

WECO

The Vision of Progress

C.5

The art of blocking

TECHNICAL SPECIFICATIONS

Width	320 mm
Depth	450 mm
Height	660 mm
Weight	38.8 kg
Height of glass retainer	240 mm

WECO C.5

Technical limits

> Power Measurement Single Vision

Sphere:	-6 dpt. to +6 dpt.
Cylinder:	0 – 6 dpt.
Cylinder axis:	0 – 180 °
Prism:	0 – 6 cm/m
Basis:	0 – 360 °
Accuracy of Power Measurement:	0,125 dpt.

> Raw lens dimensions

Max / Min. diameter:	80 mm / 45 mm
Max / Min. marginal:	20 mm / 0.5 mm thickness
Accuracy of detection:	0.3 mm
Accuracy of blocker:	0.15 mm

> Processing time

Single Vision lens:	20 s.
Bifocal lens:	10 s.
Progressive lens:	10 s.
Data input and handling:	15 s.
Total period for one spectacle:	45 - 65 s.

> Additional Functions

Optical Trace:	Optical detection of shapes
Sd (Smart Design) Technology:	For detection of complex shapes (in combination with E.6)
Shape Modification:	A / B / B/2 / Circumference / Offset

> Databases

Job Database:	300 Jobs
Pattern Database:	2048 Patterns

> Interfaces

RS232 (OMA):	Serial interface RS232, data Protocol according to OMA-Standard
OMA Host:	OMA Protocol
.....	Up to 3 WECO Devices (OMA) can be connected

LUNEAU TECHNOLOGY OPERATIONS

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WECO C.5

Best in job preparation

To ensure a good quality in glazing, a perfect centering and blocking device is needed. Because of its long tradition in edging spectacle lenses, WECO knows the importance of job preparation. This is why the WECO C.5 offers more than just fully automatic centering and blocking of lenses in order to dramatically reduce the risk of manual interference.

One of the additional processes offered by the Weco C.5 is the optical tracing. Faster than mechanical tracing, it also enables a reduction in shape deformations. Offering the capability to detect the drill holes at the same time makes the glazing of rimless frames easy and reliable.

The optical tracing, based on Sd (Smart Design) Technology, is able to recognize shapes which were previously unable to be detected.

Additionally, shapes can be easily modified and adapted to the individual needs of the lens wearer. The C.5 stands out in the market for these features, and still offers more.

Due to its large database, shape modifications and customized drilling options are easily stored and retrieved for future reference or use.

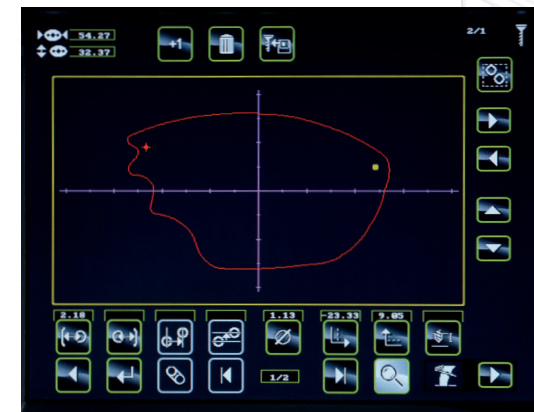
The WECO C.5 makes the optician's life easier ensuring a high level of quality and effectiveness in the glazing process.

C.5: Features at a glance

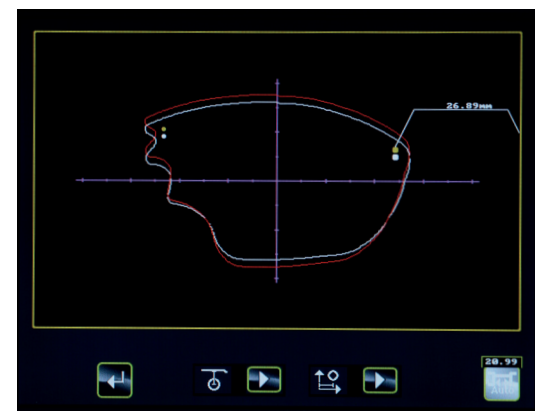
- > Automatic Centering and Blocking
- > Optical Tracing
- > Sd Technology permitting new functionalities
- > Drill Hole Management and Shape Modification
- > Large Database for Jobs and Shapes



Optical Trace Functionality



Sd Technology and Drill Hole Management



Shape Modification respecting drill hole positions



Large Database for Jobs and Shapes

WECO C.5

Multiple performance

Automatic Centering and Blocking

Centering of a single vision lens is achieved automatically by built in power measurement. When processing a single vision lens WECO C.5 performs an optical analysis to detect the optical centre as well as the cylinder with its corresponding axis position. With bifocal lenses, the lens image analysis is performed by determining the near vision segment, Progressive lenses are processed by identification of the markings. The layout and lens type detection take place automatically. Most lenses will require no further preparation.

Optical Tracing

Tracing is the first step in the workflow of lens manufacturing and historically this measurement has been performed with a Tracer. Optical Trace functionality offers the possibility of measuring the shape of a pattern or cut lens without a Tracer. The Optical Trace function no longer employs a mechanical stylus but instead uses digital camera to obtain measurements and prepare for processing. The speed of Optical Trace along with less mechanical distortion of the frame and lens results in increased productivity, higher precision, and faster processing of your work. Rimless frames require only one step to detect the shape and the drill hole positions ensuring the best aesthetic results.

Sd Technology permitting new functionalities

Some shapes which are in the market today cannot be traced in the traditional way, since they are simply too complex. On the one hand it is too difficult to feel the shape, on the other hand the common protocol to transfer the data is limited. That's why for WECO C.5 the new Sd (Smart Design) Technology was developed. In this shape detection based on Bezier curves nearly every shape can be detected, defined and transferred to the edger. Even if mechanical limitations in the finishing process occur, this function offers a completely new set of possibilities.

Drill Hole Management and Shape Modification

When manufacturing rimless spectacles the technician must locate the drill-hole positions. With the WECO C.5 drill-hole coordinates are easily determined automatically using the Optical Trace function. As soon as the function is activated, the drill-holes are located and displayed on the screen. Additional holes and slots can be added or removed or even varied in dimension. Even the drilling angle can be determined for each hole or slot to ensure a perfect glazing. With ease, the drill hole plan can be copied from one shape to another using the database offered by the device. With the Shape Modification built in the C.5 the shape can be adapted to fit the customer in the best way.

Large Database for Jobs and Shapes

The WECO C.5 offers a robust job and pattern database. This allows you to save up to 300 recent jobs and store up to 2,048 patterns. Frequently used patterns are tagged as favourites. The patterns and jobs can be easily accessed by an alphanumeric keypad. The pattern list contains sort fields for manufacturer, model and favourite level. For every pattern, a preview is shown with the pattern size and holes.

