Verifier Pro T – A technological innovation.

Perfection in manufacturing spectacle lenses depends primarily on the accuracy of centring the lenses. Every optician’s smallest errors have often been identified as user-set tolerance tables. The idea to create a product which aims at providing an optimum solution to this problem originated from this knowledge, creating for the first time a revolutionary centring system which can be implemented in a technical solution – the Verifier Pro T. WECO created this highly progressive product for the ophthalmic optician’s workshop based on the experience gained over many decades. With a high degree of reliability the Verifier Pro T takes over the task of automatically controlling the operating sequence. The result is higher profitability with fewer operational steps, shorter processing times, less rejects and higher precision. Verifier Pro T runs on the latest available environmental system Windows XP Embedded in combination with a high speed processor, setting the edge of the market. This ensures that Verifier Pro T is more than 50 per cent faster as the predecessor Verifier Pro. Additionally the overall stability of the PC system has strongly improved thereby preventing the operator from installing programs that may influence the performance of the system.

Verifier Pro T is a high-tech product solution integrating both the centring device and instrument. In the operating sequence it is no longer necessary to mark spectacle lenses on the centring instrument, as the task of measuring, centring and blocking spectacle lenses is performed in an automated operating sequence.
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Perfection in manufacturing spectacles depends primarily on the accuracy of centring the lenses. Every ophthalmic optician knows how important and simultaneously how time-consuming optimum centring can be and that small mistakes can unintentionally occur especially in this area, generating enormous follow-up costs in particular in processing modern innovative progressive lenses.

The idea to create a product which aims at providing an optimum solution to this problem originated from this knowledge, creating for the first time a revolutionary centring system which was implemented in a technical solution – the Verifier Pro T. WECO created this highly progressive product for the ophthalmic optician’s workshop based on the experience gained over many decades.

The Verifier Pro T is a high-end product solution integrating both the centring device and lensmeter. In the operating sequence it is no longer necessary to mark spectacle lenses on the centimeter, as the task of measuring, centring and blocking spectacle lenses is performed in an automated operating sequence.

With a high degree of reliability the Verifier Pro T takes over the task of automatically controlling the operating sequence. The result is higher profitability with fewer operational steps, shorter processing times, less rejects and higher precision.

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Subject to changes within the scope of technical development.

### Technical specifications.

- **Dimensions**
  - Height: 660 mm
  - Width: 259 mm
  - Depth: 386 mm
- **Technical data**
  - Measurement range:
    - Sphere: -12 to +12 dpt.
    - Cylindrical: 0 to 4.5 dpt.
    - Axis: 0 to 360°
    - Basis: 0.5 to 85°
  - Raw lens dimensions:
    - Max/min diameter: 85/40 mm
    - Max/min marginal thickness: 20/0.5 mm
  - Accuracy of detection: 0.2 mm
  - Block range from lens centre:
    - Horizontal: 200 to 349 mm
    - Vertical: 150 to 189 mm
  - Accuracy of blocker: ±0.1 mm
  - Process period:
    - Single-focus lens: 20 s
    - Bifocal lens: 20 s
    - Progressive lens: 20 s
    - Total period for one spectacle lens: 60 s
- **Interfaces**
  - WECO WECO CL interface, compatible with other interfaces
  - RS232: Serial interface
  - USB: two USB interfaces

### Key parameters and technical specifications.

**Your benefit by progress**
- Operation is easy to learn
- The procedure is automatically controlled
- The spectacle lenses are verified according to user-set tolerance tables

**Your benefit from profitability**
- Fewer operating steps
- Shorter processing periods
- Less rejects
- Higher precision
- High reliability

For further information on Verifier Pro T and WECO optical machinery, please call us. We would be pleased to inform you.

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Distributed by:

Dimensions
- Height 655 mm
- Width 219 mm
- Depth 385 mm
- Height of glass retainer 182 mm

Weight: 20 kg

### Technical limits
- Measurement range:
  - Sphere: -12 to +12 dpt.
  - Cylindrical: 0 to 4.5 dpt.
  - Axis: 0 to 360°
  - Basis: 0.5 to 85°
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- Interfaces:
  - WECO WECO CL interface, compatible with other interfaces
  - RS232: Serial interface
  - USB: two USB interfaces
Before beginning the centring and blocking process the spectacle lenses are measured to determine the optical centre and the power tolerance of the lenses. The Verifier Pro T also saves and retrieves the entire specification of the lenses in question, enabling an accurate lens checking and lens control device within quality control in the production process. Typically, with the Verifier-Pro system, no special skills are required to perform the operational steps, as the lens can be positioned randomly within the lens holder. No special tools are necessary and no contact with the lens surface.

In particular in the case of progressive lenses, measurements on the spectacle lenses are measured to determine the optical centre and power tolerance of the lenses. The Verifier Pro T also saves and retrieves the entire specification of the lenses in question, enabling an accurate lens checking and lens control device within quality control in the production process. Typically, with the Verifier-Pro system, no special skills are required to perform the operational steps, as the lens can be positioned randomly within the lens holder. No special tools are necessary and no contact with the lens surface.

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with ultramodern wave front technology that performs centring necessary to use a lensmeter, as the Verifier Pro T is equipped with a lens checking and lens control device within quality control in the production process. Typically, with the Verifier Pro T it is not required to perform lens checking and lens control within quality control in the production process. Typically, with the Verifier Pro T it is not required to perform lens checking and lens control within quality control in the production process. Therefore, Verifier Pro T can also serve as a deskilled measuring process.

Before beginning the centring and blocking process the prescription is employed. Verifier Pro T offers the possibility to detect cribbed diameters. This process is made with maximum accuracy. Individual tolerance tables and segments of bi-focal lenses.

The detection of spectacle lenses is not subject to any restrictions. Automatic detection for engraved progressive lenses and segments of bi-focal lenses.

Automatic centring
Automatic detection of reference points and cylinder axis
Detection of cribbed diameters
Automatic detection of segment and power tolerance table

Furthermore, Verifier Pro T is equipped with a download and upload possibility of lens databases via USB. This ensures fast and secure data handling and exchange from one Verifier to another. Typically lens design data bases are maintained in one Verifier and then copied to others. To exchange lens design data from a Verifier Pro to a Verifier Pro T a special software application is employed.

- Cribbed lens detection
- Real time progressive detection
- Safe and secure lens database exchange

In centring reference points and cylinder axis are automatically found with a high level of precision. At the same time the automatic detection of the uncut lens diameter at the calculation of the block point is initiated. For the first time ever, Verifier Pro T offers the possibility to detect cribbed diameters. The overlapping degree between the uncut lens and the traced form is checked to ensure that the uncut lens is optimally used. If the uncut lens diameter or the cribbed lens diameter is insufficient, the system informs the operator. The prismatic difference that may arise as a result of shifting the form is displayed.

To ensure that the efficient operation of the Verifier Pro T is not reduced by the time-consuming input of data via the keyboard, a feature is included that allows a variety of different interfaces. A link with the WECO WECO Tacho and WECO edging machines is established via the WECO-DC, interface. The software designed for this application is LabControl, which features simple handling, a lens form memory and drilling data transmission. Two USB ports are designed for printer and data storage media for quick and safe data transfer.

Drilling hole coordinates – quick and easy.

To determine the drilling hole coordinates, a former, dummy lens or an edge-lens blank is scanned with the WECO Tacho and placed in the lens retainer on the Verifier Pro T. The traced lens form is then displayed in the Verifier Pro T and matched to the image of the form on the monitor. Each hole position is then identified with the mouse and the drilling hole coordinates are displayed in a separate window for control purposes and for modification if necessary. With the Verifier Pro T you can easily and reliably mark drilling holes. Expensive mistakes and scratches on the lens surface are now a thing of the past.

- Fast and precise drill hole coordinates – detection
- Visual and numerical indication of hole position

After measuring the spectacle lens, centring directly follows. The lens remains in the Verifier Pro T; time-consuming handling with the inherent danger of damaging the lens surface is now a thing of the past.

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The detection of spectacle lenses is not subject to any restrictions. All lens types ranging from single vision lenses to bifocal and progressive lenses can be processed. To meet the requirements of simple operations, the Verifier Pro T also features an automatic detection function for engravings on progressive lenses and segments of bi-focal lenses.

- Automatic centring
- Automatic detection of reference points and cylinder axis
- Detection of cribbed diameters
- Prismatic differences after moving the frame for a better fitting are displayed

After the lens has been fully measured and centred, it only has to be blocked. In this operation the Verifier Pro T once again demonstrates its perfection. Block errors occurring when this spectacle lens is not positioned vertically against the block direction are excluded thanks to a patented blocking mechanism.

- Automatic blocking
- Describes centring and blocking process
Before beginning the centring and blocking process, the spectacle lenses are measured to determine the optical centre and axis position. Verifier Pro T features the block point is found with a high level of precision. At the same time the automatic detection of the uncut lens position and the calculation of the block point is initiated. For the first time ever Verifier Pro T offers the possibility to detect cribbed lens diameters. The overlapping degree between the uncut lens and the traced form is checked to ensure that the uncut lens is optimally used. If the uncut lens diameter or the cribbed lens diameter is insufficient, the system informs the operator. The prismatic differences that may arise as a result of shifting the lens form is displayed.

Centring – uncomplicated and without parallax error.

After measuring the spectacle lenses, centring directly follows. The lens remains in the Verifier Pro T; time-consuming handling with the inherent danger of damaging the lens surface is nothing of the past.

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Automatic centring

Automatic detection of reference points and cylinder axis

Detection of cribbed diameters

Prismatic differences after moving the frame for a better fitting are displayed

Blocking – automatic and without blocking error.

After the lens has been fully measured and centred, it only has to be blocked. In this operation the Verifier Pro T once again demonstrates its perfection. Block errors occurring when the spectacle lens is not positioned vertically against the block direction are excluded thanks to a patented blocking mechanism.

Automatic blocking

Deskilled centering and blocking process

Drilling hole coordinates – quick and easy.

To determine the drilling hole coordinates, a formerly dummy lens or an un-edged lens is scanned with the WECO-Scanner and placed in the lens reference on the Verifier Pro T. The tracing form is then displayed in the Verifier Pro T and matched to the image of the form on the monitor. Each hole position is then identified with the mouse and the drilling hole coordinates are displayed in a separate window for control purposes and for modification if necessary. With the Verifier Pro T you can exactly and reliably mark drilling holes. Expensive mistakes and scratches on the lens surface are now a thing of the past.

Fast and precise drill hole coordinates detection

Visual and numerical indication of hole position

WECO Verifier Pro T – device with powerful interfaces.

To ensure that the efficient operation of the Verifier Pro T is not reduced by the time-consuming input of data via the keyboard, a feature is available of different interfaces. A link via the WECO-Scanner and WECO-Scanner machine is established via the WECO-CPL interface. In addition, a serial interface is available with the DMS protocol, enabling convenient connection to a host computer. The software designed for this application is LabControl, which features simple handling, a lens form memory and drilling data transmission. Two USB ports are designed for printer and data storage media for quick and safe data transfer.
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Dimensions

- Height: 655 mm
- Width: 219 mm
- Depth: 385 mm
- Weight: 20 kg

Technical limits

- Measurement range: Sphere -124/+124 dpt.
- Cylinder -40/+40 dpt.
- Cylinder shaft: 0°-180°
- Prism: 0-6 cm/m
- Basis: 0-100°
- Addition: 0-3,5 dpt.

Optical Machinery by WECO

Verifier Pro T

For further information on Verifier Pro T and WECO optical machinery, please call us. We would be pleased to inform you.

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