New
EXCELON
3D Precision Edger



NEW

EXCELON

The Excellent 3D Edger with New Concept

Huvitz Re:define, Re+create

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.



Improved lens processing capabilities coupled with simple GUI and the ability to multi-task without constraint
The new EXCELON raises the standard of edging

Working time is greatly reduced by allowing multitasking when tracing, edging and even network drilling filled with new technology and innovation.
EXCELON-the best-selling model from Huvitz because of the features and value it brings.

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



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



- Upgraded motor and higher performance CPU translates to 60% faster job speed
- Prevents torsion during lens processing because of a new and innovative Adaptive Clamp Chuck, as well as the ability to choose between 3 types of roughing modes and 1 Hydrophobic mode
- Multitasking without constraints because of the built-in tracer, parallel processing & job manager for amazing reduction in job output time
- Fluid Dynamics design featuring a curve similar to a sports car and a refined sense of volume

3 Roughing Methods for Stability in Edging

Can choose the roughing method (Normal, Spiral, Axial) based on the type of lens material and the amount of coating

Roughing proceeds more steadily if adding lens diameter directly in Normal or Spiral 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 you can easily modify the size, polishing, grooving and safety beveling

A list of the latest 3 jobs

Scan & Cut which can make special shapes

Individual design – now you can directly scan a variety of lenses or convert image files to job files and begin cutting (with HAB-8000 and HDM-8000 configuration)

High responsive 9.7" Color Display

Intuitive GUI interface with Huvitz's simple yet sophisticated design

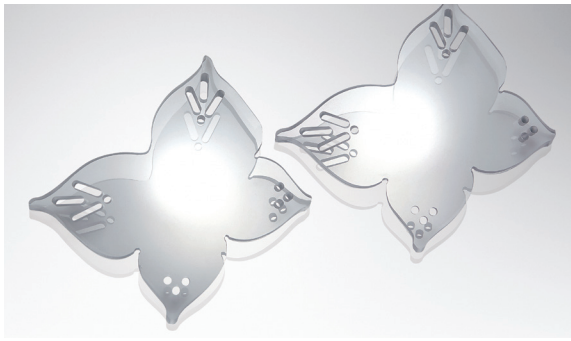
Touch method which can be easily started even if machine operation is not familiar



Hydrophobic Lens Fitting



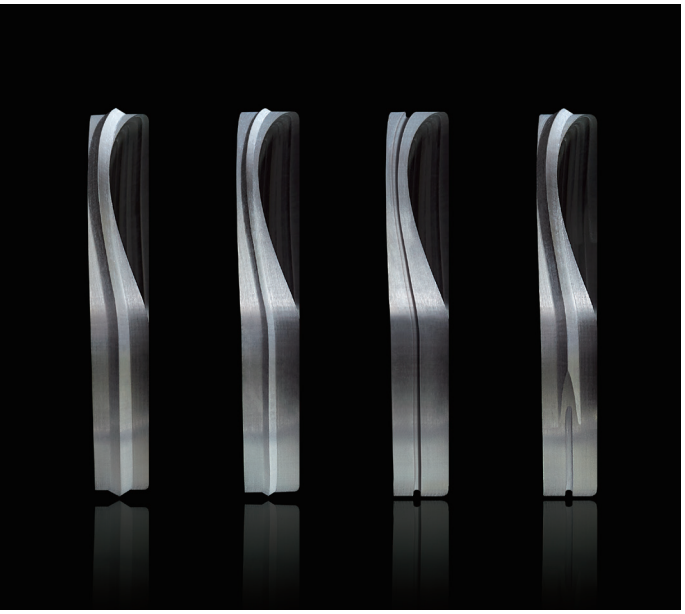
Hydrophobic Mode



Scan & Cut Process

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.



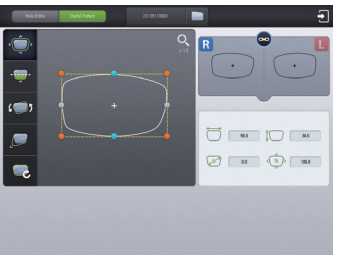
Edging Type / Bevel, Mini Bevel, Grooving, Hybrid Grooving



Auto / Manual 3D Simulation



3 Different Feeling Positions



Digital Pattern



Chemistrie Clip Editing

8 difference types of edging to match frames

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 Modes : Both side, Front only for CAP lens, Rear only for EX lens
- 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. (Note: must be connected to optional HDM-8000)

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

Easy Click editing function : Function to edit the magnet position (Chemistrie Clip) for detachable sunlenses and reader lenses

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

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 in method of Auto / Semi-Auto Mode



Expert Job Editor



Direct DCS(OMA) Import

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

Parallel process of edging and drilling without any restrictions (when combined with HDM-8000)

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.

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

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

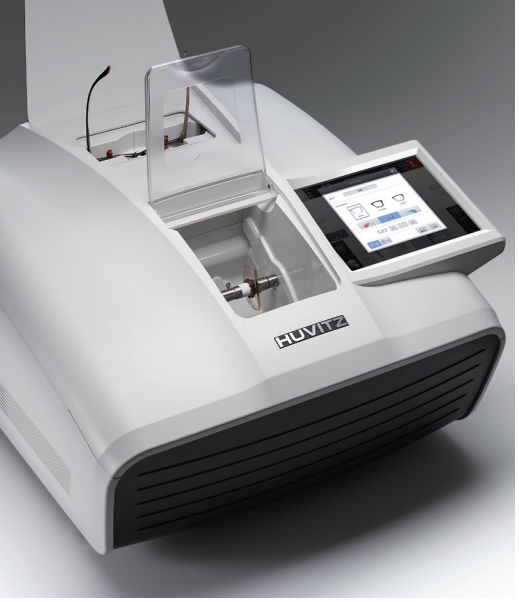
Direct DCS (OMA) Import without File Conversion

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, 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)



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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 *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	604(W) x 571(D) x 369(H)mm
Weight	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

Designs and details can be changed without prior notice for the purposes of improvement.

Product Types & System Configurations

Product (Types) / Voltage	Tracer	Glass Wheel
HPE-410 / 220V	O	O
HPE-410(NTR) / 220V	X	O
HPE-410 / 110V	O	O
HPE-410(NTR / NGL) / 110V	X	X(RPW)

A. HPE-410 / HMB-8000



B. HPE-410 / HBK-7000



C. HPE-410(NTR) / HMB-8000 / HFR-8000 / (HDM-8000)



D. HPE-410(NTR) / HBK-7000 / HFR-8000 / (HDM-8000)



E. HPE-410(NTR) / HAB-8000 / (HDM-8000)



*CBK/CFR can be used instead of HMB/HFR

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