NIDEK

Multifunction Edger

ME-1

THE ART OF EYE CARE


CHUCK
START
STOP
Guide
Menu
RPD
PD
Size
CR39
Metal
Auto
None
NIDEK

Precision meets versatility in every shape

What defines truly elegant eyewear? The ME-1 brings precision and versatility together to make it possible.

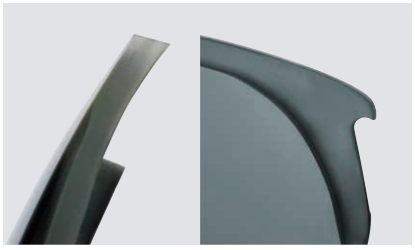
As NIDEK's new flagship model, the ME-1 is engineered for multifunctionality, accuracy, and user-friendly operation. The ME-1 goes beyond drilling and high base curve processing to accommodate a broad range of frame styles with ease. Its newly reinforced structure enhances durability and stability, ensuring long-term, high-precision performance. From complex curves to delicate detailing, the ME-1 consistently delivers a flawless fit that rivals master craftsmanship.

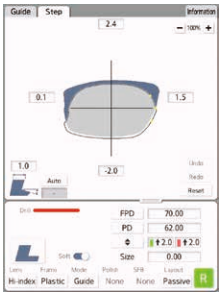
The ME-1 redefines lens edging, where precision and versatility create perfection for any frame.

Stand out with advanced features

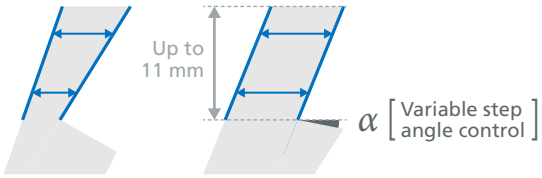
Up to 11 mm height step beveling

Step beveling makes it easy to fit Rx lenses into sunglass and sport frames. Partial step beveling allows for precise application in designated areas, making it ideal for specialty sport frame designs. With support for lens sizes up to ø90 mm and step heights up to 11 mm, the ME-1 handles even the most demanding bevel requirements with ease.





To further enhance precision, the ME-1 features variable step angle control, which maintains a uniform step width across the entire lens shape. This prevents the base of the step from becoming thinner, which leads to a consistent accurate fit, even in complex frame geometries, delivering professional-grade results with every lens.



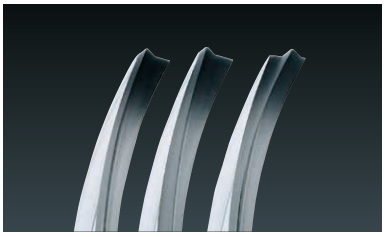
Uneven step width

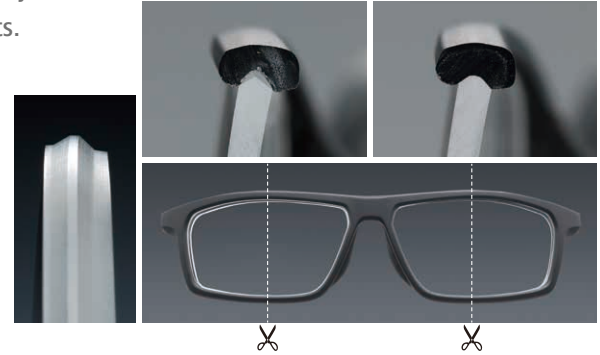
Parallel step width all around the lens shape

High curve and custom beveling for the perfect fit to sport and specialty frames

NIDEK's unique front and rear independent grinding function offers a high base curve bevel with flawless results. The position and height of the bevel can also be manually controlled.

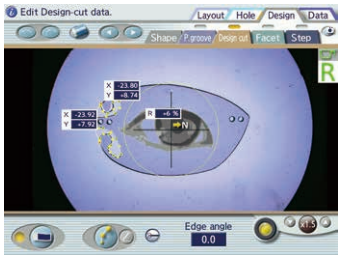
Trapezoidal beveling enhances both the appearance and fit of lenses, particularly in sport and specialty frames. The heights of the front and rear bevels, along with the width of the bevel apex, can be precisely adjusted for optimal results.





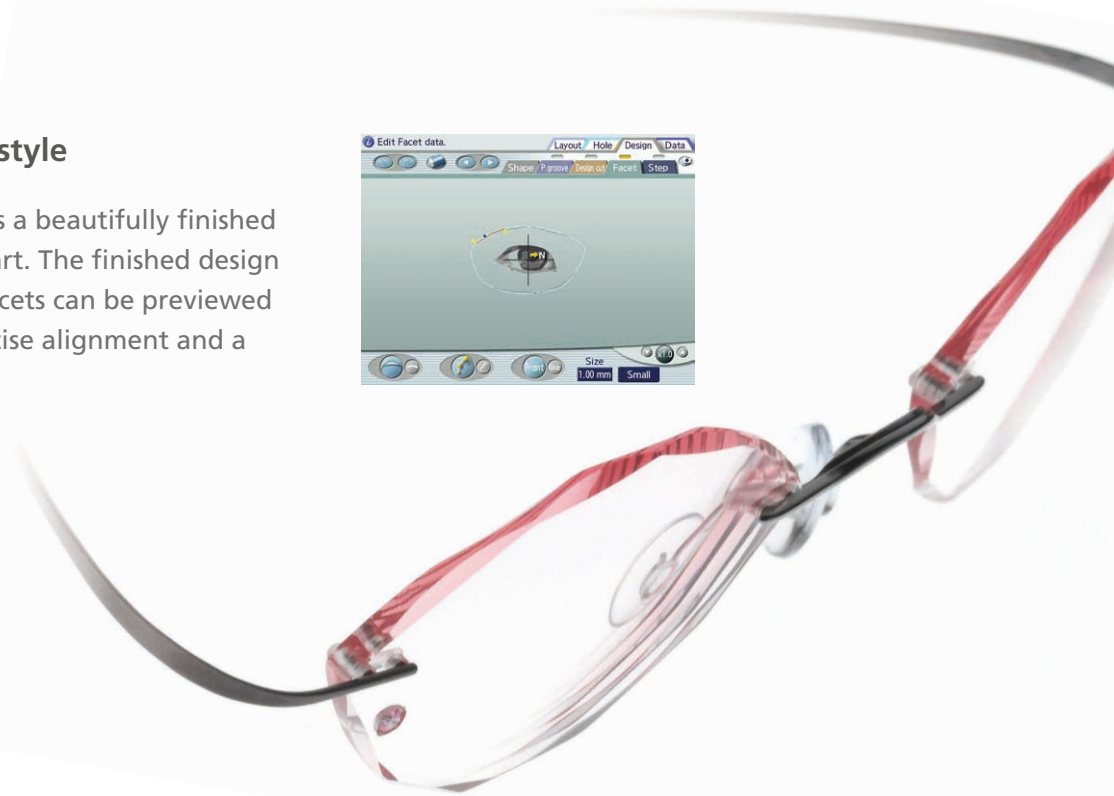
Design cut to unlock your creativity

The ME-1 brings design freedom to life by processing lenses based on shapes created on the blocker. Combined with partial step beveling, it even supports specialty frames that require hook-style lens designs, expanding your creative and functional possibilities.



Facet as your signature style

A uniquely crafted facet adds a beautifully finished edge that sets your work apart. The finished design of both the front and rear facets can be previewed on the blocker, ensuring precise alignment and a flawless final result.

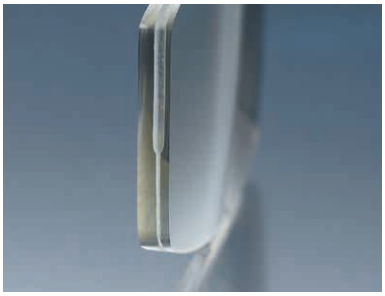


Special safety beveling for high minus lens

The special safety bevel gives high minus lenses a slimmer temporal edge appearance by refining the lens edge and enhancing aesthetics.

Partial grooving/beveling

The ME-1 supports both partial grooving and beveling on a single lens. It allows you to adjust groove width and depth at specific points using the blocker, enabling precise customization and lens design appearance.



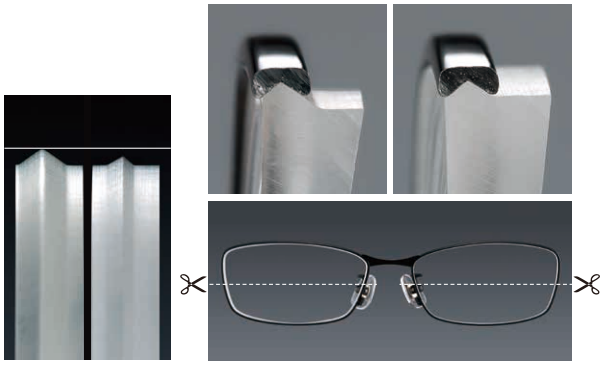
Essentials that support your masterfulness

Automatic 3D drilling

The ME-1 handles a wide range of hole shapes, including slots, notches, counterbored holes, and jewel holes, with precision. Its drill unit features a 0–30° tilt range, enabling accurate angle drilling for various rimless frame designs. This flexibility supports the creation of beautifully crafted, aesthetically refined eyewear.

Beveling / mini beveling

Mini beveling is ideal for lenses in thin-rimmed metal frames, ensuring a precise fit while minimizing the appearance of frosted lens edge. The result is a cleaner aesthetic for high-end finishes.



Safety beveling / polishing

Polishing creates a high-luster finish and helps reduce the visibility of frosted lens edge. Safety beveling can also be polished to further enhance the appearance.

Capability for glass lenses

The ME-1 can process various lens materials including glass. It can meet the consistent demand for glass lenses.

Wheel configuration	PLB-8S	PLB-2R8S
Plastic bevel	•	•
Plastic bevel polish	•	•
Plastic flat	•	•
Plastic flat polish	•	•
Glass bevel		•
Glass flat		•
Plastic high base curve bevel*	•	•
Step bevel / Partial step	•	•

*Safety beveling is not possible for high base curve bevel. •: Available

For reliable results

Optimized processing sequence

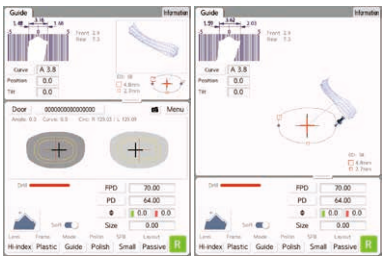
An optimized processing sequence and synchronized movements boost efficiency for every job.

Adaptive torque control for precision stability

The ME-1's motor senses the load on the lens during wheel processing and automatically adjusts the torque. This ensures proper pressure for stable, high-precision results.
Additionally, the soft processing mode processes lenses with reduced force, decreasing axis shift, particularly on superhydrophobic coatings.

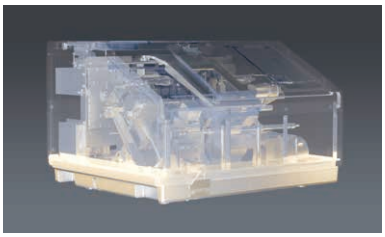
Simulation on wide screen

The ME-1 features a large 10.4-inch color touchscreen for comfortable, intuitive operation. Bevel and grooving simulations, along with front and side shape views, allow you to fine-tune settings for the best aesthetic and precise frame fit.



Durability as your long-time partner

The new structural design enhances the rigidity throughout the entire unit, resulting in improved durability. This powerful design is necessary for stable and accurate lens processing.

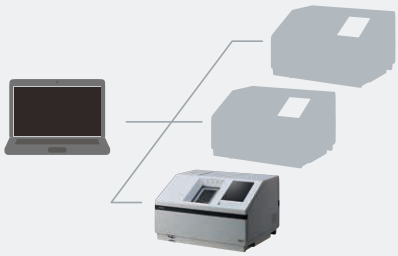


System configurations

Paired with auto blocker with built in tracer

Paired with stand alone tracer and blocker

High-volume processing system



The ME-1 is compatible with the VCA protocols.

ME-1 Specifications

Grinding system	Patternless
Mode	Beveling Mini beveling (0.4 to 0.7 mm) (0.1 mm increments) High base curve beveling Custom beveling Step beveling Partial step beveling Partial beveling Flat edging Grooving Partial grooving Polishing Chamfering (with, without polish) Special safety beveling Facet Design cut Drilling 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	±15.0 mm (0.1 mm increments)
Size adjustment	±9.95 mm (0.01 mm increments)
Minimum grinding size	
Flat edging	ø32.0 x 19.0 mm
Bevel edging	ø33.6 x 20.6 mm
Safety beveling (flat)	ø34.0 x 21.0 mm
Safety beveling (bevel)	ø35.6 x 22.6 mm
High base curve beveling (for a bevel height of 0.8 mm)	ø37.9 x 24.4 mm
Grooving	ø32.0 x 19.0 mm
Drilling	
Hole diameter	ø0.80 to 10.00 mm (0.01 mm increments)
Hole depth	0.1 to 6.0 mm
Minimum lens diameter for drilling	Less than 7°: ø34.0 mm, 7° or larger: ø30.0 mm
Direction for drilling	Automatic/manual tilting 0 to 30°
Wheel configuration	Type PLB-8S, PLB-2R8S
Water supply system	Pump circulation or direct connection to tap water
Interface	RS-232C - 3 ports LAN - 1 port
Power supply	100 to 120 V AC / 200 to 240 V AC, 50/60 Hz
Power consumption	1.5 kVA
Dimensions/mass	702.5 (W) x 593 (D) x 451 (H) mm / 72 kg 27.66 (W) x 23.3 (D) x 17.8 (H)" / 159 lbs.
Standard accessories	Dressing stick for glass roughing wheel (PLB-2R8S only), Dressing stick for finishing wheel, Compound kit for polishing wheel, Calibration jig, Stylus pen, Wrench, Flat lens, Hexagon screwdriver, Drill bit, Pliable cup, Pliable cup for high base curve lenses, Pliable cup remover, Double-coated adhesive pad, Ferrite core, Wire band, Extension cable (2 units), Power cord
Optional accessories	Barcode scanner, Circular pump tank, Drill bit (ø1.0, 1.2, 1.6)

Specifications and design are subject to change without notice.

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