



New Features
& Sales Points

Comparison
with 8000X

More Support

BENEFIT GUIDE for

HPE-910, The Expert & Express Edger

Product Variations & Configurations

New Features & Sales Points

❖ For 220V

Make to Stock

Make to individual Order*

Product Type	Specification				
	Voltage	Step Bevel	Built-in Drill	Wheel Type	Vacuum I/F
HPE-910(XD)	220V	O	O	RPGA	O
HPE-910(X)	220V	O	X	RPGA	O
HPE-910(N)	220V	X	X	RPGA	O
HPE-910(XD)	220V	O	O	RPA	O
HPE-910(X)	220V	O	X	RPA	O
HPE-910(D)	220V	X	O	RPA	O
	220V	X	O	RPGA	O
HPE-910(N)	220V	X	X	RPA	O

* MTO requires lead time of at least 2 weeks.



Product Variations & Configurations

New Features & Sales Points

❖ For 110V

Make to Stock

Make to individual Order*

Product Type	Specification				
	Voltage	Step Bevel	Built-in Drill	Wheel Type	Vacuum I/F
HPE-910(XD)	110V	O	O	RPA	O
HPE-910(X)	110V	O	X	RPA	O
HPE-910(N)	110V	X	X	RPA	O
HPE-910(XD)	110V	O	O	RPGA	O
HPE-910(X)	110V	O	X	RPGA	O
HPE-910(D)	110V	X	O	RPA	O
	110V	X	O	RPGA	O
HPE-910(N)	110V	X	X	RPGA	O

* MTO requires lead time of at least 2 weeks.



Cutting Expertise And Diversity

New Features & Sales Points

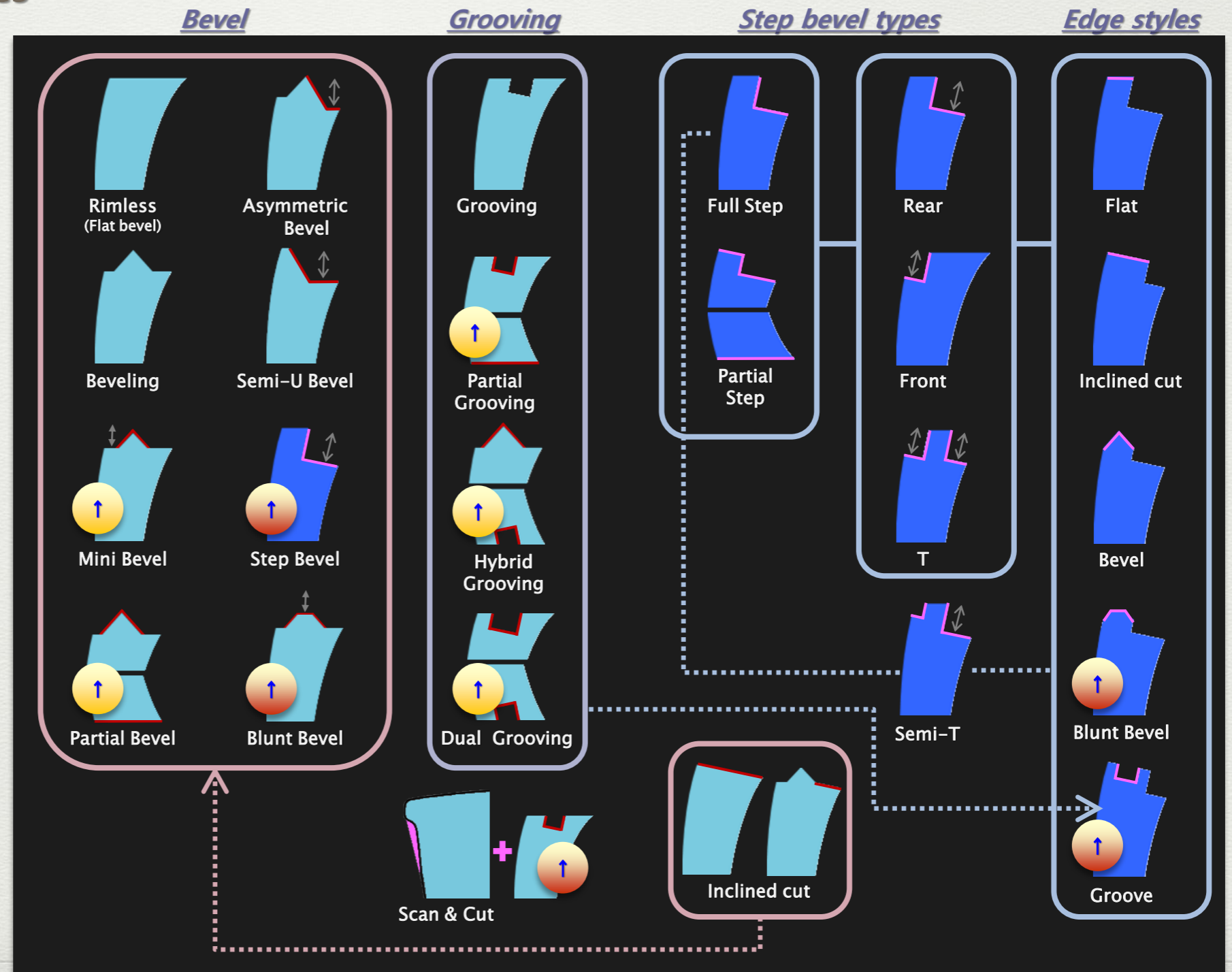
❖ Supported edging types

EXCELON

KAIZER

KAIZER-X

KAIZER-XX 



Express Performance

New Features
& Sales Points

❖ Turnaround time for PL – versus HPE-8000X

Metal Frame

- Mini bevel
- Safety bevel (rear-only)
- *PL -2D*

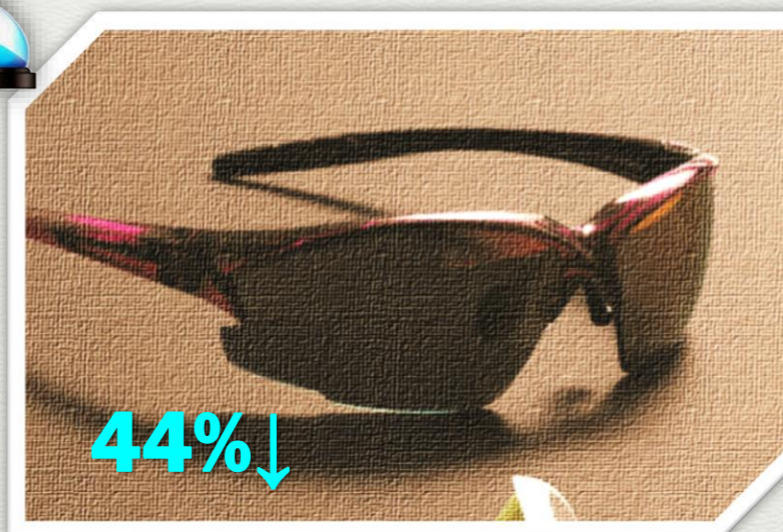


Rimless

- Flat bevel
- Drilling (4 holes)
- Polishing
- Safety bevel (front, rear)
- *PL -2D*

House Design

- Scan & cut drill-cutting
- Grooving
- Polishing
- Safety bevel (front, rear)
- *PL -2D*



Sports Goggle

- Scan & cut drill-cutting
- Partial step bevel (rear)
- Polishing
- Safety bevel (front, rear)
- *PL -2D*

Express Performance

New Features
& Sales Points

❖ Turnaround time for PC – versus HPE-8000X

Metal Frame

- Mini bevel
- Safety bevel (rear-only)
- *PC S-2D C-1D*



Rimless

- Flat bevel
- Drilling (4 holes)
- Polishing
- Safety bevel (front, rear)
- *PC S-2D C-1D*

House Design

- Scan & cut drill-cutting
- Grooving
- Polishing
- Safety bevel (front, rear)
- *PC S-2D C-1D*



Sports Goggle

- Scan & cut drill-cutting
- Partial step bevel (rear)
- Polishing
- Safety bevel (front, rear)
- *PC S-2D C-1D*

*) In case of HPE-8000X, the transfer time to the external driller for lens and job data is not included.

*) Processing time may differ a bit depending on job conditions such as material and manufacturer of lens, processing mode, and etc.

5 Insights of The Expert

New Features
& Sales Points

❖ Job data Acquisition and Processing

Efficiency

- Fast processing by 'OMA Import'
- Easy edition of Scan & Cut job

- Supporting direct conversion of ready-made OMA job file
- Scan & Cut data editor supports removing or deselecting drill-cutting data with ease

Smartness

- High resolution tracing for 4 different frame materials
- Semi-auto tracing for non-standard frames or demo lenses
- Digital Pattern provides easier and more creative way of modifying shape
- Shape correction for customer satisfaction and time-saving

- Metal, hard plastic, soft plastic, and Ultem. It automatically restores the distortion in B size of super flexible frames in **the Ultem mode**
- Semi-auto allows manual adjustment of the stylus position for rims with non-standard groove. Or recognizes concave shape in demo lens
- Modifying shape in angle and size. Point edition supports round or linear modification on a selected range – linear mode is useful for angular shapes
- Side-switching when the side selection was wrong, and shape mirroring for distorted frames

Powerfulness

- High accuracy of 3D-simulated 'Digital Scan'
- Quick and easy acquisition of job data by 'File Converter'
- Unlimited freedom and quickness of 'Hole Editor' to design rimless jobs
- Professional job creation by 'Step Bevel Editor'

- Scanning shape, drilling data, and step bevel line with precision in high-speed
- Converting from standard image files and **DXF CAD format**
- Supporting circle and rectangle holes, various angle mode, user-definable presets, custom-built library, reusing drilling patterns of other jobs with 3 types of coordinates, grouping, mirroring, undo/redo and etc
- Designing jobs with **35 styles of step bevel** with abundant convenience functions



5 Insights of The Expert

New Features
& Sales Points

❖ Lens Blocking

Efficiency

- One touch automatic blocking

- Pushing the blocking button after putting a lens on the stage executes everything automatically

Powerfulness

- Auto lens recognition
- Auto correction of prism error

- Recognizes type, power, and markings of lens automatically
- With the aid of built-in lensmeter, it corrects the position error due to prism effect

Smartness

- Live PD/OH adjustments
- Enhanced lens shortage check
- Auto brightness control
- Auto measuring of lens diameter
- Auto switching of sides
- Auto transmission of job data
- Auto saving of job data

- PD, OH, and angle adjustments on the live screen
- Auto **checking of lens shortage over frame shape**
- Brightness is controlled depending on the tint darkness
- Diameter of blocking lens is measured for lens processing in the edger
- Switching between right and left after blocking one side is automatic
- Job data transmitted automatically when both sides are finished blocking
- Blocked job is saved in the internal memory for the next day when it's not finished within the day



5 Insights of The Expert

New Features
& Sales Points

❖ Lens Processing

Diversity

- 8 different bevel styles
- 4 different grooving styles

- Flat, Standard, Mini, Asymmetric, Semi-U, Step, Partial, **Blunt**
- Standard, Partial, Hybrid, Dual

Expertise

- Inclined cut option
- Grooving on Scan & Cut shape
- 35 styles of step bevel

- Inclined cut on the rear side of 8 bevel styles
- 4 grooving styles on drill-cut concave shape
- 7 step bevel types with 5 edge finishing styles (flat, inclined, bevel, **groove**, **blunt**)

Smartness

- Easy Click Mode for Chemistrie clips
- Optimum options for lens-mapping depending on cutting lenses
- Optimum options for roughing method depending on cutting lenses

- Easiest and quickest way of making Chemistrie clips
- Both sides or single side feeling for normal, frame change, EX lens, and bevel-shortage check modes
- Normal roughing for all materials for quick cutting, and Spiral or Axial roughing for safer cutting.

Powerfulness

- Various data editors enable unlimited creativity and professional job processing
- One-stop processing from wheel-cutting to drilling

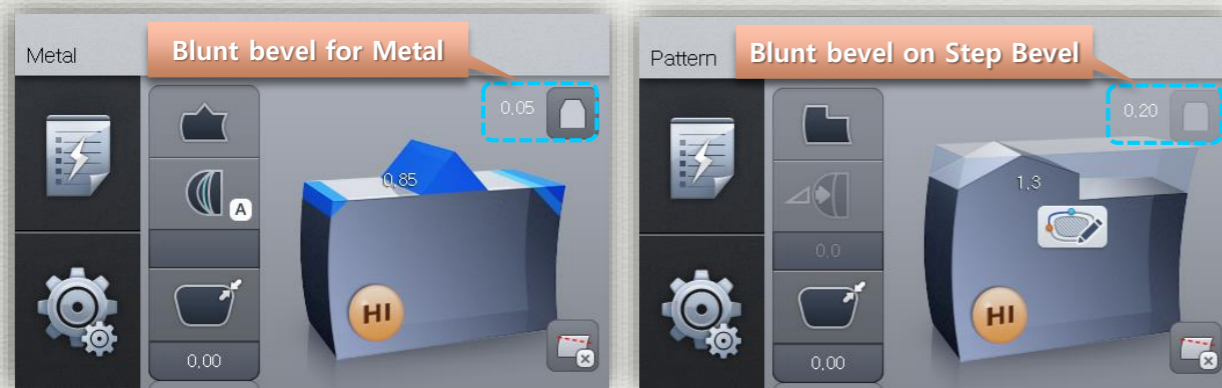
- Digital pattern, Scan & cut data editor, Asymmetric bevel editor, Step bevel editor, Hole editor, Edging position editor, **Grooving shape editor**, Combined grooving editor
- Cutting process is rearranged intelligently depending on job design and lens profile.



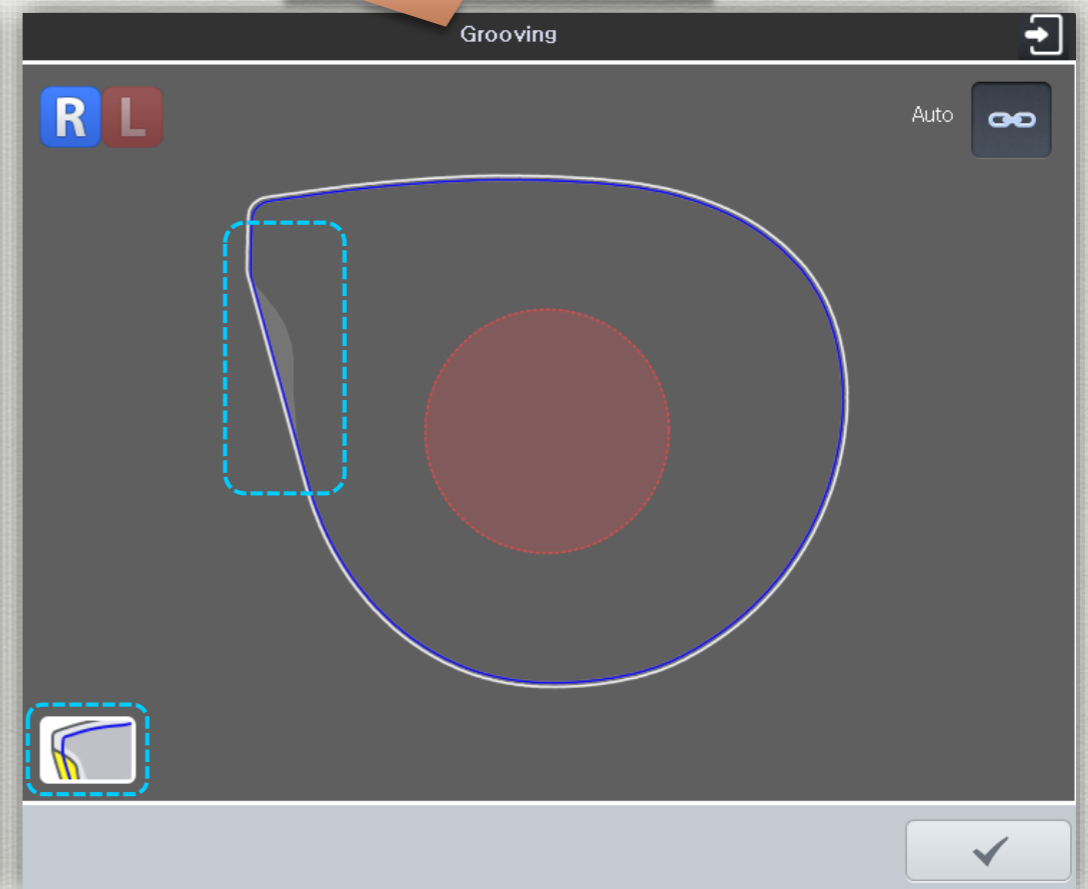
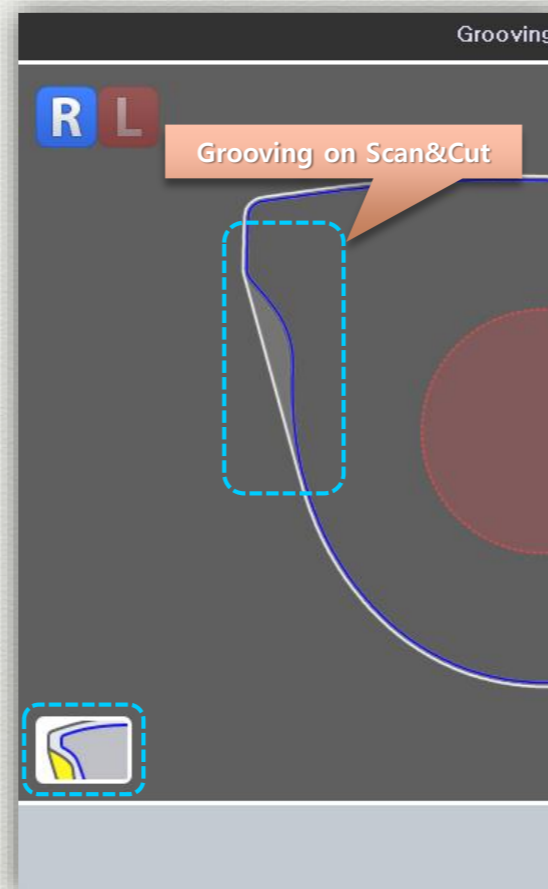
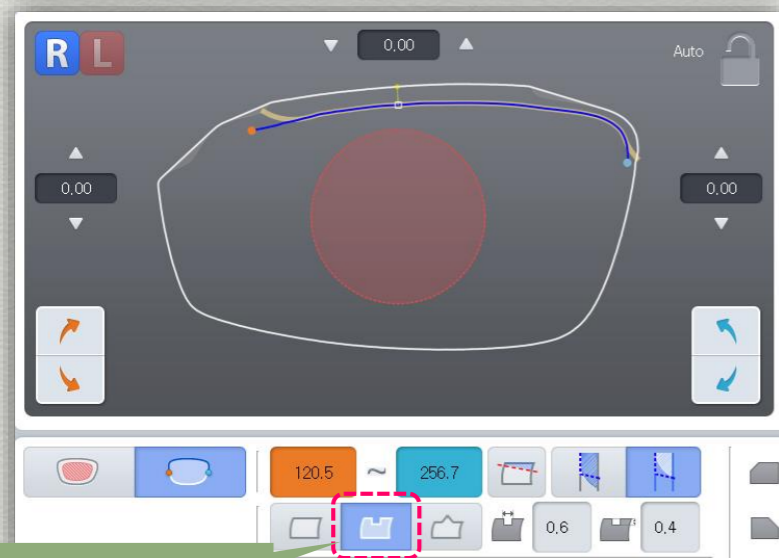
5 Insights of The Expert

New Features & Sales Points

❖ Lens Processing – cont'd



Grooving Shape Editor



5 Insights of The Expert

New Features
& Sales Points

❖ Safe Processing

Efficiency

- One touch of the 'Hydrophobic Processing Mode' sets all the options for safe processing

- Roughing mode, Clamp pressure, Safety mode, and Rotation speed

Smartness

- Smart load-balancing cutting algorithm supported by load-checking sensor

- It **guarantees both the safety and speed** of lens-cutting

Powerfulness

- Wider and more stable block adaptor
- Enhanced flexibility in the adaptive chuck
- More stability in lens-clamping mechanism
- High performance roughing wheel and wheel arrangement

- **Wider block adaptor** gives wider and more solid grip on the leap block and lens
- **New adaptive chuck** is free to move in all directions smoothly with no head backlash
- Overall clamp mechanism enhances the pressure transmission
- New roughing wheel is improved with cutting performance, and changed to **super-wide type for RPA** configuration, and changed in arrangement to have PL and GL roughing side by side for RPGA



5 Insights of The Expert

New Features
& Sales Points

❖ Perfect Fitting

Flexibility

- Flexible activation of 'Retouch Mode'

- **Post process after finishing stage can be continued by the retouch mode** even it's stopped

Efficiency

- Preset fitting size for each materials
- Pre-categorized retouch modes
- Selective execution of retouch options

- Metal, Hard plastic, Soft plastic, **Ultem**, and Pattern
- Wheel-cutting, Drill-only, or Both
- Size/polishing, Beveling, Grooving, Safety beveling, Scan & cut, Drilling, Step beveling

Smartness

- Auto adjustments on size/PD for first fit, minimize error and retouch rate
- Auto position for bevel and groove
- Supplementing options in 'Retouch Mode'

- By considering lens and frame curves, and the tilting angle of frames, it calculates 3D adjustments for size and PD
- Auto position sets bevel or groove at the most esthetic and balanced position according to lens profile
- Polishing, grooving, safety beveling, and inclined cutting can be added afterward when it's missed

Powerfulness

- New retouch functions loaded for experts

- For **bevel height, groove or bevel range** in combined cuttings, **scan & cut**

Perfectness

- Alleviate the strain on mounted lenses
- Squeak-free fittings

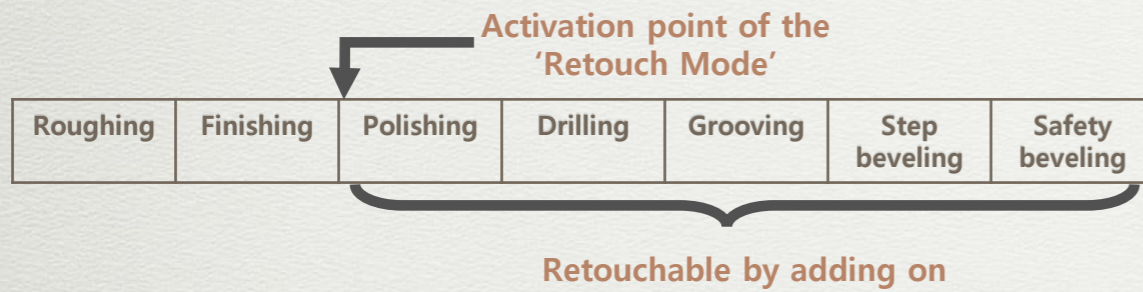
- **Blunt bevel for metal frames** alleviate lens strain
- **Blunt bevel for plastic and step bevel rims** gets perfect mounting of the lens with no squeak



5 Insights of The Expert

New Features & Sales Points

❖ Perfect Fitting – cont'd



Edging | Digital Pattern | Hole Editor | **Frame Fitting**

Master Size: 0,00

Metal

Horizontal: 0,00

Vertical: 0,00

Hard Plastic

Horizontal: 0,00

Vertical: 0,00

Soft Plastic

Horizontal: 0,00

Vertical: 0,00

Ultem

Horizontal: 0,00

Vertical: 0,00

Pattern

R Retouch

Bevel height retouch

0,00

0,85

0,10

Start

R Retouch

Range retouch

0,00

0,40

0,60

Scan&Cut retouch

Start

Partial Grooving

Auto

90,0 ~ 270,0

0,40 0,60

Start



Major Changes

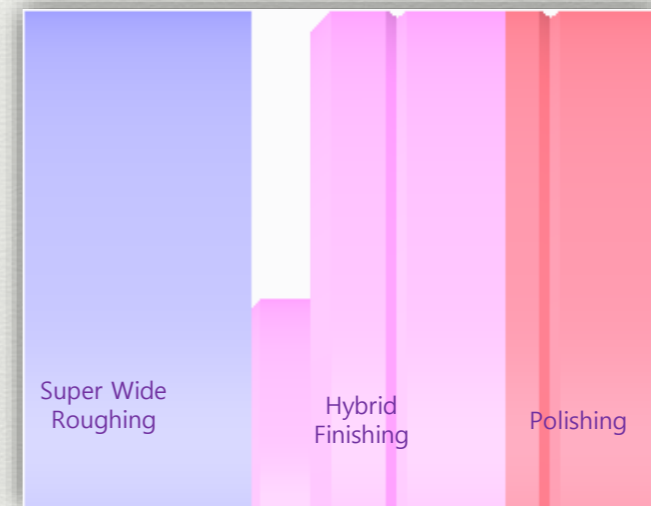
Comparison
with 8000X

❖ Main wheel

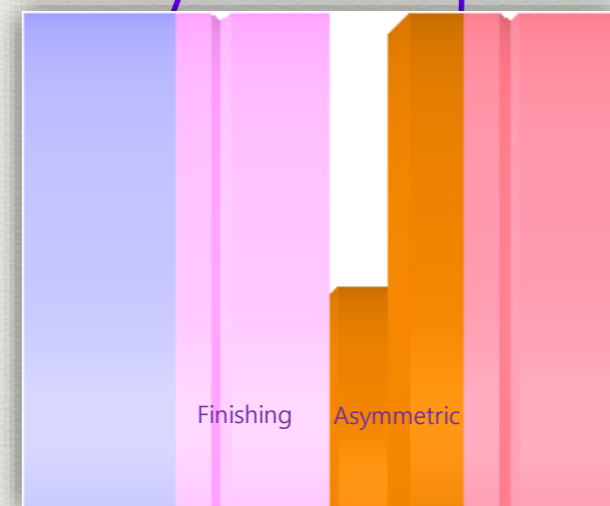
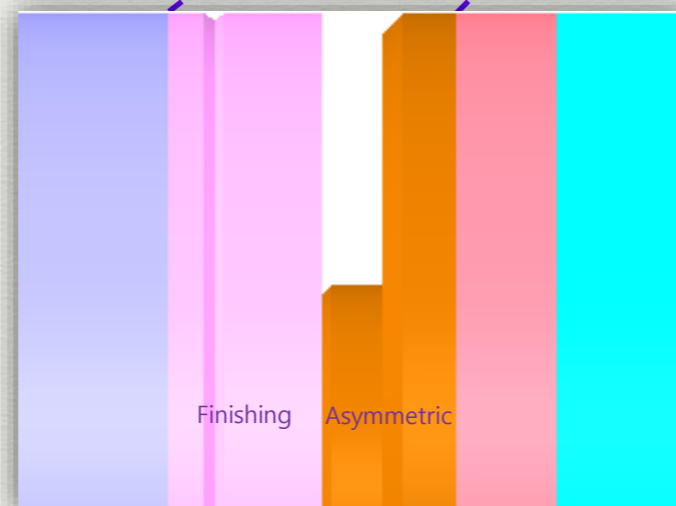
RPGA

RPA

HPE-910



HPE-8000X



Major Changes

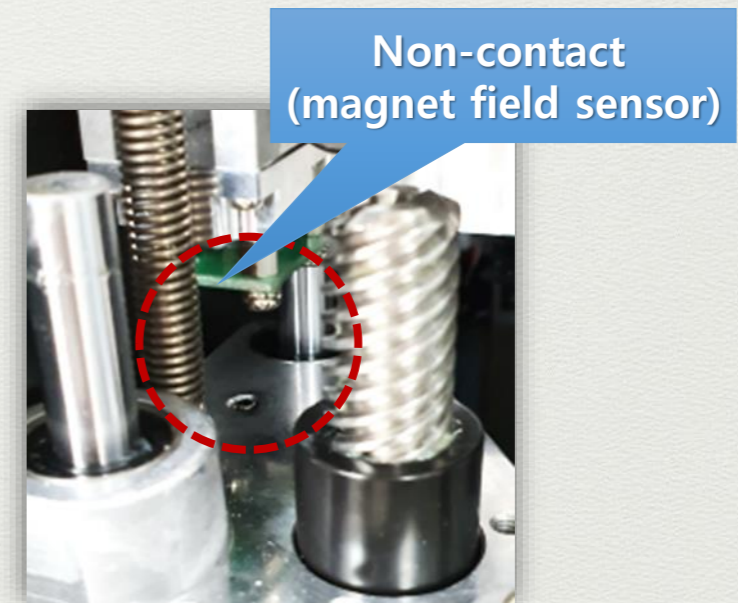
Comparison
with 8000X

❖ Carriage Sensor



Maintenance period
< 12 months

HPE-8000X, HPE-810



Maintenance period
not specified

HPE-910

Major Changes

Comparison
with 8000X

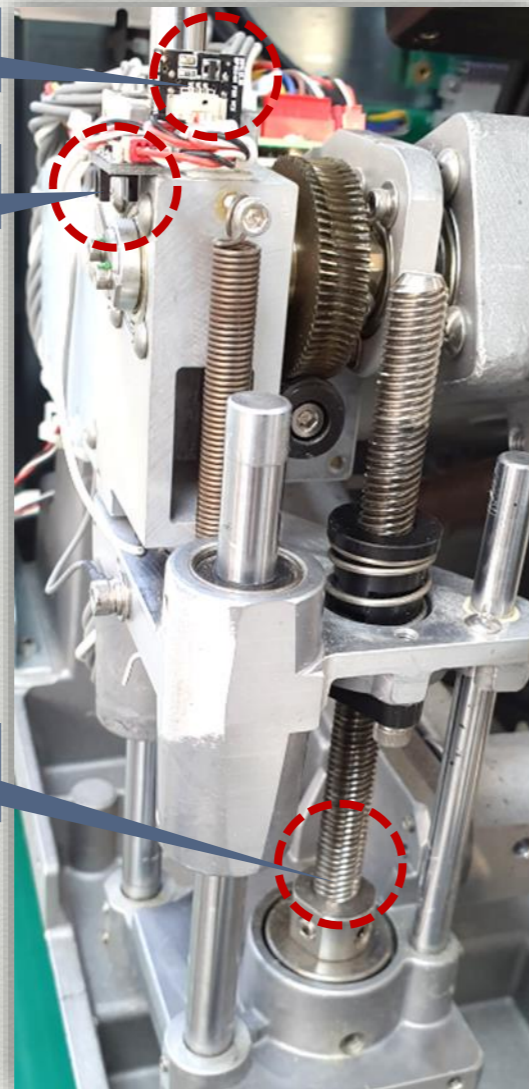
❖ Y/R Movement

- Degradation of sensor by dust/electrical stress
- Low speed thread

PI (Y-axis)

PI (R-axis)

Y screw



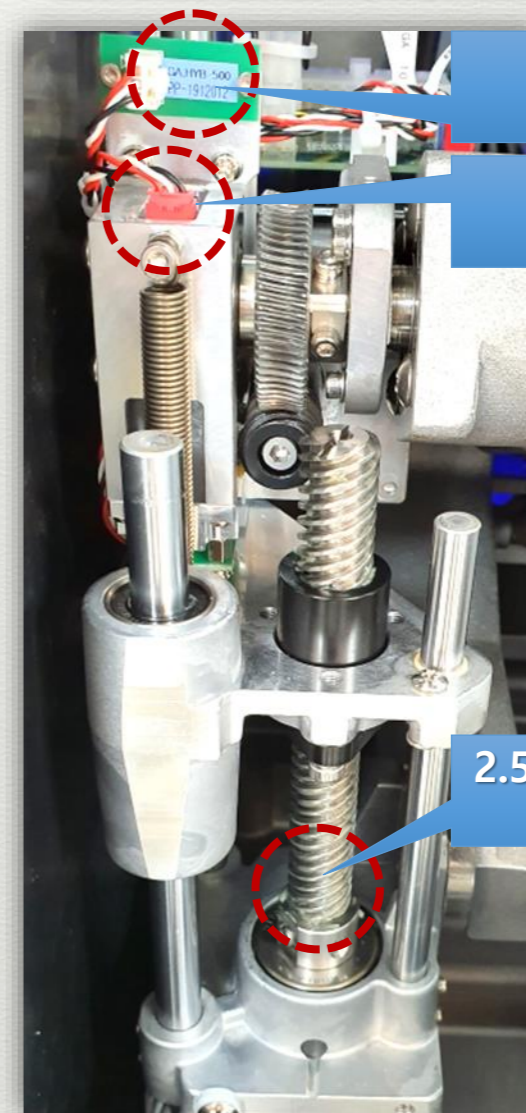
HPE-8000X, HPE-810

- No sensor degradation
- High speed thread

Magnet field
(Y-axis)

Magnet field
(R-axis)

2.5x higher speed
Y screw



HPE-910

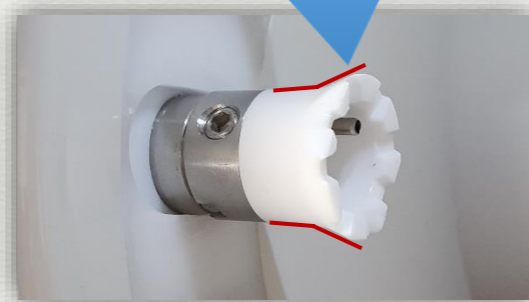
Major Changes

Comparison
with 8000X

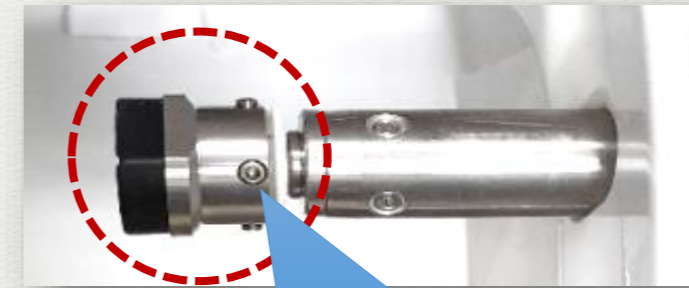
❖ Clamp Adaptor & Adaptive Chuck

HPE-910

Wider block
adaptor



More stable pressure
transmission



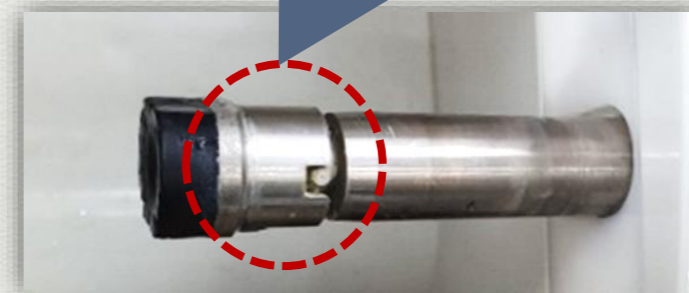
Flexible in all
directions with no
head backlash

HPE-8000X
HPE-810

Block adaptor



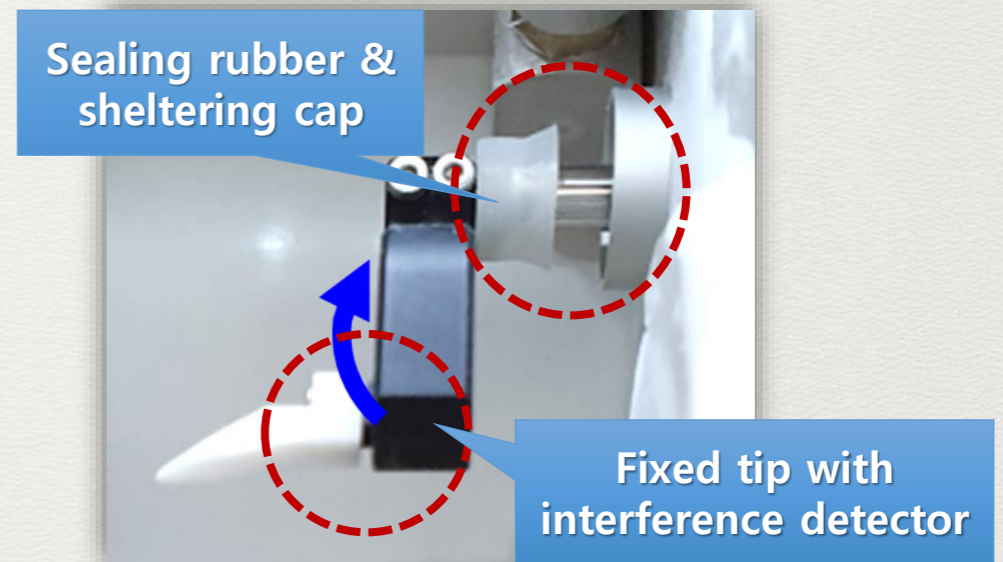
Adaptive in limited
directions with a little
head backlash



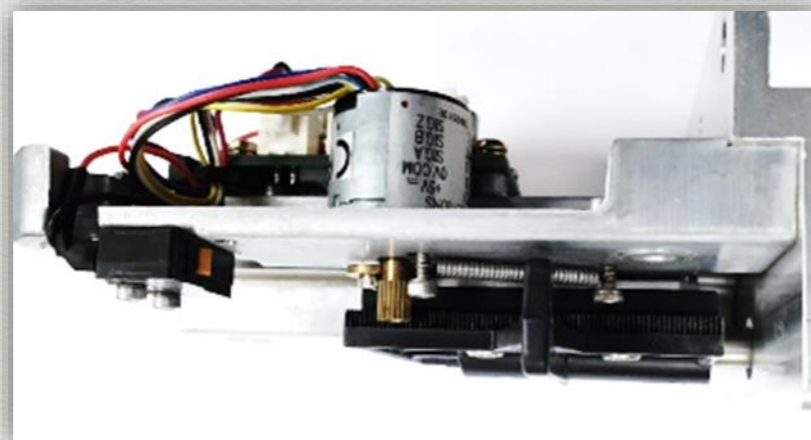
Major Changes

Comparison
with 8000X

❖ Feeler Arm & Movement



Enhanced durability and stability by metallic rail guide, encoder combined DC motor, and interference detector!



HPE-8000X, HPE-810

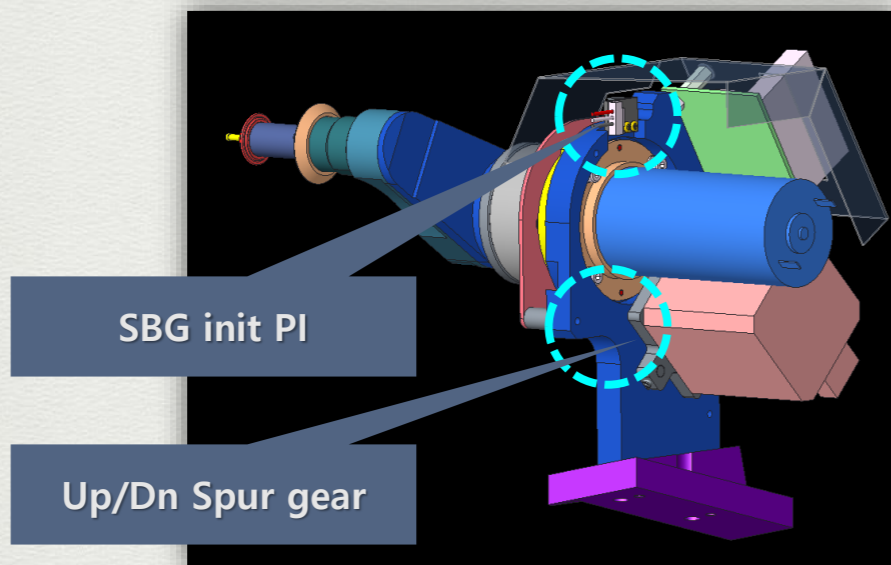


HPE-910

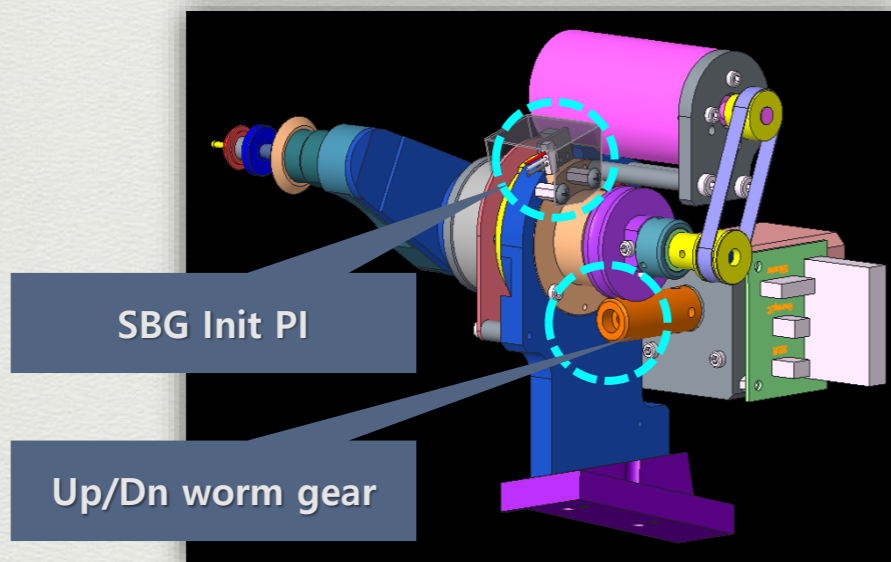
Major Changes

Comparison
with 8000X

❖ Safety Beveling & Grooving

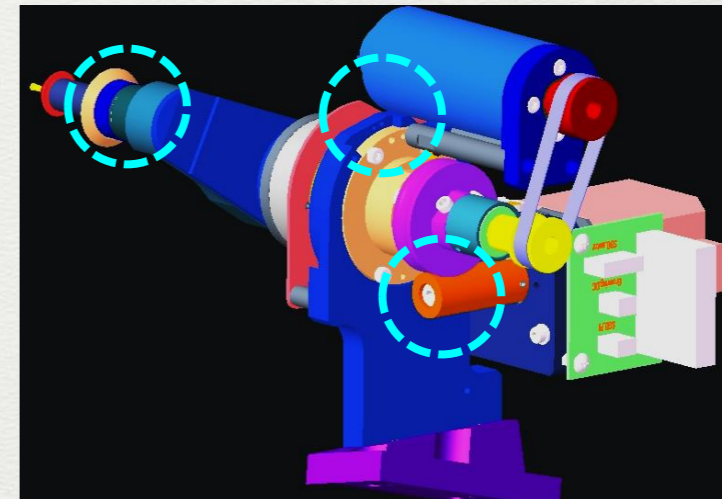


HPE-8000XN, HPE-810

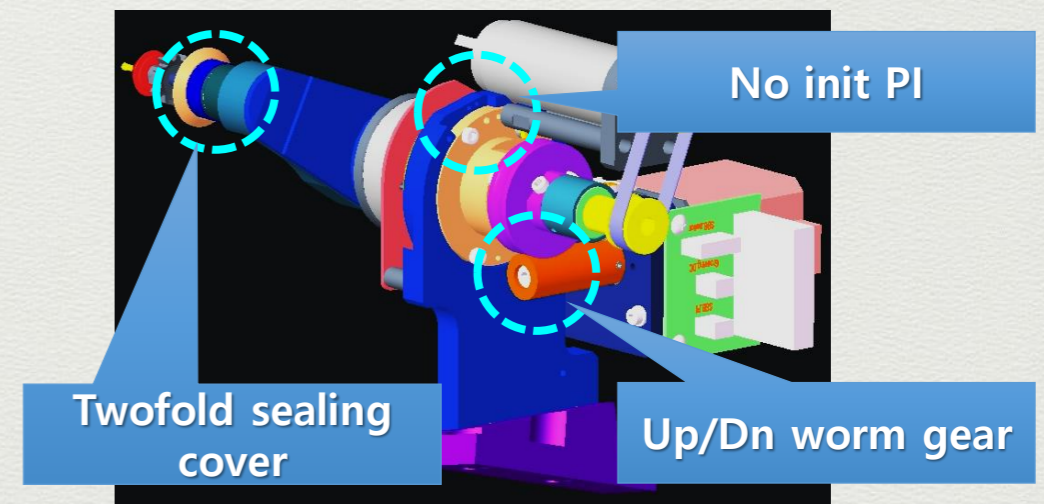


HPE-8000X

- No PI sensor failure
- No down stroke failure



HPE-910(D/N)



HPE-910(XD/X)

Major Changes

Comparison
with 8000X

❖ Built-in Drill

Avg. processing noise: 67dB
Standard lifetime: 3 years

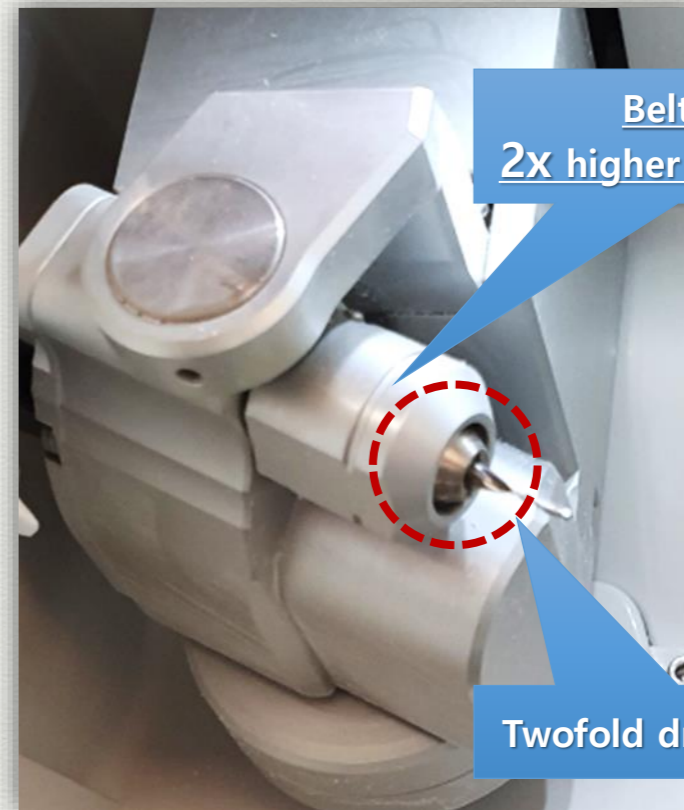
Gear-driven
spindle



HPE-810

Avg. processing noise: 56dB
Standard lifetime: 7 years

Belt-driven
2X higher speed spindle



HPE-910

Major Changes

Comparison
with 8000X

❖ Water Nozzle

Water supply is very limited on
the front side of the lens!



HPE-8000X, HPE-810



HPE-910



Features Comparison

Comparison
with 8000X

Feature/Function		HPE-810	HPE-8000X	HPE-910(XD)
Platform	GUI B/D	800 MHz	800 MHz	1 GHz
	Motor B/D	120 MHz	120 MHz	216 MHz
	LCD	9.7" 1024 x 768	9.7" 1024 x 768	9.7" 1024 x 768
	External Memory	SD card	SD card	SD card(16G)
AC Output	Pump	2 channel	2 channel	2 channel
	Vacuum I/F	O (option)	O	O
Major Modules	Feeler	Front & rear, simultaneous, Arm-bending	Front & rear, simultaneous, Tip-bending	Front & rear, simultaneous, Interference detector
	Clamp	Adaptive chuck, Position sensor added	Adaptive chuck, Position sensor added	Flexible Adaptive chuck, Position sensor added, Wider block adaptor
	SBG	Belt-driven spindle, Up/Down by spur gear, Standard spindle, Stroke calibration required	Belt-driven spindle, Up/Down by worm gear, 2.5X high-speed spindle, No Stroke calibration	Belt-driven spindle, Up/Down by worm gear, 2.5X high-speed spindle, No Stroke calibration, No PI sensor
	X/Y/R Movement	Normal-speed X/Y/R-axis, PI sensor (X/Y/R)	Normal-speed X/Y/R-axis, PI sensor (X/Y/R)	High-speed Y-axis, Magnet sensor (Y/R)
	Carriage Sensor	Electrical contact	Electrical contact	Non-contact magnet sensor

Features Comparison

Comparison
with 8000X

Feature/Function		HPE-810	HPE-8000X	HPE-910(XD)
Major Modules	Wheel & Wheel Motor	Ø 150, RPG type, 800W, 2 HP(Inverter), F/P Flat	Ø 125, RPGA/RPA type, 800W, 2 HP(Inverter), F/P Flat	Ø 125, RPGA*/RPA* type , 800W, 2 HP(Inverter), F/P Flat, High polishing
	Step Bevel Cutter	N/A	Tungsten carbide cutter, Fixed angle(12°)	Tungsten carbide cutter, Fixed angle(12°)
	Drill	Built-in, Gear-driven spindle, Tilting angle(0~30°)	External driller I/F (HDM-8000)	Built-in, Belt-driven spindle, 2X higher performance, Tilting angle(0~30°)
	Edging Room	Front center nozzle, LED illumination, Auto window	Front right-hand nozzle, LED illumination, Auto window	Top center nozzle, LED illumination, Auto window

*) HPE-910 is applied with new high-performance roughing wheel, and super wide type for RPA additionally.

Features Comparison

Comparison
with 8000X

Feature/Function		HPE-810	HPE-8000X	HPE-910(XD)
Edging Types	Bevel	3 (Normal, Mini, Partial)	6 (Normal, Mini, Partial, Asymmetric, Semi-U, Step)	7 (Normal, Mini, Partial, Blunt , Asymmetric, Semi-U, Step)
	Grooving	4 (Normal, Partial, Dual, Hybrid)	4 (Normal, Partial, Dual, Hybrid)	5 (Normal, Partial, Dual, Hybrid, Grooving on Scan & Cut)
	Step Bevel	N/A	21 (7 types X 3 edge styles)	35 (7 types X 5 edge styles)
Edging Options	Hydrophobic Mode	○	○	○
	Roughing Mode	Normal, Spiral, Axial	Normal, Spiral, Axial	Normal, Spiral, Axial
	Position	Basic(% , mm, base curve), Auto, Manual(w/ simulation)	Basic(% , mm, base curve), Auto* , Manual(w/ simulation)	Basic(% , mm, base curve), Auto* , Manual(w/ simulation)
	Polishing	○	○↑	○↑↑ (high glossy)
	Inclined Cut	N/A	○	○
Fitting Enhancement	Auto Fitting	○	○	○
	Retouch	Size, Polishing, Grooving, Safety beveling, Drilling	Size, Polishing, Grooving, Safety beveling, Drilling, Step beveling	Size, Polishing, Grooving, Safety beveling, Drilling, Step beveling , Scan & cut , Bevel height , Range of bevel or groove(combined cutting)
Drilling	HDM-8000 Connectivity	○ (ND type only)	○ (All types)	○ (Non-built-in-drill types)
	Chemistrie Clip	○	○	○
	Scan & Cut	○ (option)	○	○

*) Auto bevel position has been enhanced since 2019.

Introduction to New HERA Intraworks

HERA Intraworks

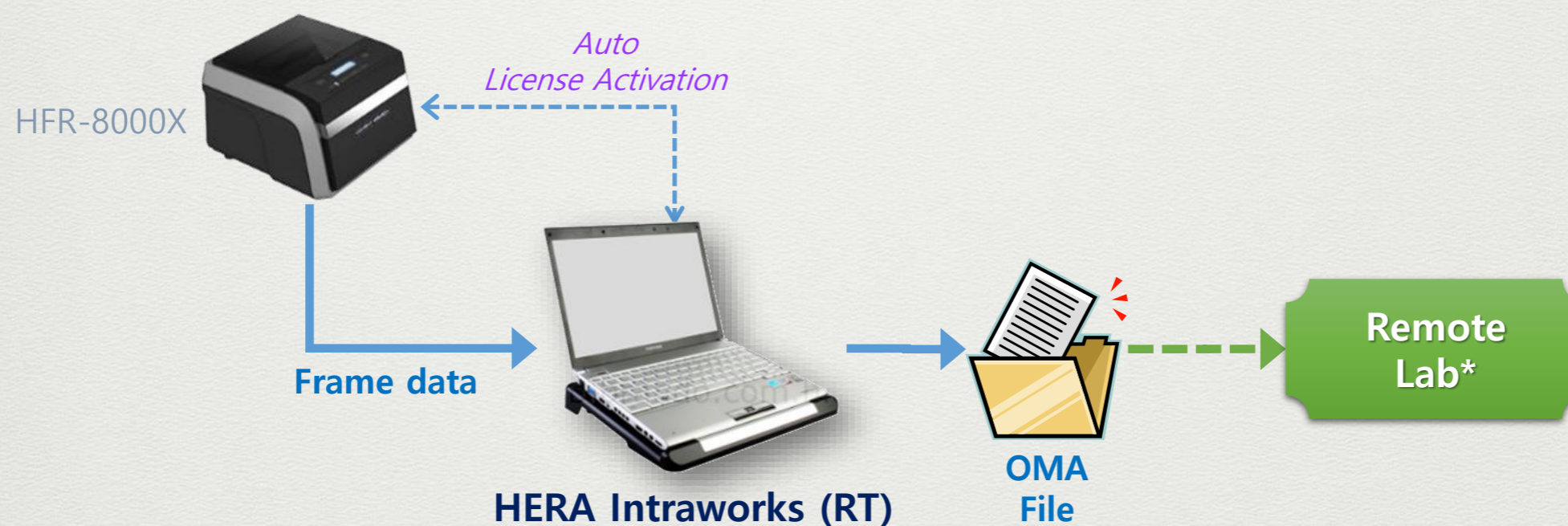
❖ March-2020, Release plan

Version	Purpose	License Issuing	Comment
RT	Remote Tracing Solution	Serial # of Tracer	<ul style="list-style-type: none">- RT version is <u>to help establish the simplest remote tracing environment</u> by the acquisition of tracing data and automatic export of it in OMA format for the customer to upload it to LAB-ordering site.
STD	In-Office Solution	Serial # of PC	<ul style="list-style-type: none">- Standard version <u>serves as a data server among Huvitz finishing instruments</u> and provides connections up to the capability of PC.- Its simple interface allows data edition, job assignment, and job import/export even in OMA format which can be automated by options.
HOST	Hybrid Networking Solution	Serial # of PC	<ul style="list-style-type: none">- On the basis of DCS(OMA), HOST version <u>provides configuration with Huvitz and 3rd party finishing instruments.</u>- It may replace the DCS Host software by providing minimum functionality.

Introduction to New HERA Intraworks

HERA Intraworks

❖ Remote Tracer version



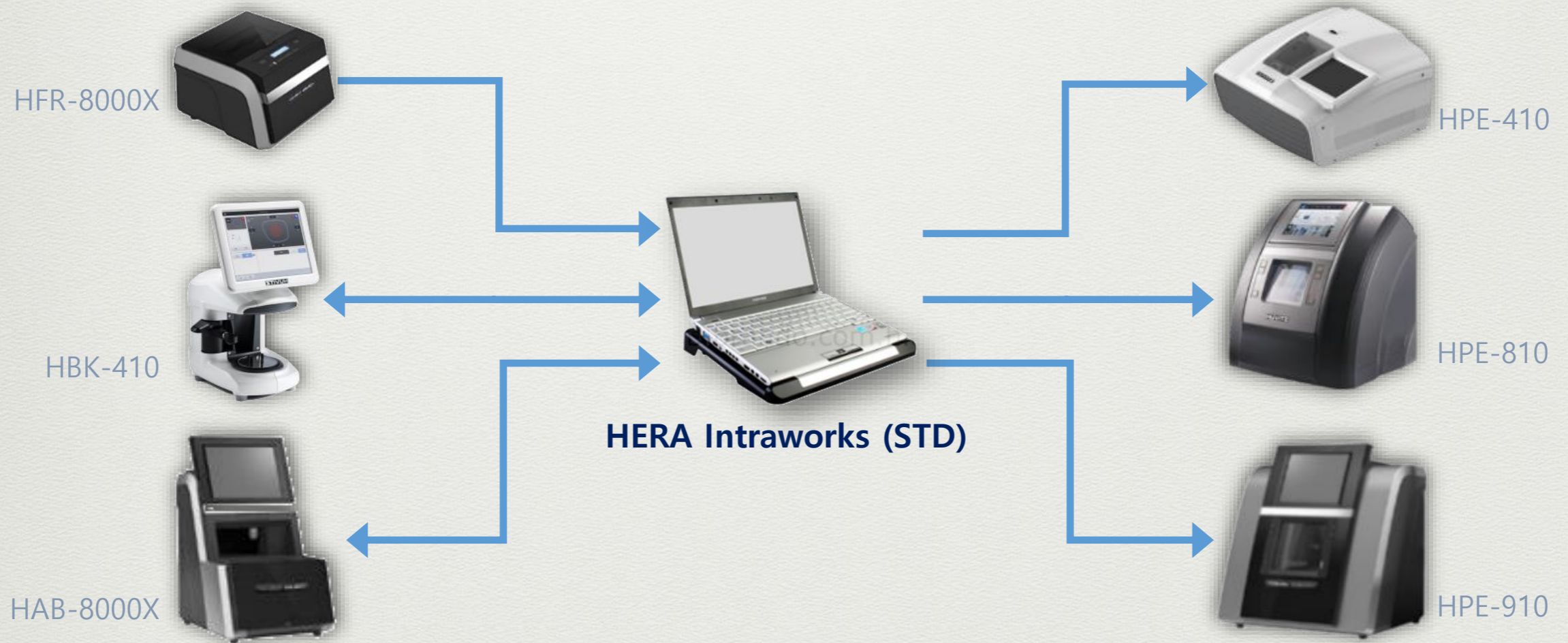
* License key for RT version is issued by the serial number of the tracer, not by the serial number of customer's PC.

* Remote Lab receives job data via a Lab Management Software, or can make an economic solution with the combination of email and HERA Intraworks(STD).

Introduction to New HERA Intraworks

HERA Intraworks

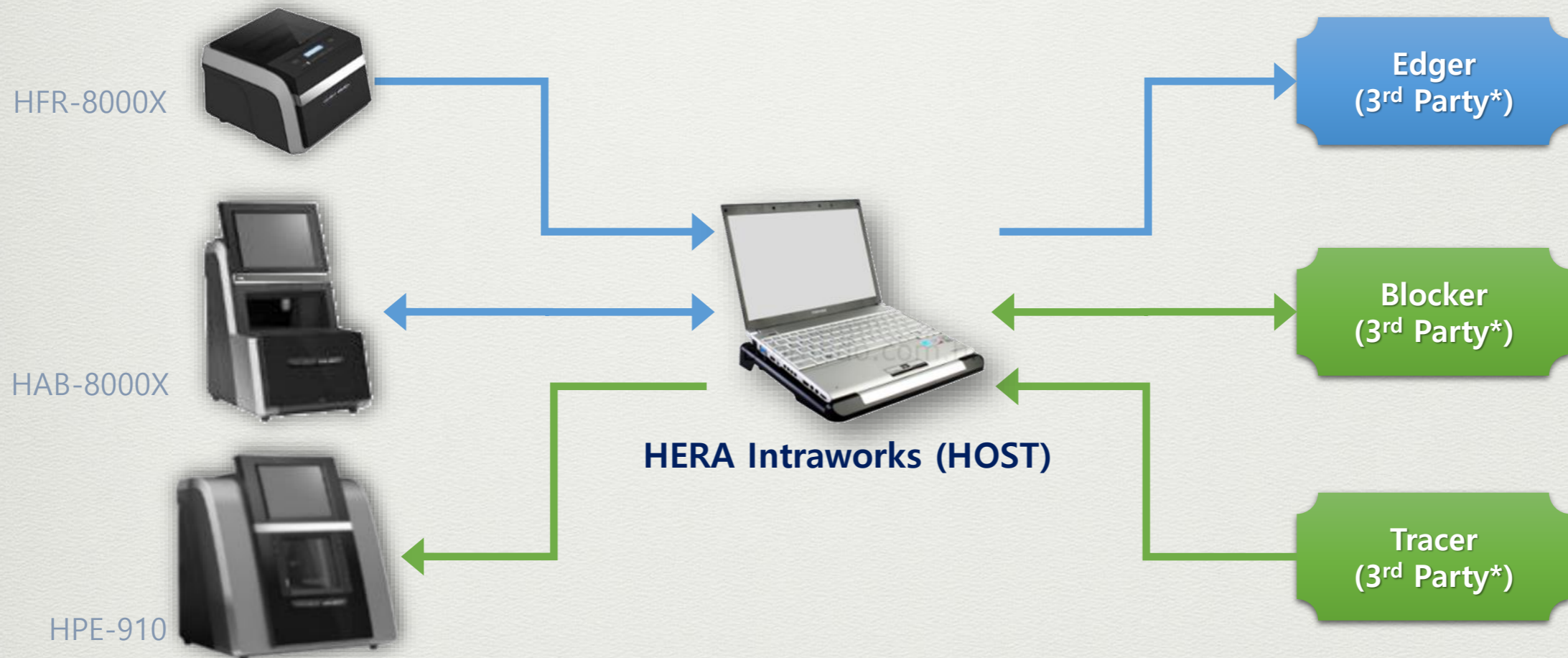
❖ Standard version



Introduction to New HERA Intraworks

HERA Intraworks

❖ Host version



* To make it work with Huvitz solution, a 3rd party instrument should be **OMA-compatible** and a **compatible chuck adaptor** should be available.

* **Contact your regional sales manager in Huvitz for checking the compatibility and availability (Detailed information about customer's 3rd party instrument is required.)**

TO GET MORE INFORMATION ...

More Support

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

