Specifications and design are subject to change without notice.
Lab Edging Systems from NIDEK

Robotic Lab Edging Systems from NIDEK balance high productivity and the ultimate lens processing quality. Various configurations are possible with the SE-9090 Express+/SE-9090 Supra, AHM-1000 and RHU-1000/1500. For industrial labs of all sizes, NIDEK delivers superior comprehensive solutions to meet your lab business needs and growth strategy.

NIDEK Lab Edging Systems offer the most proven and time-tested technologies in lens finishing.

AES robotic series processes high base curve lenses for any frame. With the high-curve model (PLB-8) of the SE-9090 series, you can process high base curve lenses with our auto-handling system or as a stand alone unit.

The SE-9090 high-curve model processes front and rear bevel of high-curve lenses separately. It can control the height of the bevel, creating an option of either “micro bevel” or a highly customized bevel. The quality of this high curve bevel is far superior to that of dry edging technologies.

High-Curve Technology

High Quality Polishing

Our Lab Edging Systems offer an exclusive diamond luster polish finish. High-curve bevel, flat bevel and safety bevel can all be polished. This polished finish continues to be one of the most sought-after features of our finishing technology.

Cost Efficient

The SE-9090 Edger Series uses a diamond grinding wheel for all processing except for the drilling function. This saves on the cost of frequent toolblade change-out which often occurs with dry edging technologies.

High Size Stability

The SE-9090 Supra achieves the highest on-size stability via NIDEK’s exclusive “3D-fit” technology. The unit's touch-sensor calibration (optional) largely reduces time needed for size adjustment via a new, revolutionary technique (see page 4).

Minimum “B” Size

NIDEK Labs Edging Systems process minimum “B” size, as follows:
- Flat bevel processing: 19.0 mm
- Bevel processing: 20.6 mm
- High curve bevel: 24.4 mm
- Safety bevel for flat lenses: 21.0 mm
- Safety bevel for bevel lenses: 22.6 mm with the use of NIDEK original pliable blocks.

Internet Remote Tracing

NIDEK’s Internet Remote Tracing offers the best solution and does not even require a dedicated server.

Comprehensive, Automated Lens Processing Solutions

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The Ultimate Lens Edger for Labs

NIDEK has the most technologically advanced series of industrial lens edgers for high-volume production labs. This innovative equipment has a proven track record as reported by many of the top labs throughout the world. At the core of these systems is the SE-9090 series, which boasts NIDEK’s proprietary technology.

Key Features of SE-9090 series

- Faster grinding with dual spindle system
  The unique Dual Spindle System of the SE-9090 series incorporates a program which automatically controls grinding pressure at seven different levels.

- Simultaneous dual-side lens measurement
  The SE-9090 series simultaneously measures both front and rear sides of the lens for faster operation.

- High quality automatic polish safety beveling
  The SE-9090 series offers automatic safety beveling and polish safety beveling, paying the utmost attention to the aesthetic of beautiful lenses as a standard feature.

- Improved durability & accuracy
  The robust SE-9090 series platform supports powerful, industrial-strength servo drive motors linked to an advanced RISC CPU microprocessor.

- User-friendly 10.4-inch SVGA color LCD touch panel
  The large 10.4-inch SVGA color LCD touch panel provides all the information needed for all procedures. Bevel simulation can be observed, assuring a satisfying result.

- Exclusive 3D-fit
  3D-fit is a process management technology for high size accuracy of a lens. Optimal fit can be achieved depending on 3D circumference of frame with NIDEK tracers (LT-1000 / LT910).

- Advanced network capability
  The SE-9090 series is compatible with various communication protocols OMA-VCA, LAN, etc., offering advanced network capabilities.

- Data transmission
  Data Transmission using a barcode scanner (optional) simplifies communication procedures. This feature also saves processing time and reduces errors, to assure fast and high volume productivity.

- High-Base curve technology (PLB-8 Model)
  The SE-9090 series high-curve technology processes front and rear bevel of high-curve lens separately. It controls the height of the bevel, resulting in a “micro bevel” or a highly customized bevel.

E-9090 Supra

New generation edger offers grooving and step bevel function

- Additional Features
  - Auto grooving
  - Step bevel processing (type PLB-8 only)
  - High spec RISC CPU
  - Touch sensor calibration tool
  - Adjustment time is dramatically reduced with high calibration accuracy.

SE-9090 Express+

Standard model of SE-9090 series

AHM-1000

Automatic drilling and grooving for industrial labs

The AHM-1000 Unit provides automatic 3D drilling and 3D grooving for various frame styles. Combined with the RHU-1500 and SE-9090 Express+, the AHM-1000 offers automatic and continuous lens processing for labs in conveyor belt or stacker configurations.

- Key Features
  - Automatic 3D drilling perpendicular to front base curve of lenses
  - Progressive 3D grooving with tilting function for rimless frames
  - 10.4-inch LCD touch panel for easy operation

Drilling
Grooving
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Additional Features

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- Step bevel processing (type PLB-8 only)
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Key Features

- Automatic 3D drilling perpendicular to front base curve of lenses
- Progressive 3D grooving with tilting function for rimless frames
- 10.4-inch LCD touch panel for easy operation
The RHU-1000/1500, Robotic Handling Unit, offers lens conveyance automation for lens processing in industrial labs - all in a minimum footprint.

AES-1500S/CB
The SE-9090 Express+, AHM-1000 & RHU-1500 Combination System
The AES-1500 system is available with two different robotic handling units: stacker configuration (RHU-1500S) or conveyer belt configuration (RHU-1500CB). The optimal combination of the SE-9090 Express+’s proven technology, the AHM-1000’s 3D Drilling & Grooving, and the RHU-1500’s automated lens handling delivers the most reliable and efficient solution for lab business needs.

AES-1000S/CB
The SE-9090 Supra/Express+ & RHU-1000 Combination System
Available with the SE-9090 Supra or SE-9090 Express+, the AES-1000 system is offered with the RHU-1000, Robotic Handling Unit, in a stacker configuration (RHU-1000S) or a conveyer belt configuration (RHU-1000CB).

Key Features of AES series
- Great adaptability for any style edging lab
- Easy operation and maintenance
- Small footprint
- High-speed conveyance
- High-curve technology
The AES series processes high base curve lenses for the latest wrap frames.

Enhanced flexibility
Various configurations of the AES series can provide highly productive and efficient workflow for automated and continuous lens processing. The systems offer flexibility and can fit various floor plans and production areas which can easily be modified for expansion. Increased high quality finished lens throughput can be obtained without additional manpower, resulting in greater profitability.
The RHU-1000/1500, Robotic Handling Unit, offers lens conveyance automation for lens processing in industrial labs - all in a minimum footprint.

**The Ultimate Auto Edging System for Labs**

The AES-1500S/CB, AES-1000S/CB systems offer the optimal combination of the SE-9090 Express+'s proven technology, the AHM-1000's 3D Drilling & Grooving, and the RHU-1500’s automated lens handling delivers the most reliable and efficient solution for lab business needs.

**AES-1500S/CB**
The SE-9090 Express+, AHM-1000 & RHU-1500 Combination System
The AES-1500 system is available with two different robotic handling units: stacker configuration (RHU-1500S) or conveyer belt configuration (RHU-1500CB). The optimal combination of the SE-9090 Express+'s proven technology, the AHM-1000's 3D Drilling & Grooving, and the RHU-1500’s automated lens handling delivers the most reliable and efficient solution for lab business needs.

**AES-1000S/CB**
The SE-9090 Supra/Express+ & RHU-1000 Combination System
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Server software for Internet Remote Tracing

The iRx Server along with the use of NIDEK equipment creates a simple and complete package of internet remote tracing system, using only traditional internet access.

**iRx Server**

**Server software for lab**

**Features**

- Internet remote tracing system with internet ordering system
- Server function sends data to edger in a lab.
- Master file maintenance sends files from the LT-1000 to iRx satellite via Internet.
- 4 types of job entry methods
- Data import / export customize
- Data save for the Me 1200
  - The Me 1200 data such as Facet, Design Cut & Partial Grooving can be supported and saved to the server.
- Shape edit function
- Job & pattern management
- 3D-fit data communication supported

**iRx Satellite**

**Software for data communication from retail locations**

**Features**

- Internet remote entry software to iRx Server
  - PC with the Lt 910 tracer can be used as well as the LT-1000 tracer.
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  - Saves data for the the Me 1200
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Comprehensive Solution of NIDEK Lab Edging Systems

NIDEK’s internet remote tracing is the best solution, without the need for an installed dedicated server. NIDEK’s tracers and Lens Edgers by 3D-fit technology provide high quality “one-cut fit” lens-to-frame which is crucial to accurate and precise remote tracing.

**Satellite tracer**

**LT-1000**

**Satellite Tracer for labs and web-based tracer**

While conventional tracers can only acquire frame data, the LT-1000 satellite tracer, can create a job with frame and layout data and transmit to a server PC / lens edger, allowing simpler and more accurate operation for lab processing. It is most suitable as a job entry tracer for VCA server. It can also be connected to the Internet without a PC.

**Features**

- Ordering job can be sent to a Lab without the need of a computer (web-based tracer)
- Automatic 3D tracing with high precision
- Easy data input on LCD touch panel.
- Shape editor
- 3D-fit data communication supported
- High-curve frame angle verification function

**Lt 910**

**Satellite Tracer**

**Features**

- Automatic dual 3D tracing with high precision
- 3D-fit data communication supported

**3D-fit**

Highly precise processing size management technology of NIDEK. If frame curve is not same as bevel curve, 3D circumferences have small difference between frame and Lens, and lens does not fit the frame. In this case, some compensation is necessary. Before grinding, compensate the size based on the difference of circumference. (PAT)
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### Comprehensive Solution of NIDEK Lab Edging Systems

#### SE-9090 Series Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>Power supply</td>
<td>AC 230 V, 50 / 60 Hz</td>
</tr>
<tr>
<td>Interface</td>
<td>Ethernet: one port</td>
</tr>
<tr>
<td>Display</td>
<td>10.4-inch SVGA color LCD with touch panel</td>
</tr>
<tr>
<td>Setting range</td>
<td>0 to 30.0 mm (0.01 mm increments)</td>
</tr>
<tr>
<td>Grinding system</td>
<td>Flat edging</td>
</tr>
<tr>
<td>Model</td>
<td>Double spindle system, Patternless</td>
</tr>
<tr>
<td>Optional accessories</td>
<td>Wrench for wheel replacement, Wrench for grooving, Compound kit, Splatter guard, Key for the front cover, Water supply system, Optical center height, Fuse, Communication cable, Calibration jig for drilling, Specified table, Barcode scanner, Pump and tank, Dressing stick for roughing wheel of glass lenses, One-touch joint of 10 mm in diameter, 0.45 MPa or higher, 0.40 to 0.45 MPa by the regulator, 0.45 to 0.8 MPa by the regulator, 0.4 MPa by the regulator, Dry air</td>
</tr>
<tr>
<td>Dimensions / Mass</td>
<td>600 (W) x 517 (D) x 611 (H) mm / 118 kg</td>
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#### RHU-1000 Specifications

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<td>Power consumption</td>
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</tr>
<tr>
<td>Main power supply</td>
<td>AC 200 to 240 V, 50 / 60 Hz</td>
</tr>
<tr>
<td>Display</td>
<td>10.4-inch SVGA color display with touch panel</td>
</tr>
<tr>
<td>Minimum hole size (mm)</td>
<td>ø0.8 to 10.0 mm (0.1 mm increments)</td>
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| Wheel options    | *Available/

#### RHU-1500 Specifications

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<tr>
<td>Power consumption</td>
<td>600 VA (excluding the SE-9090 Supra) / 400 VA (excluding the pump and tank) / 420 VA (including the pump and tank)</td>
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<tr>
<td>Main power supply</td>
<td>AC 200 to 240 V, 50 / 60 Hz</td>
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<td>Minimum hole size (mm)</td>
<td></td>
</tr>
</tbody>
</table>
| Wheel options    | *Available/

#### RHU-1000 CB Specifications

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power consumption</td>
<td></td>
</tr>
<tr>
<td>Main power supply</td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td></td>
</tr>
<tr>
<td>Minimum hole size (mm)</td>
<td></td>
</tr>
</tbody>
</table>
| Wheel options    | *Available/
### SE-9090 Series Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SE-9090</td>
<td>Comprehensive Solution of NIDEK Lab Edging Systems</td>
</tr>
</tbody>
</table>

#### Wheel options
- **Mini cup**
- **Pliable cup**

#### Dimensions / Mass*

<table>
<thead>
<tr>
<th>Interface</th>
<th>Size</th>
<th>Optical center height</th>
<th>PD</th>
<th>PD * (0.01 mm increments)</th>
</tr>
</thead>
<tbody>
<tr>
<td>RS-232C: three ports</td>
<td>30.0 to 99.5 mm</td>
<td>9.95 mm</td>
<td>15.0 mm</td>
<td>0.01 mm increments</td>
</tr>
</tbody>
</table>

#### Applicable lenses
- NIDEK-type cup set
- WECO-type cup set
- Mini cup pack
- Type GLS - Glass index plastic
- Poly carbonate
- Acrylic resin
- Trivex Type PLA, PLB, and PLB-8 - Plastic (CR-39 etc.)
- High

#### Guided grinding
- Safety beveling
- Flat edging
- Beveling

#### Combinable instrument
- RHU-1000CB
- RHU-1500CB
- RHU-1500S

#### Processing mode
- Auto, Simple tilt, X Auto, Complex tilt

#### Power consumption
- RHU-1000CB: 2.8 kVA (including the SE-9090 Supra / Express+)
- RHU-1500CB: 3.4 kVA (including the SE-9090 Express+ and AHM-1000)
- RHU-1500S: 2.8 kVA (including the SE-9090 Supra / Express+)

#### Hole diameter
- 2.5 kVA
- 600 VA (excluding the SE-9090 Supra / Express+)
- 0.45 MPa or higher (lowered to 0.40 to 0.45 MPa by the regulator)
- 0.45 to 0.8 MPa by the regulator (lowered to 0.4 MPa by the regulator)

#### Slotted hole length
- 20 mm or less
- 20 mm in diameter (finished lenses)

#### Slotted hole width
- 80 mm in diameter (blank lenses)

#### Line width
- 0.6 to 1.2 mm (0.1 mm increments)

#### Tray
- 6 mm or less

#### Optional accessories
- RHU-1000 CB
- RHU-1000 S
- NIDEK-type cup set, WECO-type cup set, Mini cup pack
- Compound kit, Splatter guard, Key for the front cover, Dressing stick for roughing wheel of glass lenses, Monkey wrench, Hexagonal wrench, Hexagonal wrench, Hexagonal wrench,
- Circulation pump and tank, Barcode scanner, Drill bit, Grooving wheel, Lens adapter and lens clamp for mini cups
- Drill bit, Grooving cutter, Lens adapter and lens clamp for half-eye lenses, Calibration jig, Calibration jig for 400 (W) x 515 (D) x 611 (H) mm / 50 kg
- Auto grooving, Guided grooving

#### Groove depth
- 0.45 MPa or higher (lowered to 0.40 to 0.45 MPa by the regulator)

#### Groove width
- 0.6 to 1.2 mm (0.1 mm increments)

#### Hole diameter
- 2.5 kVA
- 600 VA (excluding the SE-9090 Supra / Express+)
- 0.45 MPa or higher (lowered to 0.40 to 0.45 MPa by the regulator)
- 0.45 to 0.8 MPa by the regulator (lowered to 0.4 MPa by the regulator)

#### Drilling
- 20 mm or less
- 80 mm in diameter (blank lenses)

#### Standard accessories
- 10.4-inch SVGA color display with touch panel
- RS-232C cable, Drain hose
- 47.5 (W) x 44.4 (D) x 58.0 (H) / 407.4 lbs.
- 600 (W) x 510 (D) x 611  (H) mm / 120 kg
- 300 VA (excluding the pump and tank), 420 VA (including the pump and tank)
- 0.45 to 0.8 MPa by the regulator (lowered to 0.4 MPa by the regulator)
- 51.2  (W) x  46.7 (D) x  58.0 (H)  / 550.7 lbs.
- 3.4 kVA (including the SE-9090 Express+ and AHM-1000)

#### Optional accessories
- RHU-1500 CB
- RHU-1500 S
- NIDEK-type cup set, WECO-type cup set, Mini cup pack
- Compound kit, Splatter guard, Key for the front cover, Dressing stick for roughing wheel of glass lenses, Monkey wrench, Hexagonal wrench, Hexagonal wrench,
- Circulation pump and tank, Barcode scanner, Drill bit, Grooving wheel, Lens adapter and lens clamp for mini cups
- Drill bit, Grooving cutter, Lens adapter and lens clamp for half-eye lenses, Calibration jig, Calibration jig for 400 (W) x 515 (D) x 611 (H) mm / 50 kg
- Auto grooving, Guided grooving

#### Groove depth
- 0.45 MPa or higher (lowered to 0.40 to 0.45 MPa by the regulator)

#### Groove width
- 0.6 to 1.2 mm (0.1 mm increments)

#### Hole diameter
- 2.5 kVA
- 600 VA (excluding the SE-9090 Supra / Express+)
- 0.45 MPa or higher (lowered to 0.40 to 0.45 MPa by the regulator)
- 0.45 to 0.8 MPa by the regulator (lowered to 0.4 MPa by the regulator)

#### Drilling
- 20 mm or less
- 80 mm in diameter (blank lenses)

#### Standard accessories
- 10.4-inch SVGA color display with touch panel
- RS-232C cable, Drain hose
- 47.5 (W) x 44.4 (D) x 58.0 (H) / 407.4 lbs.
- 600 (W) x 510 (D) x 611  (H) mm / 120 kg
- 300 VA (excluding the pump and tank), 420 VA (including the pump and tank)
- 0.45 to 0.8 MPa by the regulator (lowered to 0.4 MPa by the regulator)
- 51.2  (W) x  46.7 (D) x  58.0 (H)  / 550.7 lbs.
- 3.4 kVA (including the SE-9090 Express+ and AHM-1000)
Specifications and design are subject to change without notice.