

# WECO



Optical Machinery by WECO  
**Trace 3, Cad 5 und Edge 455 drill.**  
**Future with System.**



## Future with System.

Trace 3, Cad 5 and Edge 455 drill.

Form and Function by WECO



### The new Generation

With appealing design and pleasing functionality Weco's new generation is convincing. Tracing is performed with absolute precision using fully automatic processes, and an intuitive graphic display is employed to control functions and display the lens form. Accurate decentration and blocking together with an Optical Trace system for automatic drill hole detection, plus the innovative Modifier for rimless lens shape modification. Adaptive edging with variable lens clamping and grinding pressure to facilitate processing of extreme shapes, different materials and special coatings - remembering that WECO has more than 5 years experience with automatic drilling.

### Trace 3

User friendly 3D-Tracer with groove-angle measurement for exact fitting precision.

- > Automatic clamping of frame
- > Graphic display of 3-D tracing data, shape and lens contraction
- > Graphical representation of the right and left lens shape in 2-D and comparison of measurement values

### Cad 5

The advanced decentration and blocking system with shape modification.

- > Modifier for shape modification
- > Optical trace functionality for optical measurement of lens shape and drill hole coordinates
- > High-tech optical recognition and image processing system
- > Enhanced measurement of vertex power

### Edge 455 drill

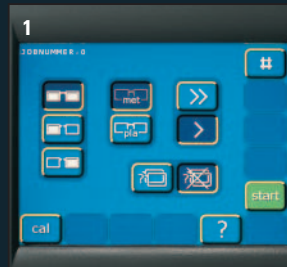
High-End Edger with integrated drill function.

- > Variable clamping pressure for flat lens forms
- > Adjustable edging pressure for multi-coated lenses
- > Fully automatic drill attachment
- > Automatic edge grooving
- > A choice of lens beveling programs
- > Grinding wheel configuration options including polishing

**WECO. Visible Progress.**

### Trace 3. User friendly 3D-Tracer with groove-angle measurement for exact fitting precision

Trace 3 is an easily-operated 3D-Tracer which measures the groove angle and bevel length for extremely high precision. A large colour TFT display and fully automatic securing of spectacle frame provides absolute ease of use. For the first time the lens contraction of the frame is displayed. A comparison of right and left lens is performed either optically or by means of the measurement values, allowing easy detection of frame abnormalities prior to edging.



- > No distortion as the frame is secured automatically with constant pressure
- > 3D tracing and measurement of the groove angle and bevel length
- > Adjustable tracing speed for difficult frames
- > Clear, graphic colour TFT display with wide viewing angle
- > Graphic display of 3-D tracing data, form and lens contraction
- > Graphic 2-D presentation of both sides and display of the measurement values for comparison purposes
- > Precise and stable accuracy of fitting made possible by size correction of the lens taking into consideration the groove angle and depth

- 1 Start screen
- 2 Display of glass contraction during tracing
- 3 3D-display of form
- 4 Superimposition of glass shapes



## Cad 5. The advanced decentration and blocking system with shape modification

Cad 5 is the advanced decentration and blocking system with innovative functions such as Optical Trace and Modifier. Optical Trace is a function for the optical tracing of lens shape and of drill hole coordinates. The built in high-tech optical recognition and image processing system enables precise positioning of drill holes. The Modifier is designed to modify the lens shape of rimless frames. Thus demands of customers or production requirements can be taken into consideration - an ideal spectacle is prepared and assures customer satisfaction.



- > Modifier for shape modification
- > Optical trace functionality for optical measurement of lens shape and drill hole coordinates
- > High-tech optical recognition and image processing system
- > Elimination of lensmeter for the power measurement and detection of optical center for single vision lenses
- > Fewer manual processes during the whole production process
- > Increase of profitability due to a reduction of operator error and wastage

- 1 Optical Trace detection of holes
- 2 Optical Trace adjustment of holes
- 3 Centring of bifocal lens



## Edge 455 drill. High-End Edger with integrated drill function.

Edge 455 drill is a high-end edger with integrated drill function for the production of lenses for rimless and supra frames. Its main feature is the automatic process of clamping, edging and drilling in one seamless cycle. Precise edging is the direct result of adaptive clamping system with variable clamping pressure for very flat lens forms and adjustable edging force for multi-coated lenses. Standard lenses are processed using a choice of lens bevelling programs. Edge 455 drill can be configured with different grinding wheels including polishing adapted to individual requirements.



- > Variable clamping pressure for flat lens forms
- > Adjustable edging force for highly-coated lenses
- > Fully automatic drill attachment
- > Automatic edge grooving
- > A choice of lens bevelling programs
- > Grinding wheel configuration options including polishing
- > Pneumatic lens clamping
- > Automatic edging process monitoring
- > For processing all lens materials
- > For all optical values
- > Multitasking, parallel operation at all system components

- 1 Screen and Keyboard
- 2 Drilling procedure



## Key parameters and technical specifications

### Your benefit by progress

- > 3D tracing and measurement of the groove angle and bevel length
- > Comparison of 2-D presentation of both lenses and display of the measurement values
- > Optical Trace for fast and precise shape measurement
- > Automatic drill hole identification for higher productivity of rimless spectacles
- > Modifier to modify lens shape for rimless spectacles
- > Variable clamping pressure for flat lens forms
- > Adjustable edging pressure for multi-coated lenses
- > Drilling and grooving in one seamless cycle

### Your benefit from profitability

- > High profitability on all components
- > Increase of efficiency due to less breakage
- > Fewer manual operations in the process due to logical user guidance and easily understandable icons
- > Safety through selective control functions for justification of values
- > 3D tracing and determination of the groove angle and bevel length
- > Graphic 2-D presentation of both sides and display of the measurement values for comparison
- > Optical trace functionality for detection of lens shape or pattern
- > Detection, modification and creation of drill hole coordinates
- > Modifier to modify the shape of a lens for rimless frames
- > Variable clamping pressure for flat lens forms
- > Adjustable edging force for highly-coated lenses
- > Drilling and grooving in one clamping

## Technical Data

Device	Trace 3	Cad 5	Edge 455 drill
Width	310 mm	320 mm	455 mm
Depth	385 mm	450 mm	420 mm
Height	203 mm	660 mm	550 mm
Weight	9 kg	38,8 kg	56 kg

Subject to changes within the scope of technical development

For further information on the Edge 455 drill system and WECO optical machinery please call us.

We would be pleased to inform you.

**WECO Optik GmbH**  
Administration Jägerstraße 58  
D-40231 Düsseldorf  
Tel +49-211-21 04-105  
Fax +49-211-21 04-251  
info@weco-instruments.com  
www.weco-optik.com

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