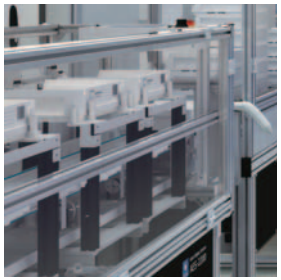
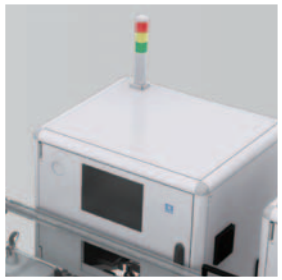
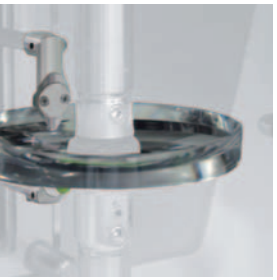
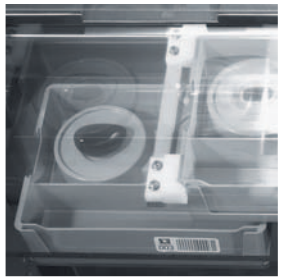
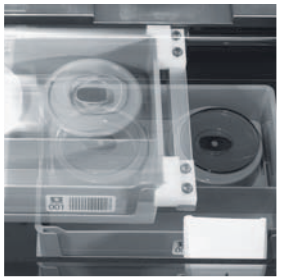
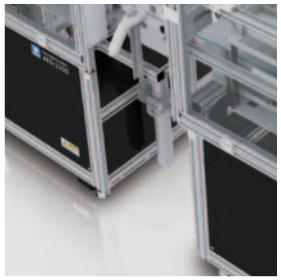
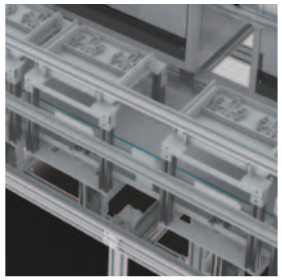
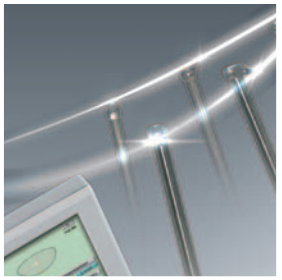
NIDEK

Industrial Lens Edging

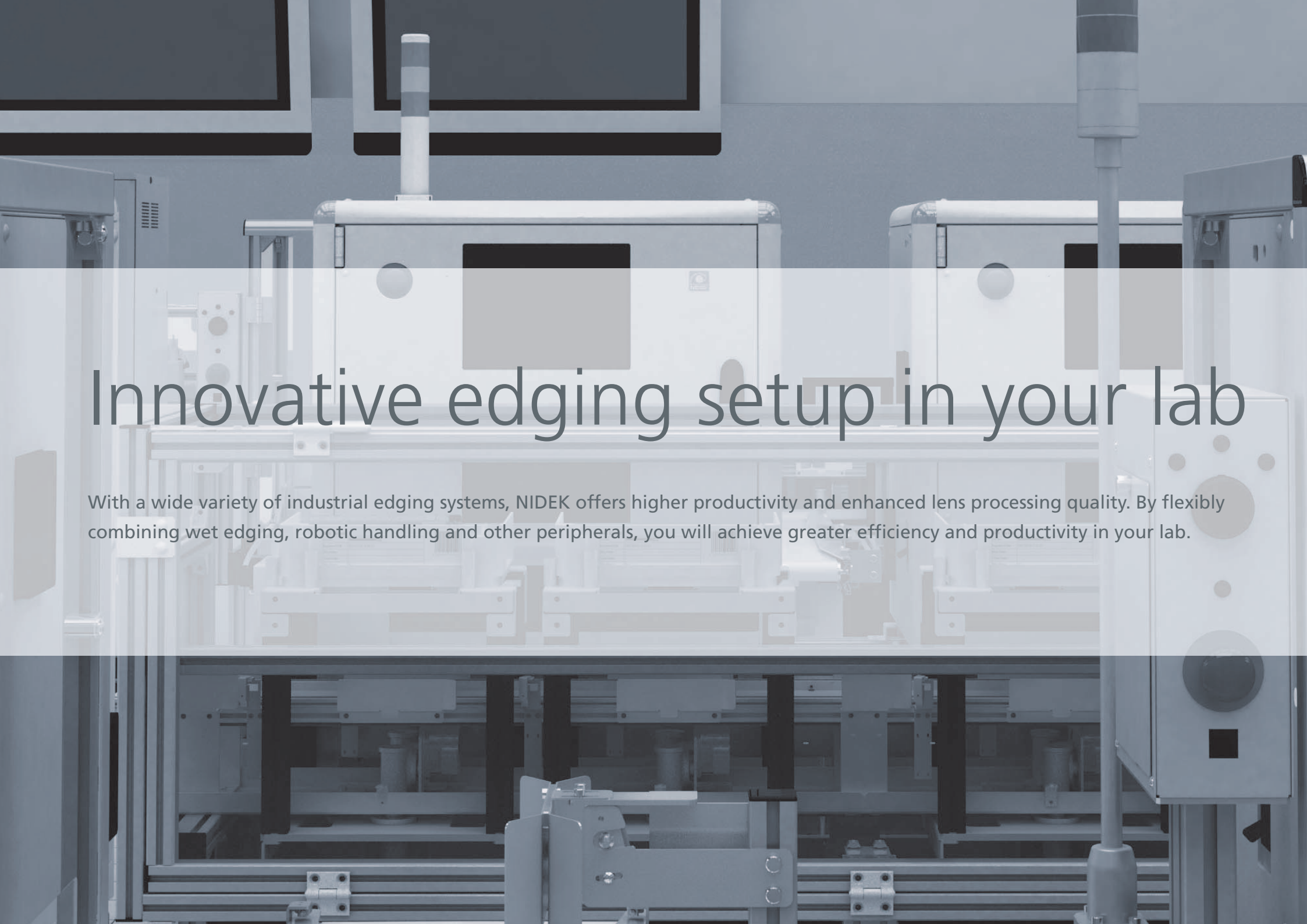
Product Guide




THE ART OF EYE CARE



Innovative edging setup in your lab

With a wide variety of industrial edging systems, NIDEK offers higher productivity and enhanced lens processing quality. By flexibly combining wet edging, robotic handling and other peripherals, you will achieve greater efficiency and productivity in your lab.

Contents

System Edger SE-9090 series

Reliable wet industrial edger

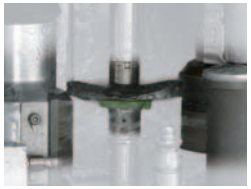
The SE-9090 series is a wet industrial edger which has been highly regarded in many labs throughout the world. Durable and accurate grinding results in high volume production with an aesthetically pleasing finish.

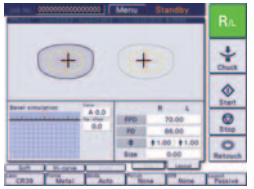
Faster grinding with dual spindle system

The unique dual spindle system incorporates a program which automatically controls grinding pressure at seven different levels to realize a high-speed processing.

User-friendly 10.4-inch SVGA color LCD touch panel

10.4-inch color LCD touch panel provides all the information needed for any procedures. The bevel simulation screen gives you the ability to precisely place the bevel for a guaranteed quality finish.


Dual spindle system


Layout screen

Simultaneous dual-surface lens measurement

The SE-9090 series simultaneously measures both front and rear surfaces of the lens for speedy operation.

Exclusive "3D-fit"

Exceptionally stable size accuracy and optimal fit can be achieved by NIDEK's exclusive "3D-fit" technology. By utilizing the LT-1200/LT-980, the frame circumference can be measured in 3D which results in a precise lens finish.


Dual-surface lens measurement


Parameter setting screen

Wheel configuration

	SE-9090 Supra			SE-9090 Supra L			
	PLA	PLB	PLB-8S	PLA	PLB	PLB-8	GLS
Plastic bevel	●	●	●	●	●	●	
Plastic bevel polish		●	●		●	●	
Plastic flat	●	●	●	●	●	●	
Plastic flat polish		●	●		●	●	
Glass bevel							●
Glass flat							●
Plastic high base curve bevel			●			●	
Step bevel			●				

Processable lens material

	SE-9090 Supra			SE-9090 Supra L			
	PLA	PLB	PLB-8S	PLA	PLB	PLB-8	GLS
CR-39	●	●	●	●	●	●	
High index plastic	●	●	●	●	●	●	
Polycarbonate	●	●	●	●	●	●	
Acrylic resin	●	●	●	●	●	●	
Trivex	●	●	●	●	●	●	
Polyurethane	●	●	●	●	●	●	
Glass							●

●: Available

High quality automatic polish safety beveling

To produce a brilliant finish for every job, the SE-9090 series offers automatic safety beveling and polish safety beveling as standard.

Advanced networking capability

The SE-9090 series is compatible with various communication protocols such as VCA (OMA) and NIDEK LAN, offering advanced networking capabilities.

High base curve processing technology (Available for type PLB-8 and PLB-8S)

On high base curve lenses, front and rear beveling are performed separately.
The height of the bevel can be controlled to achieve a "micro bevel" and highly customized profile.

Auto grooving*

Fully-automatic grooving and safety beveling are available.

Mirror polish (Flat/Bevel)

Auto grooving*

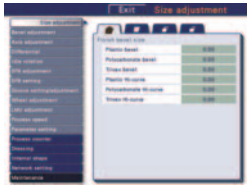
Step beveling (Available for type PLB-8S)

Step beveling makes prescription lens mounting on sunglass frames easy, which is traditionally difficult due to uneven eyewire profiles.
Maximum lens size: ø90 mm

Quick size adjustment

The touch-sensor calibration function (optional) largely reduces the time for size adjustment through revolutionary technology.

Step beveling screen



Adjustment screen

Minimum grinding size

		SE-9090 Supra	SE-9090 Supra L
Minimum grinding size with Pliable cup (standard) W x H	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 (PLB-8S: ø36.0 x 23.0 mm)	ø34.0 x 21.0 mm (PLB-8: ø36.0 x 23.0 mm)
	Safety beveling (bevel)	ø35.6 x 22.6 mm (PLB-8S: ø37.6 x 24.6 mm)	ø35.6 x 22.6 mm (PLB-8: ø37.6 x 24.6 mm)
	High base curve beveling	PLB-8S: ø37.9 x 24.4 mm	PLB-8: ø37.9 x 24.4 mm
	High base curve step beveling	PLB-8S : ø37.9 x 24.4 mm	
	Grooving*	ø32.0 x 19.0 mm (PLB-8S: ø32.0 x 20.0 mm)	ø32.0 x 19.0 mm

*Grooving is available for the SE-9090 Supra L only when connected to the AHM-1000 Supra.

Auto Edging System AES series

Efficient high volume lens processing in minimal space

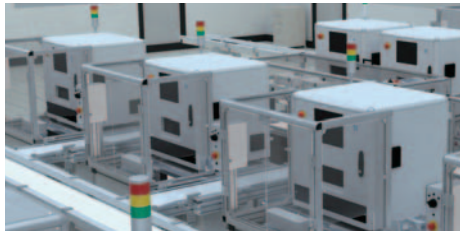
Single unit system

Simple, compact automation system for small lab/shop

AES-1000S
· System Edger SE-9090 Supra / Supra L
· Robotic Handling Unit RHU-1000S (stacker type)

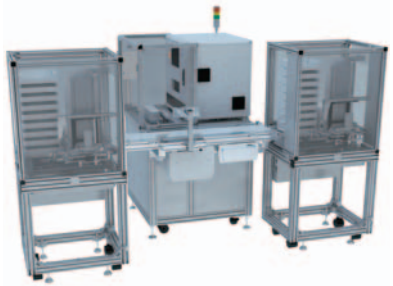
AES-1000CB
· System Edger SE-9090 Supra / Supra L
· Robotic Handling Unit RHU-1000CB (conveyor belt type)

AES-1000CB Stacker set
· AES-1000CB
· Stacker/Destacker



AES-1000S
800 (W) x 1,185 (D) x 1,683 (H) mm

AES-1000CB
1,207 (W) x 1,128 (D) x 1,683 (H) mm



AES-1000CB Stacker set
1,395 (W) x 2,575 (D) x 1,683 (H) mm

Combination unit system

Highly-efficient drilling/grooving unit combination system

AES-1500S
· System Edger SE-9090 Supra / Supra L
· Auto Drilling Unit AHM-1000 Supra
· Robotic Handling Unit RHU-1500S (stacker type)

AES-1500CB
· System Edger SE-9090 Supra / Supra L
· Auto Drilling Unit AHM-1000 Supra
· Robotic Handling Unit RHU-1500CB (conveyor belt type)

AES-1500CB Stacker set
· AES-15000CB
· Stacker/Destacker

AES-1500S
1,300 (W) x 1,185 (D) x 1,683 (H) mm

AES-1500CB
1,500 (W) x 1,242 (D) x 1,683 (H) mm

AES-1500CB Stacker set
2,944 (W) x 1,312 (D) x 1,683 (H) mm

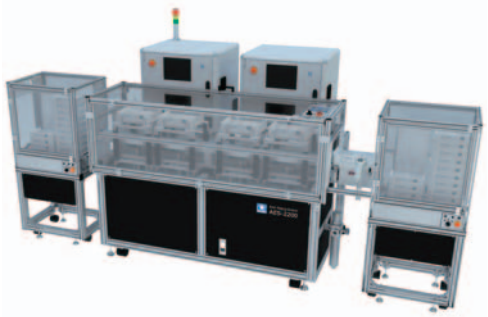
Double units system

Innovative in-line industrial edging system with a dual-arm robot

AES-2200
· System Edger SE-9090 Supra / Supra L (2 units)
· Robotic Handling Unit RHU-2200

AES-2200 Stacker set
· AES-2200
· Stacker/Destacker

AES-2200
2,036 (W) x 1,052 (D) x 1,714 (H) mm



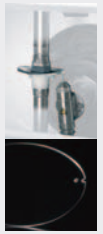
AES-2200 Stacker set
3,480 (W) x 1,052 (D) x 1,714 (H) mm

Auto Drilling Unit

AHM-1000 Supra

Automatic 3D hole drilling and grooving for the SE-9090 Supra series

» Automatic 3D hole drilling according to the spherical surface curve of the lens
» Precise grooving with tilt function for half-rimless jobs
» 10.4-inch LCD touch panel for easy operation



Robotic Handling Unit

RHU series

RHU-1000/RHU-1500
RHU-1000: Compatible with the SE-9090 Supra / Supra L
RHU-1500: Compatible with the SE-9090 Supra / Supra L and AHM-1000 Supra

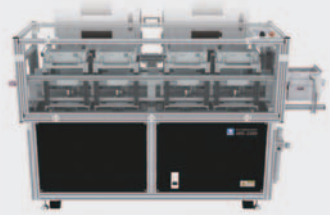
Type S

Type CB

» Automatic lens handling
» Two types of lens feeders, type S (stacker) and type CB (conveyer belt)
» High-speed conveyance
» Great adaptability for any edging laboratory
» Easy operation and maintenance

RHU-2200
Compatible with 2 units of the SE-9090 Supra / Supra L

» High-speed processing
» Space saving
» Easy setup of full automation
» Double arm mechanism
» Tray lifter



Satellite Tracer

Automatic 3D binocular tracing with variable fulcrum stylus

A variable fulcrum stylus keeps the axis angle perpendicular to the frame at any height. A unique 3D mechanism digitizes binocular measurement of 1,000 points of reference per eye.

Job creatable industrial tracer

LT-1200

Precise measurement around all curves

The LT-1200 incorporates an advanced tracing mechanism that operates with 3D precision on all frames regardless of their degree of curvature.

Composite tracing

Composite tracing measures FPD/DBL and frame wrap angle along with frame shape to calculate all frame data automatically.

LCD color touch screen

The large 10.4-inch color LCD screen allows easy job data input.

Multifunction industrial and web tracer

As an industrial tracer, processing conditions and layout data can be easily transmitted to any server computer and/or lens edger. The LT-1200 can also be used as a web tracer without a computer.

Basic 3D tracer

LT-980

Concise measurement for accurate lens fit

Tracing is the essential foundation for well-constructed eyeglasses. The LT-980 delivers ultimate fit for eyewear.

Multifunction industrial and web tracer

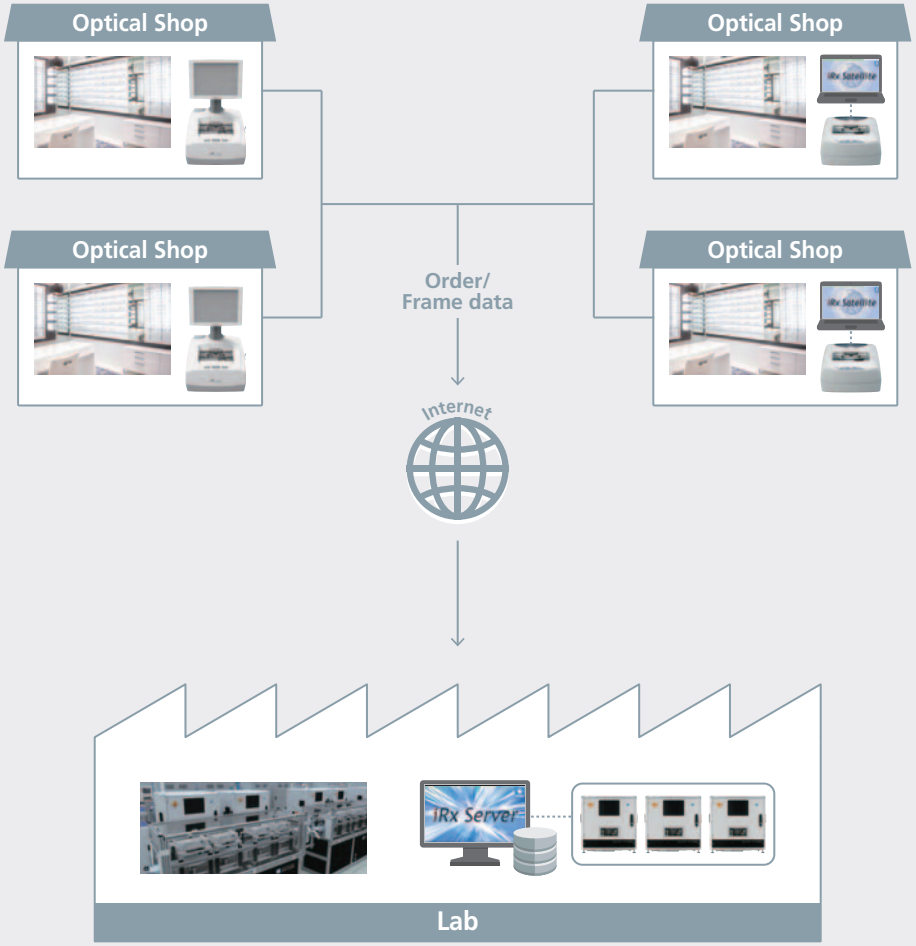
As an industrial tracer, the LT-980 can be connected to any server computer and/or lens edger to send full frame trace data. In addition, it can be used as a web tracer with the use of iRx Satellite.

Built-in accessory storage space

The LT-980 has a convenient built-in ergonomic storage compartment for storing accessories safely.

Remote tracing for lab operation

Internet remote tracing by NIDEK satellite tracers and lens edgers is the best solution with minimal capital investment. Our "3D-fit" technology provides high quality lens-to-frame first-time-fit, which is crucial to accurate and precise remote tracing.



Server software/system

NIDEK server software

Pattern/job management software iRx Server is dedicated database software that manages frame pattern data and job data used for edging lenses. It offers smooth operation in a remote central edging lab.

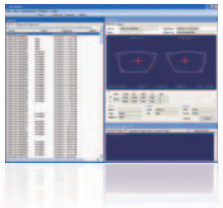
Server software for lab

iRx Server

Practical management of job and pattern

Software for data communication from retail locations

iRx Satellite



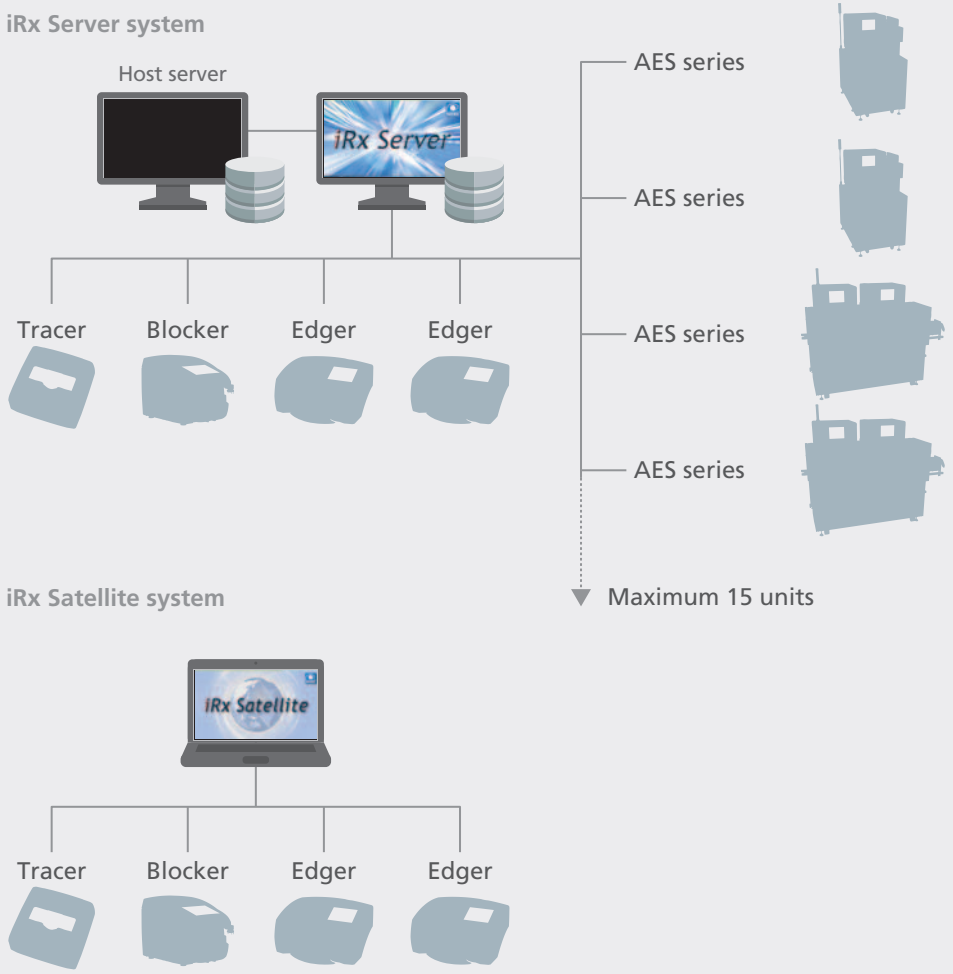
Internet remote tracing system with iRx Server

	iRx Server	iRx Satellite
Editable items	Shape, Hole, Design cut, Partial grooving/beveling, Facet, Master file	Shape, Hole, Design cut, Partial grooving/beveling, Facet
Operation		
Job	Searching, editing, copying, deleting Creating a pattern from a job Displaying a communication log Importing/exporting in text / VCA format Maximum number of jobs: 100,000	Searching, editing, copying, deleting Creating a pattern from a job Maximum number of jobs: 30,000
Pattern	Searching, editing, copying, deleting Creating a job from patterns Converting from DXF file format	Searching, editing, copying, deleting Creating a job from patterns
Printing	Job ticket, Job list, Pattern detail, Pattern list	Job ticket, Pattern detail
Backup	Auto or manual	←
Adjustment of shape display size	Available	←

Available functions differ according to usage.

iRx system

iRx Server used in combination with NIDEK equipment creates a simple and complete package of Internet remote tracing system, using only conventional Internet access.



Functions

Wheel configuration

	SE-9090 Supra			SE-9090 Supra L			
	PLA	PLB	PLB-8S	PLA	PLB	PLB-8	GLS
Plastic bevel	●	●	●	●	●	●	
Plastic bevel polish		●	●		●	●	
Plastic flat	●	●	●	●	●	●	
Plastic flat polish		●	●		●	●	
Glass bevel							●
Glass flat							●
Plastic high base curve bevel			●			●	
Step bevel			●				

●: Available

Processable lens material

	SE-9090 Supra			SE-9090 Supra L			
	PLA	PLB	PLB-8S	PLA	PLB	PLB-8	GLS
CR-39	●	●	●	●	●	●	
High index plastic	●	●	●	●	●	●	
Polycarbonate	●	●	●	●	●	●	
Acrylic resin	●	●	●	●	●	●	
Trivex	●	●	●	●	●	●	
Polyurethane	●	●	●	●	●	●	
Glass							●

Minimum grinding size

		SE-9090 Supra	SE-9090 Supra L
Minimum grinding size with Pliable cup (standard) W x H	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 (PLB-8S: ø36.0 x 23.0 mm)	ø34.0 x 21.0 mm (PLB-8: ø36.0 x 23.0 mm)
	Safety beveling (bevel)	ø35.6 x 22.6 mm (PLB-8S: ø37.6 x 24.6 mm)	ø35.6 x 22.6 mm (PLB-8: ø37.6 x 24.6 mm)
	High base curve beveling	PLB-8S: ø37.9 x 24.4 mm	PLB-8: ø37.9 x 24.4 mm
	High base curve step beveling	PLB-8S: ø37.9 x 24.4 mm	–
	Grooving*	ø32.0 x 19.0 mm (PLB-8S: ø32.0 x 20.0 mm)	ø32.0 x 19.0 mm
Minimum grinding size with mini cup (optional) W x H	Flat edging	ø22.0 x 17.4 mm	←
	Bevel edging	ø23.6 x 19.0 mm	←
	Safety beveling (flat)	ø24.0 x 19.4 mm (PLB-8S: ø26.0 x 21.4 mm)	ø24.0 x 19.4 mm (PLB-8: ø26.0 x 21.4 mm)
	Safety beveling (bevel)	ø25.6 x 21.0 mm (PLB-8S: ø27.6 x 23.0 mm)	ø25.6 x 21.0 mm (PLB-8: ø27.6 x 23.0 mm)
	High base curve beveling	PLB-8S: ø27.9 x 22.8 mm	PLB-8: ø27.9 x 22.8 mm
	High base curve step beveling	PLB-8S: ø27.9 x 23.9 mm	–
	Grooving*	ø22.0 x 18.0 mm (PLB-8S: ø22.0 x 20.0 mm)	ø22.0 x 19.0 mm

*Grooving is available for the SE-9090 Supra L only when connected to the AHM-1000 Supra.

Specifications

SE-9090 Supra / Supra L

Model	SE-9090 Supra	SE-9090 Supra L
Grinding system	Double spindle system, Patternless	←
Mode	Beveling (automatic, guided, safety beveling, special safety beveling, polishing*1) Flat edging (polishing, safety beveling, grooving) High base curve beveling (type PLB-8S only) Step bevel (type PLB-8S only) Soft processing	Beveling (automatic, guided, safety beveling, special safety beveling, polishing*2) Flat edging (polishing, safety beveling) High base curve beveling (type PLB-8 only) Soft processing
Setting range FPD PD 1/2PD Optical center height Size	 30.00 to 99.50 mm (0.01 mm increments) 30.00 to 99.50 mm (0.01 mm increments) 15.0 to 49.75 mm (0.01 mm increments) 0 to ±15.00 mm (0.01 mm increments) 0 to ±9.95 mm (0.01 mm increments)	←
Water supply system	Pump circulation or direct connection to tap water	←
Interface	RS-232C - 3 ports 1 port for connection with a barcode scanner 1 port for connection with a computer or blocker 1 port for connection with the robotic handling unit USB - 1 port LAN - 1 port	←
Power supply	200 to 230 V AC, 50/60 Hz	←
Power consumption	2.5 kVA	←
Dimensions/mass	600 (W) x 517 (D) x 611 (H) mm / 118 kg 23.6 (W) x 20.4 (D) x 24.1 (H)" / 260 lbs.	←
Standard accessories	Coupler, Hose band, Duct, Duct adapter, Power cord, Hexagonal wrench (2 mm, 2.5 mm, 5 mm, 6 mm), Dressing stick for finishing wheel, Compound kit, Splatter guard, Key for front cover, Wrench for wheel replacement, Wrench for grooving wheel replacement, Ferrite core	Coupler, Hose band, Duct, Duct adapter, Power cord, Hexagonal wrench (2 mm, 2.5 mm, 5 mm, 6 mm), Dressing stick for finishing wheel, Dressing stick for roughing wheel for glass lenses (type GLS only), Splatter guard, Key for front cover, Adjustable wrench, Ferrite core
Optional accessories	Barcode scanner, Pump and tank, Pliable cup set, Mini cup set, Pliable cup box, Mini cup box, USB flash drive, Touch sensor calibration jig	←

*1 Available for the type PLB and PLB-8S

*2 Available for the type PLB and PLB-8

Specifications

RHU series

Model	RHU-1000S, RHU-1000CB	RHU-1500S, RHU-1500CB	RHU-2200
Combinable instruments	SE-9090 Supra / Supra L	SE-9090 Supra / Supra L and AHM-1000 Supra	Two SE-9090 Supra / Supra L
Applicable lenses			
Maximum allowable diameter	ø80 mm (blank lenses)	←	ø98 mm (blank lenses)*1
Minimum allowable diameter	ø20 mm (finished lenses)	←	ø20 mm (finished lenses)*1
Maximum allowable thickness	17 mm (edge thickness of concave lenses) 10 mm (thickness at the center of convex lenses) 14 mm (overall thickness of convex lenses)	←	Maximum thickness at suction point: 10 mm Maximum whole thickness in the suction axis direction: 17 mm (in normal transfer mode), 27 mm (in high base curve lens transfer mode)*1
Positive pressure			
Used fluid	Dry air	←	←
Connecting method	One-touch joint of ø10 mm	←	←
Max. flow rate	70 liters/minute or more	←	140 liters/minute or more
Supply pressure	0.45 to 0.80 MPa (lowered to 0.40 to 0.45 MPa by the regulator)	←	←
Applicable barcodes			
Method	UPC-A, UPC-E, UPC-D3, EAN-13, EAN-8, CODE39, CODE128, CODEBAR (NW7), Standard 2 of 5, Interleaved 2 of 5 (ITF), JAN, CODE 93 (RHU-1000CB)	UPC-A, UPC-E, UPC-D3, EAN-13, EAN-8, CODE39, CODE128, CODEBAR (NW7), Standard 2 of 5, Interleaved 2 of 5 (ITF)	CODE39, Interleaved 2 of 5 (ITF), UPC/EAN/JAN, NW-7 (CODEBAR), CODE128, CODE93, COOP 2 of 5 (NEC 2 of 5), Standard 2 of 5 (Industrial 2 of 5)
Line width	0.2 mm or more	0.2 mm or more	0.2 mm or more
Power supply	200 to 230 V AC, 50/60 Hz	←	←
Power consumption	600 VA (single use) 3.1 kVA (including the SE-9090 Supra / Supra L)	600 VA (single use) / 3.0 kVA*2	300 VA (single use) 5.3 kVA (including two SE-9090 Supra / Supra L)
Dimensions/mass	800 (W) x 1,185 (D) x 1,472 (H) mm / 220 kg (RHU-1000S) 1,207 (W) x 1,128 (D) x 1,472 (H) mm / 185 kg (RHU-1000CB) 31.5 (W) x 46.7 (D) x 58.0 (H)" / 485 lbs. (RHU-1000S) 47.5 (W) x 44.4 (D) x 58.0 (H)" / 407 lbs. (RHU-1000CB)	1,300 (W) x 1,185 (D) x 1,472 (H) mm / 250 kg (RHU-1500S) 1,500 (W) x 1,242 (D) x 1,472 (H) mm / 260 kg (RHU-1500CB) 51.2 (W) x 46.7 (D) x 58.0 (H)" / 550 lbs. (RHU-1500S) 59.1 (W) x 48.9 (D) x 58.0 (H)" / 573 lbs. (RHU-1500CB)	2,036 (W) x 1,052 (D) x 1,206 (H) mm / 195 kg (RHU-2200) 80.2 (W) x 41.4 (D) x 47.5 (H)" / 430 lbs. (RHU-2200)
Standard accessories	RS-232C cable, Drain hose (RHU-1000CB/S)	RS-232C cable, Drain hose	RHU-2200: Emergency stop button hole masking (for SE-9090 Supra), EMG short cable (for SE-9090 Supra), Wrench, Thin wrench
Optional accessories	Trays (RHU-1000S)	Trays (RHU-1500S)	–

*1 These are not processing limits of the SE-9090 Supra / Supra L.

*2 Including the SE-9090 Supra / Supra L and AHM-1000 Supra

AHM-1000 Supra

Drilling	
Hole diameter	ø0.8 to 10.0 mm (0.1 mm increments)
Hole depth	6 mm or less
Range of hole milling	ø33.0 to 70.0 mm from the lens rotation axis
Direction of hole milling	Auto, Simple tilt, X Auto, Complex tilt
Slotted hole width	ø0.8 to 10.0 mm (0.1 mm increments)
Slotted hole depth	6 mm or less
Slotted hole length	20 mm or less
Grooving	
Groove width	0.6 to 1.2 mm (0.1 mm increments)
Groove depth	0 to 0.8 mm (0.1 mm increments)
Range	Maximum radius: 42.0 mm (ø84.0 mm)
Mode	Auto, Guided
Power supply	200 to 240 V AC, 50/60 Hz
Power consumption	300 VA (excluding the pump and tank) 420 VA (including the pump and tank)
Dimensions/mass	440 (W) x 520 (D) x 611 (H) mm / 64 kg 17.3 (W) x 20.5 (D) x 24.1 (H)" / 141 lbs.
Standard accessories	Drill bit, Grooving cutter, Lens adapter and lens clamp for half-eye lenses, Calibration jig, Calibration jig for grooving, Coupler, Hose band, Duct, Duct adapter, Power cord, Hexagonal key wrench, Wrench, Fuse, Communication cable, Calibration jig for drilling
Optional accessories	Circulation pump and tank, Barcode scanner, Drill bit (ø1.0, 1.2, 1.6), Grooving wheel, Lens adapter and lens clamp for mini cups

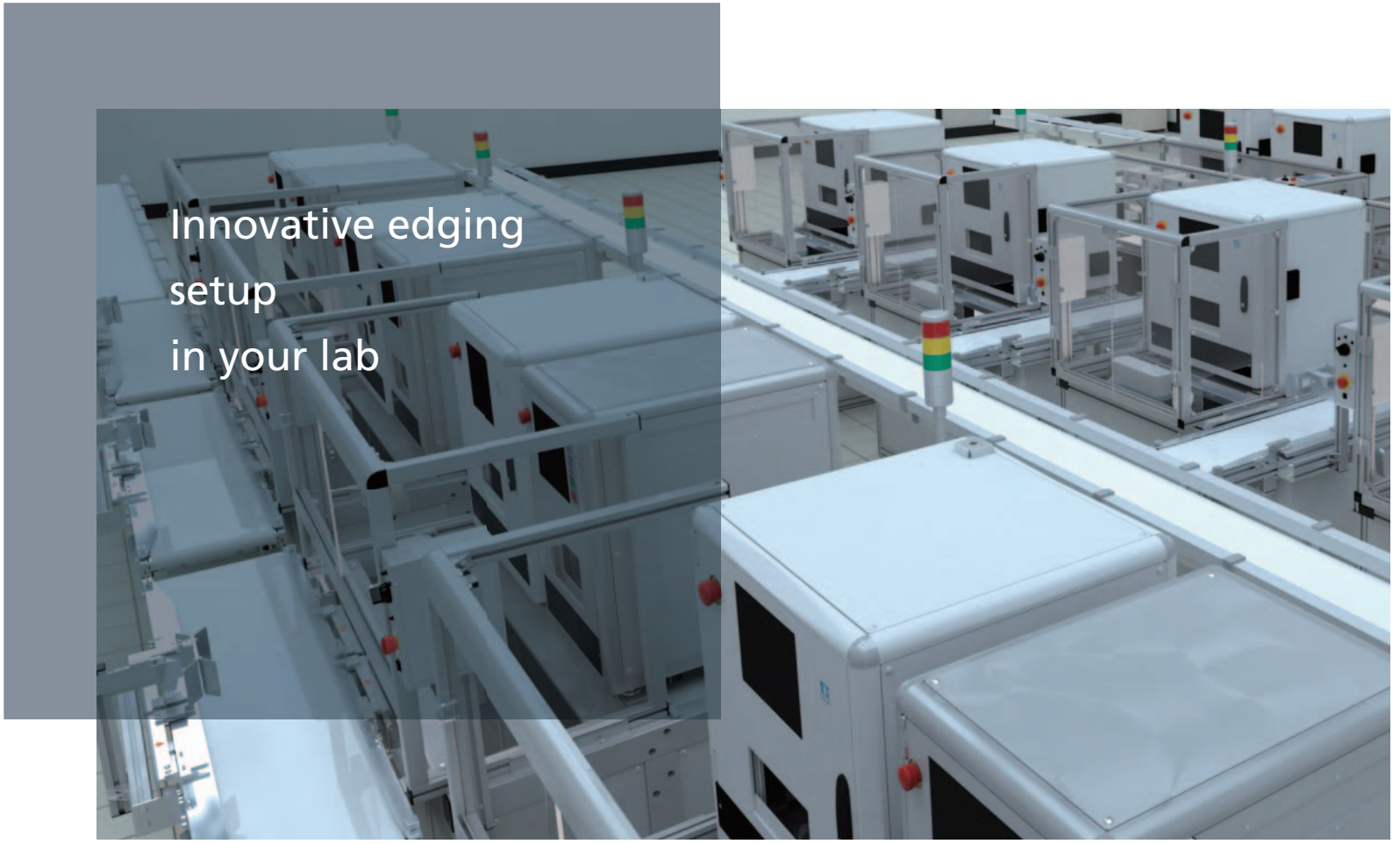
Stacker/Destacker

Model	Stacker/Destacker
Operation	Stacker mode, Destacker mode
Combinable instruments	RHU-1000CB, RHU-1500CB, RHU-2200
Positive pressure	
Used fluid	Dry air
Max. flow rate	3 liters/minute or more
Usual pressure	0.40 to 0.45 MPa
Connecting method	One-touch joint of ø10 mm
Tray	
Number of stackable trays	Up to 8 trays
Loading mass of clamp arms	Up to 6 kg
Power supply	200 to 240 V AC, 50/60 Hz
Power consumption	120 VA
Dimensions/mass	720 (W) x 575 (D) x 1,563 (H) mm / 85 kg 28.3 (W) x 22.6 (D) x 61.5 (H)" / 187 lbs.
Standard accessories	HU5OP-1 connecting parts (union tee, Y union tee, air tube, and air valve), Power cord
Optional accessories	Sub-conveyor

Specifications

LT-1200/LT-980

Model	LT-1200	LT-980
Tracing method	Automatic 3D binocular tracing	←
Measurement range Frame Pattern	 Shape width : 36 to 85 mm Shape height : 18.4 to 66 mm Frame horizontal width: 113 to 180 mm ø22 to 74 mm (15.5 to 66 mm vertically)	 ←
Measurement item	Lens shape, FPD, 3D circumference (2D circumference during pattern and dummy lens tracing), Frame tilt angle, Frame curve	←
Measuring points	1,000 points	←
Frame clamping	One-touch automatic clamping	←
Setting of stylus	Switchable between automatic and semiautomatic	←
Tracing time Frame tracing Pattern tracing	 30 seconds or less (automatic binocular tracing using calibration jig) 20 seconds or less (tracing using calibration jig)	 ←
Interface	RS-232C - 2 ports 1 port for connection with a barcode scanner 1 port for connection with a computer or lens edger USB - 1 port LAN - 1 port	RS-232C - 2 ports 1 port for connection with a barcode scanner 1 port for connection with a computer or lens edger USB - 1 port
Power supply	100 to 120 V AC / 230 V AC, 50/60 Hz	←
Power consumption	70 VA	←
Dimensions/mass	320 (W) x 320 (D) x 480 (H) mm / 14 kg 12.6 (W) x 12.6 (D) x 18.9 (H)" / 31 lbs.	315 (W) x 300 (D) x 155 (H) mm / 7 kg 12.4 (W) x 11.8 (D) x 6.1 (H)" / 15 lbs.
Standard accessories	Accessory case, Spare fuse, Hexagonal wrench, Stylus cover, Standard pattern, Pattern setting unit, Standard frame, Frame support attachment, Stylus pen, USB driver CD for Windows, RS-232C cable (3 m), USB cable (1 m), Power cord	Spare fuse, Hexagonal wrench, Stylus cover, Standard pattern, Pattern setting unit, Standard frame, Frame support attachment, USB driver CD for Windows, RS-232C cable (3 m), USB cable (1 m), Power cord, Dust cover
Optional accessories	Barcode scanner, RS-232C cable (5 m, 10 m), USB cable (3 m, 5 m)	←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