NIDEK

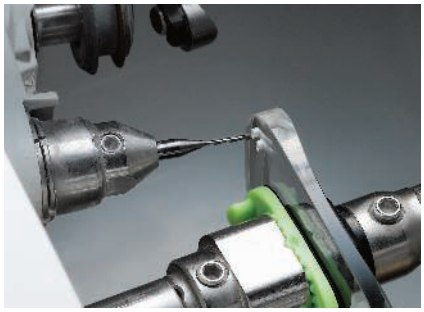
Patternless Edger

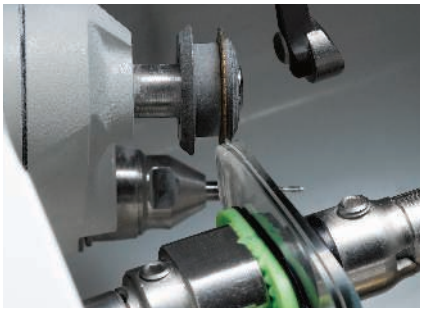
LEXCE Trend8/Trend

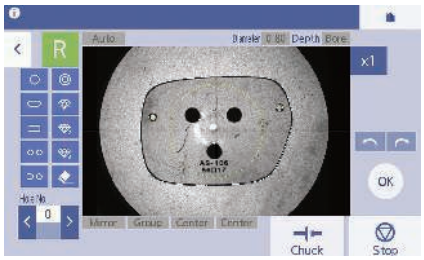
THE ART OF EYE CARE

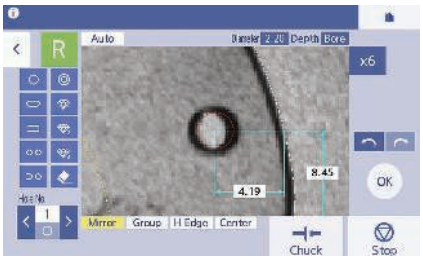
Upwarc
Trend

The LEXCE Trend8 and LEXCE Trend are feature-rich, all-in-one edgers.
They incorporate a high performance drill, an intelligent blocker and a frame tracer in a compact body.
Driven by two types of user interface; a step-by-step wizard mode for beginners and a professional mode for experts, they offer every user comfortable operation with incredible ease.
Multiple configurations can be chosen from different model types depending on the situation of any optical shop and lab, either as a new integration or as an additional unit.
A *Trendy* innovative concept, the LEXCE Trend series redefines the “all-in-one edger”.





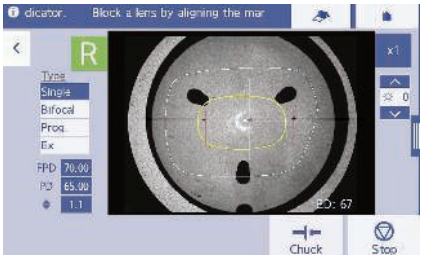


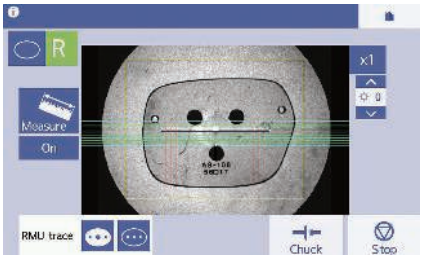


Exceptional processing unit with integrated drill

The drill unit uses a 5-axis mechanism, providing a high degree of accuracy for all your drilling jobs. The processing unit that runs the drill, also performs high quality safety beveling and grooving on any lenses.

- 3D drilling optimally controlled by 5-axis
- Multiple hole types covering extensive frames
- Drilling angle can be set automatically or manually
- Three types of drill bit (optional) for perfect fit
- Precise grooving providing attractive edge surface regardless of lens shape





Intelligent blocker with integrated shape imager

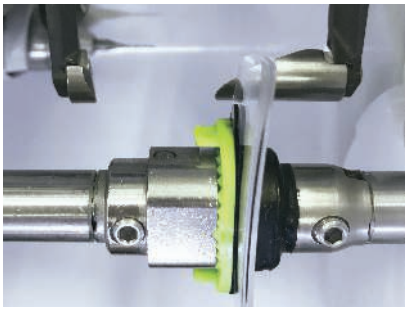
Blocker is simple to operate while offering great performance.
The integrated shape imager (optical tracer) can capture optical tracings, along with drill hole data. The data can be easily edited on the multifunction color screen.

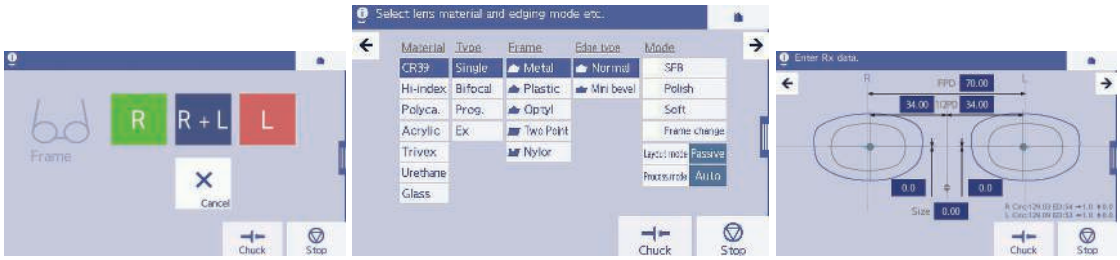
· Dual lens stage allows settings of all lens types
· Magnification of the display facilitates viewing of lens markings during blocking
· Highly accurate and precise blocking function
· Automatic hole and shape data acquisition by shape imager
· Screen enlargement facilitates hole data editing

Precise tracing for all types of shapes

The originally designed NIDEK 3D frame tracer performs highly precise measurements. Additionally, two types of tracing methods are available for tracing demo lenses and patterns with the LEXCE Trend series.

· 3D frame tracing with full auto clamping (optional)
· High curve frame measurement
· Frame holder keeps frame in natural state during tracing
· Reliable demo lens and pattern measurement by shape imager
· Demo lens and pattern tracing by Radius Measuring Unit in processing chamber

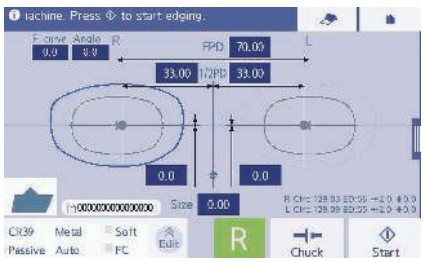


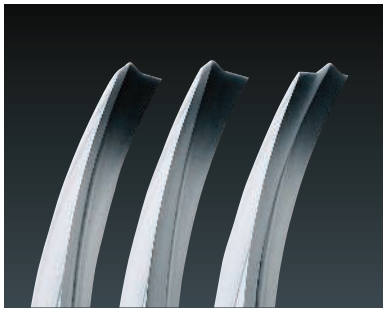


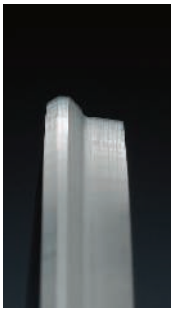
Selectable user interface designed for intuitive operation

A 7-inch color LCD touch screen displays lens shape and layout in full scale. Processing conditions can be intuitively entered on the screen.

- User preference of operation can be pre-set via software interface
  - Wizard mode; step-by-step operation, for beginners
  - Professional mode; single screen operation, for experts
- Uniquely designed, clearly visible icons
- High resolution color LCD touch screen
- Capacitive technology touch screen improves sensitivity

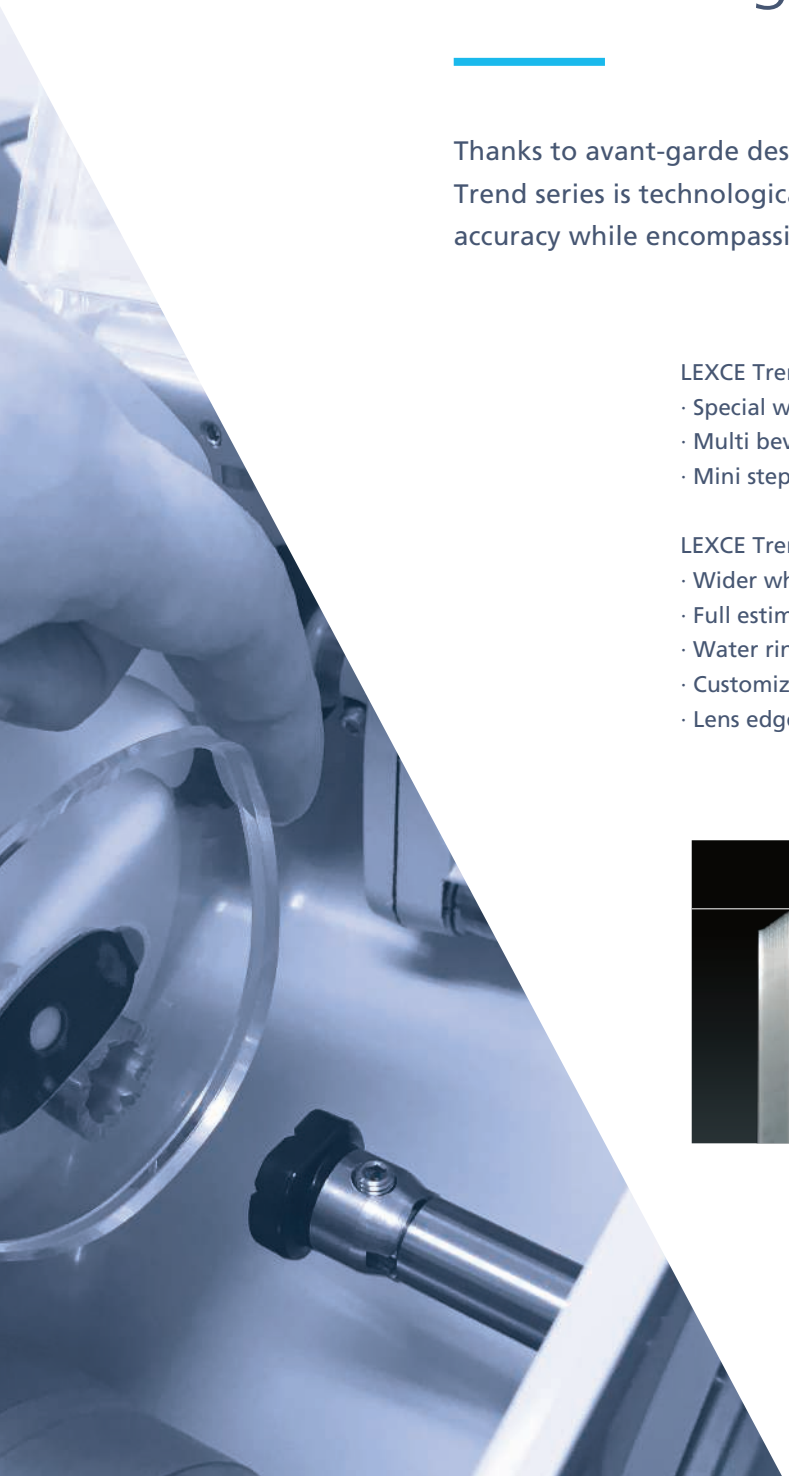




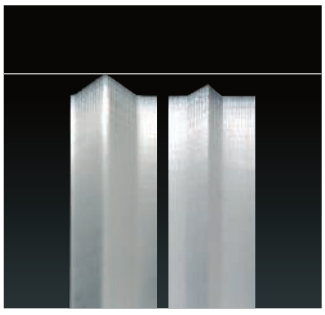
Proven high quality finishing

Thanks to avant-garde design and engineering innovations, the LEXCE Trend series is technologically advanced, offering consistency and size accuracy while encompassing a faster cycle-time.



LEXCE Trend8
· Special wheel design for high base curve lens processing
· Multi bevel shapes to meet today's challenging eyewire frames
· Mini step bevel to grind an asymmetrical shelf-style rear bevel

LEXCE Trend8/Trend
· Wider wheel capable of processing high Rx lenses
· Full estimate soft processing mode controls axis shift
· Water rinsing cycle keeps grinding chamber clean at all times
· Customizable mini bevel is ideal for thin, metal eyewire frames
· Lens edge polishing for flat and bevel lenses

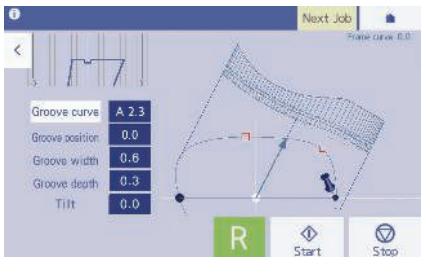


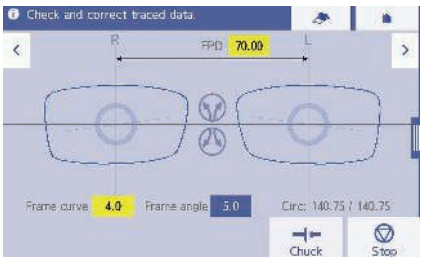

Enhanced user productivity

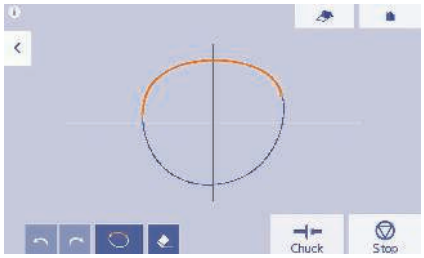
The LEXCE Trend series is perfect for facilities with limited space. Multiple functions with well-combined features, all in a compact footprint, improve productivity.

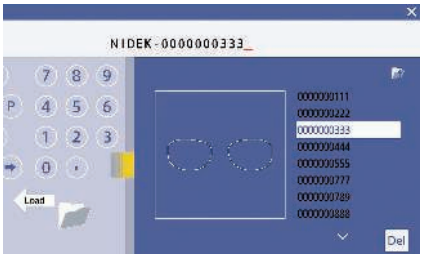
· Next job setup function
· Shape rotation adjustment function
· Shape editing mode
· Memory function for shape data management

· Feature-rich compact design
· Auto processing chamber door
· Lit processing chamber for high visibility
· Cooling water control knob









“A LEXCE” for everyone

The best option can be selected from several configurations depending on individual needs.

Type comparison

	Type	High curve	Drilling	Blocker	Shape imager	Frame*	Grooving	SFB
LEXCE Trend8	DBT	●	●	●		●		●
	DT	●	●			●		●
	DB	●	●	●				●
	D	●	●					●
	BT	●		●		●		●
	T	●				●		●
	B	●		●				●
	N	●						●
LEXCE Trend	DBT		●	●		●		●
	DT		●			●		●
	DB		●	●				●
	D		●					●
	BT			●		●		●
	T					●		●
	B			●				●
	N							●

●: Available

*Frame tracer is optional.
Type I (shape imager equipped model without blocker) is also available. Please contact us for further information.

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 Trend8

System configurations

The following are examples of system configurations.

For high curve and drilling, refer to the type comparison chart.

Type **DBT** or **BT** All-in-one system

High curve · Drilling · Blocker · Shape imager · Frame · Grooving · SFB

Type **DT** or **T** Combination with ICE-1

High curve · Drilling · Frame · Grooving · SFB

Type **DB** or **B** Combination with LT-980

High curve · Drilling · Blocker · Shape imager · Grooving · SFB

Type **D** or **N** Combination with ICE-1 & LT-980

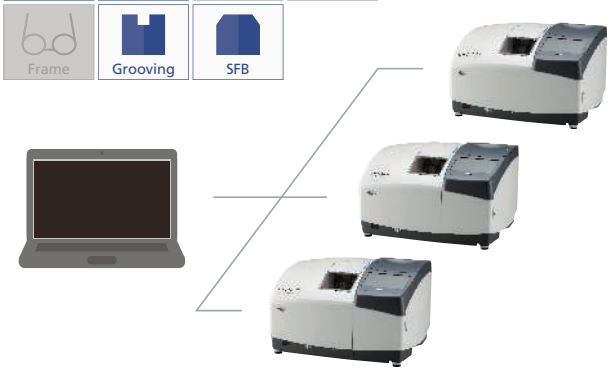
High curve · Drilling · Grooving · SFB

Type **D** or **N** Combination with ICE-1500

High curve · Drilling · Grooving · SFB

Type **D** or **N** High-volume processing system

High curve · Drilling · Grooving · SFB



LEXCE Trend8/Trend Specifications

Model	LEXCE Trend8	LEXCE 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*3		
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*4		
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*5 (H) mm / 40 kg (type DBT) 21.5 (W) x 20.9 (D) x 18.1 (H)" / 88.2 lbs. (type DBT)	←
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*3, 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, Mini cup set, Nano cup kit, Flexible lens clamp, Drill bit (ø1.0, 1.2, 1.6)*1, USB flash drive, Stylus pen	←

*1 Available for the drill-equipped model
*2 Available for the blocker-equipped model
*3 Available for the shape imager equipped model
*4 Frame tracer is optional.
*5 344 mm height for the model without frame tracer

Specifications and design are subject to change without notice.

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