NIDEK

Patternless Edger

LEXCE plus Trend8/Trend



THE ART OF EYE CARE



You dream it.
The LEXCE plus makes it.

Versatile edger that delivers a precise first-fit finish for everyone

The NIDEK LEXCE series is a compact, feature-rich lens edger designed for exceptional versatility. It integrates a high-performance drill, intelligent blocker, and precision frame tracer, all within a compact footprint.
Available in multiple configurations, the LEXCE series offers tailored solutions to meet your needs. Known for its reliable performance and refined processing quality, it has established itself as a benchmark in the mid-range lens edging category.
Evolving through the years, the LEXCE series continues to enhance usability and serviceability, delivering consistent first-fit accuracy that practices can trust.
With the LEXCE plus Trend8 and Trend models, the next step of LEXCE series further empowers eyecare professionals involved in eyewear craftsmanship.

- Versatility to meet a broad range of needs
- Proven high-quality finish
- Effortless operation and superior serviceability

D=Drill / B=Blocker / T=Tracer (Frame)



Type **DBT** or **BT**



Type **DT** or **T**



Type **DB** or **B**



Type **D** or **N**

Versatility to meet a broad range of needs

With a wide range of model configurations and peripheral equipment combinations, the LEXCE plus Trend8/Trend offers tailored solutions to suit your specific workflow. Whether you are processing just a few jobs or handling about 80 jobs in a standard 8-hour day, it delivers the scalability and performance to match your pace.*

*Processing speed may vary according to lens types, processing conditions, and the condition of your device.

Optical practices with limited space

› All-in-one system available equipped with every essential functions for eyewear production

› Ideal for practices with limited spaces



Type DBT or BT

Use with a simple manual blocker

› Pairs well with a simple blocker featuring a slide scale

› Ideal for facilities that block at the optical center only or already utilize a simple manual blocker



Type T

Type comparison	Type	High curve	Drilling	Blocker	Shape imager	Grooving	SFB	Optional: Frame
LEXCE Trend8 plus	DB	●	●	●		●		●
	D	●	●			●		●
	B	●		●		●		●
	N	●				●		●
LEXCE Trend plus	DB		●	●		●		●
	D		●			●		●
	B			●		●		●
	N					●		●

●: Available

Processing of high base curve or prism lenses

› An external blocker with a flexible mechanism is recommended for enhanced stability of blocking.

› Possible to use bigger screen to edit



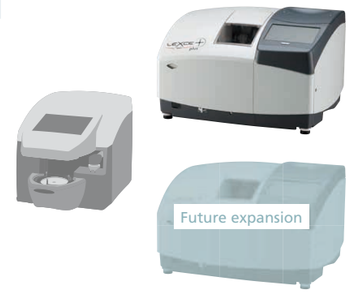
Type DT or T

Efficient parallel workflow and future expansion

› Enables parallel workflow for tracing, blocking, or editing while edging

› Boosts efficiency by allowing preparation of multiple jobs in advance

› Scalable design supports the addition of a second edger as job volume grows.



Type D or N

High-volume processing

› Multiple lens edger can be operated in parallel to efficiently handle high-volume processing.*

*The LEXCE plus Trend8/Trend are compatible with the VCA protocols.



Type D or N

These configurations are examples.

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 19.0	ø22.0 x 17.4	ø20.0 x 15.5
Bevel edging	ø33.0 x 20.6	ø23.0 x 18.4	ø21.0 x 16.5
Safety beveling (flat)	ø35.0 x 22.0	ø25.0 x 20.3	ø23.0 x 18.5
Safety beveling (bevel)	ø36.6 x 23.6	ø26.6 x 21.9	ø24.6 x 20.1
High base curve beveling*	ø37.8 x 24.8	ø27.8 x 23.2	ø25.8 x 21.3
Grooving	ø32.0 x 19.0	ø22.0 x 17.4	ø20.0 x 15.5

*Available for the LEXCE plus Trend8

Proven high-quality finish

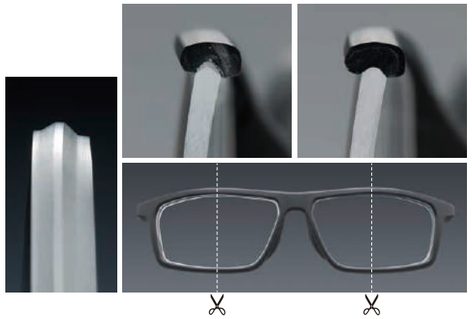
High base curve bevel

Bevel height and width can be freely adjusted to suit the frame material and rim profile. Front and rear bevels are ground independently, minimizing interference with the grinding wheel and ensuring a high-quality bevel profile finish.



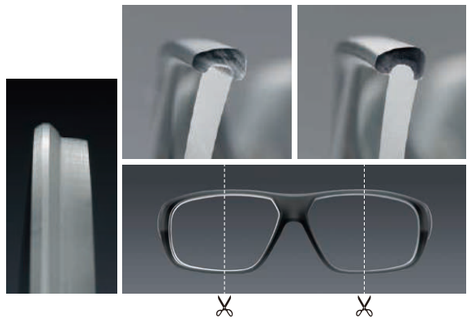
Custom bevel

Trapezoidal beveling enhances both aesthetics and fit, especially for specialty frames like sports frame designs. The heights of the front and rear bevels, along with the width of the bevel apex, can be precisely adjusted for optimal results.



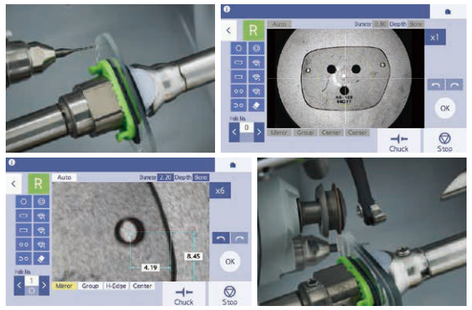
Mini step bevel

Asymmetrical shelf-style rear bevel can be applied to high base curve lenses such as sport sunglasses to prevent lens detachment on the eye side and achieve a secure fit within the frame.



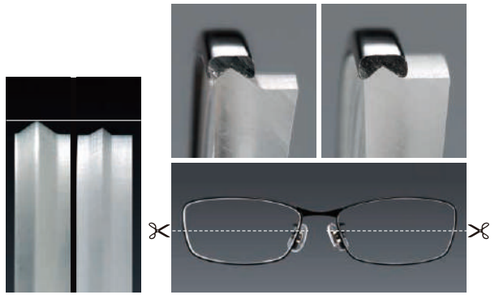
3D drilling optimally controlled by 5-axis

Supports a wide range of frame styles with multiple hole type options. Drilling angles can be set automatically or manually for optimal precision. The hole editing screen offers up to 6x magnification, allowing for easy and accurate data adjustments.
The integrated sub-spindle unit not only handles drilling but also performs high-quality safety beveling and grooving across various lens materials using dedicated wheels.



Mini bevel

Mini bevel allows the lenses to fit perfectly into a thin metal eyewire frame.



Polishing

Flat edge and bevel edge lenses can be polished to a high luster.



Proven high-quality finish

Axis stability

• Flexible lens clamp

This adaptive clamp stabilizes the lens by moving laterally along its rear curve. Especially effective when the cup is not centered or the lens has a steep base curve, it reduces the risk of PD and axis shift during edging.



• Soft processing mode

Both normal and soft modes continuously monitor grinding pressure during processing. Soft mode offers a gentler touch, further minimizing axis shift and PD deviation for superhydrophobic lenses.



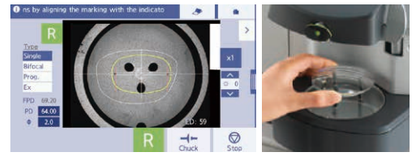
• NIDEK original double-coated adhesive pad

Engineered for superior adhesion, this double-coated pad brings secure cup adhesion to the lens. Proper use, by applying the correct side, maximizes performance and reliability.



Intelligent blocker

The blocker combines ease of use with high-performance capability. Its dual lens stage accommodates a wide range of lens sizes including small and demo lenses, allowing for precise setup. Enlarged screen functionality enhances visibility of lens markings, ensuring accurate and confident blocking every time.



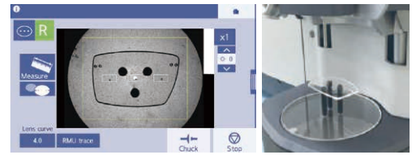
For blocking on high base curve or prism lenses

An external blocker with a flexible mechanism is recommended for enhanced stability. Its adaptable design conforms to the lens surface, ensuring secure positioning during the blocking process.



Shape imager

The integrated shape imager can capture the lens shape, along with drill hole data.



3D frame tracing with full auto clamping (optional)

Binocular measurement of 1,000 points per eye enables accurate measurement. Even high curve frame measurement is possible.



Radius Measuring Unit tracing

In addition to frame tracer and shape imager, demo lens and pattern can be traced by the Radius Measurement Unit (RMU) and Lens Measurement Unit (LMU) in the processing chamber.



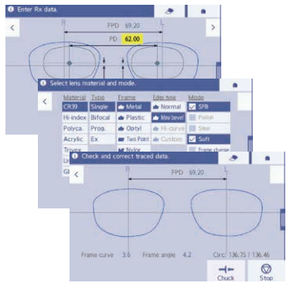
Effortless operation and superior serviceability

Selectable user interface

A 7-inch color LCD touch screen offers an intuitive and user-friendly interface through three selectable operation modes:

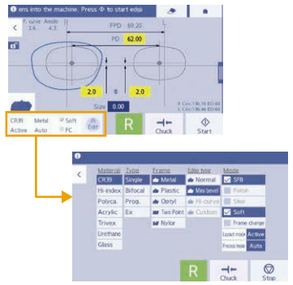
Wizard mode

Ideal for beginners. Step-by-step guidance helps prevent input errors and shortens training time.



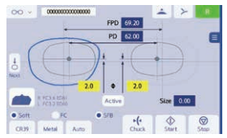
Professional mode

Designed for experienced users. Enter data in your preferred sequence for faster operation.



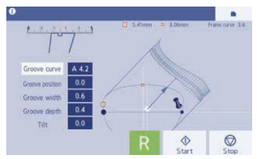
Traditional mode

Mimics the workflow of conventional edgers with button-based input, providing a familiar experience for long-time users.



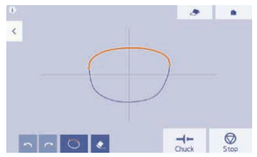
Simulation screen

With bevel and grooving simulation, and shape display from front and side, the optimal condition can be set in order to improve the appearance and right fit of frames.



Simple shape editor

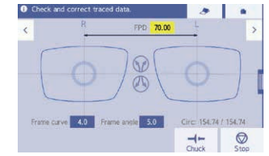
Lens shapes can be modified with precision by directly inputting numerical values. For example, extending the lower portion of the lens to enhance the near-vision area in progressive lens processing. For Nylor frames, operators can designate a fixed reference area on the frame and adjust only the targeted section of the shape. This enables fast, efficient customization without the need for physical patterns, streamlining your workflow while ensuring an optimal fit.



Shape rotation function

Shape axis obtained by imager or RMU can be adjusted without rescanning.*

*Not available when drilling data has been set.



Simple next job function

This function enables the operator to prepare the next job, such as loading shape data or editing the layout, while the current lens is being processed, significantly improving workflow efficiency and reducing downtime.



Data management

Once shape data is saved to the internal memory, it can be recalled without the need for retracing or rescanning, streamlining repeat jobs. Data can be organized into brand-specific folders for simplified access and efficient management.



Superior serviceability

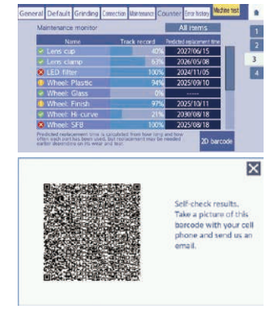
• Maintenance monitor

The maintenance monitor clearly displays the usage status of consumables, helping ensure timely replacement and consistent machine performance.

• Self-check function*

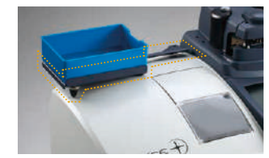
The self-check function automatically diagnoses selected components during a malfunction. Results are displayed as a 2D barcode, which can be sent to an authorized distributor for fast service support.

*Available only in the event of a malfunction



Tray holder (optional)

The tray can be conveniently placed on top of the edger, helping to save valuable workspace. Its elevated position also allows operators to easily identify which job is currently in progress, enhancing workflow visibility and organization.



LEXCE plus Trend8/Trend Specifications

Model	LEXCE plus Trend8	LEXCE plus Trend
Grinding system	Patternless	←
Mode	Beveling (automatic, guided, safety beveling, polishing, high base curve), Flat edging (polishing, safety beveling, grooving), Drilling, Mini beveling (0.4 to 0.7 mm) (0.1 mm increments), Mini step processing (0.0 to 3.8 mm) (0.1 mm increments), Custom beveling, Frame changing, Soft processing	Beveling (automatic, guided, safety beveling, polishing), Flat edging (polishing, safety beveling, grooving), Drilling, Mini beveling (0.4 to 0.7 mm) (0.1 mm increments), 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)	
Bevel position	0 to ±9.95 mm (0.01 mm increments)	
Minimum grinding size		
Flat edging	ø32.0 x 19.0 mm / with nano cup (optional) ø20.0 x 15.5 mm	←
Bevel edging	ø33.0 x 20.6 mm / with nano cup (optional) ø21.0 x 16.5 mm	←
Safety beveling (flat)	ø35.0 x 22.0 mm / with nano cup (optional) ø23.0 x 18.5 mm	←
Safety beveling (bevel)	ø36.6 x 23.6 mm / with nano cup (optional) ø24.6 x 20.1 mm	←
High base curve beveling	ø37.8 x 24.8 mm / with nano cup (optional) ø25.8 x 21.3 mm	None
Grooving	ø32.0 x 19.0 mm / with nano cup (optional) ø20.0 x 15.5 mm	←
Drilling*1		
Hole diameter	ø0.80 to 10.00 mm (0.01 mm increments)	
Hole depth	6.0 mm or less	
Range for hole milling	ø34.0 to 68.5 mm from lens rotation axis	←
Direction for hole milling	Automatic/manual tilting 2.5 to 18°	
Slotted hole width	ø0.80 to 10.00 mm (0.01 mm increments)	
Slotted hole depth	6 mm or less	
Slotted hole length	20 mm or less	
Blocking*2		
Method	Manual blocking	←
Blocking position accuracy	±0.5 mm	
Axis angle accuracy	±1.0°	
Shape imager function*2		
Measurement range	65.0 x 50.0 mm (±1.5 mm)	←
Hole position	0.01 mm increments	
Hole diameter	ø0.80 to 10.00 mm (0.01 mm increments)	
Demo lens / pattern tracing		
Method	Shape measurement using feeler unit	←
Measuring points	1,000 points	
Measurement range	ø22.0 to 76.0 mm (17.4 to 66.0 mm vertically)	
Frame tracing*3		
Method	Automatic 3D binocular tracing	
Measuring points	1,000 points	
Measurement range	Shape width : 23.0 to 70.0 mm Shape height : 18.4 to 66.0 mm Frame horizontal width: 113 to 150 mm	←
FPD measurement	Available	
Frame clamping	One-touch automatic clamping	
Setting of stylus	Switchable between automatic and semiautomatic	
Measurement accuracy	Frame tracing ±0.1 mm	
Wheel configuration	Type PLB-2R8	Type PLB-2R
Water supply system	Pump circulation or direct connection to tap water	←
Interface	RS-232C - 1 port LAN - 1 port USB - 1 port	←
Power supply	100 to 120 V AC / 240 V AC, 50/60 Hz	←
Power consumption	1.3 kVA	←
Dimensions/mass	545 (W) x 530 (D) x 460 (H) mm / 40 kg (type DBT)*4 21.5 (W) x 20.9 (D) x 18.1 (H)" / 88.2 lbs. (type DBT)*4	←
Standard accessories	Drill bit (10 units)*1, Hexagonal screwdriver (2.5 mm), Hexagonal wrench (2.0 mm, 3.0 mm, and 4.0 mm), Dressing stick for glass roughing wheel, Dressing stick for finishing wheel, Compound kit for polishing wheel, Pliable cup, Pliable cup for high base curve lenses, Double-coated adhesive pad, Pliable cup remover, Adapter set, Pattern holder, Stage for small diameter lens*2, Calibration jig, Flat lens, Ferrite core, Accessory case, Power cord	←
Optional accessories	Frame tracer, External barcode scanner, External 2D barcode scanner, Built-in 2D barcode scanner, Circular pump tank, Lens dust filtration unit, Lens edger deodorizer, Mini cup kit, Nano cup kit, Drill bit (ø1.0, 1.2, 1.6)*1, USB flash drive, Tray holder	←

*1 Available for the drill-equipped model
*2 Available for the blocker-equipped model
*3 Frame tracer is optional.
*4 The dimensions and mass differ depending on types.

Specifications and design are subject to change without notice.

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