 20.8 (W) x 19.4 (D) x 14.0 (H)" / 99 lbs.	528 (W) x 493 (D) x 356 (H) mm / 41 kg 20.8 (W) x 19.4 (D) x 14.0 (H)" / 90 lbs.
Standard accessories	Pliable cup, Pliable cup for high base curve lenses*3, Double-coated adhesive pad, Pliable cup remover, Dressing stick for glass roughing wheel (type PLB-G, PL-8, PLB-2R8), Dressing stick for finishing wheel, Compound kit for polishing wheel, Pattern setting unit, Standard frame, Standard pattern, Stylus cover, Frame support attachment, Hexagonal screwdriver (2.5 mm), Hexagonal wrench (2.5 mm, 4 mm), Adapter set, Spare fuse, Accessory case, Power cord	Pliable cup, Pliable cup for high base curve lenses*3, Double-coated adhesive pad, Dressing stick for glass roughing wheel (type PLB-G, PL-8, PLB-2R8), Dressing stick for finishing wheel, Compound kit for polishing wheel, Pliable cup remover, Hexagonal screwdriver (2.5 mm), Hexagonal wrench (4 mm), Adapter set, Spare fuse, Accessory case, Power cord
Optional accessories	Lex Drill, Barcode scanner, Circulation pump and tank, Nano cup kit, Mini cup set, Calibration jig	Lex Drill, Barcode scanner, Circulation pump and tank, Nano cup kit, Mini cup set, Calibration jig

Model	Lex Drill*4
Drilling	Hole diameter ø0.80 to 4.00 mm (0.01 increments) Hole depth 6 mm or less Range for hole milling ø32 to 75 mm from lens rotation axis Direction for hole milling Automatic/Manual tilting 0 to 30° Slotted hole width ø0.80 to 4.00 mm (0.01 increments) Slotted hole depth range 6 mm or less Slotted hole length range 20 mm or less
Power supply	AC 100 to 120 or 230 V, 50/60 Hz
Power consumption	90 VA
Dimensions/Mass	145 (W) x 477 (D) x 335 (H) mm / 15 kg 5.7 (W) x 18.8 (D) x 13.2 (H)" / 33 lbs.
Standard accessories	Drill bit (ø0.8), RS-232C cable, Brush, Wrench, Power cord, Spare fuse
Optional accessories	Drill bit (ø1.0), Pin gauge (ø2.0)

\*1 Available for the type PLB-G, PLB-8, PLB-2R8  
\*2 ø21.0 x 17.5 mm for the type PL-8  
\*3 Available for the type PL-8, PLB-8, PLB-2RB  
\*4 The Lex Drill is an optional auto drilling unit connectable with the LEX-1200.

Specifications and design are subject to change without notice.  
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