

WECO



WECO. Industrial Solutions
Edge 990 blockless





Edger performance

A brand new edger unit provides more lens finishing options than ever before, with fully automatic V and flat polishing, rotary lens grooving and front and rear pin-bevelling fitted as standard. Automatic rimless drilling within the edger is also available as an option.

Advanced characteristics

- > 4 grinding wheels, Trivex as option (instead of mineral)
- > Suitable for all lens materials
- > Flat and V profile polishing
- > Electric Grooving
- > Front and rear chamfering
- > Drilling (option)
- > Adjustable grinding force
- > Adjustable clamping force

Proven Performance

- > High performance edger for industrial use in labs
- > Average capacity of more than 30 jobs per hour
- > Purpose-designed for three shift operation
- > Solid, reliable and proven technology
- > Low maintenance costs
- > OMA compliant interfaces (3 pcs.)
- > 3-D bevel control
- > Colour LCD-screen for Verifier and for each edger
- > Touch screen for startup and handling operations
- > 80 mm max. lens diameter

Bevel characteristics

bevel type	flat bevel	V bevel	grooving
B-Size	21,5 mm	22,5 mm	21,5 mm

Integrated Drilling (option)

- > Automatic drilling from the front site of the lens
- > High precision processing of drilling data
- > Edging and drilling in one clamp ensures best axis precision
- > Regular holes, blind holes or slots

Universal tool for grooving and chamfering

- > Automatic electrical chamfering of all synthetic lens materials
- > Automatic grooving of all synthetic lens materials
- > Fully adjustable groove width and depth

Blockless - the unique and economic solution for your lab!

A blockless all-in-one finishing system is the sole economic solution for a lab because it eliminates expensive shortcomings of traditional edging technology. It operates with no blocks, no deceleration device and no manual handling.

All-in-one finishing system

- > No blocks - blockless edging
- > No deceleration device
- > No manual handling

Purpose designed for high speed and high precision continuous production, the Edge 990 blockless is the latest generation of lens finishing technology from Weco. Two edgers and one Verifier Turbo are integrated within an automated cell.

With these key features Edge 990 blockless will increase your productivity and profitability!

Productivity

- Designed for industrial use (three shifts)
- > Robust and reliable components
 - > Capacity up to 32 jobs (64 lenses) per hour
 - > Low service and maintenance costs

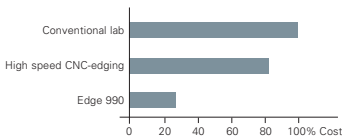
Increase your profit by

- > No labor costs
- > No job preparation
- > No stickers
- > No blockpads
- > No blocks
- > Simplified finishing process
- > No investment for separate blocking device
- > Savings in rejects



Return on investment less than one year

Comparison in cost



Blockless technology

A unique feature of the Edge 990 blockless is the precision blockless edging system allowing precision edging without consumables. Thereby providing the ultimate technological solution for edging the increasingly popular "super-slippery" MAR coated lenses. The manual and time consuming application of tapes, foils or pads is completely eliminated.

Blockless robotic handling

- > Designed for super-hydrophobic coatings
- > Prevent axis slippage
- > Most precise positioning
- > Less lens rejects



Automation technology

With Edge 990 blockless the handling process from picking of raw lenses from a tray until refeeding cut lenses to the tray has been automated. A high speed lens loading with high precision axis and vacuum suction gripper ensure best quality in short time period. One precise loading gripper plus a separate unloading gripper increase productivity to a maximum.

All-in-one finishing system

- > Automatic lens picking
- > Automatic lens measuring
- > Automatic lens layout
- > Automatic blockless edging
- > Automatic lens refeeding
- > Adaptable lens tray belt

With all-in-one finishing system block removal is also eliminated due to its unique blockless operation. Labour is therefore drastically reduced whilst increasing productivity and reducing the possibility of expensive wastage. Integrated software process controls drastically reduces the possibility of operator-induced error.

Unique features of Edge 990 blockless

- > High speed lens loading with high precision axis and vacuum suction gripper
- > One precise loading gripper plus a separate unloading gripper for maximum productivity
- > Conveyor system for WECO trays
- > Wide range of customizing options for trays
- > Low consumption of compressed air (air saving mode)
- > Built in Barcode Reader for 12 digit code 39, other codes can be customized



Lens checking

In the Edge 990 blockless, Weco has automated not just the edging process but also the more labour intensive verification, layout and blocking operations.

Lens checking

- > Automatic lens measuring
- > Automatic lens layout
- > All lens types

Lens checking features

- > Lens power up to +/- 8 dpt in main meridian
- > Add power 2,5 dpt for bifocals
- > Power check according to preset limits
- > Lens blank size check
- > Selectable side for the job to start
- > Wide range of progressive lenses can be read reliably

Edger performance

Standard Configuration

- > 4 grinding wheels
- > Suitable for all lens materials
- > Flat and V profile polishing
- > Electric Grooving
- > Front and rear chamfering

Productivity

- > Designed for industrial use (three shifts)
- > Capacity up to 32 jobs (64 lenses) per hour
- > Low service and maintenance costs

Options

- > Electric drilling available

Technical data

Lens Material	Plastic (CR 39 etc.), Polycarbonate, Glass, Trivex (optional)
Minimum B-Size	flat bevel 21,5 mm, V bevel 22,5 mm, grooving 21,5 mm
Lens handling	integrated fully automatic pneumatic system
Lens checking	Lens power +/- 8 dpt, add power 2,5 dpt for bifocals
Lens measuring	Verifier Turbo inside
Lens blocking	blockless handling with suction arm
Lens chucking	pneumatic
Chucking Pressure	automatic adaptation
Water System	Pump circulation with tap water
Rated Voltage	230 V, 50/60 Hz
Rated Power	5,4 kWh
Dimensions	2000 mm (W) x 810 mm (D) x 1950 mm (H)
Weight	650 kg

For further information on Edge 990 blockless and WECO Industrial Solutions please contact us. We are always delighted to assist.

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