



New Features
& Sales Points

Comparison
with 8000

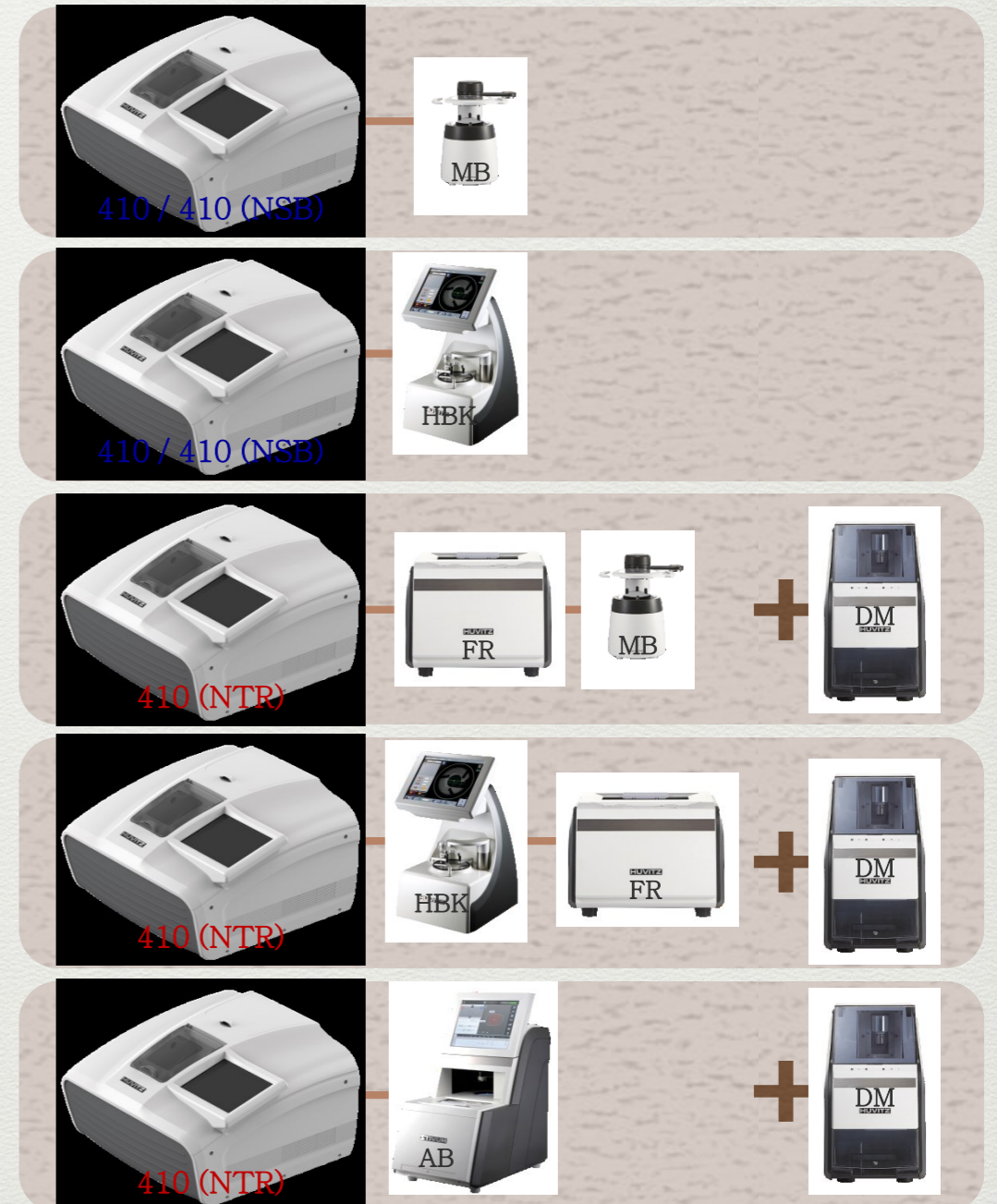
More Support

BENEFIT GUIDE for

HPE-410, The Excellent 3D Edger

Product Types & System Configurations

Product Type	Specification			
	Voltage	Tracer	SBG	Glass Wheel
HPE-410 220V	220V	○	○	○
HPE-410 220V (NTR)	220V	✗	○	○
HPE-410 220V (NSB)	220V	○	✗	○
HPE-410 110V	110V	○	○	○
HPE-410 110V (NTR)(NGL)	110V	✗	○	✗ (RPW)
HPE-410 110V (NSB)	110V	○	✗	○



SALES POINTS OF FEATURES

❖ Features Summary

Feature	Specification & Details
Acquiring frame shapes from the built-in tracer	<ul style="list-style-type: none"> - Auto, Semi-Auto mode supported (semi-auto mode recognizes concave shape of demo lenses or allows manual positioning of the stylus in the groove of frames) - Frame-tracing is also supported during the lens edging
Receiving job data from external devices	<ul style="list-style-type: none"> - From a DCS host(PC) by requesting - From an external tracer or an auto blocker - From the HERA Intraworks(PC) by requesting or being pushed
Direct DCS(OMA) import (*) There are glasses makers that provide ready-made job data in DCS format for glazing Labs or opticians through their web sites, such as Lindberg, Silhouette, Adidas and etc.	<ul style="list-style-type: none"> - Direct import of DCS job files from the SD card memory - DCS job files include complete information for making glasses - frame shape, FPD, edging type, lens material, drilling coordination, and etc. No concerns about filename duplication as HPE-410 maintains such DCS job files folder-based!
More powerful Digital Pattern functions	<ul style="list-style-type: none"> - Modifying shape by diameter, ratio, any of the 4 direction - Rotating shape by degrees - Modifying shape by selecting a portion of the contour
Switching and fixing frame shapes	<ul style="list-style-type: none"> - R/L switching for wrong side selection on demo-lens-tracing - R/L mirroring for fixing distorted shape on one side with the other
Easy-to-use hole editor^{*)}	Supporting all the job-designing functions allowed for HDM-8000 driller, even including rectangle holes and slots
Intuitive layout design functions	Inputting layout information directly on the drawing of frame shape

^{*)} Drilling-Related features are supported ONLY by HPE-410 types that include (NTR) option.

SALES POINTS OF FEATURES

❖ Features Summary – cont'd

Feature	Specification & Details
8 different edging types	Bevel, Rimless, <u>Grooving</u> , Mini Bevel, <u>Partial Bevel</u> , <u>Partial Grooving</u> , <u>Dual Grooving</u> , <u>Hybrid Grooving</u>
6 different types of edging position	Percent, Front Offset, Rear Offset, Base Curve(absolute), AUTO, MANUAL position with 2D and 3D simulation
5 different lens materials for edging	Plastic(CR39), Hi-index Plastic, Polycarbonate, Trivex, Glass ^{*)}
3 different feeling positions with 3 different modes and 1 option	<ul style="list-style-type: none"> - Normal, Frame change, Bevel shortage check - Both sides, Front-only(for CAP lens), Rear-only(for EX lens) - Feeling after roughing option for SB/grooving quality
Predefined 3 levels of pressure control or manual	<ul style="list-style-type: none"> - Predefined levels: High, Mid, Low - Manual input: 50 ~ 150%
3 different roughing methods for secure edging	<ul style="list-style-type: none"> - Normal, Spiral, Axial - Manual input of lens diameter makes the feeling more snappy for spiral and axial modes
Hydrophobic mode It sets all the edging options for axis-safe cutting by one click of a button!	Roughing mode, Safety mode, Clamp pressure, Lens rotation speed
Intelligent algorithms for enhanced fitting quality	<ul style="list-style-type: none"> - Auto Fitting for size - PD Compensation - Auto Modification for bevel or <u>grooving</u>
Expert Job Editor	<ul style="list-style-type: none"> - Browsing all the information of a job at once - Selecting and inputting advanced job options for experts (tilting angles of a frame, demo lens curve, and etc)

^{*)} Glass(mineral) lenses are NOT supported by HPE-410 types that include (NGL) option.

▶ Underlined features are NOT supported by HPE-410 types that include (NSB) option.

SALES POINTS OF FEATURES

❖ Features Summary – cont'd

Feature	Specification & Details
4 types of retouch process with an option	<ul style="list-style-type: none"> - Size, Polishing, <u>Grooving</u>, Safety Beveling - Any of the 4 retouch options missed during initial edging by mistake can be added and processed in the retouch mode! - <u>Grooving retouch can be turned off to make it shallower</u>
Retouching a job in the completed jobs list	Up to latest 6 single-side-edged jobs can be retouched (or 3 both-side-edged jobs)
Multiple job handling and concurrent processing by the Job Manager	<ul style="list-style-type: none"> - Providing handling on waiting jobs, processing jobs, processed jobs, and saved jobs list - Supporting preparing next jobs while another job is on edging
Parallel processing of edging and drilling ^{*)}	<ul style="list-style-type: none"> - Edging the other side of a job while the first side is in drilling - Even start edging the next job while previous job is in drilling
Easy Click ^{*)} – the easiest way to make Chemistrie clips It supports not only circle magnets but also squares!	<ul style="list-style-type: none"> - Quickest/easiest positioning of magnets and bridges creates a set of jobs for primary, sun, and reader lens automatically. - Drilling-only mode supports bypassing edging on old glasses!
Scan & Cut ^{*)} – the freedom of creating special-shape frames	It's supported especially when HAB-8000 and HDM-8000 are interfaced together with.
DCS(OMA) compatible	Compatible with VCA DCS V3.04 and V3.07
Barcode reader support	Renaming, requesting, searching for a job

^{*)} Drilling-Related features are supported ONLY by HPE-410 types that include (NTR) option.

► Underlined features are NOT supported by HPE-410 types that include (NSB) option.

FEATURES COMPARISON

Comparison
with EXCELRON

❖ Specification Comparison

Specification		CPE-4000	HPE-410	HPE-410(NTR)	HPE-410(NSB)
Platform	GUI B/D	66 MHz	1 GHz		
	Motor B/D	66 MHz	120 MHz		
	LCD	10.4" 800 x 600	9.7" 1024 x 768		
	Touch I/F	X	O		
	Memory Card	X	SD Card (on-board)		
	Edging Room Illumination	X	O		
	Vacuum I/F	X	O (option)		
Major Modules	Tracer	External(CFR4, HFR8) 3D Binocular, Auto / Semi-Auto	Built-In 3D Binocular, Auto / Semi-Auto	External 3D Binocular, Auto / Semi-Auto	Built-In 3D Binocular, Auto / Semi-Auto
	Feeler	Side-by-Side	Side-by-Side w/ lens interference detection		
	Clamp	Fixed chuck	Adaptive Chuck w/ Position Sensor		
	SBG	O	O		X
	Rotation	Stepping motor	X1.7 Stronger Stepping Motor, X2.5 Longer Durability		
	Window	Manual (w/ a sensor)	Manual (w/ a sensor)		
	Main Wheel	Ø100, 3,000 RPM, RPG type(F/P Angled)	Ø100, 5000 RPM, RPG¹⁾ type(F/P Flat)		
	Wheel Motor & Shaft	Direct	Belt & Pulley		

1) 110V (NTR)(NGL) type is provided as RPW without a glass wheel.

FEATURES COMPARISON

Comparison
with EXCELON

❖ Function Comparison

Function		CPE-4000	HPE-410	HPE-410(NTR)	HPE-410(NSB)
Shape(Job) Acquisition	Tracer	External	Built-In , External	External	Built-In , External
	DCS Host	O		O	
	HERA Intraworks	O		O	
	DCS(OMA) Import	X		O	
Shape Modification	R/L Shape-Switching	O		O	
	R/L Shape-Mirroring	X	O (Shape only)		
	Digital Pattern	∅, %, ↓, ↔, ↓, rotation	∅, %, ↓, ↔, ↓, rotation, →, ←, ↑, ↓, Point(Segment)		
Rimless Design	Hole Editor	X	X	O	X
Edging Types	Standard Shape	Bevel, Flat, Grooving	Bevel, Flat, Grooving		Bevel, Flat
	Concave Shape	X	O		
	Special Bevel	N/A	Mini, Partial Bevel		Mini
	Special Grooving	N/A	Partial, Dual, Hybrid		X
Edging Options	Position	%, mm, Base Curve	%, mm, Base Curve, Auto, Manual		
	Base Curve Mode	Relative Curve	Absolute (Real base curve of a lens)		
	Position Simulation	X	O		
	Hydrophobic Mode	X	O		

FEATURES COMPARISON

Comparison
with EXCELON

❖ Function Comparison – cont'd

Function		CPE-4000	HPE-410	HPE-410(NTR)	HPE-410(NSB)
Edging Options	Feeling Mode	Both Side	Both Side, Front-Only, Rear-Only		
	Feeling After Roughing	X	O		
	Roughing Mode	Normal, Spiral, Hybrid	Normal, Spiral, Axial		
	Input Lens Diameter	X	O (for bypassing extra feeling for spiral or axial roughing mode)		
	Input Tilting Angle	X	O (when it's not measured by tracer)		
	Input Demo Curve	X	O (for supra/rimless size)		
	Expert Job Editor	X	O		
Fitting Enhancements	Auto Fitting	O (v2.10 or higher)	O		
	PD Compensation	X	O		
	Auto Modification	X	O		
Drilling	External Driller I/F	X	X	O(HDM8)	X
	Easy Click	X	X	O(w/ HDM8)	X
	Scan & Cut	X	X	O (w/ HAB8 & HDM8)	X
Retouch	Targets	Size, Polishing, Grooving, SB	Size, Polishing, Grooving, SB		Size, Polishing
	Adding Edging Option	Polishing	Polishing, Grooving, SB		Polishing
	Grooving On/Off	X	O		X
	Completed Job	1 Latest Job	3 Latest Jobs (or 6 latest one-side-edged jobs)		



More Support

TO GET MORE INFORMATION ...

Contact and ask to your regional sales reps.



① Download High Resolution Images

② Question to The Product Manager

③ SVC Inquiry

④ E-Brochures