

Dia

E1000·E920 MULTI-AXIS LENS EDGERS

FD80 FRAME/LENS TRACER
LS82 LENS BLOCKER

920 SYSTEM LENS EDGER WITH TRACER



Official Distributor

optohellas[®]
ΟΡΘΟΡΑΜΜΟΛΟΓΙΚΑ ΜΗΧΑΝΗΜΑΤΑ

... from DIA OPTICAL CO.

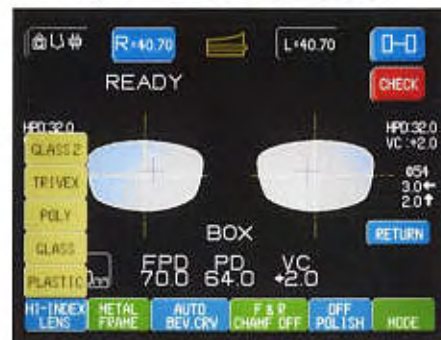
E1000 Series MULTIFUNCTIONAL PATTERNLESS LENS EDGERS

State-of-the-art vertical wheel technology with 3D lens sensor and high definition large color touch-screen graphic interface enable more accurate, faster and more reliable jobs on any style, material and power of lenses.



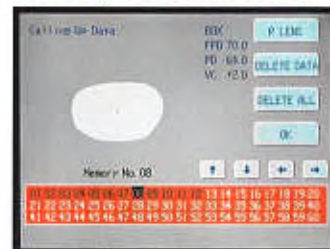
5" x 7" Color touch-screen graphic interfaces

Make E1000 Series Edgers the fastest and easiest machines to use of learn! All relevant job information is displayed in 13 multiple languages.



Built-in 60 job memory is standard

Both the trace and process data are available to be stored and recalled within 60 jobs.



A small 18mm high lens with bevel, 16mm rimless lenses



Shape modification (adjustment) software included



Advanced re-edge and finish options!

Did you forget to polish, chamfer or groove the lens? You can still do it even if the lens was unblocked and data lost.



Simply put a block on the lens anywhere and press the CHECK button on the touch screen, the E1000's 3D Lens Sensor will measure the shape, thickness, curve and size of the lens-edge in the accuracy of 0.01mm and transfer those data to the re-edge program of computer.

No other edger is capable of offering these useful time saving options!

E1000 always memorizes the process data of the past 20 jobs automatically and such data is automatically searched any time even after other jobs were performed.

Multi-width grooving and safety-beveling (E1000-GP, E1000-GP2)

Simple, durable arm grooves and safety-bevels. Simple adjustments for depth and width. Concurrent grooving and finishing with polycarbonate and Trivex lenses. E1000 Edgers utilize an industrial motor and more aggressive wheels to achieve significantly faster result.



E920

MULTI-AXIS LENS EDGER

Our full featured price value leader. The most durable, dependable cut and edge machine ever made. All the same advanced engendering and durability as our most advanced E1000 Series Edgers.



High definition large color screen with touch-panel interface

enables extremely quick & simple to operate.

Built-in 60 job memory and shape modification are still standard.



3D Lens-sensor system

Unique high accuracy 3D sensor system measures shape, thickness and curve of the lens-edge for the optimum bevel placement, yet for the "Self Lens-Trace"

Vertical spindle technology

Enhanced durability, easy access and lens bench space

High quality three-wheel configuration

for the finest and sharp bevel and rimless finish

920 SYSTEM E920 Lens Edger with 3D Dual Eyewire Tracer

What is different?

The 920 SYSTEM is the same basic system as the E1000 Type S Edger + FD-80 Tracer but **to reduce cost** the following significant items are not included:

- 1) Barcode reader interface
- 2) 200 job memory in the tracer (but E920 Edger still has 60 job memory itself)
- 3) Data communication with PC and connection with our SD-1 Signal Distributor
- 4) The E920 Lens Edger is not provided with the "Advanced re-edge and finish" function for unblocked lenses.

The Tracer included in this 920 SYSTEM is not the FD-80 but exclusive for this system and can be interfaced with the E920 Lens Edger only. However this Tracer is upgradable later to a full FD-80 Tracer at extra charge, which upgrade will enable the system to utilize the above-itemized functions, (1), (2) and (3) except (4).

Optional Lens Blockers for 920 SYSTEM



LS-82
Lens Marker/
Blocker



LS-3W
Lens Marker/
Blocker



LS-3E
Lens Blocker

- Flexible, axis-indexing lens blocks and chucks allow faster processing and perfect axis on a wide range of lenses.



- Yet, the E1000 Series and E920 Edgers include “Self Lens-Trace”, which function copies a sample lens, another side lens or a pattern for finishing a lens simply without using any external tracer unit!



Chuck up the blocked sample lens. E1000's sensor traces it to make the lens-shape data.



Simply Layout the lens-shape with proper PD and MRP on the main screen then start edging.

●All models include:

All materials (Trivex, Poly, CR-39, Hi-index & Mineral Glass (except E1000-GP2)) Automatic and manual calibration
Automatic and manual diagnostics Compact 35cm counter space (35 x 40cm, 70 x 40cm with tracer and blocker)
Energy efficient (600 Watts or 5 Amps with industrial strength & speed) Hydrophobic coating friendly (Special processing programs available) Optional bar-code data entry Software memory module for easy upgrades User customizable operation menu VCA/OMA standard ready

Various types available, there's one to fit your needs

Model / Type	Standard Beveling	Wider Beveling	Rimless Finishing	Standard Bevel & Rimless Polishing	Grooving & Safety Beveling
E1000 Type GP	✓		✓	✓	✓
Multi-width Grooves, Safety-bevels & Polished Lenses Standard Bevel & Polishing Wheels plus Glass & Plastic Roughing Wheels					
E1000 Type GP2 (for Plastic Lenses Only)	✓	✓	✓	✓	✓
Same as Type GP but the mineral glass roughing wheel is replaced by a 2nd 10 degrees finishing wheel (wider bevel groove wheel) that is optimized for high-minus and wrap lenses					
E1000 Type P	✓		✓	✓	
Standard Bevel & Polishing Wheel plus Mineral Glass & Plastic Roughing Wheels					
E1000 Type S	✓		✓		
Standard Bevel Wheel plus Mineral Glass & Plastic Roughing Wheels (3-wheel model)					
E920	✓		✓		
Standard Bevel Wheel plus Mineral Glass & Plastic Roughing Wheels (3-wheel model)					

FD-80

3-AXIS DUAL EYEWIRE FRAME/LENS TRACER



- **Automatic frame clamping and probe insert**
- **Traces lenses and patterns simply**
The lens tracing probe is automatically selected.
- **Boxed and decentered lens-shape Data**
Automatically creates a perfectly boxed lens-shape data or a decentered data if the patients Rx information is entered.
- **Traces a frame as small as 18mm high**
- **Stores 200 jobs data in built-in memory**



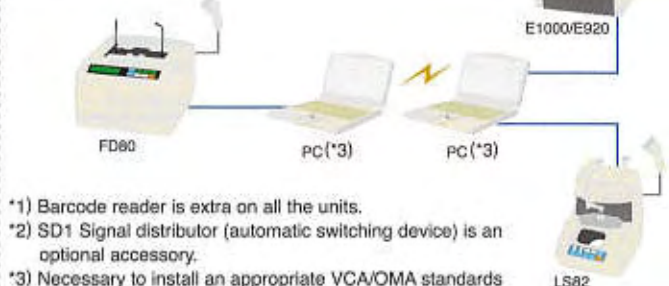
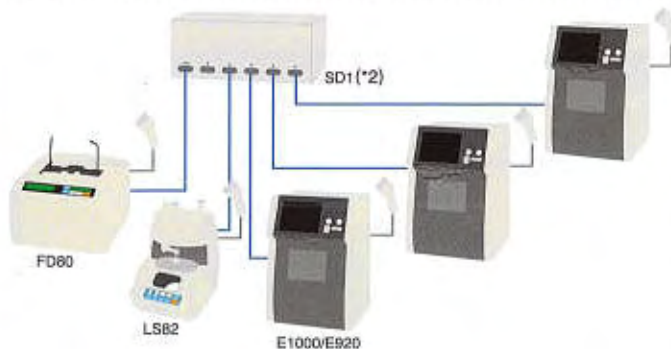
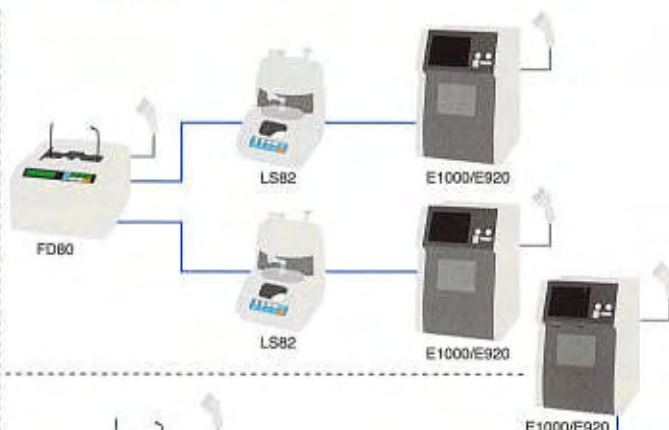
LS-82

COMPUTERIZED LENS BLOCKER



- **Accurate and precise**
Digitally displays a lens-shape image precisely in a 1:1 dimension. Projects a clear image of any type of lens-blank accurately on the same layout screen.
- **Fully-automatic decentration**
Automatically pinpoints the position of optical center to be decentered once the lens-shape data is downloaded from our scanner. No calculation and no input are required to the operator.

Various system configurations available to meet your finishing lab needs



- *1) Barcode reader is extra on all the units.
 *2) SD1 Signal distributor (automatic switching device) is an optional accessory.
 *3) Necessary to install an appropriate VCA/OMA standards data communication program to the PC.

Accessories for E1000/E920 Edgers

Standard accessories

Recirculating coolant system (water tank and pump) is standard together with lens chucking materials, tools, calibration gauges, etc.



Deodorizer system (JD-3)

Deodorizer system (JD-3) with air-filter (Optional accessories)

The simplest but perfectly effective deodorizer. Adding the extra air-filter will prolong the life span of the deodorant.



Direct water connection kit (Optional accessory)

City water is supplied direct to an E1000/E920 Edger under computer control.

Signal distributor (SD-1) (Optional accessory)

With this automatic switching device, up to 5 units of E1000/E920 Edgers and/or LS-82 Blockers can be connected to one FD-80 Tracer with barcode reader interface.



System rack (Optional accessory)

Stores the FD-80 Tracer and LS-82 Blocker vertically. This simple knockdown rack provides increased productivity and saves a space of your workshop counter.



Program Memory Modules (Optional upgrade)

Memory modules are available to keep your edger's software completely up to date.

Specifications

E1000 Series Lens Edgers

<Diameter of lens acceptable> [Min]18mm high with bevel, 16mm high rimless finish / [Max] 100mm

<Types of (fully-automatic) finishing available> Standard beveling / Rimless finishing / Wider beveling (GP2) / Standard bevel polishing (GP, GP2, P) / Rimless polishing (GP, GP2, P) / Front and rear safety bevel (GP, GP2) / Front, center and rear-face curve grooving (GP, GP2)

<Bevel programs> Fully-automatic (computer controlled) beveling / Controlled beveling including front-face curve, optional curve and position

<Dimensions / Weight> 370(W) x 370(D) x 553(H) mm / 39 kg <Power requirement> 100~120V / 60Hz or 200~240V / 50Hz AC, 600W

FD-80 Frame/Lens Tracer

<Operation modes> • Automatic both eyes / Single eye measurement • Frame / Lens / Pattern tracing • Variable tracing speeds

<Range of measurement> Frame:18mm (in height) ~ 70mmφ Lens:15mm (in height) ~ 70mmφ

<Time of tracing> • 38 seconds for measuring both eyes • 22 seconds for lens or pattern <Data ports> 2)RS232C 1)RS232C with DC5V

<Dimensions / Weight> 280(W) x 310(D) x 180(H) mm / 7 kg <Power requirement> 24V DC, 20W (100~240 AC / 24V DC adapter attached)

S-82 Lens Blocker

<Blocking methods> Adhesive lens-block <Boxing style> Boxing from bottom / center / outline <Data ports> 2)RS232C (1xConfigurable to DC5V)

<Dimensions / Weight> 215(W) x 270(D) x 310(H) mm / 4.5 kg <Power requirement> 100~20V / 60Hz or 200~240V / 50Hz AC, 20W

E920 Lens Edger

<Diameter of lens acceptable> [Min]18mm high with bevel, 16mm high rimless finish (with optional chucks) / [Max] 100mm

<Types of (fully-automatic) finishing available> Standard beveling / Rimless finishing

<Bevel programs> Fully-automatic (computer controlled) beveling / Controlled beveling including front-face curve, optional curve and position

<Dimensions / Weight> 370(W) x 370(D) x 553(H) mm / 39 kg <Power requirement> 100~120V / 60Hz or 200~240V / 50Hz AC, 600W

Tracer for 920 SYSTEM

<Operation modes> • Automatic both eyes / Single eye measurement • Frame / Lens / Pattern tracing • Variable tracing speeds

<Range of measurement> Frame:18mm (in height) ~ 70mmφ Lens:15mm (in height) ~ 70mmφ

<Time of tracing> • 38 seconds for measuring both eyes • 22 seconds for lens or pattern <Data ports> 2)RS232C 1)RS232C with DC5V (option)

<Dimensions / Weight> 280(W) x 310(D) x 180(H) mm / 7 kg <Power requirement> 24V DC, 20W (100~240 AC / 24V DC adapter attached)

The specifications and appearance are subject to change without notice.

Dia DIA OPTICAL CO.

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