TOOLS & SUPPLIES



BAR-CODE READER

FD-106(OPTION)

► Easy transfer of data from FD-80, via this bar-code reader.

Dimens	Weigh			
160(W)×90(D)	160 (W) ×90 (D) ×65 (H) mm			
Power Source	ce			
DC5V	_			



SIGNAL DISTRIBUTOR

SD-1(OPTION)

▶ Five instruments (E950 or AD-820 and LS-82) can be connected with one FD-80 via this equipment, as Data Communication Hub.

Dimensions	Weight
105(W)×250(D)×110(H)mm	1.5Kgs
Power Source	

AC120V-230V 1.5W



TOOL STAND

TS-1	Round type; steel made				
TS-2	Upright type; plastic made				
TS-3	Round type; plastic made				



DRESSING STONES

#100	for roughing wheel
#400	for finishing wheel



PATTERN PLATE

PP-L Large size: 60x70x1.7mm(4pcs./sheet)



TD-6000

Tool Stand with 10 screw drivers



SCREW CUTTER

T-50 (0.6, 0.8, 1.0 or 1.2)

TAKUBO MACHINE WORKS CO., LTD

5-5-3 Miyahara, Yodogawa-ku, Osaka 532-0003, Japan

TEL:+81-6-6394-8780 FAX:+81-6-6394-8781

E-mail: takubomatic@takubo.com w e b: http://www.takubomatic.jp



The specifications and appearance are subject to change without notice.

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Takubomatic

OPTICAL EQUIPMENTS SENERAL CATALOGUE



E-100

MULTIFUNCTIONAL PATTERNLESS LENS EDGER

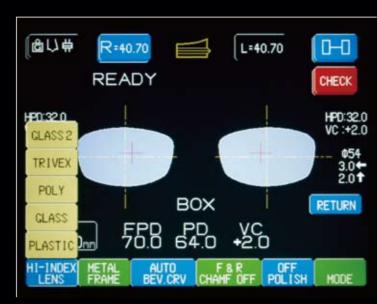
☐ **GP** Beveling + Chamfering + Grooving + Polishing

Type-P Beveling+ Polishing

☐ Type-S Beveling

Multiple

English/Spanish/Portuguese/Russian/
 German/ Turkish/French/Italian/Czech/
 Polish/Korean/ Chinese/Japanese



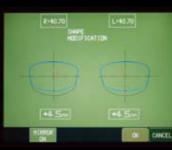
- ► High Definition Large Color Screen with Touch-panel Interface
- ► Various Layout Program 'Box' or 'OPT' (Optical Center)
 Layout-Style selectable, yet Eyepoint, PD and FPD are also
 adjustable on the main screen

Powerful

Accurate

Compact

User-friendly



► Easy Shape Modification As You Like



► Built-in 60 job memory 40 jobs rotating tracedata memory + 20 jobs permanent memory



▶ Possible to re-edge, even after deblocking the lens cup



► 'Self Lens-Trace' Mode to convert a sample lens or a pattern plate to a shape-data by a built-in sensor without any external tracer unit



► possible to make the Groove after checking the estimated Grooving Line.



► Easy Update of software program by this module



Flat : Min.16mm
Bevelling : Min.18mm
Chamfering : Min.22.5mm
Grooving : Min.20mm



ensions

Edging Lens Dia.

Dimensions

425 - 4100mm 370 (W) ×370 (D) ×540 (H) mm

Weight Power Source Power Consumption

39Kgs AC100V 600W 50/60Hz

Type-GP (All-in-one model) Chamfering + Grooving + Polishing

Type-P Polishing

☐ Type-S (Basic model)

MULTI-AXIS LENS EDGER

Multiple

※ English/Spanish/Portuguese/Russian. German/Turkish/French/Italian/Czech/ Polish/Korean/ Chinese/Japanese

Powerful

Accurate

Compact

User-friendly



► Clear LCD Screen with Touch-Panel.



► Easy Shape Modification As You Like



► Accurate 3D Sensor system.



▶ Grooving with step by step function. possible to make the Groove after checking the estimated Grooving Line.

▶ Easy Update



► STABLE CHUCKING Adoption of the Wide-Oblong Chucks and Cups.



"Available Lens: CR39, Mineral Glass, Polycarbonate" "Trivex. Hi-Index"

: Min.18mm Chamfering: Min.22.5mm



370 (W) ×370 (D) ×540 (H) mm 600W 50/60Hz

39Kgs AC100V

E-920 SYSTEM

LENS EDGER

Multiple

※ English/Spanish/Portuguese/Russian/ German/Turkish/French/Italian/Czech/ Polish/Korean/ Chinese/Japanese

Powerful

Accurate

Compact

User-friendly

More Economical System with a special-spec tracer only for E920 Lens Edger



► E920 Lens Edger may be sold alone without Tracer



► Clear LCD Screen with Touch-Panel Interface. E-series lens edger

▶3D Sensor in

► Simple 3-Wheel Composition *Rough Wheel for Plastic lens *Rough Wheel for Glass/Mineral lens *Finish/Bevel Wheel

"Available Lens: CR39, Mineral Glass, Polycarbonate" "Trivex. Hi-Index'

Flat : Min.16mm Bevelling : Min.18mm



Edging Lens Dia. Ф25 - Ф100mm 370(W)×370(D)×540(H)mm 39Kgs AC100V

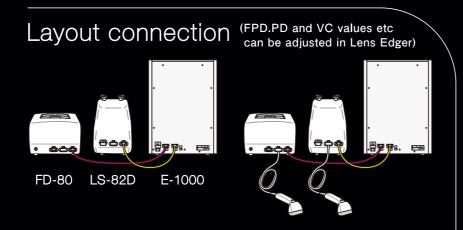
► Small 18mm Lens with Bevel

CONNECTON

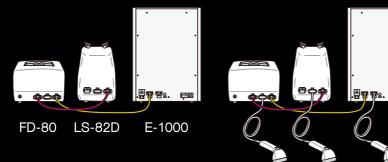
CHUCK DETAILS FOR E1000 EDGER

	Standard	For Glass and Fragile Lens	Extra small (Option)	Small (Option)	For Fragile Lens (Option)
Lens Chuck Block/Prism	9K-60	9K-66	9K-12	9K-50	9K-54
Lens Chuck	9K-61	9K-11	9K-13	9K-51	9K-55
Adhesive Lens Block	9K-53A	9K-56A	9K-30	9K-53A	9K-56A
Chuck-Rubber	9K-63	9K-05	9K-14	9K-52	9K-57

E1000 SYSTEM CONNECTION SAMPLE



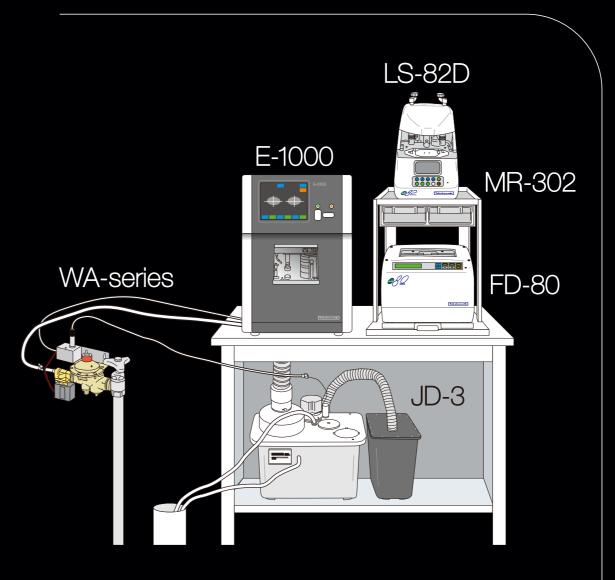




Chain connection (connection when used with bar-code readers)



E1000 CONNECTION SAMPLE



WA-series (OPTION) WATER SERVICE DIRECT CONNECTION KIT

- ► The clean water is served to the edger through this kit.
- ► This kit is available in E1000,E950,E900,AD820 and Ecom6 Lens Edgers

Dimensio	Weight	
95(W)×210(D)×	1.8Kgs	
Power Source	nsumption	
DC24V	N	



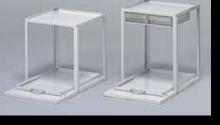
JD-3

- ► The exhaust nasty smell is deodorized by this compact size instrument (black color).
- ► Also it's very easy to replace to the new one, since this box itself is a cartridge.

Dimensions	Weight
170(W)×225(D)×245(H)mm	3.1Kgs



RACK





FD-80

**FD-80 has bar-code function (Bar-Code Reader is option)

FRAME SCANNER IN BOTH EYE-MEASUREMENT

FRAME SCANNER IN AUTOMATIC BOTH-EYE MEASUREMENT BY EASY OPERATION!!



- ► Asymmetric Frames can be scanned by both-eye measurement.
- ▶THE MOST SIMPLE AND EASY SETTING of Frame and Lens Tracing Attachment.
- ►Unnecessary to exchange Frame Tracer and Lens Tracer.
- ► Soft and Stable Lens Holding.
- ▶200 job data storable with bar-code reader. (Bar-code reader is option)



(ISO16284 (VCA) correspondence machine)

Measuring Method		Dimensions	Weight	
Auto.both-eye measurement in three dimensions		280 (W) ×310 (D) ×18	30(H)	7Kgs
Power Source	Power Comsumption		Data st	oring capacity
100-240 V a.c., 50/60Hz	24V d.c., 20W (to be used with A.C. adaptor)		2	00 data

LS-82S,D

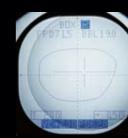
LENS BLOCKER

MANY USABLE LAYOUT FORMATS ARE PROGRAMMED

- ► Displays clear image of the eyeshape exactly in the same scale. For single vision, bifocal or multifocal lenses etc...
- ► When you layout Right lens, screen displays the transferred Left lens data by R-L switch.
- ► Accurately layout setting by "BOX" system.
- ► Easy blocking cross marking can lead you perfect finishing.
- ▶Bar-code interface is available.



Clear Graphics on a Magnified Easy-View Screen with bright & white LED Lighting



Single Vision Layout



Biforcal Lens Layout



LS-82S

SINGLE ARM TYPE

Multifocal (Progressive) Lens Layout



LS-82D DOUBLE ARM TYPE



Style of Blocking					
Suction cup blocking/Adhesive pad blocking					
Dimensions Weight Power Consumptio					
215(W)×270(D)×310(H)	16W/50Hz/60Hz				

07

☐ ECOM-6V ☐ ECOM-6WM ☐ ECOM-6SP

☐ ECOM-6M ☐ ECOM-6WS

☐ ECOM-6MP

LENS EDGER

COMPACT AND HIGHLY EFFICIENT MACHINE

- ► Easy and upgraded functions are available.
- ▶ Beginners can easily operate machine of your choice.
- ▶ Possible to select the type from four variations.
- ► Easy to make polycarbonate lens grinding by pump function. (Pump Switch)
- ▶23-100mm with NEW TYPE SMALL CHUCK and BOX Method (LENS DIAMETER)

Notice

- ▶type V, M, WM, MP have a measuring unit.
- ▶type SP, MP is polishing function available.



Pump Tank Set as standard Accessories



▶ Finishing size of lens is

MEASURING UNIT

T14TV0

Beveling

Beveling

measured by accuracy of 0.1mm.

► Clear digital indication of measurment.

BEAUTIFUL FINISH OF LENS



► Diameter of grinding wheel matched to lens curve is 100mm, which realizes ideal forced beveling. Also, special curve correcting device ensures accurate beveling. Especially, special beveling wheel ensures beautiful machining regardless of degree of lens curving. for plastics for Mineral Glass















ECOM-6WM













Wheel

T18SV0

Mini-beveling



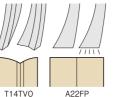


ECOM-6S

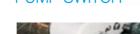
Roughing

ECOM-6MP





Flat-polishing





FORCE LEVER KNOB

► Allows free-float beveling, forced beveling and manual placement as desired.

> ► Creates smooth bevel placement by use of Takubo's original technology.

CURVE DIAL

- ► Smooth and easy bevel placement.
- ▶ One-touch setting and curve correcting.

Lens Diameter	Dimensions		
25-100mm	430 (W) ×430 (D) ×350 (H) mm) mm
Weight		Power Cor	sumption
35.0Kgs.(Main Unit), 4Kgs.(Accessories)		225W/50Hz,	250W/60Hz

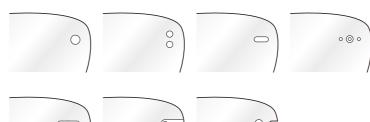
LENS DRILLING MACHINE

EASY AND BEAUTIFUL FINISH WITH DIGITAL LENS DRILLING MACHINE

- ► CR39.POLYCARBONATE & TRIVEX Lens are available.
- ► Steady Drilling on the Lens-Mount.
- ▶The right and left symmetrical clamps makes both lenses synchronized turns.
- ▶ The hole positions are measured and memorized accurately by the distance from the lens edge.
- ▶ Positioning of holes is possible even if the lens shape is changed. (Except for the nose side of the lens.)
- ►LED spot lighting.
- ► The drill hole angle can be adjusted.
- ► Accessories include a hand-reamer for fine adjustment.



▶ Processing example







Possible dia. of drilling Revolutions pe		per minute	Dimensions			
1.0mm 1.2i	mm 1.4mm 1.8mm 2	.0mm	0~2500rpm		300 (W) ×225 (D) ×165 (H) mm	
Weight	Power source	Powe	er consumption			
5.0 kgs	AC100-230V	50	/60Hz 22W		(E (RoHS)	

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AUTO LENS GROOVER

ACCURATE GROOVING WITH VARIOUS LATEST FUNCTIONS



- ► New Jens chucking for all Jenses. (23~70mm Lens diameter)
- ► Grooving depth of range 0-0.7mm can be set with a dial by 0.1mm. Re-grooving is possible if the depth of groove is insufficient.
- ► Various lens grooving styles are available with quick operation.

You can choose ①Free-curve grooving (grooving on the center of the lens edge),

- ②Front-face curve grooving (for -lens) or
- ③Rear face curve grooving (for + lens).
- ► Adjustable lens guide roller (both right and left sides) for free curve grooving makes the groove position on the lens more accurately.
- ▶Inclined diamond cutter secures stable grooving width.
- ▶ Standard groove width is 0.6mm. Other width is optionally available.





Groove width Lens thickness Lens diameter Grooving time

23-70mm

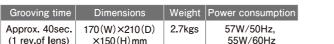
0.6mm standard | 1.5-11.0mm

1.2mm option



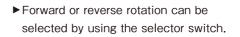
(1 rev.of lens) ×150(H) mm





HAND EDGERS

EASY OPERATION TAKES PREFERENCE COMPACT SIZE, WATERPROOF MODEL



- ► For draining, external plumb-down draining equipment or drain tank can be installed.
- ▶ The inside of the machine is constructed to prevent splashing water.

NH-22F

100 dia.by 22 wide vee wheel

with a radius of 2 on left edge

100 dia.by 22 wide flat wheel with a radius of 2 on left edge

NH-30V

100 dia.by 30 wide vee wheel with a radius of 2 on left edge

NH-32TV

100 dia.by 12 wide (rough), 20 wide (finish) vee wheel with a radius of 2 on left edge

NH-30F

NH-22V

100 dia.by 30 wide flat wheel with a radius of 2 on left edge 100 dia.by 32 wide eccentric vee

wheel with a radius of 2 on left edge







Suction and Adhesive Blocking.

 $180(W) \times 245(D) \times 250(H) mm$ 3.7Kgs. 14W/50Hz, 12W/60Hz



NH-32WV

a radius of 2 on left edge

100 dia by 12 wide (rough), 18 wide (finish) flat wheel with



PIONEER OF PRECISE LENS AXIS MARKING AND BLOCKING



- ► Easy to set the chucking by pulling the arm.
- ▶ Possible to Axis Marking with Center-dot,



100mm dia. By 22 to 32mm wide. 220 (W) ×360 (D) ×280 (H) mm 97W 50/60Hz 8kgs

PM-80.FD-8

FRAME SCANNER

SCANNING WITH ACCURACY PM80 HAS PATTERN-CUTTING FUNCTION

** PM-80 has pattern making function



- ► SIMPLE SETTING.
- ▶ "BOX" and "OPT" (Optical Center) layout system Choice.
- ► Minimum Tracing Pressure for Delicate frame.
- ► Available with Tracing 18mm Lens high.

Tracing Modes	Ra	ange of Measureme	ent	Possible Diameter of Pattern
Frame tracing/ Lens tracing		lin:18mm (in height) lax:80mm		Min:18mm (in height) Max:85mm
Dimensions		Weight		Power Consumption
240 (W) ×350 (D) ×260 (H) mm)	9 Kgs (PM-80) 6 Kgs (FD-8)		

Œ

(RoHS)

PM-8

PATTERN MAKER

IMPROVED
OPERATION
and ACCURACY
from PM7



- ► Easy setting.
- ► One-touch Measuring Method.

 (Boxing Method, Optical Center Method)
- ► Applicable with Tracing 18mm Lens high.
- ▶ Copying Function.



Pattern Diameter	Measurii	Weight		
18-85mm	18-80mm N	9.0Kgs.		
Dimensions		Power Consumption		
240(W)×350(D)×260(H)mm		47W/50Hz, 4	15W/60Hz	



SIMPLIFIED DRILLER TO LENS FOR RIMLESS FRAME



- ► Available for all kinds of lenses mineral glass, plastic (CR-39) and polycarbonate as well.
- ► Two-sided drilling system + Powerful and quiet DC motor perform speedy drilling without cracking.
- ► Fine-designed, durable drill pits make always attractive finish.
- ► Suction lens chucking ensures the drilling angle.
- ► The inside diameter of the hole is adjustable with a scale to a precision of 0.2mm and the drilling position can be confirmed with a positioning dial.

(**((((RoHS**)

Possible dia. of drilling		Dimensions		
0.8-2.8mm		140(W)×185(D)×275(H)mm		
Weight	Power consumption			
4.0 kgs	s 17W/50Hz, 16W/60Hz			



AUTO POLISHER



AUTO POLISHER
BRINGS YOU A MUCH
HIGHER LEVEL OF QUALITY FOR
RIMLESS OR BEVEL EDGE FINISHING





- ► Any material of (Plastic) lens can be polished automatically including polycarbonate, hi-index, with the same buffing wheel and polish.
- ► No damage is caused to lens surfaces with the buffing wheel on an inclined spindle and an adjustable polishing pressure system.
- ► Vacuum cleaner is included as standard accessory.



Materials of lens a	Timer		
CR-39, Polycarbonate,	0-4 min.		
Dimensions (Polisher only)	Weight	Power consumption	
214(W)×270(D)×240(H)mm	6.7 kgs	85W/50Hz,	75W/60Hz

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