

MASTER YOUR EDGING



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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.¹

ES™ 700

A compact and user-friendly in-office 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 a 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 Instruments' state-of-the-art technologies², **allowing for swift and accurate edging of all mountings including demanding eyewear**.

1-EssilorLuxottica Universal Registration Document of 2022. 2-More details in continuation.

1 REACH SWIFT ACCURACY FOR ALL MOUNTINGS INCLUDING DEMANDING¹ EYEWEAR

1 PERFECT TRACING AND CENTERING

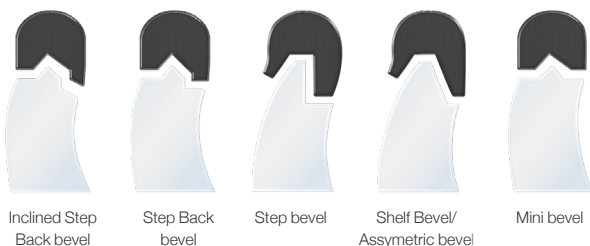
Automatic centering and blocking for precise and accurate centering results, including for wrap-around frames for a correct fit. Independent of lens marking and operator skills, **TCB™ 800 automatically harmonizes frame base trajectory and adjusts centering data based** on 3D parameters of the frame.

TCB 800 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 TECHNOLOGY²

TCB 800 nails down **the ideal fit of the lens** without any compromise on aesthetics for **all mountings and finishes**. It produces a diverse array of bevels and accommodates **various groove profiles, including both front and back step bevels**. Shape modification is available in **8 different points of the shape perimeter** for an exceptionally meticulous **customization**.



3 FULL HIGH-CURVE TECHNOLOGY²

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

OPTIMIZE WORKFLOW AND INCREASE PRODUCTIVITY³

-20%

Centering and 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)**.

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 EST™ 700 and Mr Orange finishing systems, for rimmed frames without chamfering or polishing.

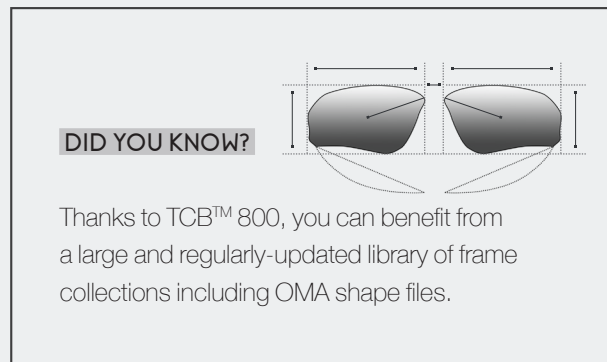
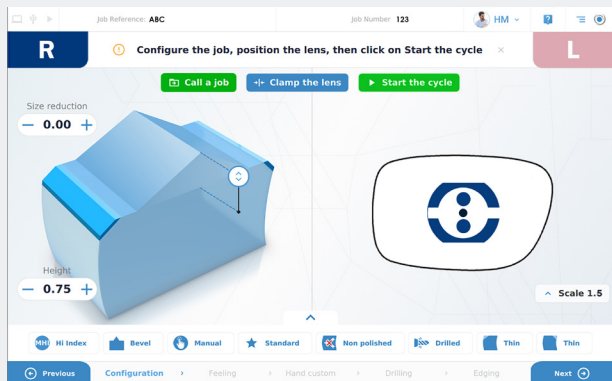
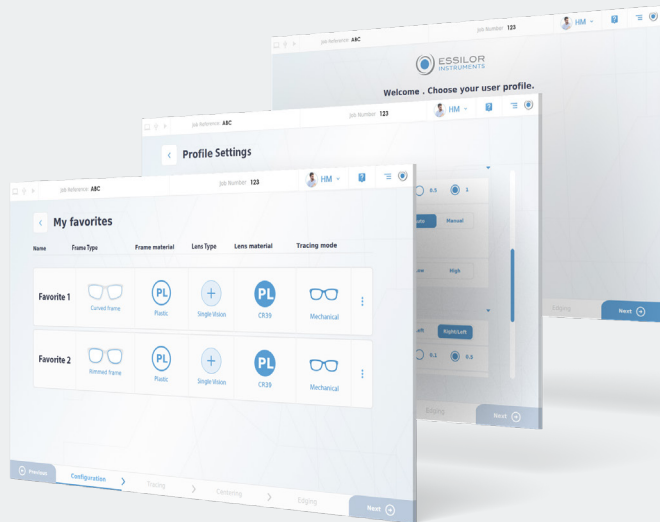
2 ENTER A NEW ERA OF USER-FRIENDLY AND INTUITIVE EDGING

1 PERSONALIZED INTERACTION

Customized user experience for each operator through saved preferred settings using **user profiles**. 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**.



3 ELEGANT AND COMPACT DESIGN

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



3 OPTIMIZE AXIS PRECISION



EST™ 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 lenses.



EST™ 700 M

RAISE YOUR GAME WITH ABSOLUTE AXIS CONTROL¹ WITH EST™ 700M. THANKS TO ITS HYBRID MILLING AND GRINDING TECHNOLOGY²

DUAL-EDGING TECHNOLOGY

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

ECO-FRIENDLY DRY-CUT TECHNOLOGY³




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











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.

MASTER YOUR EDGING FEATURES

	ES™ 700 combined with TCB™ 800	ES™ 700M combined with TCB™ 800
 Myopia Fit Automatic and 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 and 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 updates, including embedded OMA shapes	•	•
Front-side USB stick slot to integrate OMA shapes - TBC in a local library	•	•
Job management	•	•

FINISHINGS FEATURES

 Bevel / Flat / Polish / Chamfering	•	•
 Grooving and 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 and 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 (in) and Weight (lbs)	H : 19.6 — W : 23.0 — D : 20.4 — 139 lbs
Dimensions - TCB (Tracer-centerer-blocker) HxWxD (in) and weight (lbs)	H: 23.5 — W: 12.0 — D: 20.3 — 57 lbs
Power consumption and Power supply voltage -TCB (tracer-centerer-blocker)	250W — 240 - 110 V ~ 60/50 Hz 5-3 A
Power consumption and 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™,
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