



Optical Machinery by WECO

CAD III

WECO CAD III – the sole CNC centring system without system and parallax error!

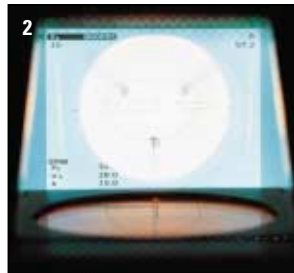
The WECO CAD III is the computer-centring device for high-precision and reliable blocking of spectacle lenses of any type.

The innovative technology is an absolute technical sensation, enabling for the very first time parallax-free measuring in combination with the high-resolution display. On the display the spectacle lenses and the mould are presented in upright position, the right way round and distortion-free. The centring result is identical with the centring on the monitor. Inexact or incorrect centring is now a thing of the past – with the WECO CAD III you reduce rejects caused in the past as a result of inexact centring.

The patented Cartesian positioning of the spectacle lens retainer guarantees maximum precision in blocking, as block errors are now excluded. The gentle motorised blocking facility guarantees that your high-quality spectacle lenses will be treated carefully in blocking. With the WECO CAD III you can rely on good results – and be sure to have satisfied customers, too! We attach great importance to a pleasant presentation on the display and on simple device handling.



- 1 Lens retainer
- 2 Display
- 3 Blocking



Centring on the monitor

- > The whole centring process is displayed on the monitor. The subsequent centring result then corresponds to what the user can see on the monitor.
- > Spectacle lens and mould are displayed in upright position, the right way up and distortion-free. The raw glass diameters and near-sight segments are identified easily and reliably.
- > Simple, precise and quick drilling data acquisition for drilling lenses (in system with the WECO Edge 450 drill)
- > Contrast and brightness can be adjusted variably and thus adapted to all kinds of spectacle lenses

Lens retainer

- > Three specially positioned pins automatically match each rear side of a spectacle lens, thus holding the spectacle lens in a stable position
- > The front surface of the spectacle lens is automatically aligned in vertical position to the block direction
- > Blocking errors are therefore a thing of the past

Simply better

The importance of centring even complicated spectacle lenses – parallax-free and independent of the effect and geometry of the spectacle lens is generally known: “*The optical spectacle lens adaptation is one of the key tasks of an ophthalmic optician which he has to devote a major part of his time to.*” (Prof. H. Diepes, Optical Spectacle Lens Adaptation, ZVA-Fortbildungswerk).

WECO has the most progressive technology to support you optimally in this respect. The advantages of this progressive measuring system guaranteeing for the very first time ever that no system errors will occur, result from several aspects, which our engineers have developed for you:

1. Binocular insight

The observer sees the spectacle lens and the mould at the same time in natural size. Movements of the head do not influence the centring result at all.

2. Splitting mirror

The splitting mirror combines the mould and spectacle lens. The mould and spectacle lens both appear with the same distance. Parallax errors are therefore no longer possible.

3. LCD-monitor

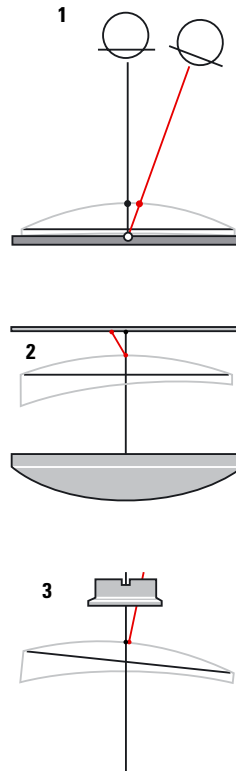
The high-resolution monitor displays the mould and centring data. The input menus are adapted to the user's centring procedure.

4. Spectacle lens

Effect and geometry of the spectacle lenses have no more influence on the centring result.

5. Reference layer

The spectacle lens is automatically transported to the parallax-free layer. That makes the centring result independent of the geometry of the spectacle lens.



In the past you had to compensate these three centring errors. If you use the WECO CAD III the following three errors can no longer occur (see figures 1–3):

1 Parallax error

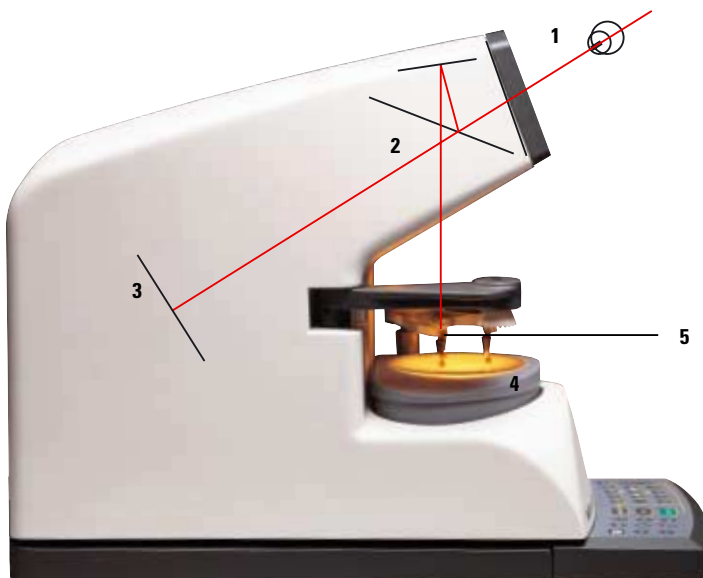
The centring result changes as a result of moving the head.

2 Projection error

Prismatic effects of the spectacle lenses lead to deviations.

3 Block errors

Occur when the front surface of the spectacle lens is not vertical to the blocking direction.



Key parameters and technical specifications

Easy centring of all spectacle lenses

- > Parallax-free
- > Independent of the effect and geometry of the spectacle lens
- > Upright, distortion-free presentation the right way up
- > Centring result independent of the effect and geometry of the spectacle lens

Good identification of near-sight segments with strong bifocal lenses

- > Thanks to infinitely variable contrast and brightness

High centring accuracy

- > By high-resolution display

Convenient processing of test foil

- > By special test foil retainer and separate centring menu

Reliable determination of the exact centring position

- > By automatic calculation and display of raw glass and exact centring position

Exact centring and incorporation of prismatic as well as decentred lenses

- > By Cartesian positioning of the lens retainer

Exact and reliable blocking of high-quality lenses with centring-sensitivity

- > By motorised blocking facility

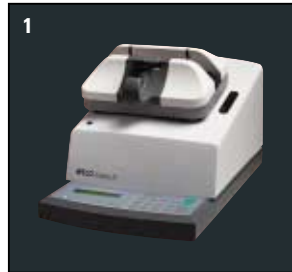
Interfaces

- > Current Loop (CL) for operation in the WECO CMS system
- > RS232 for operation with industry-segment software

Technical specifications:

Width	200 mm
Depth	430 mm
Height	335 mm
Weight	10 kg

- 1 Trace II
- 2 CAD III
- 3 Edge 450



For further information on CAD III and WECO optical machinery please call us.

We would be pleased to inform you.

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