



NEW  
**EXCELON**  
The Excellent 3D Edger with Integrated Drill

**Edger Specification**

Lens Material	Plastic, Polycarbonate, High Index Plastic, Glass, Trivex
Wheel	Diameter 100mm, RPG Type
Edging Mode	Beveling(Normal / Partial / Mini Bevel) Grooving(Normal / Partial / Hybrid / Dual Grooving) Flat Edging Safety Beveling Polishing Built-in Drill (Fixed at 12°) *Auto/Manual position with 2D/3D simulation supported for beveling and grooving.
Functions	Job Manager, Digital Pattern, Retouch, Bevel / Groove Simulation, Shape Mirroring, Concave Shape
Utilities	Manual Edging Room Door(Hinged Door) Edging Room Illumination Single Side Feeling(Front, Rear) SD Card Storage(Memory Included)
Display	9.7 inch Color TFT LCD(1024x768) with Touch Screen
Edging Size	Max : 90mm Min : Flat Edging : 18.5mm(without Safety Bevel) / 23.0mm(with Safety Bevel) Bevel Edging : 20.0mm(without Safety Bevel) / 24.7mm(with Safety Bevel)
Dimensions / Weight	604(W) x 571(D) x 369(H)mm / 47kg or Less(without Tracer Module)
Power Supply	AC 100~120V / AC 200~230V 50/60Hz
Power Consumption	1400W(110V), 1500W(220V)

**Tracer Specification**

Tracing Type	Automatic 3D Binocular Tracing
Tracing Mode	Auto, Semi-Auto
Tracing Size	Frame Ø16.0~92.0mm, Pattern Ø16.0~84.0mm
Frame Material	Metal, Hard Plastic, Soft Plastic
Data Processing	FPD, Frame Curve, Circumference, 3D Angle, Concave Shape

**Drill Specification**

Hole Type	Hole(Circle/Rectangle), Slot(Circle/Rectangle), Notch(Circle/Rectangle)
Hole Diameter	Ø1.00~5.00 mm
Tilting Scope	Fixed (12°)
Hole Depth	Max : 6.0 mm (0.0 mm =Through Hole)
Range of Hole Drilling	Ø28.0~75.0 mm (From the center of leap block)
Slot Width	1.00~5.00mm
Slot Length	Max : 20.00mm

**Comparison of Edging Capability**

	HPE-410	HPE-410 (D)	HPE-810 (ND)	HPE-810	HPE-8000 (XN)	HPE-8000 (X)
Bevel(Normal, Mini)	O	O	O	O	O	O
Bevel(Partial)	O	O	O	O	O	O
Grooving (Partial, Hybrid, Dual)	O	O	O	O	O	O
Flat	O	O	O	O	O	O
Polishing	O	O	O	O	O*	O*
Safety Beveling	F, R	F, R	F, R	F, R	F, R	F, R
Drilling	X	O(fixed 12°)	X	O(0°~30°)	O(0°~30°)	O(0°~30°)
Chemistrie Clip	X	X	X	O	O	O
Scan & Cut	X	X	X	O(option)	O	O
Asymmetric Bevel	X	X	X	X	O	O
Semi-U Bevel	X	X	X	X	O	O
Step Bevel	X	X	X	X	X	O
Inclined Edge-Cutting	X	X	X	X	X	O

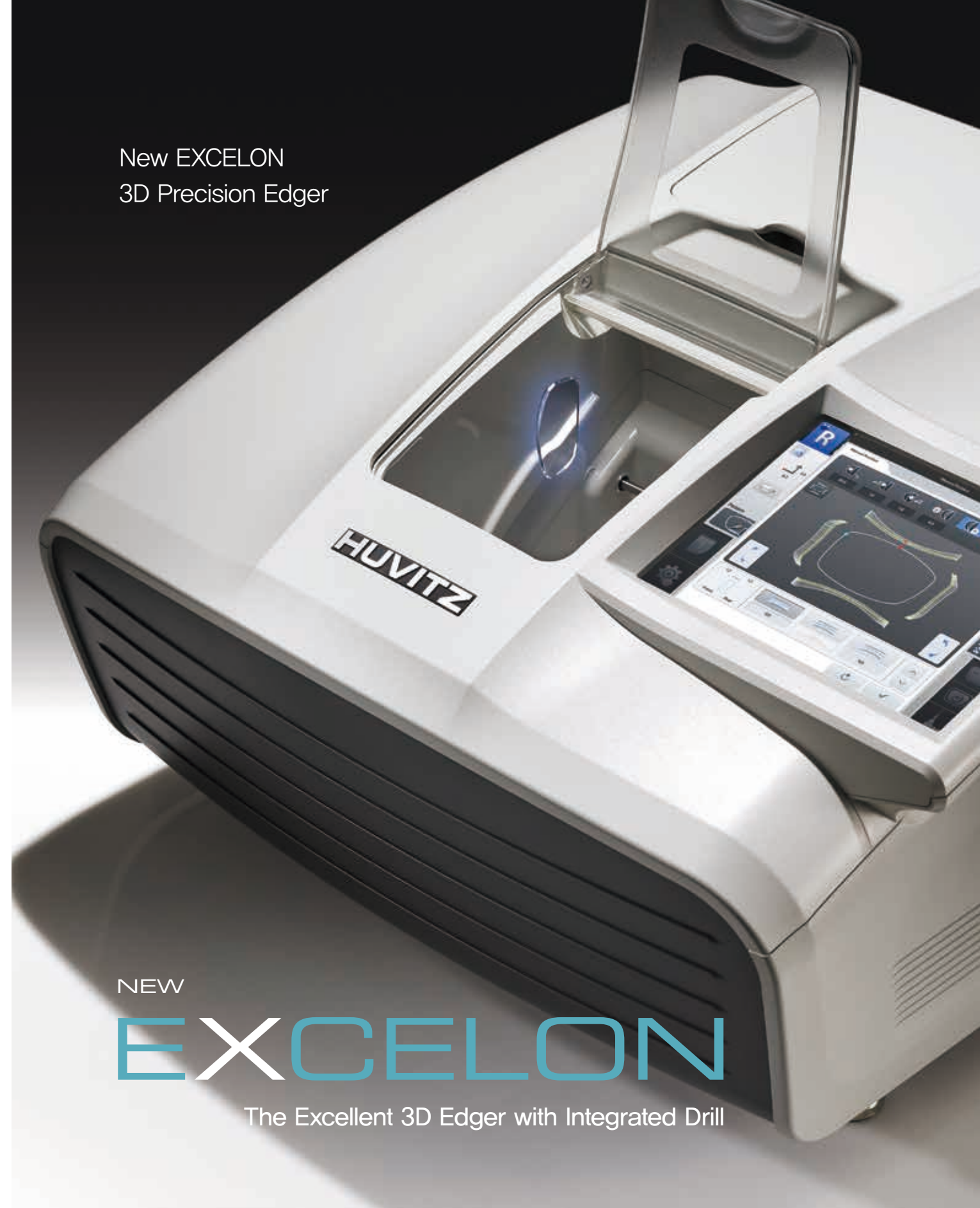
\* HPE-8000X RPGA type doesn't support polishing on bevels.  
\* Drilling functions of HPE-8000X/XN are supported when HDM-8000 is connected.  
\* HPE-410 (NTR) type supports connection with HDM-8000  
Designs and details can be changed without prior notice for the purposes of improvement.



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New EXCELON  
3D Precision Edger



NEW  
**EXCELON**  
The Excellent 3D Edger with Integrated Drill



Adaptive Chuck Built-in Tracer Integrated Drill



Huvitz brings you the sleek and newly designed EXCELON. Improved performance and stability based on our years of finishing experience as well as incorporating new functions and performance based on our Customers' feedback.

Combining amazing speed and solid stability –  
The new EXCELON is here



Improved lens processing capabilities coupled with simple GUI,  
And the ability to multi-task without constraint.  
The new Excelon, HPE-410 raises the standard of edging

Working time is greatly reduced by allowing multitasking when tracing, edging and integrated drilling with the new technology and innovation.  
EXCELON—the best-selling model from Huvitz because of the all features and value



## The objective of lens processing is to be able to fit any eyeglass frame

This new generation of EXCELON is very flexible and user friendly, with improved accuracy and advanced edging modes



### Hydrophobic Mode Concept

Easily adjustable roughing intensity and lens rotation speed, combined with an Adaptive Chuck and Clamp pressure control for minimizing or eliminating Axis twist and surface damage during lens processing.

### Hydrophobic Lens Fitting



### 3 Roughing Methods for Stability in Edging

The operator can choose the roughing method (Normal, Spiral, Axial) based on the type of lens material and the coating.

Roughing proceeds more efficiently by adding lens diameter directly in Spiral or Axial Roughing mode

### Easier Hydrophobic Mode

With ultra-water-repellent coated lenses that are susceptible to slipping and deflection, processing options such as roughing method, safety mode, pressure control of the adaptive clamp chuck, and rotation speed of the lens can be adjusted and operated at the same time.

### Adaptive Clamp Chuck to prevent lens deformation

Minimizes axis twist which prevents lens & coating damage when processing High-curved Lenses

- Automatic adjustment for 3-step pressure (high, medium, low)
- Manual input adjustment (from 50 to 150%)

### 4 Retouch Options

After completing a set of processes, the operator can easily modify the size, polishing, grooving and safety beveling.

A list of the latest 3 jobs.

### Pop-up Open

When the frame is attached to the built-in tracer, the task window is automatically activated, able to work without waiting.

Automatic lens detection provides information about your progress or tells you what to do next.

### High responsive 9.7" Color Display

Intuitive GUI interface with Huvitz's simple yet sophisticated design

Touch method which can be easily started even for first time operator

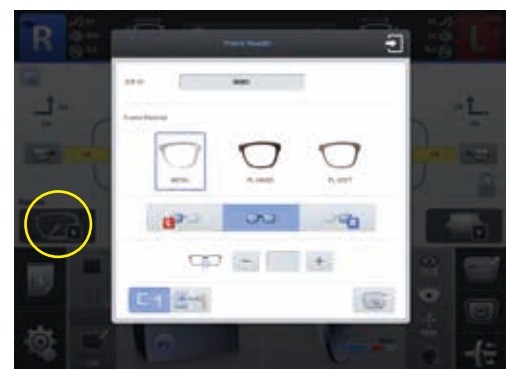
- Upgraded motor and higher performance CPU translates to 60% faster job speed
- New and innovative Adaptive Clamp Chuck prevents torsion during lens processing
- The option to choose between 3 types of roughing modes and 1 Hydrophobic mode
- Multitasking without constraints due to the built-in tracer & drilling(optional), parallel processing and job manager for amazing reduction in job output time
- Fluid Dynamics design featuring a refined sense of volume



Roughing Method / Axial



Hydrophobic Mode

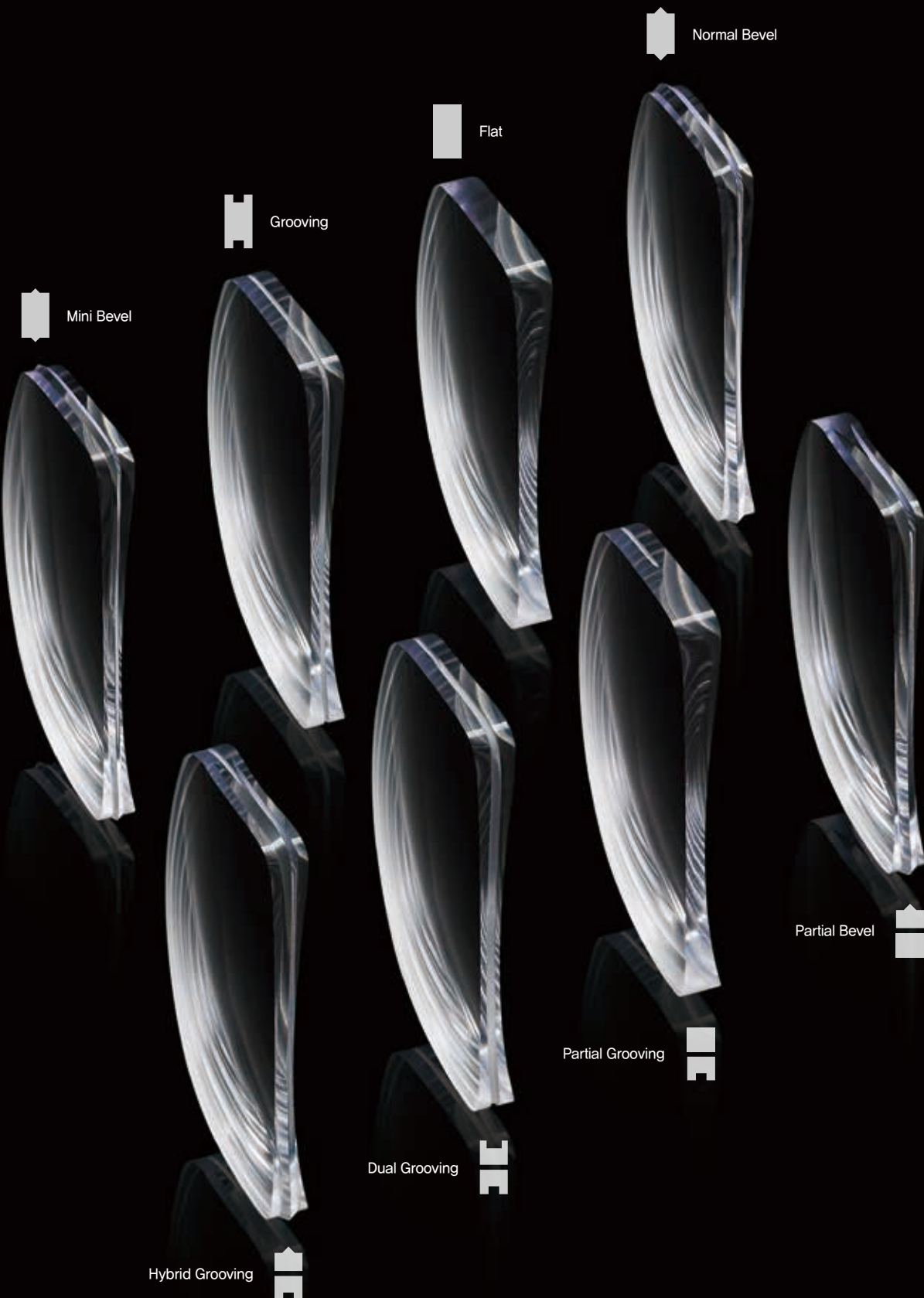


Pop-up Open



## Advanced Edging Modes

This new generation of Excelon is very user friendly. It has a wide variety of modes to suit all User requirements. A higher level of efficiency and functionality can also be possible by integrating the optional auto blocker and/or driller.



### 8 difference types of edging to match frames including high curve sunglasses

Customized lens processing is possible such as Bevel, Rimless, Mini Bevel, Partial Bevel, Partial Grooving, Dual Grooving, and Hybrid Grooving.

### More sophisticated 6 bevel positions and preview mode

Optimal position is chosen with the automatic calculation of lens type, thickness, and frame through its 2D and 3D simulations

- Automatic bevel position / Manual bevel position (Percentage %, Front offset, Rear offset, Base Curve)

### The latest trend material is OK! 5 kind of lens material processing

Lens processing with a wide range of materials and curvatures such as Plastic (CR39, Hi-index), Polycarbonate, Trivex, Glass

### 3 Feeling Position Modes for various Conditional Measurements

Optimum feeling positioning according to various situations and conditions such as measuring in normal mode, changing frames and Bevel shortfall checking

- 3 Feeling Position : Normal, Bevel's outskirts, For frame change
- 3 Feeling Modes : Both side, Front only for CAP lens, Rear only for EX lens
- EX lens only feeling mode : Accurate recording of different curvature of lens, precise machining
- Feeling after roughing option for Safety bevel / Grooving Quality

### Powerful Digital Pattern and Editing function

Function to modify and change lens size, shape and rotation

Frame type change and repairing : Easily modify or replace the distorted shape of the frame through R/L exchange, R/L mirroring

Easy-to-use hole editing function : Edit, with just one click, holes of a variety of designs including rectangles and slots with the many shapes of both rimless and semi-rimless frame designs. (must be connected to optional HDM-8000)

Intuitive layout design function : Directly enter and edit layout information in various frame shape

### Intelligent Algorithm for Improved Fitting Quality

Fitting quality is even better than previous models by applying Intelligent Algorithms such as Automatic correction of lens size, bevel or grooving, and PD correction



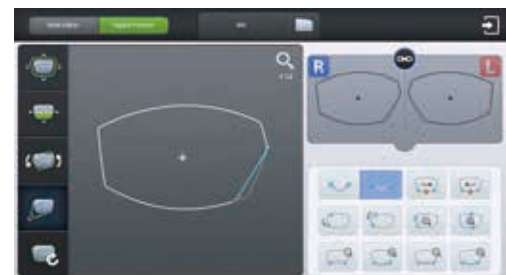
Processing Position Editor



Partial Grooving Editor



4 Different Feeling Positions

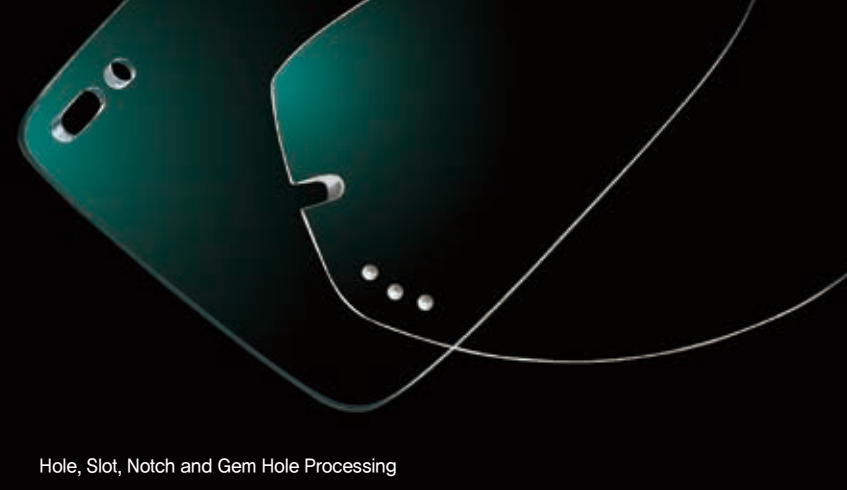
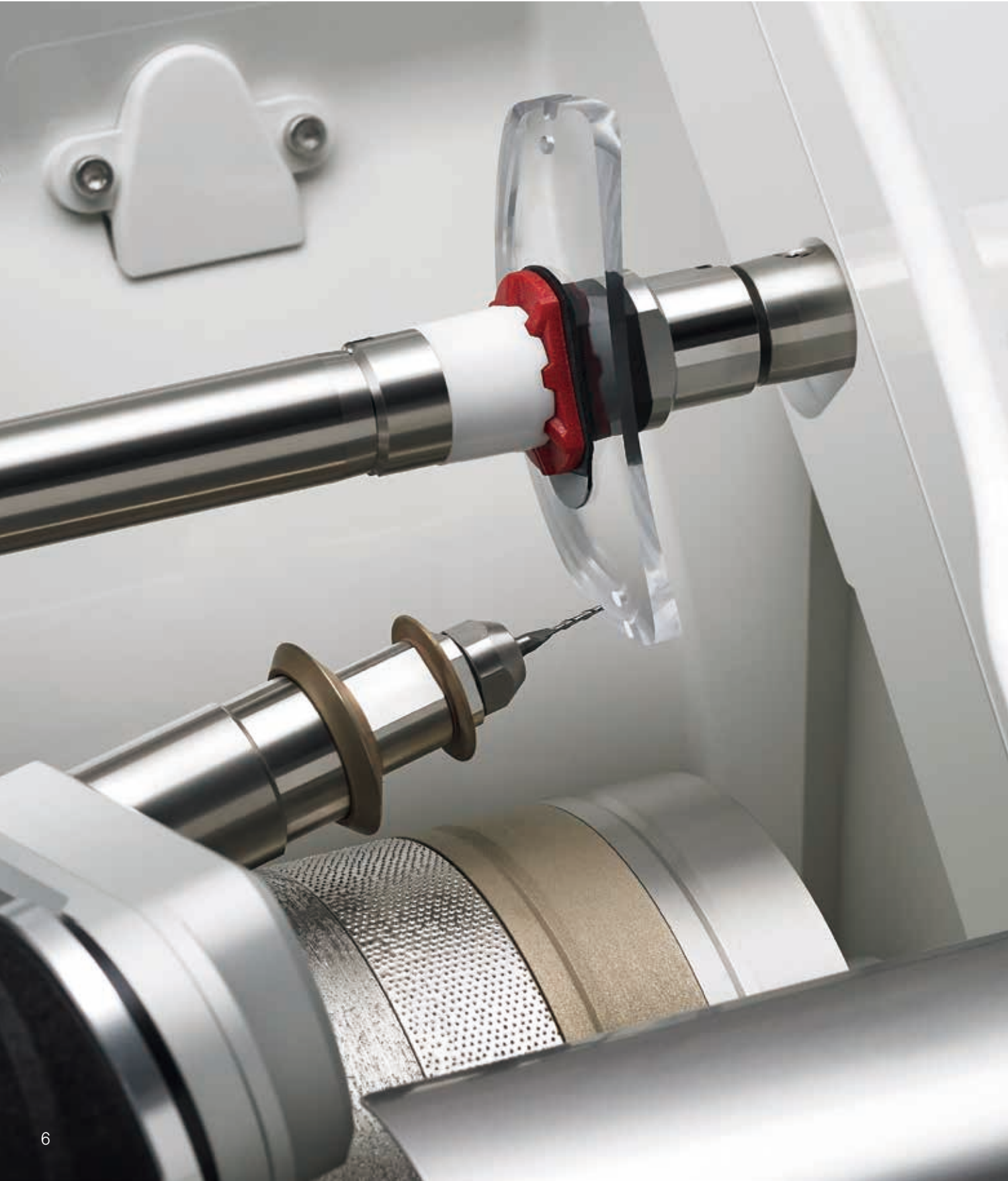


Digital Pattern



## Intelligent work for rimless / half-rimmed glasses by integrated driller

Rimless glasses that were hard to work because of the complexity of the production process, are easy now with New EXCELON's drilling integration function



Hole, Slot, Notch and Gem Hole Processing

### Integrated Drilling that saves time

Stable and robust 12 degree drilling is integrated, allowing you to set-up, auto-run by one-touch.

Save time and cost with fast and convenient lens processing.

### Easy-to-use Hole Editor

The operator can design various shaped holes such as twin hole, rectangular hole, slot, notch and gem hole.

The operator can also move, add or edit the position of the desired hole immediately.

Preview magnifications of x1.0, x1.3 are easy to set up if required.

### Easy Mover function can be used to conveniently move hole's position

High quality drilling work for customer's face type and trendy style by intuitively moving the position and width of the hole desired by the operator on the touch screen or inputting data directly.

### Design support function using various coordinate reference

The function recognizes and responds to coordinate data of various styles provided by popular brand eyeglasses manufacturer.

For optimum alignment, it supports designing distances between holes which is useful for balancing and aligning hole position.

### Customized Preset to shorten design time

Easily input job information to save time and customize data

### Efficient design using stored drill pattern

Work faster and more accurately with high frequency or high-speed work files

### Convenient mode for special shape processing and sunglass clip (HAB-8000, HDM-8000)

Scan & Cut : New Excelon can scan various lenses right away, it also converts image file or CAD file into workable file, start cutting immediately.

Easy Click editing : Simple function to edit the magnet position to attach/detach sunglasses and near-lenses (Chemistrie Clip)

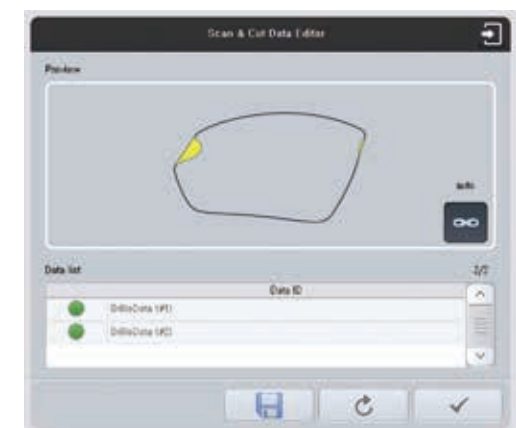


Easy-to-use Hole Editor



Easy Mover

Preset



Scan & Cut Data Editor



Chemistrie Clip Editing



## More sophisticated operation and simple to use bringing satisfaction to all levels of user, from beginner to expert

The new Exelon is designed to help users achieve satisfactory results with minimum time and effort.

### Built-in Tracer reading more precisely with three-dimensional measurements

Auto or Semi-Auto or Concave mode can be selected.

The stylus can be manually placed in the narrow groove of challenging frames in the Semi-Auto mode and the concave shape of the demo lens is recognized in the Concave mode.

Tracing frames and at the same time edging lenses gains efficiency and dramatically cuts-down overall job time

Higher durability and precision due to Tilting Lock preventing axis distortion

### Parallel process of external driller for advanced professional operation

While drilling one side, the new EXCELON can edge the other side.

It is even possible to finish the next task while continuing to drill. (When combined with HDM-8000)

### Expert Job Editor shows preview and can run immediately

Function to instantly search, preview and execute all tasks

Choosing the advanced operation options for experts, giving the operator the ability to directly input the tilt angle of a frame or the curve of a lens



Expert Job Editor

### Powerful multi-tasking with the new concurrent processing Job Manager

Function to show step-by-step job list at a glance and execute the next job while edging.

Large memory storage for unlimited job data.

Barcode interface support for changing job file name, importing and searching job files.

### Direct DCS (OMA) Import/Export without File Conversion

Allowing users to save the full information, for future use, such as frame shapes, FPD, edging types, lens materials into SD card memory without the hassle of converting DCS (OMA) job files.

- Providing most of the ready-made job data in DCS format. Data can be collected from websites of leading frame makers.

Maintaining folder-based DCS files to avoid duplicate file names within a folder.

Job data imports from external devices such as DCS host, external tracer / Auto blocker or HERA Intraworks (PC)



Direct DCS(OMA) Import

## Various configurations, Wide choice

New Exelon is the ideal edger, with an extremely wide choice of options to suit the user environment. With the new Exelon you have one edger that gives you unlimited options, so make the most of it.

### System Configuration



HPE-410(TR) CBK-4000



HPE-410(NTR) HFR-8000W CBK-4000 HDM-8000W



HPE-410(TR) HBK-7000



HPE-410(NTR) HBK-7000 HFR-8000W HDM-8000W



HPE-410(NTR) HAB-8000W HDM-8000W



HPE-410(TRD) HBK-7000



HPE-410(NTD) HBK-7000 HFR-8000W



HPE-410(NTD) HFR-8000W

### Specification by Each Type

Product Type		Specification				
		Voltage	Built-in Drill	Built-in Tracer	Wheel Type	Glass Wheel
HPE-410	HPE-410 (220V) TR	220V	X	O	RPG	O
	HPE-410 (220V) NTR	220V	X	X	RPG	O
	HPE-410 (110V) TR	110V	X	O	RPG	O
	HPE-410 (110V) NTR (RPW)	110V	X	X	RPW	X
HPE-410(D)	HPE-410 (220V) TRD	220V	O	O	RPG	O
	HPE-410 (220V) NTD	220V	O	X	RPG	O
	HPE-410 (110V) TRD	110V	O	O	RPG	O
	HPE-410 (110V) NTD (RPW)	110V	O	X	RPW	X