



Multifunction edger
Me 1200 / 900



THE ART OF EYE CARE




3-D Drilling

A detailed close-up of the 3-D drilling process. A precision drill bit is shown in the process of drilling into a metallic component. The component is held in a fixture with a green adjustment knob. The background is a blurred view of the machine's interior.

Multifunction edger *Me 1200*

The ME-1000 DESIGN+ Lens Edger, which had ushered in a new era of lens finishing as the world's first automatic 3-D drilling edger, has been totally redesigned from the ground up.

While incorporating all of the ME-1000 DESIGN+ advanced features, the new Me 1200 Multifunction Lens Edger introduces additional high-tech functions in a smaller, more compact footprint.



Me 1200

A photograph of the Me 1200 Multifunction Lens Edger. The machine is white with a blue side panel. It features a large LCD screen displaying the 'Me 1200' logo, a control knob, and several buttons. The machine is shown from a three-quarter front view.

Step Bevel

A close-up of the 'Step Bevel' function. A grinding wheel is shown in contact with a lens, creating a beveled edge. The lens is held in a fixture with a green adjustment knob.

The *F*uture of *E*dging Is *H*ere



Multifunction edger *Me 900*

The Me 900 is an entry-level model of the multifunction edger series. A user-friendly panel offers comfortable operability for everybody. Not to mention its high speed processing, the Me 900 fulfills an absolute quality finish.

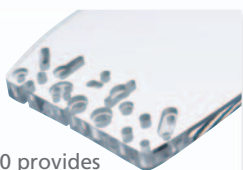


3-D Grooving

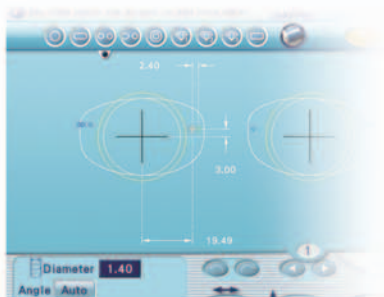
Edging Process

The Me 1200 / 900 has the most advanced auto-control processing system with an exceptionally rigid, vibration-free direct linear drive lens carriage. With a built-in ability to measure lens volume, it provides the most suitable condition for lens processing, while calculating lens grinding torque.

Automatic 3-D Drilling



The Me 1200 / 900 provides a highly durable rigid design and whisper-quiet operation. 3-D drilling function enables the operator to create various hole shapes such as slots, notches, countersunk holes, and jewel holes. The hole data input can be easily set with a stylus pen on the touch screen which indicates the actual hole size. The hole shape selection is made by simply choosing one of the illustrated icons. In addition, maintenance interval for drill bit replacement prompted on the screen.



Step Bevel / Partial Step Edging (Me 1200*1)



With step bevel processing, Rx lenses can be easily mounted into a sunglass frames which are traditionally difficult to mount due to uneven eyewire profile.

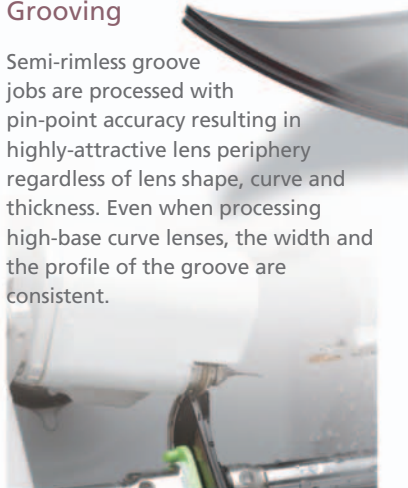
Maximum lens size: ø67 mm (type PLB-8S), ø72 mm (type PLB-2R8S)

*1 Type for PLB-8S and PLB-2R8S



Automatic 3-D Grooving

Semi-rimless groove jobs are processed with pin-point accuracy resulting in highly-attractive lens periphery regardless of lens shape, curve and thickness. Even when processing high-base curve lenses, the width and the profile of the groove are consistent.



Advanced Soft Edging Mode

The Me 1200 / 900 features Advanced Soft Edging Mode, the most advanced technology for processing coated lenses. This technology monitors the grinding pressure and maintains it at an optimal level throughout the entire cycle to eliminate axis shift.



Patented Hi-base Curve Lens Processing (Me 1200*2)

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

*2 Type for PL-8, PLB-8S, PLB-2R8, and PLB-2R8S



Safety Beveling



The Me 1200 / 900 has an ability to safety bevel. Additionally, special safety beveling for the Me 1200 makes the edge of a high minus lens look thinner than it actually is. It can be polished for high luster.



Electronic Estimate System (EES)

Newly designed Electronic Estimate System (EES) is incorporated into the Me 1200 / 900. This system provides information of lens measurement, estimation of lens processing time, and automatically controls the selection of lens processing method. Normal lens processing time is reduced by 20% compared to previous models, and with the EES mode, processing time is reduced by 30%. With EES mode, super hydrophobic coated lenses can be edged without axis shifts.



Processable Lens Material

The Me 1200 / 900 can process a various kinds of lens materials. It is even equipped with the processing mode for polyurethane lens, used with polarized lens for sunglasses.

Me 1200/900

Multifunction edger

Design Function

The Me 1200 has all of the state-of-the-art design functions that were incorporated in the previous model. Yet ease-of-use and display contrast are superior with the Me 1200's newly designed LCD touch screen.

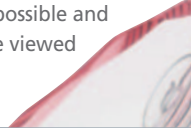
Design Cut (Me 1200)

The Design Cut enables to create a unique lens shape utilizing the drill bit as a milling tool. This allows the operator to creatively design a lens edge or hole resulting in the most intricate shapes, which grinding wheels cannot process.



Facet (Me 1200)

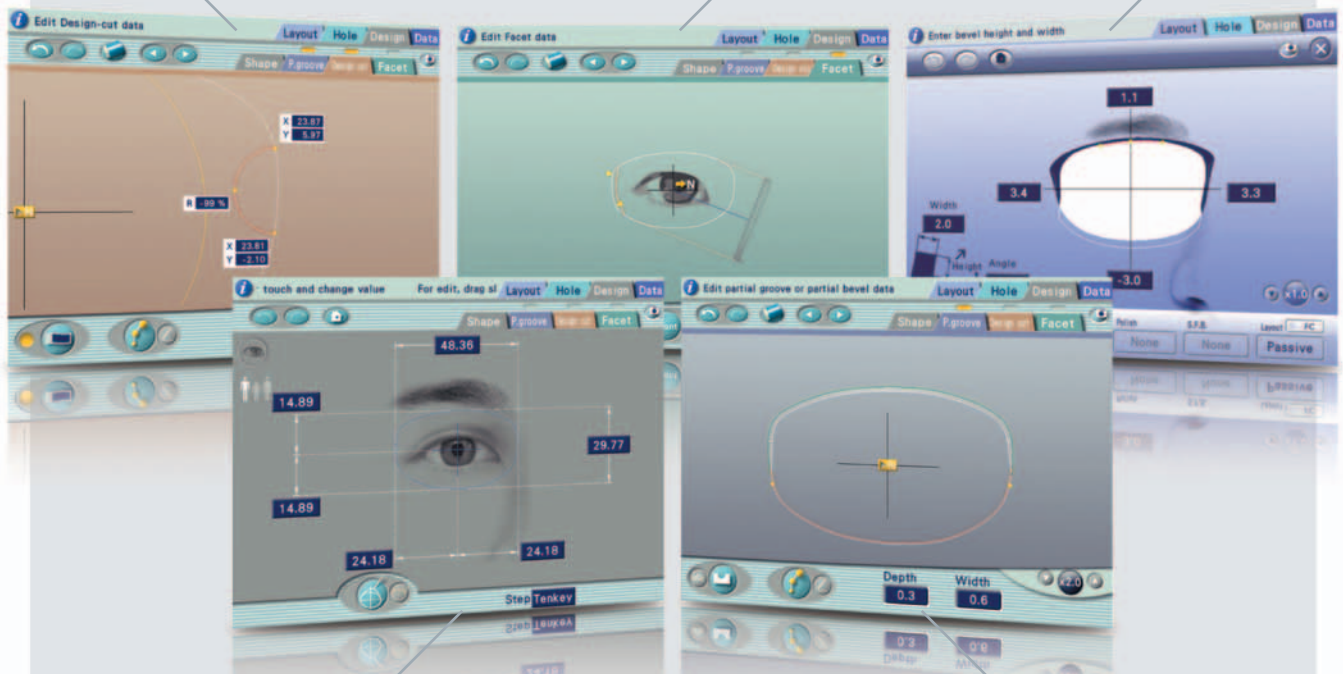
The Me 1200 creates a highly fashionable facet finish on a lens edge, instantly upgrading the value of the eyewear. The operator only needs to specify the facet position and its width on the touch screen. Front and real facets are possible and the finished design can be viewed on the screen in advance.



Partial Step Edging (Me 1200*3)

Partial step is to grind a Rx lens for recent sports frames. Call the shape data of demo lens from the Ice 900 into the Me 1200 and check layout on its screen. After setting the lens into the Me 1200, processing will be completed by simply pushing its start button.

*3 Type for PLB-8S, and PLB-2R8S



Advanced Shape Editor

Customized shapes are easily created with the advanced shape editor. A special "fixed area" function allows the operator to change a particular portion of the lens while maintaining other peripheral areas unchanged.

Partial Grooving / Beveling (Me 1200)

Multiple grinding conditions can be applied to a lens, such as partial grooving, changing the groove width and depth depending on the location. Partial bevel is also available.



Me 1200/900

Multifunction edger



Easy Operation

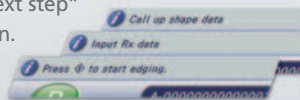
User-friendly LCD Touch Screen

An 8.4-inch color touch screen displays a shape and layout in full scale. Condition settings are easy to understand with intuitive display design. With a user-friendly LCD touch screen, the Me 1200 / 900 allows operators to achieve accurate, reliable and flexible performance with a more simple and easy operation.



Information Bar

Even first-time users can easily operate the Me 1200 / 900 with the assistance of the Information Bar displayed at the top of screen, which provides helpful "next step" information.



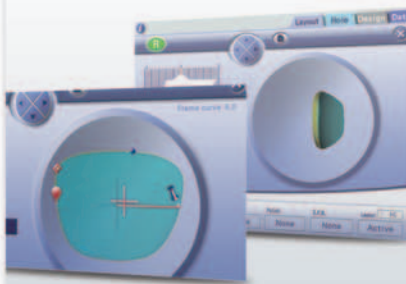
Jog Dial

In addition to the intuitive operation of touch screen, data can also be entered by using jog dials. Pressing the center button moves the cursor to select an item on the screen. Turning the jog dial selects an item or changes an item or value.



3-D Simulation

Sophisticated 3-D bevel simulation allows to check the bevel placement as if viewing the actual lens for any selected angle.



Processing Time Indicator

The Me 1200 / 900 measures the volume of a lens, calculating and indicating the anticipated lens processing time on the screen. Additionally, the status bar on the screen shows the processing progress.



Voice Indicator (Me 1200)

An audio prompt announces progress time in the process, as well as the end of cycle, with a corresponding message such as "The right lens will soon be completed".

Auto Edging Door (Me 1200)

With auto edging door for the Me 1200, user's efficiency is further improved.

Design Data Indicator (Me 1200)

The existence of design data is shown on the screen for easier understanding of JOB data.



Wheel Configuration

Based on lens processing needs, various wheel configurations are available.

	Me 1200					Me 900	
	PLB-G	PL-8	PLB-8S	PLB-2R8	PLB-2R8S	PLB	PLB-2R
Plastic bevel	●	●	●	●	●	●	●
Plastic bevel polish	●		●	●	●	●	●
Plastic flat	●	●	●	●	●	●	●
Plastic flat polish	●	●	●	●	●	●	●
Glass bevel	●*2	●		●	●		●
Glass flat	●*2	●		●	●		●
Plastic high base curve bevel*1		●	●	●	●		
Step bevel / Partial step			●		●		

*1 Safety bevel processing is not possible for high base curve bevel.

*2 Use of finishing wheel for glass lens



Ease of Use

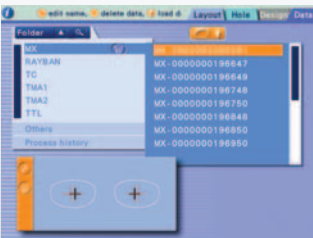
Compact Design

The size of the Me 1200 is 30% smaller than its predecessor. The depth of the unit is minimized so that the back of the device can be moved close to the wall. Maximizing space and the new ergonomic design lends to its ease of use.



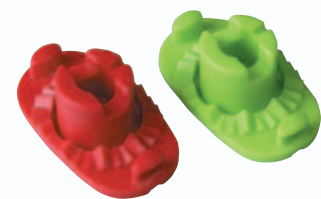
Data Management

JOB data can be backed-up in the USB Memory and transferred to other instruments*.



*Ice 900, ICE mini+, Ice 1000, Lex 1000

Color-coded Pliable Lens Cup



Pliable lens cup are gentle to lens coatings and eliminates axis shifts. These cups are color-coded to process right and left lens faster and eliminating incorrect lens processing.

Ventilation

The Me 1200 / 900 is equipped with a vent hose which can easily connect the lens edger to NIDEK's deodorizing unit, the LED-200 for aspiration of high-index odor.



Nano Cup



By using Nano Cup, an optional accessory, minimum lens "b" dimension of 15.5 mm can be processed. Specially designed for super hydrophobic lenses, the unit is equipped with an exclusive Nano Cup Mode.



Accessory Compartment

Standard accessories can be conveniently stored in the unit's built-in accessory compartment.



Minimum Grinding Size

	Pliable Cup (standard) W x H mm		Mini Cup (optional) W x H mm		Nano Cup (optional) W x H mm	
	Me 1200	Me 900	Me 1200	Me 900	Me 1200	Me 900
Flat	ø32.0 x 19.5	ø32.0 x 19.5	ø22.0 x 17.4	ø22.0 x 17.4	ø20.0 x 15.5	ø20.0 x 15.5
Bevel	ø33.0 x 21.0	ø33.0 x 21.0	ø23.0 x 18.4	ø23.0 x 18.4	ø21.0 x 16.5 ø21.0 x 17.5 *3	ø21.0 x 16.5
Hi-curve bevel	ø39.0 x 26.0	-	ø29.0 x 24.4	-	ø27.0 x 22.5	-
Flat chamfering	ø34.5 x 21.5	ø34.5 x 24.5	ø24.5 x 19.9	ø26.5 x 23.5	ø23.0 x 18.5	ø26.5 x 23.5
Bevel chamfering	ø35.5 x 22.5	ø35.5 x 25.5	ø25.5 x 20.9	ø27.5 x 24.5	ø24.0 x 19.5	ø27.5 x 24.5
Grooving	ø32.0 x 19.5	ø32.0 x 19.5	ø22.0 x 17.4	ø22.0 x 17.4	ø20.0 x 15.5	ø20.0 x 15.5

*3 type PL-8 only

Me 1200 / 900 Specifications

Models	Me 1200	Me 900
Grinding system	Patternless	←
Mode	Beveling (automatic, guided, frame curve) Partial beveling (automatic, guided, frame curve) Flat edging Polishing Chamfering (with, without polish) Special safety beveling Facet Grooving (automatic, guided) Partial grooving Drilling (automatic, guided) Design cut High base curve beveling Step bevel (type PLB-8S and PLB-2R8S) Partial step (type PLB-8S and PLB-2R8S) Frame changing	Beveling (automatic, guided, frame curve) Flat edging Polishing Chamfering (without polish) Grooving (automatic, guided) Drilling (automatic, guided) Frame changing
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 15.00 mm (0.1 mm increments)	
Size	0 to ±9.95 mm (0.01 mm increments)	
Minimum grinding size		
Flat edging	ø32.0 x 19.5 mm / with nano cup (optional) ø20.0 x 15.5 mm	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 ø33.0 x 21.0 mm / with nano cup (optional) ø21.0 x 17.5 mm (type PL-8 only)	ø33.0 x 21.0 mm / with nano cup (optional) ø21.0 x 16.5 mm
Flat chamfering	ø34.5 x 21.5 mm / with nano cup (optional) ø23.0 x 18.5 mm	ø34.5 x 24.5 mm / with nano cup (optional) ø26.5 x 23.5 mm
Bevel chamfering	ø35.5 x 22.5 mm / with nano cup (optional) ø24.0 x 19.5 mm	ø35.5 x 25.5 mm / with nano cup (optional) ø27.5 x 24.5 mm
High base curve beveling	ø39.0 x 26.0 mm / with nano cup (optional) ø27.0 x 22.5 mm	
Drilling		
Hole diameter	ø0.8 to 10.0 mm	
Hole depth	6.0 mm or less	
Range for hole milling	ø33.0 to 70.0 mm from lens rotation axis	←
Direction for hole milling	Automatic / Manual tilting 0 to 30°	
Slotted hole width	ø0.8 to 10.0 mm	
Slotted hole depth	6.0 mm or less	
Slotted hole length	20.0 mm or less	
Interface	RS-232C - 3 ports Ethernet - 1 port USB - 1 port (for the optional USB flash drive only)	←
Water supply system	Pump circulation or direct connection to tap water	←
Power supply	AC 100 to 120 / 230 V , 50 / 60 Hz	←
Power consumption	1.5 kVA	1.3 kVA
Dimensions / Mass	600 (W) x 496 (D) x 355 (H) mm / 52 kg 23.6 (W) x 19.5 (D) x 14.0 (H) " / 115 lbs.	600 (W) x 496 (D) x 355 (H) mm / 50 kg 23.6 (W) x 19.5 (D) x 14.0 (H) " / 110 lbs.
Standard accessories	Pliable cup, Pliable cup for high base curve, Double-coated adhesive pad, Power cord, Stylus pen, Pliable cup remover, RMU / LMU calibration jig, Dressing stick for finishing wheel, Dressing stick for glass roughing wheel (type PLB-G, PL-8, PLB-2R8), Compound kit, Hexagonal screwdriver, Hexagonal wrench, Wrench, Drill bit, Drain hose adapter set, Feedwater hose, Tray	Pliable cup, Pliable cup for high base curve, Double-coated adhesive pad, Power cord, Stylus pen, Pliable cup remover, RMU / LMU calibration jig, Dressing stick for glass roughing wheel (type PLB-2R), Dressing stick for finishing wheel, Compound kit, Hexagonal screwdriver, Hexagonal wrench, Wrench, Drill bit, Drain hose adapter set, Feedwater hose, Tray
Optional accessories	Specified table, Barcode scanner (built-in type), Barcode scanner (external type), USB flash drive, Circulation pump and tank, Water direct connection unit, Lens edger deodorizer (LED-200), Lens dust filtration unit (Lfu 220), Mini cup set, Nano cup set	←

Specifications and design are subject to change without notice.



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