The “FINISHER”

Pushing the Limits of Lens Finishing

# The Ultimate Finishing System
# Huvitz HPE-990

Huvitz CONNECTING SIGHT SUCCESS

# Goodbye to Slipperiness

## Hydrophobic and high-curved lenses are mastered with Ultimate Power. HPE-990

There are no limits to lens processing.
With ultimate power and smart control, slipperiness is no longer an obstacle.
The Huvitz HPE-990 features a motor 1.7 times more powerful than its predecessor and a stable clamping system.
These innovations ensure safe and precise processing of specialty lenses, such as hydrophobic and high-curvature lenses, without axis misalignment.
Additionally, it supports Deep Step Bevel processing up to 20mm, enabling tailored solutions for trendy demands like Lens Over Frame Sunglasses.
Experience the reliability and power provided by the Ultimate Power.
Discover the strength of the HPE-990.

## Axis Safety
### Wheel Motor & Clamping System

With 1.7 times more power and 1.5 times faster speed compared to previous models, the enhanced wheel motor and upgraded clamp system deliver increased efficiency and stability.
The Xtra Large Block Adapter further reduces processing time while ensuring stability without axis misalignment.

## First Mover
### Deep Step Bevel

The HPE-990 supports Deep Step Bevel processing up to 20mm, allowing for versatile and shape lens processing, including Lens Over Frame Sunglasses.
It offers combinations of two types and five edge styles, enabling various kinds of processing such as beveling, grooving, and more.

## One-stop Solution
### Integrated Drill System

With a high-performance built-in drill, the Scan & Cut shape groove processing is completed twice as fast as before.
From drill processing to deep step beveling, the integrated system ensures an optimal workflow with a one-stop solution

## User-friendly
### Smart Editing Tools

The menu system is designed with a tree structure for intuitive and convenient tool access.
Smart editing tools, such as those for step beveling, Scan & Cut, beveling position adjustments, and retouch mode, are easy for anyone to use, delivering superior results.

# Strong Against Slippage and Curves

## Ultimate Power, HPE-990, for safely processing coated and curved lenses

Even the most challenging materials can be processed quickly and safely with Ultimate Power and Smart Control.
The HPE-990 features a wheel motor with 1.7 times more power and 1.5 times faster speed than its predecessor, along with an expanded block adapter.
These upgrades enable precise axis control, minimizing misalignment when processing hydrophobic coated lenses and high-curvature lenses.

## 1.7x Power and 1.5x Speed / Ultimate Power Wheel Motor

The ultimate power of the wheel motor and smarter control ensure the fastest processing ever without trading off the safety and precision even for ultra-hydrophobic poly lenses.
With the enhanced hydrophobic mode the safety is reinforced by allowing control on the pressure, speed, and safety option with one touch of a button.
The powerful wheel motor along with the ability of deep step beveling and finishing bevels up to 10 base, supported by new RPDA wheel type, make up the core of Ultimate Finishing System.

RPDA Type Wheel / Hydrophobic Lens Processing Mode

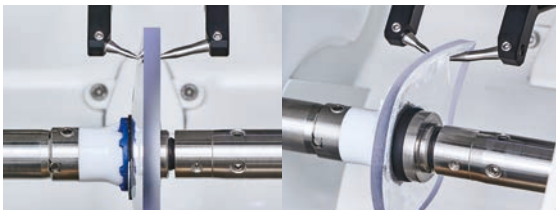
## Stable Processing and Axis Control / Clamping System

The upgraded clamp and Xtra Large Block Adapter not only minimize lens processing defects but also ensure safety and deliver 1.7x more powerful cutting force.

Adapted Chuck-Equipped Clamp / Xtra Large Block Adapter

## Superior Precision and Durability / Metal Feeler

By upgrading the feeler tip to metal, the precision and durability are maintained, and it resists residue caused during the processing of PC (polycarbonate) lenses.



Metal Feeler / Processing of PC Material Lenses

## Quick Fitting Completion / Material-Specific Size Storage

Like tracing, the system supports four frame materials: metal, hard plastic, soft plastic, and Ultem.
By pre-registering size standards for each material, glasses can be fitted more swiftly and efficiently.

## Precise Finishing / Retouch Function

If the beveled shape does not match the frame after processing, the bevel height can be retouched to fit as a mini bevel.
If there is rear edge interference, additional angled beveling can ensure precise finishing.
Depending on the job, you can add new steps like grooving, polishing, or beveling, or retouch specific stages such as grooving or drilling.
This maximizes fitting efficiency and minimizes processing time.

Grooving Shape / Retouch Mode

## Convenient 3D Simulation / Manual Position Editor

By selecting manual position mode, you can designate the most optimal bevel location for the frame based on the lens curvature and thickness.
With 2D editing and 3D simulation, the work becomes intuitive and straightforward.
For standard frames, the auto position mode ensures convenient processing in alignment with the golden ratio.

Mini Bevel Shape / Manual Position Editor

## Intuitive Indicators / Smart LED

The status LED assists effectively to prevent the small but catastrophic error of treating wrong side lens by Right/Left color-coded indication of processing/ processed side, along with the color-coded block adaptor and layout display.

R/L Color-Coded Display / Status LED

# Introducing an Exclusive Processing Recipe

## Deep Step Bevel technology for ultra-precise lens finishing, HPE-990

Perfectly suited for the most on-trend frames from major brands, Deep Step Bevel accommodates Lens Over Frame Sunglasses and other modern demands seamlessly.
With a built-in high-speed drill, it also handles complex Semi-T Bevel shapes quickly and accurately.

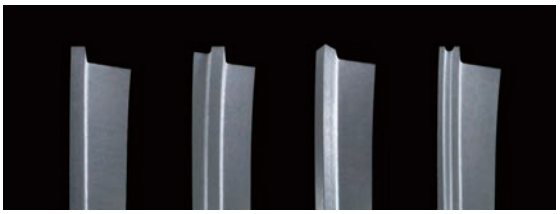
## Optimized for Overframe Lenses / Deep Step Bevel

Ideal for trendy frame designs, including Lens Over Frame Sunglasses, as well as deep step bevel processing of up to 20mm or more.
It offers combinations of two types and five edge styles, enabling various kinds of processing such as beveling, grooving, and more.

Lens Over Frame Sunglasses Shape / Deep Step Bevel Editor

## Diverse Processing Recipes / 35 Step Bevel Styles

With 7 types and 5 edge styles, the diverse step bevel processing options ensure a perfect fit for any demand.

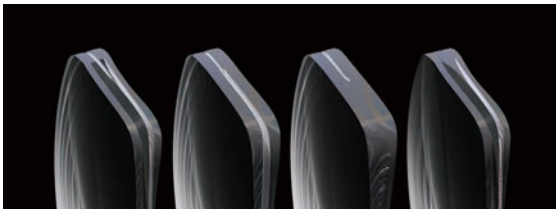


Step Bevel / T-Step Bevel / Beveled Top / Grooved Top

## Perfect Mix & Match / Versatile Hybrid Processing

By combining bevel, rimless, and grooving in four Hybrid processing styles, the final fitting is more refined and enhances the value of the frame.

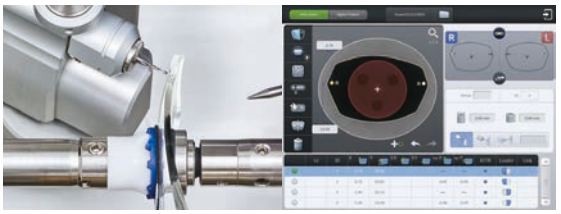
- Partial groove (grooving + rimless)
- Dual groove (basic grooving + special grooving)
- Hybrid groove (grooving + bevel)
- Partial bevel (rimless + bevel)



Hybrid Grooving / Dual Grooving / Partial Grooving / Partial Bevel

## One-stop Workflow / Integrated Drill Processing

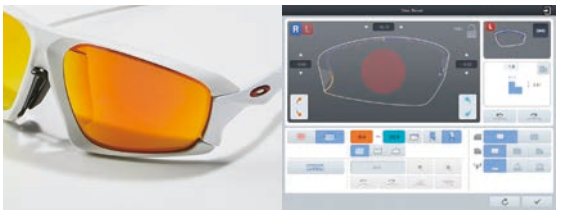
With a significantly more powerful high-speed built-in drill, even complex Semi-T Bevel processing is achievable and completed twice as fast as before.
From drill processing to deep step beveling, this integrated system ensures an optimal one-stop workflow.



Built-in Drill / Hole Editor

## Precision Customization / Step Bevel Editor

With the ability to process full and partial steps on the front, rear, or both sides, a total of 7 types of step bevel processing are possible.
The edge finishing for step bevels can be customized to optimize fitting for frame grooves, with options including rimless, bevel, grooving, and blunt bevel finishes.



Step Bevel Shape / Step Bevel Editor

## Versatile Design Implementation / Scan & Cut Data Editor

The Scan & Cut shape data editor allows for easy adjustments, such as reducing or eliminating vent holes. It also supports grooving for concave shapes, ideal for handmade frames and unique designs from house-brand frames.

Scan & Cut Shape / Scan & Cut Data Editor

# Huvitz HPE-990 The Ultimate Finishing System

## Specifications

| | |
|---|---|
| Lens Material | Plastic, High index plastic, Polycarbonate, Trivex, Glass |
| Edging Type | Bevel, Mini bevel, Partial bevel, Asymmetric bevel, Semi-U bevel, Step bevel, Deep step bevel, Groove, Partial groove, Dual groove, Hybrid groove, Rimless |
| Edging Position | Front %, Front mm, Rear mm, Base curve, Auto, Manual (with 2D simulation and 3D preview) |
| Edging Options | Polishing, Safety bevel, Safety mode |
| Built-in Drilling | Hole, Slot, Notch, Scan & Cut (custom shape), Chemistrie Clip |
| Functions | Job manager, Digital pattern,<br>Hole editor, Asymmetric bevel editor, Scan & Cut shape editor, Step bevel editor,<br>OMA import/export, CAD import/export, DCS/OMA compatibility,<br>Retouch mode (Normal, Drill-only, All) |
| Job Support | Half Jacket, Full Jacket (up to 6 base and 6 mm in depth)<br>Custom shape (Scan & Cut)<br>Chemistrie Clip<br>Lens-Over-Frame sunglasses<br>Rx Swimming goggles<br>VR Rx inserts |
| Utilities | LCD tilting<br>Automatic edging room door<br>Edging room illumination, Status LED<br>USB memory<br>Barcode reader interface, Vacuum interface |
| Edging Size | Max. 90 mm<br>Min. flat edging : 18.5 mm (without safety bevel)<br>Min. bevel edging : 20 mm (without safety bevel) |
| Display | 9.7" color TFT LCD (1024x768) with touch screen |
| Dimensions / Weight | 540(W) x 465(D) x 590(H) mm / 51 kg |
| Power Supply | AC 100-120 V / AC 210-230 V 50/60 Hz |
| Power Consumption | 100-120 V~ 50/60 Hz 1275 VA, 210-230 V~ 50/60 Hz 2060 VA |

| Product Type | | Step Bevel | Deep Step Bevel | Built-in Drill |
|---|---|---|---|---|
| PRO | RPDA*** | O | O | O |
| XD | RPA*, RPGA** | O | X | O |
| X | RPA, RPGA | O | X | X |
| D | RPA, RPGA | X | X | O |
| N | RPA, RPGA | X | X | X |

* RPA type comprises high-speed super wide roughing wheel and hybrid finishing wheel.
** RPGA type comprises high-speed roughing wheel, glass wheel and hybrid finishing wheel.
*** RPDA type comprises high-speed super wide roughing wheel, hybrid finishing wheel and deep step bevel wheel.

| Lens Material | RPDA | RPA | RPGA |
|---|---|---|---|
| Plastic | O | O | O |
| Hi-index | O | O | O |
| Polycarbonate | O | O | O |
| Trivex | O | O | O |
| Glass* | X | X | O |

* Glass lens is not supported with grooving, polishing, step beveling, and drilling.

| Edging Type | RPDA | RPA | RPGA |
|---|---|---|---|
| Mini bevel | 0.1 ~ 0.8 | | |
| Asymmetric bevel | Front: 0.1~0.8, Rear: 0.1~2.5 | | |
| Semi-U bevel | Width: 0.1~1.0, Rear: 0.1~2.5 | | |
| Bevel polishing | X | O | X |
| Combined edging | Partial bevel, Partial groove, Dual groove, Hybrid groove | | |
| High base bevel | ~ 10 | ~ 7 | ~ 7 |

Specification and design are subject to change without notice.

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