FUNCTIONAL SYSTEMS

All functions for the optician
up to mid quantities

WECO

ALL GOOD THINGS COME IN THREES

Our solutions for opticians

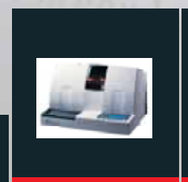
With its wide range of products WECO provides the optician with ready-made solutions to meet the different production requirements. The WECO Professional Systems, the technically demanding and high performing optical domains. The WECO Functional Systems for companies requiring average throughput and the WECO Industrial Solutions for the all-inclusive solution for fully automated production.

PERFORMANCE / FUNCTIONALITY

VALUE

1 FUNCTIONAL SYSTEMS

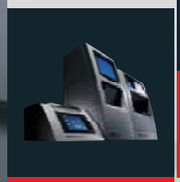
Edge 330/350 Compact
Page 10-11



Edge 330/350
Page 8-9

Edge 430
Page 6-7

2 PROFESSIONAL SYSTEMS



Edge 455 Drill

Edge 550

Edge 950

3 INDUSTRIAL SOLUTIONS

Edge 950

Edge 990

FUNCTIONAL SYSTEMS

Functionality, ease of use and precision

Professional opticians attach importance to functionality, ease of use and precision. These characteristics are fundamental to processing average quantities of jobs every day. The name WECO is synonymous with these characteristics.

> Functional for average quantities
> Chamfering, grooving, drilling as option
> System that is excellent value

EDGE 430

The all-round talent

With the Edge 430 WECO offers a robust machine for opticians who attach great importance to quality, user-friendliness and reliability. The Edge 430 processes all kinds of lens material in any thickness into a fully processed spectacle lens with high-quality finish. The operating sequence in your workshop is simplified with an internal shape memory in which the spectacle lens shapes for various frames can be stored. This enables a quick and convenient operational process.

Edging with optimum results

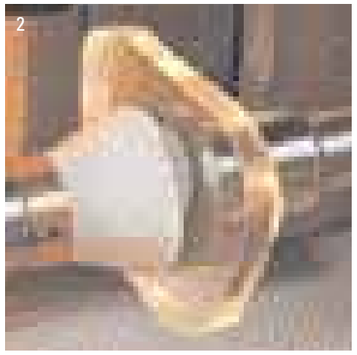
> For processing all lens materials
> For all optical values
> Excellent fit
> Simple operation
> Rear side chamfering
> Polishing

Edging – and everything that goes with it.

The centering data are transferred to the edging machine. All information required for the edging process is stored in the data memory of the edger. The actual lens form being processed is clearly displayed on the high-definition integrated colour LCD monitor and operation is conducted using the ergonomically designed keypad. The lens is placed in the clamping system within the grinding chamber and the lens block is precisely held in place by the WECO Block-up System. The specially designed lens block and clamping system prevents errors induced by the lens being held incorrectly, thereby eliminating wastage due to axial distortion.

Simple operation

> Convenient and ergonomic user prompting
> Clear 1:1 presentation on the colour monitor
> Permanent process display on the colour monitor
> Graphic presentation of the bevel position
> Barcode input (option)
> Internal data memory



1 LCD monitor
2 Grinding chamber
3 Test foil cutter

Flexible creation of bevel

After a short rough-grinding cycle, the lens bevel is processed optionally as flat bevel, free-floating V bevel, manual V bevel or computer-controlled 3D V bevel. To control the bevel its positioning is graphically displayed on the colour screen. Please read more about these possibilities on **page 12**.

Excellent fit

> With regard to the bevel position, bevel surface and axis
> Computer-monitored bevelling taking sphere, cylinder, prism and decentring into account

Test foil cutter

The Edge 430 is equipped with an optional test foil cutter, with which a test foil can be easily cut to the exact size required. Progressive lenses, aspheric lenses and other lens types are centred at high speed and with a maximum of precision. The data required for marking are provided by the WECO Tracer.

Accessories

> Half Eye Set - to grind extremely shallow spectacle frames
> Cooling system - to cool the lenses during the edging process
> Compressor - to operate the pneumatic lens clamping facility and the drilling motor
> Barcode-reader

Technical Data	
Width	455 mm
Depth	420 mm
Height	550 mm
Weight	56 kg
Power Input	9,5 A
Rated Voltage	230V 50/60 Hz

Please find our system recommendations on **page 14**.

EDGE 330/350

The functional machine

When designing the Edge 330/350, two aspects were considered: high functionality for the small to medium size optical workshop and an excellent price-performance ratio. Therefore, Edge 330/350 fulfils these requirements in the workshop at a reasonable price. Furthermore, Edge 330/350 can be implemented in an existing WECO edging system.

> For small to medium size optical workshops
> High functionality
> Implementation into existing WECO system
> Excellent price-performance ratio

Functionality of Edge 330/350

When using an Edge 330/350 in the workshop all working steps to manufacture a regular frame, a rimless or supra frame are performed. Edge 330 allows grooving of lenses as well as chamfering both sides. Once all processes are completed a V or flat bevel polish can be applied. Additionally to these features Edge 350 even offers the possibility to drill the lens to manufacture rimless frames. An advantageous feature is the edging and drilling in one clamping cycle which leads to superior precision.

> Drilling (only Edge 350)
> Grooving
> Front and rear side chamfering
> Flat and V bevel polishing
> Suitable for all lens materials

1 Grooving
2 Front side chamfering
3 Rear side chamfering

Advantages of Edge 330/350

Alongside functionality is the advantage of easy operation. Operating errors are therefore eliminated. Precise edging results are obtained due to automatic size correction for temperature deviations. The completion of all processes in one clamping cycle guarantee precise edging results.

> Easy operation
> Size correction for temperature deviations
> Drilling, grooving and chamfering in one clamping

Connecting possibilities

According to WECO philosophy Edge 330 and Edge 350 offer the possibility to connect to WECO peripherical devices such as Tracer and CAD. This is achieved with the WECO-Interface-Box. With this option an economical possibility arises to upgrade existing WECO edging systems.

Technical Data

Width	660 mm
Depth	590 mm
Height	420 mm
Weight	70 kg
Power Input	5 A
Rated Voltage	230V 50/60 Hz

Please find our system recommendations on **page 14**.

EDGE 330/350 COMPACT

The Compact Machines

Weco's new innovative compact edger combines functionality with aesthetic design. The system comprises the impressive Trace 3 and the Edge 330/350 Compact with integrated MiniBlocker. Within this remarkably small footprint contains an edger that will fulfil every step of the edging process with utmost accuracy: tracing, centering, blocking and edging. Every lens material may be processed using the combination of four diamond wheels, including fully automatic lens grooving and chamfering supplied as standard.

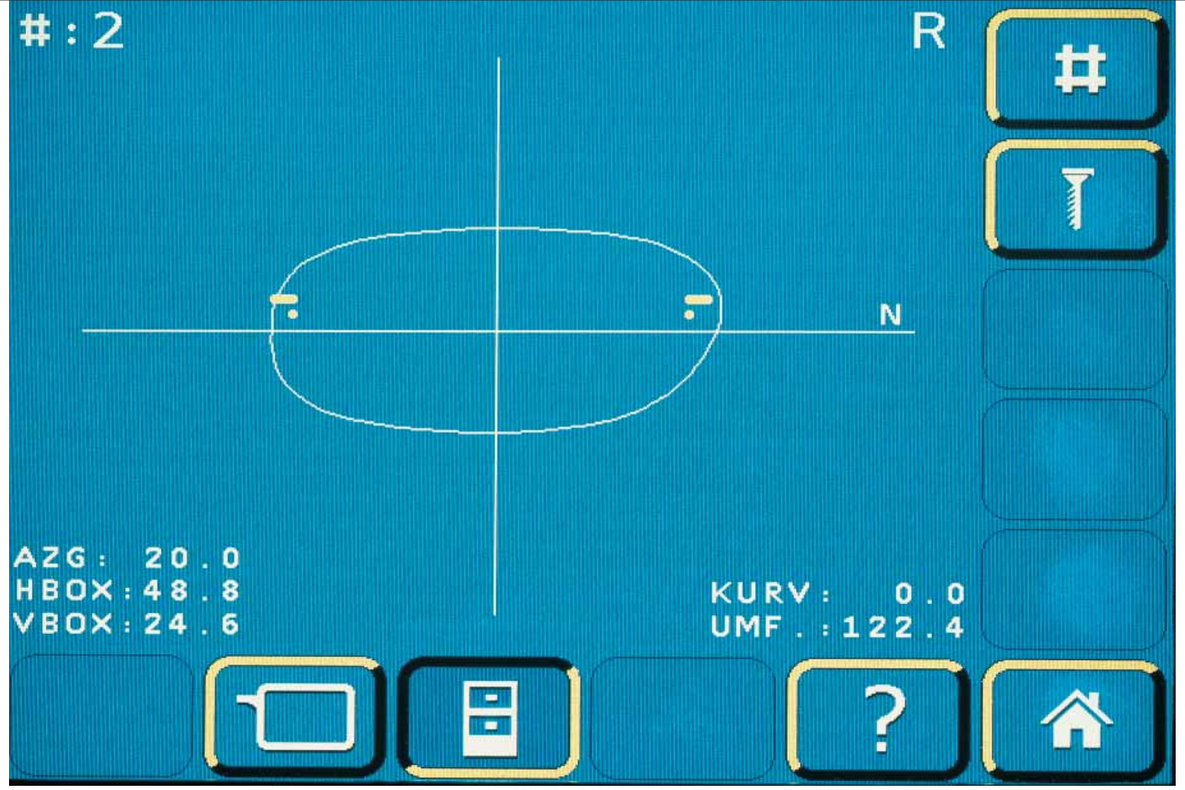
> Built-in MiniBlocker
> Compact machine in combination with Trace 3
> Suitable for all lens materials

Why use a Compact Machine

The Trace 3 and Edge 330/350 Compact combination now feature the possibility of remote tracing to gain further flexibility and efficiency for your business. Effortless lens processing with automatic grooving and chamfering mean that the lenses fit properly the first time and with minimum operator intervention. And the Edge 330/350 Compact includes an integrated frame database for maximum convenience. Edge 330/350 Compact offers the same functionality as the Edge 330/350. As the compact version a MiniBlocker is integrated and the machine is used with a Trace 3. The non-compact version is connected to WECO peripherical instruments such as a decentration device and Tracer.

1 Built in Mini Blocker

2 Lens support, display and keypad



Functionality of Edge 330/350 Compact

> Drilling (only Edge 350 Compact)
> Grooving
> Front and rear side chamfering
> Flat and V bevel polishing
> Remote tracing functionality
> Shape data base (500 jobs)

Technical Data

	Trace 3	Edge 330/350 Compact
Width	310 mm	660 mm
Depth	385 mm	590 mm
Hight	203 mm	420 mm
Weight	9 kg	70 kg
Power Input	0,2 A	5 A
Rated Voltage	230V 50/60 Hz	

BEVELS

Some explanations

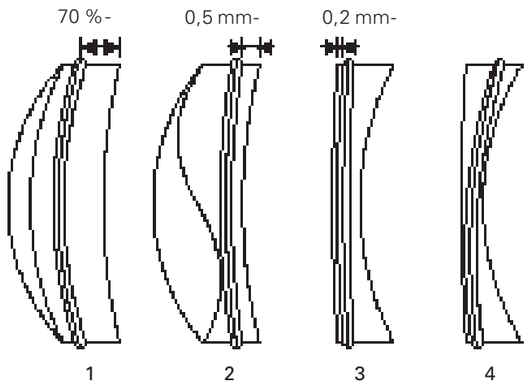
Flexible creation of bevel
After a short rough-grinding cycle, the lens bevel is processed optionally as flat bevel, free-floating V bevel, manual V bevel or computer-controlled 3D V bevel. To control the bevel its positioning is graphically displayed on the colour screen.

> Free-floating bevel
> Manual V bevel
> Computer-controlled 3D V bevel

Free-floating bevel
In free-floating mode the bevel reproduction during the first revolution of the grinding wheels is automatically memorised and all further revolutions including re-finish operations are computer-controlled. This process drastically improves the bevel quality with thin lenses and extreme shapes.

Manual V bevel
The manual V bevel option is used if you wish to adapt the bevel position according to specific requirements, i.e. that the lens fits into a fancy frame.

Computer-controlled 3D V bevel
In the case of the 3D V bevel mode the lens geometry is measured during the rough-grinding cycle. Afterwards, the bevel is ground computer controlled.



1 Percentage Curve
2 Positioning of bevel in relation to rear surface
3 Positioning of bevel in relation to front surface
4 Auto-Bevel

Computer-controlled 3D V bevel
For the computer-controlled 3D bevel a range of automatic bevel options exist: Auto-Bevel, Percentage Curve or positioning of the bevel in relation to the front or rear surface of the lens.

> Auto-Bevel
> Percentage Curve
> Positioning of the bevel in relation to the front or rear surface
> Miniature bevel

Auto-Bevel
Auto-Bevel mode is an automatic option that positions the bevel taking into account the curvature of the spectacle frame and lens. It is often used to process lenses that are difficult to adapt.

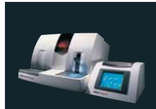
Percentage Curve
The Percentage Curve option positions the bevel according to a direct ratio of the lens edge thickness and curvature. This option can be used for all lenses in the normal range.

Positioning of the bevel in relation to the front or rear surface
The bevel is applied at a defined distance to the front or rear surface of the lens.

Miniature bevel
An adjustable miniature bevel can be employed for use in spectacle frames with a smaller groove depth.

SYSTEM PROPOSITIONS

For the edgers Edge 430, Edge 350 and Edge 330 we suggest the following systems

Standardfunctions	Drilling	Grooving	Front side chamfering	Rear side chamfering	Polish
 Edge 430					X
 Edge 350	X	X	X	X	X
 Edge 330		X	X	X	X

According to WECO philosophy all machines and auxiliary equipment can be combined. To fulfil all applications one can select of a wide range of decentration devices and tracers. In order to support you in a best possible way on this page we present systems from our experience will match your expectation. Traditionally, according to WECO philosophy, it is also possible to enhance your existing system with a new machine, decentration or tracing device. The Weco modular system is so flexible and has been approved for decades.

Cad 5	Cad III	Cad I	ShapeMaker	Trace 3	Trace II
System 1				System 1	
	System 2				System 2
		System 3			System 3
System 1				System 1	
System 2					System 2
	System 3		System 3		System 3
System 1				System 1	System 2
	System 2				System 2
	System 3			System 3	System 3

- Shape modification
- Detection of lens shape and drill hole coordinates
- Adjustment of drill holes
- Enhanced measurement of vertex power

- Identification of drill hole coordinates
- No parallax- or blocking errors
- Gimbal suspended lens support for prismatic lenses
- Motorised blocking process for error free and exact lens blocking

- MiniBlocker
- Cleanly laid-out illuminated screen
- Three point lens support
- Low maintenance

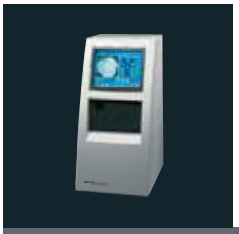
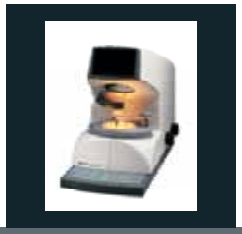
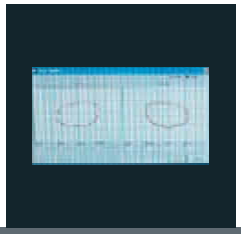
- Shape Modification
- Shape Administration
- Drill hole management
- Extension to WECO edger

- Determination of groove angle and bevel's position
- Adjustable tracing speed
- Graphic display of 3-D tracing data
- 2-D presentation of both sides

- Automatic right / left tracing
- Exact data for optimum results
- Self-calibration for ultimate accuracy and reproducibility
- Remote tracing and lens ordering (Optional)

YOUR SELECTION

Please decide yourself

					
Cad 5	Cad III	Cad I	ShapeMaker	Trace 3	Trace II

NOTES

1400-1350-05 WECO 04/07 3. Das Druckhaus

For additional Information on Functional Systems, please call us. We would be pleased to inform you.

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