

## FINISHING CATALOG









## TABLE OF CONTENTS

EDGING FUNCTIONS Standard and Advanced Finishing Specific Bevel	p. 3 p. 4 p. 5
Specific Jobs  PRO-E™ SERIES	p. 6 p. 8
MISTERS SERIES  NEKSIA™ SERIES	p. 10 p. 11
TRACER SOLUTIONS  ESSIBOX®	p. 12 p. 13 p. 14
LENSMETERS  LAB ACCESSORIES	p. 15 p. 16
SPECIFICATIONS  Edging Functions  Tracing Functions  Technical Design	p. 17 p. 17 p. 18 p. 19

### Standard and Advanced Finishing







### BEVEL, FLAT EDGE, POLISHING

#### CONFIGURATION

- 0.75 mm bevel height
- 3 wheels set for all plastic materials
- 4 wheels set for all materials including mineral
- 15, 19, 22 mm wheel widths for different lens thicknesses
- Round-edge roughing wheel for securing highcurve lens

Examples







4 wheels set

#### **DURABLE LIFE TIME**

- 155 diameter wheel
- · Lens swapping on roughing wheel
- Automatic cleaning of polishing wheel

#### **MAINTENANCE**

- Easy replacement depending on the model.
   Available with Mr Blue, Mr Orange, and the Pro-E series.
- Easy size adjustment



Polishing wheel cleaning kit

## Refer to your technician for additional information

Available on all edgers 3 wheels set: Neksia 550, Pro-E™ 600, Pro-E 700 3 or 4 wheels set: Neksia™ 400, Neksia 500, Mr Orange®, Mr Blue® 2.0, Mr Blue Sun & Sport

## MINI-BEVEL

- · Aesthetically-pleasing thin frame fitting
- Mini bevel height: from 0.30 mm to 0.75 mm
- Easy bevel configuration directly on the main screen

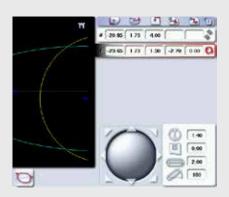


Available on Mr Orange, Mr Blue 2.0, Mr. Blue Sun & Sport, Pro-E 600, Pro-E 700



### **DRILLING**

- Integrated drilling function for perfect positioning
- Hole, slot, notch, non-through drilling
- 2 drill bit sizes (0.8 and 1.0) for durability and speed
- Holes from 0.8 mm to 3.0 mm
- Holes quantity up to 20
- Slot and notch width up to 5 mm
- Slot and notch angle position from 0 to 90 degrees
- Automatic and adjustable tilt angle from front and rear lens face
- Hole size compensation according to the tool wear

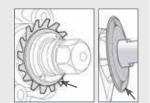


Available on Tilt 15°: Neksia D Tilt 0-30°: Mr Orange, Mr Blue 2.0, Mr Blue Sun & Sport, Pro-E 600, Pro-E 700

### Standard and Advanced Finishing



- Integrated grooving function
- Grooving wheel design to secure the groove width stability regardless of the lens curve
- Adjustable width from 0.6 mm to 1.2 mm
- Adjustable depth from 0.2 mm to 1.2 mm



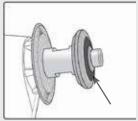
Grooving wheels

Available on all edgers Tilt 15°: Neksia™ D

> Tilt up to 30°: Mr Orange®, Mr Blue® 2.0. Mr Blue Sun & Sport, Pro-E<sup>TM</sup> 600, Pro-E 700



- Integrated chamfering function
- Unique Essilor patent with flexible wheel
- Perfect follow-up of the lens curvature
- Consistent chamfer width all around the lens
- Front and back
- Adjustable width
- Standard width: thin (0.2 mm) and large (0.4 mm)



Chamfering wheel mounted on flexible component

Available on all edgers Tilt 15°: Neksia D Tilt up to 30°: Mr Orange, Mr Blue 2.0, Mr Blue Sun & Sport, Pro-E 600, Pro-E 700









- Specific frame design
- Combination of 3 different types (groove-bevel-flat edge)
- Finishing type with any design (bevelbevel, groove-groove, groove-flat edge, etc.)
- Configurable sector
- Automatic and aesthetically-pleasing merge between sectors



Available on Mr Orange, Mr Blue 2.0, Mr Blue Sun & Sport, Pro-E 600, Pro-E 700



### **CUSTOMIZED FINISHING**

- Complete adaptability of bevel and groove positions
- Position in the lens thickness (front and rear surface tracking, distributed and/or position percentage)
- Frame rim or lens curve tracking
- Curve modification (general or at a particular point)
- Curve displacement



Available on all edgers

### Specific Bevel

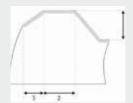


Process lenses for wrap-around frames with an optimized bevel design for a perfect fit



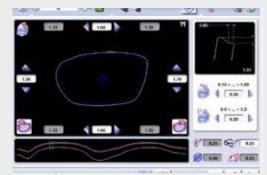
- Binocular 3-D tracing of full-rim frames (tracer function)
- Automatic adjustment of centering data based on 3-D parameters of the frame
- Adjustment of high-curve bevel height on 4 to 8 points
- Automatic frame trajectory follow-up to harmonize as best as possible

the lens base, frame base and shape (only available on Mr Blue 2.0 and Mr Blue Sun & Sport).



Cross-sectional view of a high-base bevel

- 1: Value of shelf bevel of rear surface
- 2: Width of the flat side of the bevel
- 3: Front surface tracking value



Shape of the bevel (width, height, etc.) defined up to 8 locations

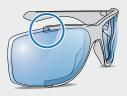
(i)

For the quality of the job, the lens base must always match the frame base perfectly.

Available on
Up to wrap 25°, Base 8: Neksia 550,
Up to wrap 30°: Base 9: Mr Orange®, Mr Blue® 2.0,
Mr. Blue Sun & Sport, Pro-E™ 600, Pro-E 700

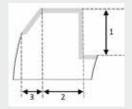


A step-bevel profile is particularly suited for rimmed sport frames and safety glasses with:





- A deep rectangular frame groove profile
- A frame groove with the back side longer than the front side



Cross-section of a step bevel

- 1: Value of shelf bevel of rear surface
- 2: Width of the flat side of the hevel
- 3: Front surface tracking value



Shape of the bevel (width, height, etc.) defined up to 8 locations



For the quality of the job, the lens base must always match the frame base perfectly.

Available on Mr Blue 2.0, Mr Blue Sun & Sport, Pro-E 600, Pro-E 700

### Specific Jobs

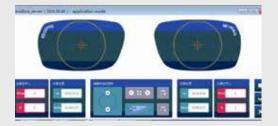


A unique engraving process, easy-touse and completely integrated in the edging routines. From initials and sports insignia to Chinese calligraphy and more, engrave a range of images and infinite texts.











A unique engraving tool, non-invasive for the coating

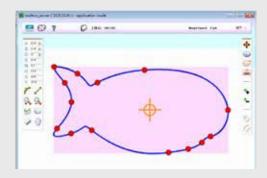
Available on Mr Blue® 2.0, Mr Blue Sun & Sport, Pro-E™ 700

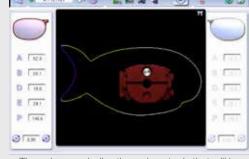


### **CREATIVE SHAPE**

This function allows you to create your own shapes:

- Using the pre-cut patterns
- Modifying the available forms
- Creating your own patterns





The colors symbolize the various tools that will be used to machine the shape:

☐ Mill bit ☐ High-base wheel ☐ Large wheel

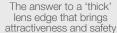
Available on Mr Blue 2.0, Mr Blue Sun & Sport, Pro-E™ 700



### **SUPER CHAMFERING**

This function helps to obtain an aesthetically-pleasing and safe mounting in the case of a negative thick lens edge, due to the super chamfering wheel.







Super chamfer wheel

Available on Pro-E 700

### Specific Jobs



- A technology that attaches sun/ reader/3D/blue-cut lenses to any prescription eyewear using magnets embedded in the lenses
- Designed to be lightweight with a dedicated triacetate lens
- Lenses are available in multiple base curves to fit virtually any frame curve





Chemistrie™ processing feature



Starter kit composition

- A dedicated, guided process with Chemistrie screens and buttons to save
- A secure process of the job with presettings values that can be adjusted
- Optimized and dedicated edging process for sun/reader/3D/blue-cut lenses
- One single job number to process either Rx frames and/or Chemistrie clips
- Easy drilling process for square magnets
- A starter kit that includes lenses. consumables and necessary tools (starter kit as an option for Pro-E™ 700)

Available on Mr Blue® Sun & Sport and Pro-E 700

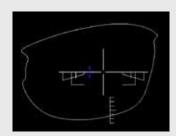


The Half Jacket endurance sport frame requires partial step beveling to fit into a portion of the frame and protrusions on the lens to hook into indentations in the frame groove.

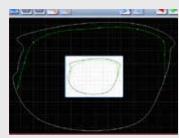




- Advanced optical tracing of the external shape to detect protrusions of the demo lens (tracer)
- Assisted design of the step bevel shape with a touch screen (edger)
- Completed job saved in Essibox for future use



Optical tracing with protrusions detections



Define the partial step bevel



Available on Mr Blue Sun & Sport and Pro-E 700

## **PRO-E SERIES**

### Edgers designed to meet lab expectations





#### **VERSATILITY**

- All types of mountings and finishing
- All materials except glass

#### **PRODUCTIVITY**

- Productivity gain: Up to 50%1
- Groove: 3X faster1
- Drill 4 holes: 2X faster1
- Dry milling to secure hydrophobic lenses as fast as roughing wheels cycles<sup>2</sup>
- Start/stop mechanical button and bar code scanner embedded

#### **PRECISION**

- Top-end edger precision
- Advanced processes to enable faultless sizing, axis control and attractive mountings

#### **EASY INTEGRATION**

- Compact tabletop format
- No need for compressed air
- Intuitive and user-friendly MMI
- Large range of configurations

#### **ROBUSTNESS**

- Specific durable tools
- Easy and fast maintenance processes

	Chemistrie™
	Creative Shape
	Engraving
	Half Jacket®
P70="600	Super Chamfering
Step Bevel	Step Bevel
High-Curve Bevel Up to wrap 30°, Base 9	High-Curve Bevel Up to wrap 30°, Base 9
Milling	Milling
All type of mixed jobs	All type of mixed jobs
Drilling Tilt up to 30°	Drilling Tilt up to 30°
Chamfering	Chamfering
Grooving	Grooving
Polishing	Polishing
Flat-edge Finish	Flat-edge Finish
Mini Bevel	Mini Bevel
Bevel	Bevel
	Nood Engilo

PROE 700

ChomietrioTM

## **PRO-E SERIES**

Edgers designed to meet lab expectations of high productivity and uncompromising quality



#### FEELER METAL PIN

Perfect lens thickness measurement with free wear pin



Electro-mechanical system to eradicate all plays in the lens rotation system to ensure perfect drilled shapes





#### ADVANCE CLAMPING SYSTEM

Ensure repeatable and constant lens clamping pressure

#### **ROBOTIC CABLE & CONNECTION**





#### **EASY AND FAST MAINTENANCE**



#### STRAIN GAUGE

All edging efforts on the lens constantly measured to optimize the cycle time without compromise on the axis deviation



#### **DESIGNED FOR PRODUCTIVITY**





A unique start button Embedded barcode reader

### **TEMPERATURE COMPENSATED REPRODUCER**

Lens sizing mastered regardless of the edging volume





#### LONGER LIFETIME FOR PARTS AND TOOLS





#### MILLING



Dry cutting process to fully secure lens axis deviation during roughing and eliminate bad smell from MHI

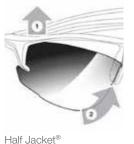
### **MISTERS SERIES**

### Edgers optimized for high precision and versatility





Chemistrie™





Chemistrie™ Half Jacket®

Sun and Sport

Creative Shape

Creative Shape

Engraving

Engraving

Step Bevel

Milling

Step Bevel

High Curve Bevel

Up to wrap 30°, Base 9

Milling

High-Curve Bevel Up to wrap 30°, Base 9

High Curve Bevel Up to wrap 30°, Base 9

All type of mixed jobs All type of mixed jobs

All type of mixed jobs Drilling Tilt up to 30°

Mr Orange\*

Drilling Tilt up to 30°

Drilling Tilt up to 30°

Chamfering

Chamfering

Chamfering

Grooving

Grooving

Grooving

Flat-edge Finish

Mini Bevel

Bevel

Polishing

Mini Bevel (option)

Bevel

Polishing

Polishina

Flat-edge Finish Flat-edge Finish

Mini Bevel

Bevel

Independent of lens marking and operator skills by using an automatic centering and blocking

process



MR BLUE 2.O



Secure hydrophobic or delicate lenses, cut the MHI smell, and reduce lens swarf and water consumption.



Integrated module with

3 removable spindles:

Groove-Milling, High

Curve-Chamfer and

Drillina

Integrated module with 2 removable spindles: High



MR ORANGE®



of cutting force for

high precision

optimized cycle time and

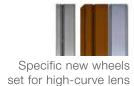
Curve-Chamfer-Groove and Drilling

## NEKSIA™ SERIES

The efficient edging solutions for the daily workflow







NEKSIA 600 NEKSIA 650

#### **EASIER WORKING PROCESS**

- 8.4-inch user-friendly touchscreen
- Fast-access settings
- 1,000-job database

#### **EXPERIENCE WORKFLOW EFFICIENCY**

- Fast, easy and extended frame tracing
- Automatic drilling-hole recognition
- Convenient centering and blocking

#### ACHIEVE HIGH PERFORMANCE

- Improved axis accuracy
- Best automatic cycles
- Patented flexible chamfering wheel

		12113171 000	12/10/17/1000
	NEKSIA 550	Drilling Tilt 0-15°	Drilling Tilt 0-15°
NEKSIA 500	High-Curve Bevel	-	High-Curve Bevel
Chamfering	Chamfering	Chamfering	Chamfering
Grooving	Grooving	Grooving	Grooving
Polishing	Polishing	Polishing	Polishing
Flat-edge Finish	Flat-edge Finish	Flat-edge Finish	Flat-edge Finish
Bevel	Bevel	Bevel	Bevel
	Chamfering  Grooving  Polishing  Flat-edge Finish	Chamfering Chamfering Grooving Grooving Polishing Flat-edge Finish High-Curve Bevel Chamfering Flat-edge Finish Flat-edge Finish	NEKSIA 500  High-Curve Bevel  Chamfering  Chamfering  Grooving  Grooving  Polishing  Polishing  Flat-edge Finish  Flat-edge Finish  Flat-edge Finish

## **DELTA SERIES**

All your workshop concentrated in this all-in-one station

# PROFIT FROM A COMPACT. HIGH-PERFORMANCE SYSTEM THAT COVERS ALL THE ESSENTIALS

- Tracing of all types of lenses including demo lenses and recut lenses
- Centering and blocking of all kinds of corrective lenses including recut lenses
- Edging of all types of materials up to base 6 including hydrophobic lenses

## NO COMPROMISE ON THE AESTHETIC RESULTS

- Advanced bevel and grooving placement features with the ideal bevel position
- Automatic setting of the grooving/drilling angle according to the lens curve up to 15°

## MANAGE ALL TASKS USING AN ALL-IN ONE HIGH-PERFORMANCE DISPLAY

- Natural posture reducing muscle stress
- No need to move from one piece of equipment to another



## CONNECT YOUR DELTA WHEN NEEDED

For very special frames or for remote edging services, Delta can be connected:





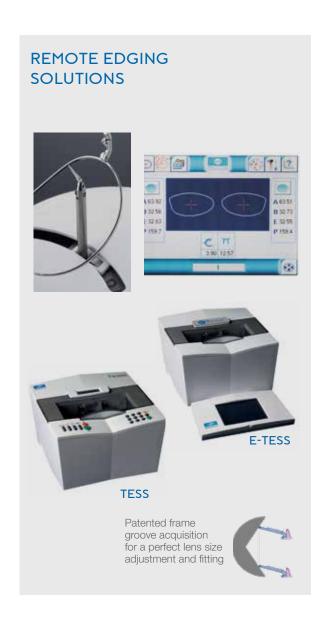
### **DELTA** 300

<b>DELTA</b> 200	Drilling Tilt 0-15°
Chamfering	Chamfering
Grooving	Grooving
Polishing	Polishing
Flat-edge finish	Flat-edge Finish
Bevel	Bevel
Centering	Centering
Manual blocking	Manual blocking
Optical tracing	Optical tracing

- 72B 300

## TRACER SOLUTIONS

Complete range to meet all the professionnal needs





\*Lifetime: more than 100,000 jobs



### The connectivity solution to increase the lab efficiency

Essibox connects multiple devices and centralizes all data flows for higher lab efficiency and lower errors. Designed around an open communication system, it is an upgradable solution that enables the addition of new functions and services to improve the configuration and profitability.



#### CREATION OF PERSONALIZED SHAPES AND DRILLING PATTERNS

- Shape- and drilling-creation module
- A user-friendly design based on the underlying principles used for computer-aided design software



#### UNLIMITED STORAGE CAPACITY AND INTEGRATED DATABASE

Create an unlimited archive of shapes and drilling models with easy management of the libraries:

- Multi-criteria searches (search by manufacturer, by collection or by model)
- Immediate visualization of the shape and related drilling pattern



#### JOB MANAGEMENT AND LMS (LAB MANAGEMENT SOFTWARE) CONNECTION

- Automatic data transfer (shape, prescription, height, PD, lens type, etc.) to the centering and edging system with barcodes
- Visualization and management of all jobs and their states of progress
- Full integration within the lab and/or storage network for easy and quick access



#### **MULTI-SITE**

Centralized workshop and/or job transfer between shops:

- Delegation for capability needs
- Delegation for functionality needs (creative shape, etc.).
- Delegation for availability

## **LENSMETERS**

### Simple and reliable measurement





#### **EXTENDED MEASURING CAPACITIES**

Lens support adapted to all lenses, frame curves and high base curves. The wide space under the base allows excellent positioning of frame temples.



#### **UV TRANSMISSION**

Measurement of lens power and UV transmission are simultaneously carried out and displayed on the main screen.



#### INTER-PUPILLARY DISTANCE

An exclusive design featuring two nose supports makes operations simple and efficient.



**ALM 500** 



**ALM** 700

UV transmission measurement

Inter-pupillary distance measurement

Curved and tinted lenses measurement

**ALM** 500

Touch screen

Green light beam

Green light beam

Automatic detection of lens type

Automatic detection of lens type

Printer

Printer

Data transfer

Data transfer

Tilting color screen

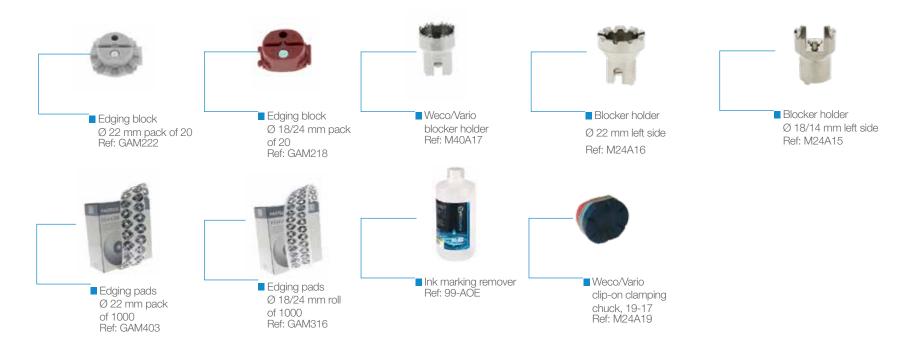
Tilting color screen

All types of lenses and frames measurement

All types of lenses and frames measurement

## LAB ACCESSORIES

### **CONSUMABLES**



### **MOUNTING TOOLS**



### **MEASURING TOOLS**



Discover our wide range of consumables on EssilorInstrumentsUSA.com/store

## **SPECIFICATIONS**

### Edging Functions

	Delta 200	Delta 300	Nakaia 400	Neksia 500	Neksia 550	Neksia 600	Neksia 650
	Delta 200	Deita 300	Neksia 400	Neksia 500	Neksia 550	Neksia 600	Neksia 650
110V (4 wheels) ①		M16885					
110V (3 wheels) ②	M16875		M25105	M25175	M25178	M25185	M25188
220V (4 wheels) ①							
220V (3 wheels) ②							
Bevel	✓	✓	✓	✓	✓	✓	✓
Mini Bevel							
Flat-edge Finish	✓	✓	✓	✓	✓	✓	✓
O Polishing	✓	✓	✓	✓	✓	✓	✓
Grooving	✓	✓		✓	✓	tilt 15°	tilt 15°
Chamfering	✓	✓		✓	✓	✓	✓
Drilling		tilt up to 15°				tilt up to 15°	tilt up to 15°
All types of mixed jobs							
Milling (Super hydrophobic lens)							
High-curve Bevel					Up to wrap 25° Base 8		Up to wrap 25° Base 8
Step Bevel							
Super Chamfering							
● Half Jacket®							
Engraving							
Creative Shape							
<b>(</b> Chemistrie™ (clip)							
Weco block type adaptor			✓	✓	✓	✓	✓

Mr Orange®	Mr Blue <sup>®</sup> 2.0	Mr Blue Sun & Sport
M22172	M24142	M24152
M22175	M24145	M24155
M22072	M24042	M24052
M22075	M24045	M24055
✓	✓	✓
	✓	✓
✓	✓	✓
✓	✓	✓
tilt up to 30°	tilt up to 30°	tilt up to 30°
✓	✓	✓
tilt 0-30°	tilt 0-30°	tilt 0-30°
✓	<b>✓</b>	<b>✓</b>
	✓	✓
Up to wrap 30° Base 9	Up to wrap 30° Base 9	Up to wrap 30° Base 9
	Height up to 3.5 mm	Height up to 5.5 mm
		✓
	✓	✓
	✓	✓
		starter kit
✓	✓	✓

Pro-E™ 600	Pro-E 700
-	-
M40157	M40159
-	-
M40057	M40059
✓	✓
✓	✓
✓	✓
✓	✓
tilt up to 30°	tilt up to 30°
✓	✓
tilt 0-30°	tilt 0-30°
✓	✓
✓	✓
Up to wrap 30° Base 9	Up to wrap 30° Base 9
Height up to 5.5 mm	Height up to 5.5 mm
	✓
	✓
	✓
	✓
	✓
	l ,

## **SPECIFICATIONS**

### Tracing Functions

	Tess	e-Tess	Neksia 400, 500, 600, and 650	Neksia 550	Mr Orange®	Mr Blue® 2.0	L-Tess	ProB-300 CB <sup>1</sup>	ProB TC
220/110V (US adaptor)	-	-	L20012		L13012	L14042	L11012	-	-
Mechanical Tracing									
Curve frame	Up to base 9	Up to base 9	Up to base 6 Neksia 400, 500, and 600 Up to base 8 Neksia 650	Up to base 8	Up to base 9	Up to base 9	Up to base 9		Up to be
Optical Tracing									
Advanced (creative shape)					✓	✓			✓
Auto recognize holes			√3		✓	✓			✓
Centering-Blocking									
Shape deformation		✓	✓		✓	✓	✓	✓	✓
Semi-auto			✓		✓	✓		✓	✓
Auto						✓			
Ergonomic									
Quick block loading						✓			
Blocks and pads storage						✓			
Weco block compatibility								✓	<b>✓</b>
Pedal for blocking								option	optio

<sup>1</sup> Centering-Blocking 2 Tracing-Centering-Blocking 3 Neksia 600 and 650 only

## **SPECIFICATIONS**

Technical Design	Delta 200	Delta 300	Neksia 400	Neksia 500	Neksia 550	Neksia 600 and 650
Precision						
Temperature compensated reproducer						
Strain gauge (constant effort measurement)						
Advanced clamping system						
Mechanical compensation system (drill)						
Feeler metal pin (constant shape)						
1-star cycle	✓	✓	✓	✓	✓	✓
2-star cycle	✓	✓	✓	✓	✓	✓
Advanced 2-star cycle						
Milling - Dry cut						
Robustness						
Small tools module maintenability	complete	complete		complete	complete	complete
Reinforced tools (lifespan increased)						
Reinforced stucture and parts						
Easy and quick access						
Robotic cables and connectors						
Easy and fast maintenance (integrated process)						
Preventive maintenance plan	✓	✓	✓	✓	✓	✓
Integration						
OMA protocol	✓	✓	✓	✓	✓	✓
Essibox® compatibility	✓	✓	✓	✓	✓	✓
Embedded remote maintenance <sup>1</sup>	✓	✓	✓	✓	✓	✓
1 start button						
Barcode reader	option	option	option	option	option	option
No need of compressed air and vacuum	✓	✓	✓	✓	✓	✓
Capacity recommendation (1 unit)	10-20 jobs/shift	10-20 jobs/shift	20-40 jobs/shift	20-40 jobs/shift	20-40 jobs/shift	20-40 jobs/shift

Mr Orange®	Mr Blue® 2.0	Mr Blue Sun & Sport
✓	✓	✓
✓	<b>✓</b>	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓ ✓	✓	✓
<b>✓</b>		
✓	✓	✓
	✓	✓
2 spindles	3 spindles	3 spindles
✓	✓	✓
✓	✓	✓
✓	✓	✓
✓	✓	✓
option	option	option
✓	✓	✓
40-80 jobs/shift	40-80 jobs/shift	40-80 jobs/shift

Pro-E™ 600	Pro-E 700
✓	✓
<b>✓</b>	<b>✓</b>
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
✓	✓
3 spindles	3 spindles
✓	✓
✓	✓
✓	✓
✓	✓
✓	<b>✓</b>
✓	✓
✓	✓
✓	✓
✓	✓
<b>√</b>	<b>✓</b>
integrated	integrated
<b>√</b>	<b>✓</b>
> 80 jobs/shift	> 80 jobs/shift





Essilor Instruments USA | 8600 W. Catalpa Avenue, Suite 703 | Chicago, IL 60656 - USA | Phone: 855.393.4647 Email: info@essilorinstrumentsusa.com | www.EssilorInstrumentsUSA.com