



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 newly designed software.

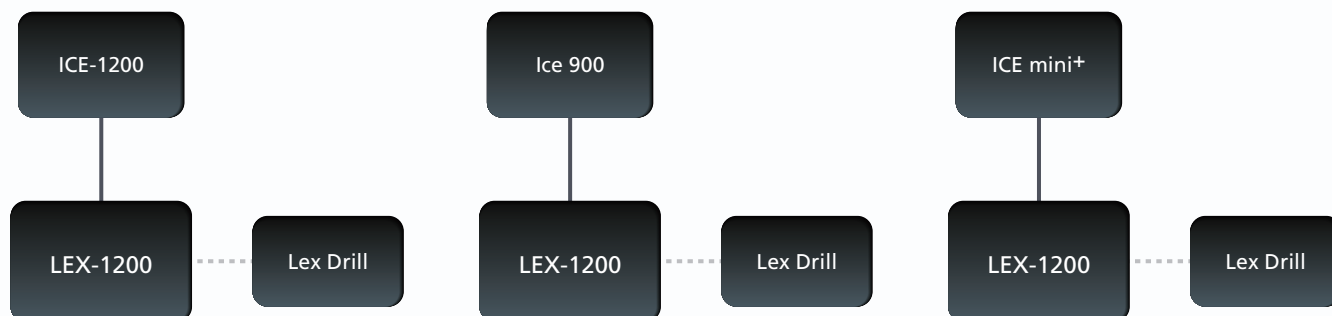




Keeping up with
newest trends



System configurations with blockers



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Smart grinding pressure control

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

High-quality lens finish

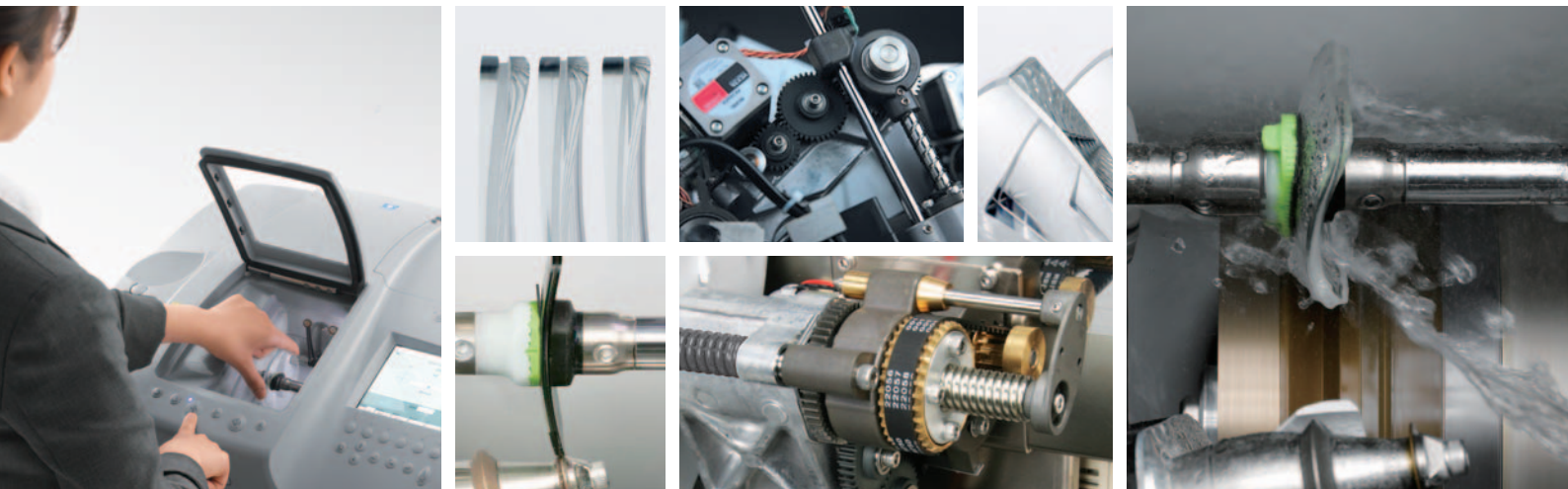
The intelligent software lens-processing sequence produces a high-quality finish time and time again.

Selectable processing speed mode

Cycle time can be selected from two types of processing speed modes.

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 depending on model type.

Stabilized chuck pressure

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

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

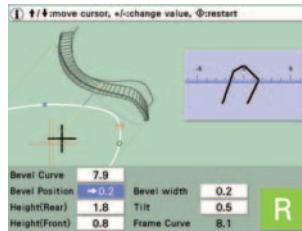
Special processing modes for various lens materials, including Trivex lenses, are available.

Multiple lens edging profiles

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

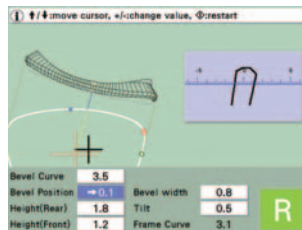
High base curve lens processing

Special wheel design, in conjunction with patented software, provides a wide variety of lens edging to fit various frame shapes and styles. (The software is patented in limited countries.)



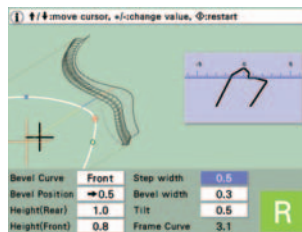
Multi bevel function

A multitude of highly-customizable bevel shapes are 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 kit, 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	ø25.5 x 20.9	ø33.0 x 21.0
Hi-curve bevel	ø27.0 x 22.5	ø29.0 x 24.4	ø39.0 x 26.0



New multiple-frame tracer

New 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

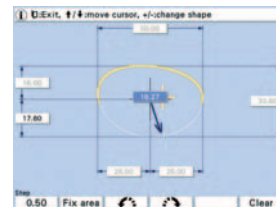
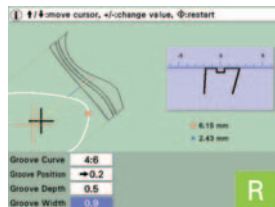
Integrated job tray

USB flash drive port

Low water consumption

Eco-friendly water volume control

Built-in barcode scanner (optional)



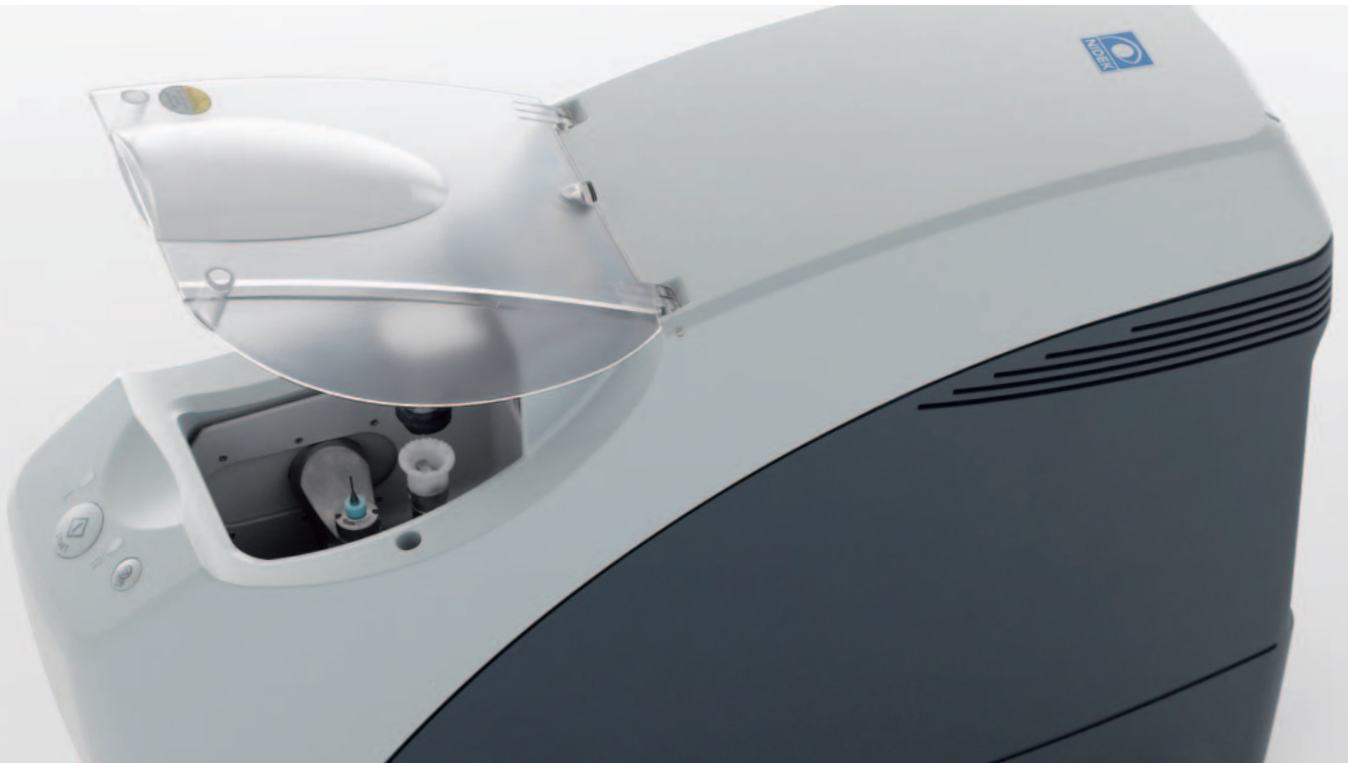
Wheel options

Various grinding wheel sets are available.

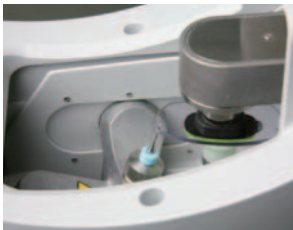
	PLB-G	PL-8	PLB-8	PLB-2R8
Plastic Bevel	●	●	●	●
Plastic Bevel Polish	●		●	●
Plastic Flat	●	●	●	●
Plastic Flat Polish	●	●	●	●
Glass Bevel	●	●		●
Glass Flat		●		●
Hi-curve Bevel		●	●	●

●: Available

*Plastic is 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	←
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	None
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)	
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, 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, 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, Specified table, Barcode scanner, Circulation pump and tank, Nano cup kit, Mini cup set, Calibration jig	Lex Drill, Specified table, Barcode scanner, Circulation pump and tank, Nano cup kit, Mini cup set, Calibration jig

Model	Lex Drill*3
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)" / 31 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 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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