

## MASTER YOUR EDGING



ES 700

## DECADES OF BUILDING TRUST IN FINISHING

Essilor Instruments has been a pioneer in the finishing industry, serving Eye Care Professionals (ECPs) since 1954.

With decades of expertise in edging and mounting, enriched by its lens and frames proficiency, Essilor Instruments is committed to cutting-edge research and innovation, making it a credible and steadfast brand in the industry.

Essilor Instruments sets the benchmark in finishing performance, quality, and service to ECPs globally through its extensive worldwide network of technical experts.<sup>1</sup>

### ES™ 700

A compact and user-friendly in-store finishing system, composed of the **ES™ 700 edger** and **TCB™ 800, Automatic Tracer-Centerer-Blocker (TCB)**. It is the perfect solution to reach **precision with ease**.

### ES™ 700M

A hybrid version, **ES™ 700M**, with dual technology that combines **milling and grinding**, is capable of **securing hydrophobic or delicate lenses**, reducing the smell for Mid and High Index materials (MHI), and diminishing lens swarf, as well as water consumption.

It incorporates Essilor Instrument's state-of-the-art technologies<sup>2</sup>, allowing for **swift and accurate edging of all mountings including demanding eyewear**.

### MASTER YOUR EDGING FEATURES

	ES™ 700 combined with TCB™ 800	ES™ 700M combined with TCB™ 800
Myopia Fit Automatic & Manual centering	•	•
Advanced optical tracing mode for highly complex lens zones and automatic drilling hole detection	•	•
FULL High Curve™: 3D Binocular mechanical tracing	•	•
Fit 4 Frame Technology 2.0: Aesthetic and robust mountings in all finishes	•	•
Automatic Centering & Blocking with automatic adjustment of the centering data based on the 3-D parameters of the frame	•	•
Hydrophobic lens Management	Via Roughing	Via Milling
Fast Roughing Cycle (FRC)	•	•
Remote maintenance and software and library update including Embedded OMA shapes	•	•
Front side USB stick slot to integrate OMA shapes in local library	•	•
Job management	•	•

### FINISHINGS FEATURES

Bevel / Flat / Polish / Chamfering	•	•
Grooving & Drilling Tilt up to 30°	•	•
Mixed Finishing	•	•
High Curve bevel up to wrap 30° base 10	•	•
Shelf or asymmetric bevel with adjustable height	•	•
Mini-bevel	•	•
Step bevel	up to 3 mm depth	up to 3.5 mm depth
Back step bevel & Inclined back step bevel	•	•

### OTHER FEATURES

Screen Size TCB and position	12" / 16:9 — Multitouch Tiltable Top vertical heads up display
Screen Size Edger and position	10" / 16:9 — Multitouch Top right display
Dimensions Edger HxWxD (mm) and Weight (kg)	H : 497 — W : 585 — D : 518 — 63kg
Dimensions TCB (Tracer-centerer-blocker) HxWxD (mm) and weight (kg)	H: 597 — W: 306 — D: 515 — 25,9 kg
Power consumption & Power supply voltage TCB (Tracer-centerer-blocker)	250W — 240 - 110 V ~ 60/50 Hz 5-3 A
Power consumption & Power supply voltage Edger	1350W - 220 - 240 V ~ 60/50 Hz 10 A 2000W - 100 - 120 V ~ 60/50 Hz 12 A



CE

Made in France.

Please read the user manual attentively

ES™ 700, ES™ 800, TCB™ 800, Mr Blue 2.0®, Mr Orange®, M'Eye Sign™, M'Eye Shape™, M'Eye Clip™, M'Eye Diamond™, M'Eye Custom™ are trademarks of Essilor International.

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<sup>1</sup>-EssilorLuxottica Universal Registration Document of 2022. <sup>2</sup>-More details in continuation.

# 1 REACH SWIFT ACCURACY FOR ALL MOUNTINGS INCLUDING DEMANDING<sup>1</sup> EYEWEAR

## 1 PERFECT TRACING & CENTERING

Automatic centering and blocking for precise & accurate centering results, including for wrap-around frames for a correct fit. Independent of lens marking and operator skills, TCB™ 800 automatically harmonizes frame base trajectory & adjusts centering data based on 3D parameters of the frame.

Includes an **optical center blocking mode**, useful in preventing de-axing for high-minus or prismatic lenses, and a **pad positioner** that helps operators to correctly position the pad on the edging block.



## 2 FIT 4 FRAME 2.0 TECHNOLOGY<sup>2</sup>

Nails down **the ideal fit of the lens** without any compromise on aesthetics for **all mountings and finishes**. Produces a diverse array of bevels. Accommodates **various groove profiles, including both front and back Step bevels**. Shape modification, available in **8 different points of the shape perimeter** for an exceptionally meticulous **customization**.



## 3 FULL HIGH CURVE TECHNOLOGY<sup>2</sup>

**Avoid risks of breakage** up to base 10 for wrap-around frames with a **self-adjusting process** combining a **roughing cycle** that automatically adapts to the curves of lenses. **Optimize bevel placement & shelf depth** for safe mounting **without undue lens stress**.

### OPTIMIZE WORKFLOW AND INCREASE PRODUCTIVITY<sup>3</sup>

**-20%**

Centering & blocking time is reduced by up to 20%.

**-75%**

Optical tracing time is reduced by up to 75% including drilling hole detection.

**-19%**

Edging time is reduced by up to 19% through the implementation of the **Fast-Roughing Cycle (FRC)**.

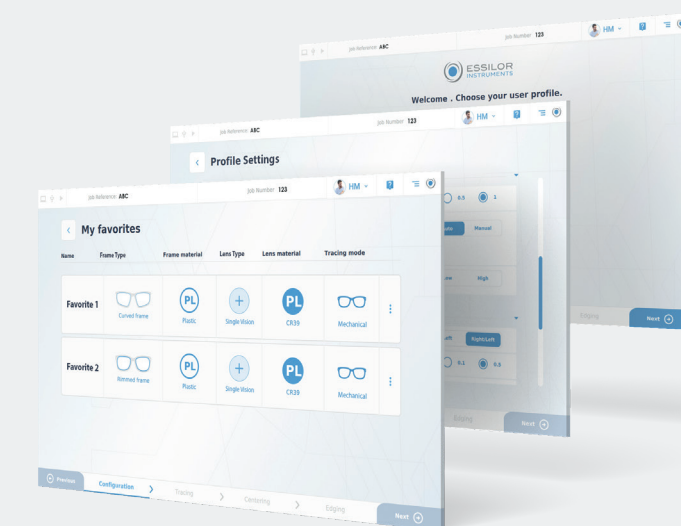
# 2 ENTER A NEW ERA OF USER-FRIENDLY AND INTUITIVE EDGING

## 1 PERSONALIZED INTERACTION

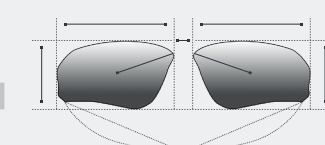
**Customized user experience** for each operator through saved preferred settings using **user profile**. Quick access to frequently used jobs via bookmarked **favorites**.

## 2 EASY TO PLAY INTERFACE

**Intuitive interface** for simplified operations. Delegable workflows for all operators with **varying levels of expertise**.



### DID YOU KNOW?



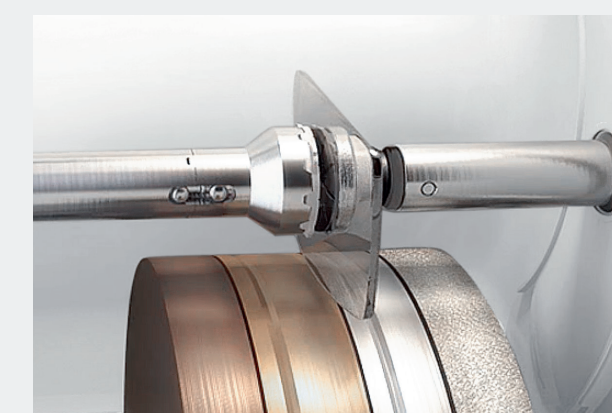
Thanks to TCB™ 800, you can benefit from a large & regularly updated library of frame collections including OMA shape files.

## 3 ELEGANT & COMPACT DESIGN

Sleek modern silhouette with **high-quality materials**. Convenient top right display with **10-inch multi-touch screen**. Enjoyable navigation experience with **3D views** that showcase every details.



# 3 OPTIMIZE AXIS PRECISION



## ES™ 700

WITH **REAL TIME CONTROL OF CUTTING FORCES**. THE **ROUGHING CYCLE** AUTOMATICALLY ADAPTS TO THE CURVES OF LENSES UP TO BASE 10.

**Giving better prowess and avoiding risks of breakage.** The bevel placement and shelf depth are optimized for safe mounting without undue stress on lens.



## ES™ 700 M

RAISE YOUR GAME WITH **ABSOLUTE AXIS CONTROL<sup>1</sup>** WITH ES™ 700M. THANKS TO ITS **HYBRID MILLING & GRINDING TECHNOLOGY<sup>2</sup>**

## DUAL-EDGING TECHNOLOGY

**Secures edging** for very slippery hydrophobic or delicate lenses. **Prevents axis deviation risks** and cuts all lenses with a perfectly controlled result.

## ECO-FRIENDLY DRY CUT TECHNOLOGY<sup>3</sup>

Reduce wet lens waste and unwanted odors with dry cut technology.



1-Demanding Eyewear requires specific parameters such as high base curves and specific bevel profiles. 2-Essilor Instruments gives its utmost importance to develop innovation and protect such innovation with the appropriate patent filing. 3-Internal PQV study performed in 2023-The improvements are demonstrated in a comparison between ES™ 700 and Mr Orange finishing systems, for rimmed frame without chamfering or polishing.

1-Essilor Instruments gives its utmost importance to develop innovation and protect such innovation with the appropriate patent filing. 2-Milling is available on ES™ 700M. 3-Internal analysis on water consumption performed in 2023 compared to Mr Blue™ 2.0.