SE-1 Specifications

Cutting system	Patternless
Cutting mode	Beveling (automatic, guided, frame curve), Partial beveling (automatic, guided, frame curve), Flat edging, Polishing, Chamfering (with, without polish), Special safety beveling, Facet, Grooving (automatic, guided), Partial grooving, Drilling (automatic, guided), Design cut, Step bevel, Partial step
Lens materials	CR-39, High index plastic, Polycarbonate, Acrylic resin, Trivex, Polyurethane
Interface	RS-232C : 3 ports Ethernet :1 port USB : 1 port (for the optional USB flash drive only)
Communication	VCA/OMA protocol for sever network connection via standard boards, NIDEK LAN

Power supply	AC 200 to 240 V / 50 / 60 Hz
Power consumption	2 kVA
Dimensions / Mass	700 (W) x 750 (D) x 1,750 (H) mm / 500 kg 27.6 (W) x 29.5 (D) x 68.9 (H) " / 1,102.3 lbs.

Maximum grinding size (without grooving, without safety bevel)	ø110 mm
Minimum grinding size	
Flat edging without safety bevel	ø32.0 x 19.0 mm / with mini cup (optional) ø22.0 x 17.4 mm
Bevel edging without safety bevel	ø33.6 x 20.6 mm / with mini cup (optional) ø23.6 x 19.0 mm

Specifications and design are subject to change without notice.

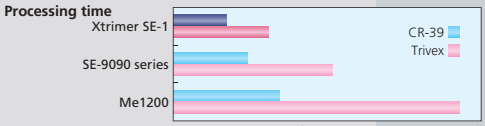
Xtrimer SE-1

"V" design processing technology

The Xtrimer SE-1's revolutionary design provides state-of-the-art processing with its all-new "V tool head" assemblies which introduce an entirely new and more efficient method of dry-cutting and milling, addressing the growing complexities of today's frame shapes and lens materials.

Astonishing speed and "3D-fit"

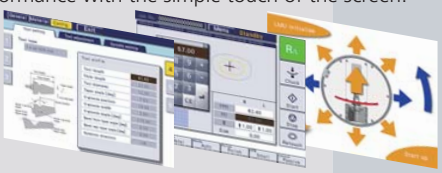
The 5-axis engineering design, combined with a specialized high-speed motor, maximizes throughput efficiency. Our true "3D-fit" technology is complemented by a new interlocking mechanical cutting method which vastly increases the first-time-fit ratio.



(from our experimental result)

Intuitive screen design and high resolution graphics

Job data and grinding condition settings are displayed in high-resolution graphics on the large, color LCD touch screen for easy job verification. Designed to be extremely user-friendly, the Xtrimer SE-1 allows the operator to achieve accurate, reliable, and flexible performance with the simple touch of the screen.



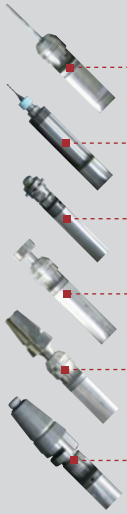
Space-saving design with expanding possibilities

The Xtrimer SE-1 has a space-saving sleek design. It can be easily incorporated into the RHU-2200 high speed robotic lens handling unit. As such, it can be operated in a "tandem system format" to achieve the highest lab volume throughput within the smallest floor footprint.

NICS NIDEK Intelligent Conveyor System

Multiple-shape capability

Incorporating six individual processing tools, the Xtrimer SE-1 expedites the roughing process on 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 a multitude of difficult shapes, all while providing an uncompromised finished lens.



Roughing tool
- Roughing

Drilling tool
- Drilling, Design cut

Grooving tool
- Grooving, Partial grooving

Step cutting tool
- Step bevel, Partial step

Finishing tool
- Beveling, Flat edging, Chamfering, Partial beveling

Polishing wheel tool
- Polishing, Specail safety beveling, Facet

Independent free-standing tool design

The mechanical interlocking design, incorporating the six independent tools, increases processing speed by eliminating the need to change tools and the ATC Automatic Tool Changer) challenges.

NIDEK

System Dry Edger

Xtrimer SE-1

THE ART OF EYE CARE