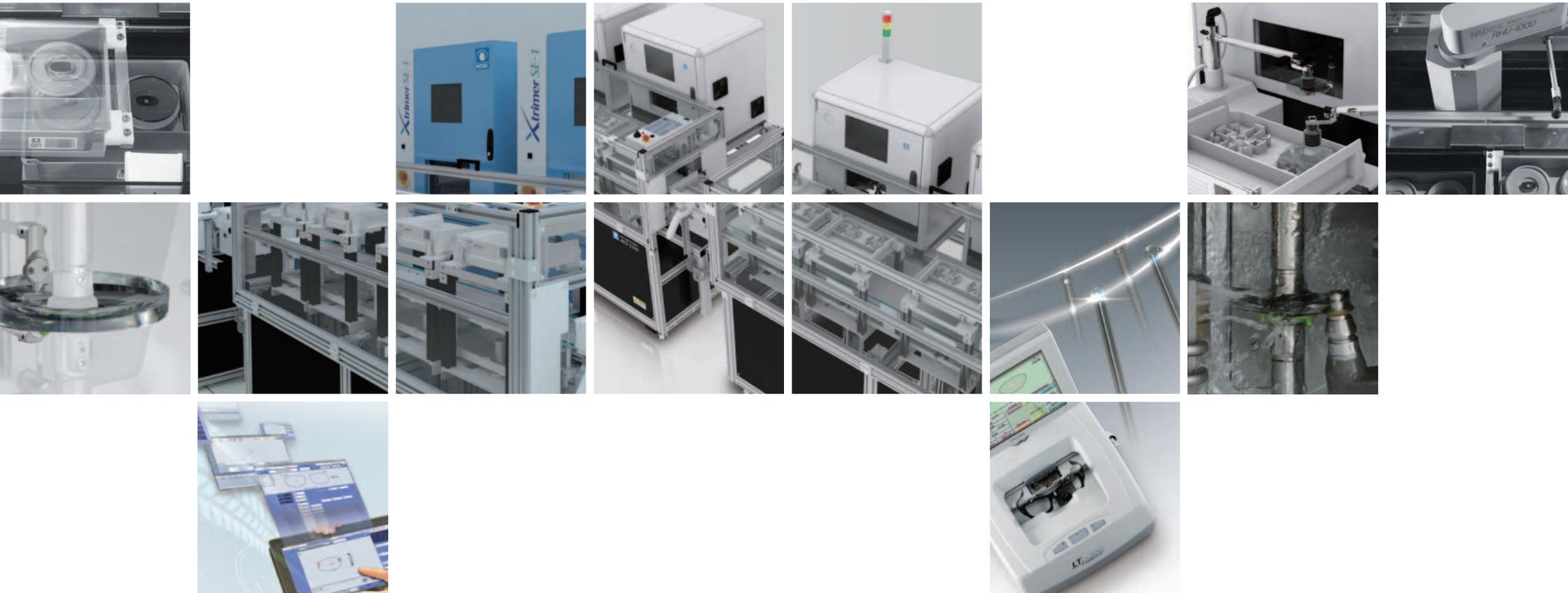
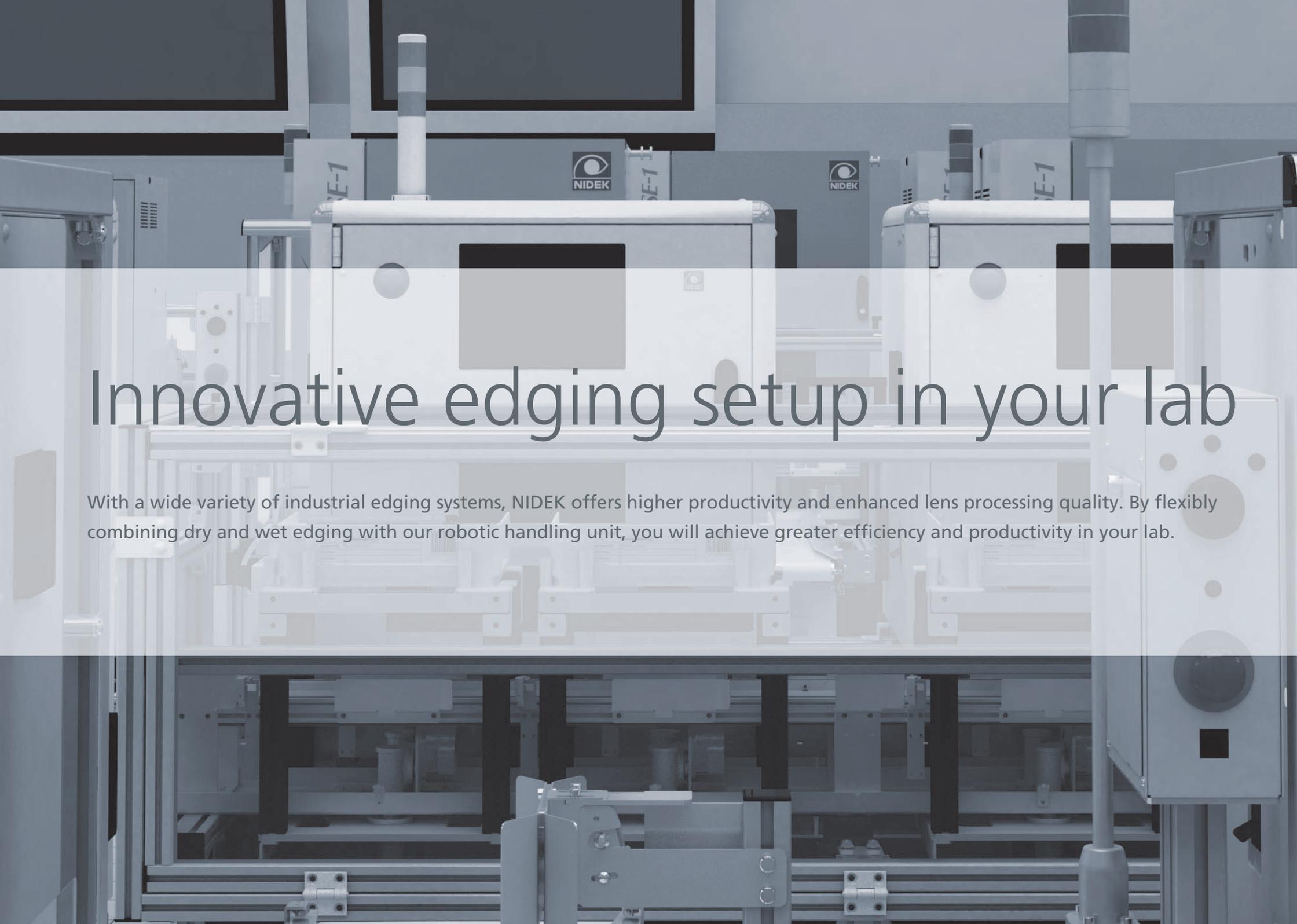




Industrial Lens Edging

Product Guide



A row of industrial edging machines, likely for lens processing, in a laboratory or factory setting. The machines are white and grey, with the NIDEK logo visible on the front panels. The background shows more of the same equipment, creating a sense of a large-scale production environment. The lighting is bright and even, highlighting the metallic surfaces and the complex mechanical structures of the machines.

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 dry and wet edging with our robotic handling unit, you will achieve greater efficiency and productivity in your lab.



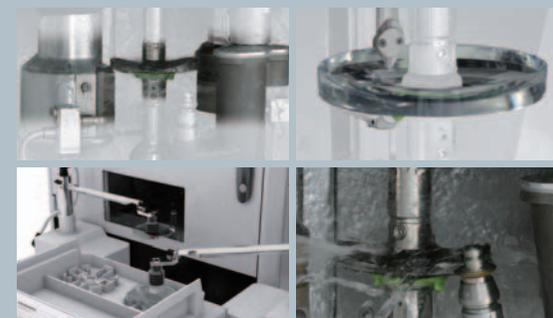
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System Edger SE-9090 series

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.

Simultaneous dual-surface lens measurement

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

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.

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 3-D which results in a precise lens finish.

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.

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

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.

Step beveling (type PLB-8S only)

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

Advanced networking capability

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

Auto grooving*

Fully-automatic grooving and safety beveling are available.

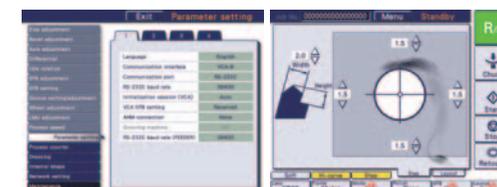
Quick size adjustment

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



Layout screen

Adjustment screen



Parameter setting screen

Step beveling screen
SE-9090 Supra (PLB-8S) only

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

Minimum grinding size

		SE-9090 Supra	SE-9090 Supra L
		Minimum grinding size with Pliable cup (standard) W x H	Flat edging
	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.

AES series Auto Edging System

Efficient high volume lens processing in minimal space

Single unit system



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



AES-1000CB
1,343 (W) x 1,131 (D) x 1,683 (H) mm



AES-1000CB Stacker set
1,408 (W) x 2,590 (D) x 1,683 (H) mm

AES-1000S/AES-1000CB

Simple, compact automation system for small lab/shop

- AES-1000S: SE-9090 Supra / Supra L + RHU-1000S (stacker type)
- AES-1000CB: SE-9090 Supra / Supra L + RHU-1000CB (conveyor belt type)
- AES-1000CB Stacker set: AES-1000CB + Stacker/Destacker



Combination unit system



AES-1500S
1,354 (W) x 1,185 (D) x 1,683 (H) mm



AES-1500CB
1,500 (W) x 1,329 (D) x 1,683 (H) mm



AES-1500CB Stacker set
3,002 (W) x 1,272 (D) x 1,683 (H) mm

AES-1500S/AES-1500CB

Highly-efficient drilling/grooving unit combination system

- AES-1500S: SE-9090 Supra / Supra L + AHM-1000 Supra* + RHU-1500S (stacker type)
- AES-1500CB: SE-9090 Supra / Supra L + AHM-1000 Supra* + RHU-1500CB (conveyor belt type)
- AES-1500CB Stacker set: AES-1500CB + Stacker/Destacker

*AHM-1000 Supra: Automatic 3-D drilling/grooving unit



Double units system



AES-2200
2,036 (W) x 1,061 (D) x 1,714 (H) mm



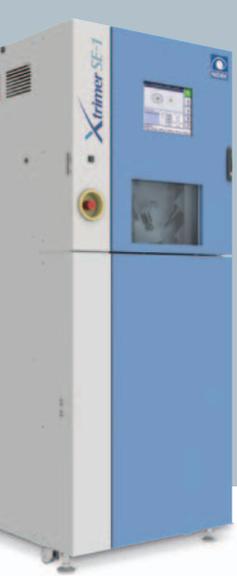
AES-2200 Stacker set
3,486 (W) x 1,061 (D) x 1,714 (H) mm

AES-2200

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

- AES-2200: 2 units of SE-9090 Supra / Supra L + RHU-2200
- AES-2200 Stacker set: AES-2200 + Stacker/Destacker





System Dry Edger Xtrimer SE-1

Compact, high speed dry edger

The Xtrimer SE-1 is a compact dry edger equipped with smooth six spindles. Specialized tools for each edge type achieve high speed processing. Selectable tools depending on the lens material also contributes to consistent quality.



Astonishing speed

The 5-axis engineering design, combined with a specialized high-speed motor, maximizes processing efficiency.

"3D-fit"

NIDEK's true "3D-fit" technology is complemented by an integrated mechanical cutting method, which vastly increases the first-time-fit ratio.

Small footprint

The minimal body size offers many options for placement inside the lab.

Maximum processing diameter

The Xtrimer SE-1 can process over $\phi 85$ mm lenses, which exceeds the limit of conventional lens edgers.

V tool layout system

The Xtrimer SE-1 can respond to the growing complexities of today's frame shapes and lens materials by utilizing an angled "V tool layout design". By using six unique spindles, the dry cutting process and milling method will be more efficient.

Multiple-shape capability

Incorporating six individual processing tools, the Xtrimer SE-1 expedites the roughing process for all organic lens materials, including Trivex and Polycarbonate. The unit completes the 3-D cutting cycle and is capable of making "tiltable bevel profiles" (inclined bevels) and drilling holes in a multitude of difficult shapes, all while providing an uncompromised finish.

3-D grooving and drilling function

Partial step beveling function

Inclined beveling function

T-bevel function

Side hole drilling function



Easy operation in various situations

By combining NIDEK's iRx Editor software* with tablet portability the Xtrimer SE-1 offers simple operation and customization at your finger tips. *iRx Editor is shape editing software used with the Xtrimer SE-1.

Intuitive screen design and clear graphics

Job data and processing conditions are displayed in high-resolution graphics on the large color LCD touch screen for easy job verification.

Detailed condition setting input

Processing conditions are customizable for each job to achieve the highest quality finish.



Tool type

Polishing wheel tool	●
Step processing tool	●
Finishing tool	●
Roughing tool for PLA	●
Roughing tool for PC/TRX	●
Drilling tool	●
Grooving tool	●

Processable lens material

CR-39	●
High index plastic	●
Polycarbonate	●
Acrylic resin	●
Trivex	●
Polyurethane	●
Glass	

●: Available

Minimum grinding size

Minimum grinding size with Pliable cup (standard) W x H	Flat edging	$\phi 32.0 \times 19.0$ mm
	Bevel edging	$\phi 33.6 \times 20.6$ mm
	Safety beveling (flat)	$\phi 34.0 \times 21.0$ mm
	Safety beveling (bevel)	$\phi 35.6 \times 22.6$ mm
	High base curve beveling	$\phi 33.6 \times 20.6$ mm
	High base curve step beveling	$\phi 35.6 \times 22.6$ mm
	Grooving	$\phi 32.0 \times 19.0$ mm

ADS series Auto Dry edging System

Enhance the Xtrimer SE-1 performance to the maximum

Single unit system



ADS-1000S
983 (W) x 1,519 (D) x 1,750 (H) mm



ADS-1000CB
1,392 (W) x 1,430 (D) x 1,750 (H) mm

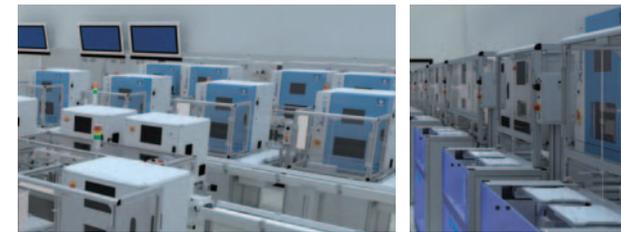


ADS-1000CB Stacker set
1,392 (W) x 2,153 (D) x 1,750 (H) mm

ADS-1000S/ADS-1000CB

High volume auto dry edging system in small footprint

- ADS-1000S: Xtrimer SE-1 + RHU-1000DS (stacker type)
- ADS-1000CB: Xtrimer SE-1 + RHU-1000DCB (conveyor belt type)
- ADS-1000CB Stacker set: ADS-1000CB + Stacker/Destacker



Double units system



ADS-2200
2,036 (W) x 1,308 (D) x 2,005 (H) mm



ADS-2200 Stacker set
3,486 (W) x 1,308 (D) x 2,005 (H) mm

ADS-2200

Dramatically-compact in-line auto dry edging system

- ADS-2200: 2 units of Xtrimer SE-1 + RHU-2200D
- ADS-2200 Stacker set: ADS-2200 + Stacker/Destacker



Satellite Tracer

Automatic dual 3-D tracing with variable fulcrum stylus

A variable fulcrum stylus keeps the axis angle perpendicular to the frame at any height. A unique 3-D 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 3-D 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

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 PC and/or lens edger. The LT-1200 can also be used as a web tracer without PC.

Basic 3-D 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

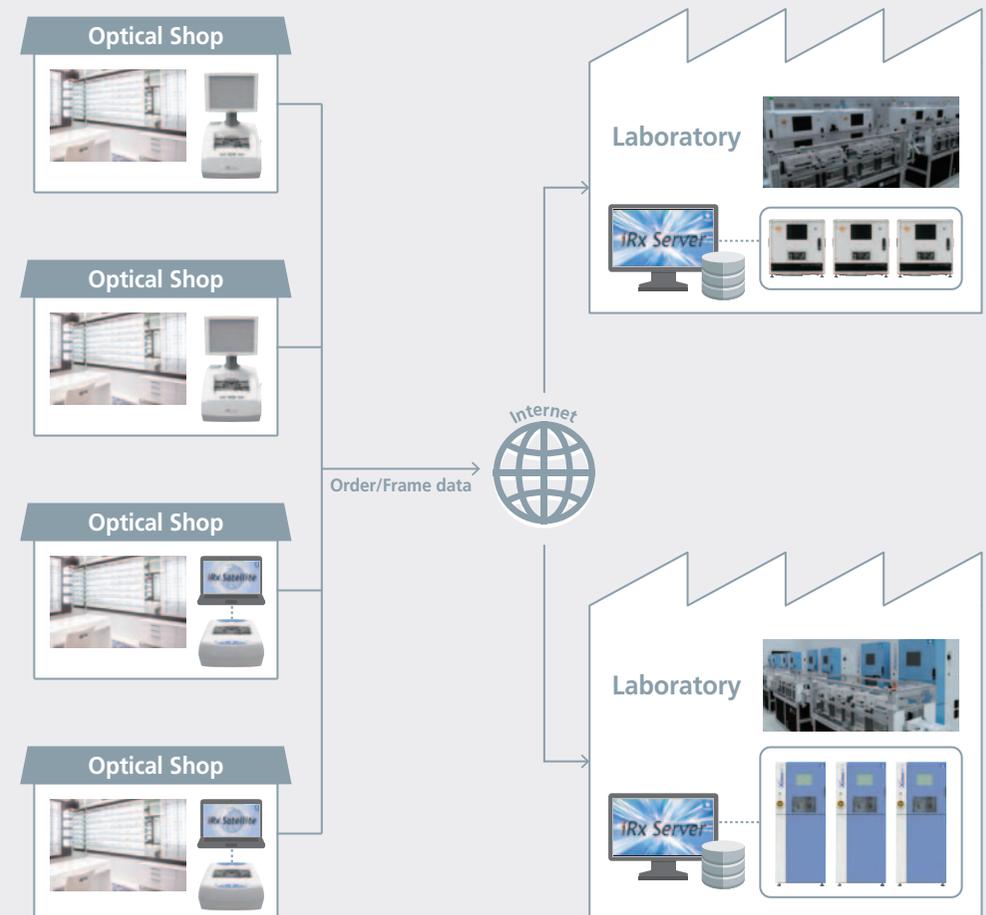
As an industrial tracer, the LT-980 can be connected to any server PC and/or lens edger to send full frame trace data. In addition, it can be used as a web tracer with the use of iRx Satellite.

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 without the need of a dedicated server. Our "3D-fit" technology provides high quality lens-to-frame first-time-fit, which is crucial to accurate and precise remote tracing.

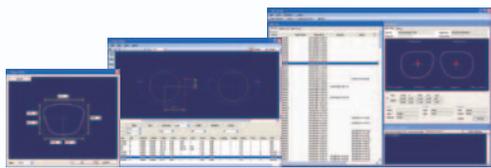


Server software/system

NIDEK server software

Pattern/job management software iRx Server is a 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

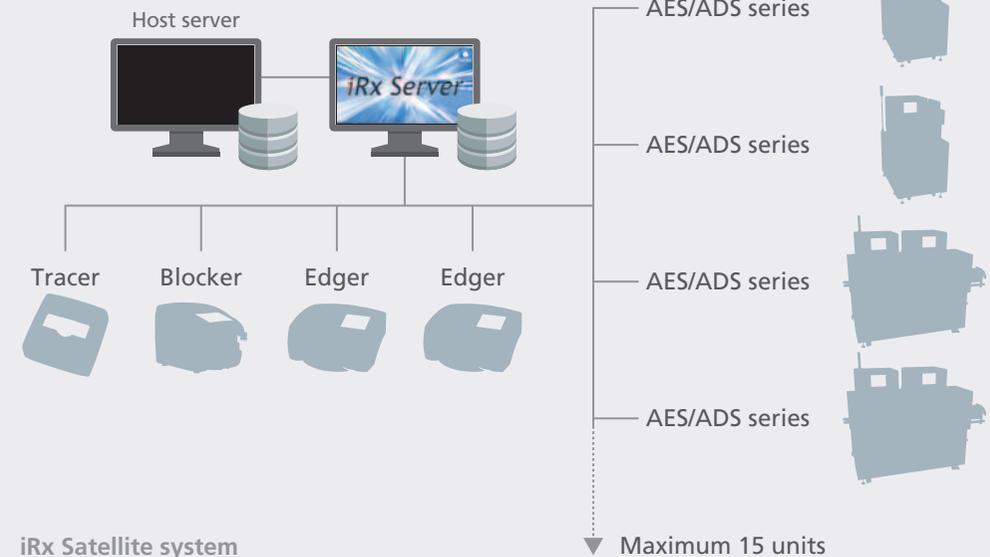
	iRx Server	iRx Satellite
Editable items	Shape, Hole, Design cut, Partial grooving/beveling, Facet, LMATID (only for Xtrimer SE-1), Master file	Shape, Hole, Design cut, Partial grooving/beveling, Facet, LMATID (only for Xtrimer SE-1)
Operation		
Job	Searching, editing, copying, deleting Creating a pattern 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	←

Some function availability differs according to the usages.

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.

iRx Server system



iRx Satellite system



Function comparison

Wheel configuration

	SE-9090 Supra			SE-9090 Supra L				Xtrimer
	PLA	PLB	PLB-8S	PLA	PLB	PLB-8	GLS	SE-1
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				Xtrimer
	PLA	PLB	PLB-8S	PLA	PLB	PLB-8	GLS	SE-1
CR-39	●	●	●	●	●	●		●
High index plastic	●	●	●	●	●	●		●
Polycarbonate	●	●	●	●	●	●		●
Acrylic resin	●	●	●	●	●	●		●
Trivex	●	●	●	●	●	●		●
Polyurethane	●	●	●	●	●	●		●
Glass							●	

●: Available

Minimum grinding size

	SE-9090 Supra	SE-9090 Supra L	Xtrimer SE-1	
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)	ø34.0 x 21.0 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)	ø35.6 x 22.6 mm
	High base curve beveling	PLB-8S: ø37.9 x 24.4 mm	PLB-8: ø37.9 x 24.4 mm	ø33.6 x 20.6 mm
	High base curve step beveling	PLB-8S: ø37.9 x 24.4 mm		ø35.6 x 22.6 mm
	Grooving*	ø32.0 x 19.0 mm (PLB-8S: ø32.0 x 20.0 mm)	ø32.0 x 19.0 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	30.00 to 99.50 mm (0.01 mm increments)	
PD	30.00 to 99.50 mm (0.01 mm increments)	
1/2PD	15.0 to 49.75 mm (0.01 mm increments)	
Optical center height	0 to ±15.00 mm (0.01 mm increments)	
Size	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 PC or blocker 1 port for connection with a barcode scanner 1 port for connection with the robotic handling unit LAN - 1 port USB - 1 port (for connection with a USB flash drive only)	←
Power supply	AC 200 to 230 V, 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

Xtrimer SE-1

Cutting system	Patternless
Mode	Beveling (automatic, guided, safety beveling, special safety beveling, polishing, high base curve, partial beveling, step bevel, partial step, T-bevel, inclined) Flat edging (polishing, safety beveling, grooving, partial grooving) Drilling (automatic, guided, side hole) Design cut 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	15.0 to 49.75 mm (0.01 mm increments)
Optical center height	0 to ±15.0 mm (0.01 mm increments)
Size	0 to ±9.95 mm (0.01 mm increments)
Water supply system	Water supply from the provided tank (5 liters) (no circulation)
Interface	RS-232C - 3 ports 1 port for connection with a PC or blocker 1 port for connection with a barcode scanner 1 port for connection with the robotic handling unit LAN - 1 port USB - 1 port (for connection with a USB flash drive only)
Power supply	AC 200 to 240 V, 50/60 Hz
Power consumption	1.0 kVA
Dimensions/Mass	700 (W) x 750 (D) x 1,750 (H) mm / 420 kg 27.6 (W) x 29.5 (D) x 68.9 (H)" / 926 lbs.
Standard accessories	Hexagon socket head cap screw, Brush, Key for front cover knob, Feedwater tank, Feedwater tank holder, Connection cable, Wrench (5.1 x 7 mm, 12 x 14 mm, 22 x 27 mm, 20 x 24 mm), Dummy cap, Tool protective cap, USB flash drive, iRx Editor software install-CD
Optional accessories	Startup kit, Drill bit (ø0.8, 1.0, 1.2), Barcode scanner kit, USB flash drive, Touch sensor calibration jig, Pliable cup box, Signal tower, Coolant, Clamping force adjustment kit, External dust collector power ON/OFF kit, Air consumption reduction kit

Specifications

RHU series

Model	RHU-1000S, RHU-1000CB	RHU-1000DS, RHU-1000DCB	RHU-1500S, RHU-1500CB	RHU-2200	RHU-2200D
Combinable instruments	SE-9090 Supra / Supra L	Xtrimer SE-1	SE-9090 Supra / Supra L and AHM-1000 Supra	Two SE-9090 Supra / Supra L	Two Xtrimer SE-1
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	AC 200 / 230 V, 50/60 Hz		←	←	
Power consumption	600 VA (single use) 3.1 kVA (including the SE-9090 Supra / Supra L) 1.6 kVA (including the Xtrimer SE-1)		600 VA (single use) / 3.0 kVA*2	300 VA (single use) 5.3 kVA (including two SE-9090 Supra / Supra L) 2.3 kVA (including two Xtrimer SE-1)	
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) 960 (W) mm x 1,497 (D) mm x 1,466 (H) mm / 220 kg (RHU-1000DS) 1,392 (W) mm x 1,397 (D) mm x 1,466 (H) mm / 185 kg (RHU-1000DCB) 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) 37.8 (W) x 58.9 (D) x 57.7 (H)" / 485 lbs. (RHU-1000DS) 54.8 (W) x 55.0 (D) x 57.7 (H)" / 407 lbs. (RHU-1000DCB)		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) 2,036 (W) x 706 (D) x 1,311 (H) mm / 170 kg (RHU-2200D) 80.2 (W) x 41.4 (D) x 47.5 (H)" / 430 lbs. (RHU-2200) 80.2 (W) x 27.8 (D) x 51.6 (H)" / 375 lbs. (RHU-2200D)	
Standard accessories	RS-232C cable, Drain hose (RHU-1000CB/S), Solenoid valve B (RHU-1000DCB/DS)		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 RHU-2200D: SE-1 connecting parts, interlock key (spare)	
Optional accessories	Trays (RHU-1000S)		Trays (RHU-1500S)	USB flash drive (RHU-2200D)	

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

*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	AC 200 to 240 V, 50/60 Hz
Power consumption	300 VA
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-1000DCB*, RHU-1000CB, RHU-1500CB, RHU-2200D, 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	AC 200 to 240 V, 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

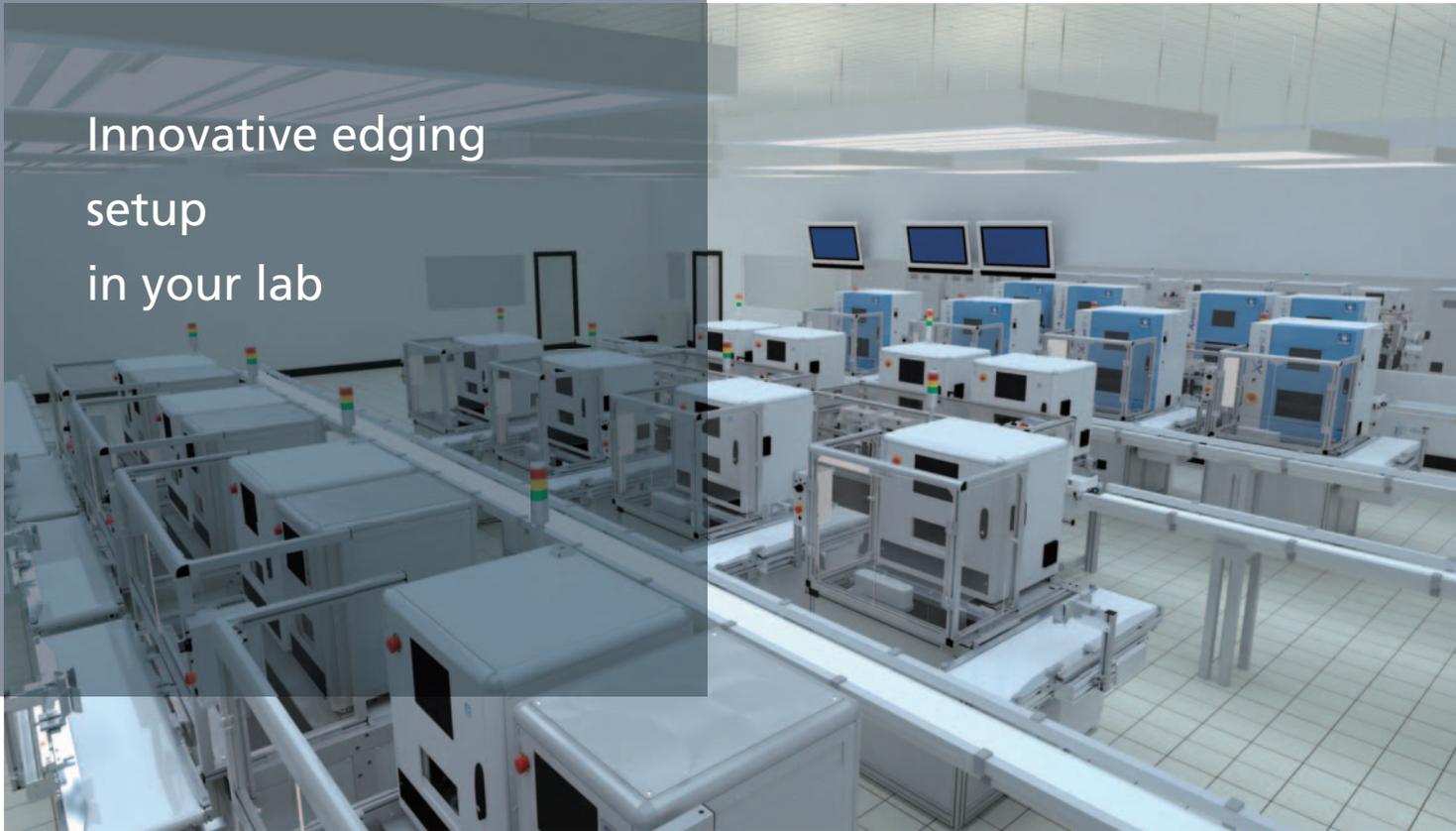
*Stacker mode only

Specifications

LT-1200/LT-980

Model	LT-1200	LT-980
Tracing method	Automatic 3-D binocular tracing	←
Measurement range		
Frame	Shape width : 36 to 85 mm Shape height : 18.4 to 66 mm Frame horizontal width: 113 to 180 mm	←
Pattern	ø22 to 74 mm (15.5 to 66 mm vertically)	
Measurement item	Lens shape, FPD, 3-D circumference (2-D 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	30 seconds or less (automatic binocular tracing using calibration jig)	←
Pattern tracing	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 PC or lens edger USB - 1 port (for connection with a PC) LAN - 1 port	RS-232C - 2 ports 1 port for connection with a barcode scanner 1 port for connection with a PC or lens edger USB - 1 port (for connection with a PC)
Power supply	AC 100 to 120 V / 230 V, 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, USB cable, Power cord	Fuse, Hexagonal wrench, Stylus cover, Standard pattern, Pattern setting unit, Standard frame, Frame support attachment, USB driver CD for Windows, RS-232C cable, USB cable, Power cord, Dust cover
Optional accessories	Barcode scanner, RS-232C cable, USB cable	←

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