

To Stock or to Surface....That is the question!

Handout Vision Expo West 2023

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To Stock or To Surface, That Is the Question!

Stock lenses are a great way for an office to maximize profits and to provide our patients with spectacles quickly, however how do we know when they are the best solution? In this course we will discuss how to determine when to use stock lenses and when a surfaced lens is a better option!

Learning Objectives

- Attendees will discuss the advantages of stock lenses
  - Attendees will discuss the advantages of surfaced lenses
  - Attendees will learn how to calculate minimum blank size and use it to determine if the patient will be better served with a stock lens choice or a surfaced lens choice.
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- Blank Size
    - How do we calculate minimum blank size
    - How does the diameter of the blank effect the thickness of the lens
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- Frames Selection
    - How does frame type effect whether or not you can use a stock a lens

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Formulas:

Geometric Center Distance:

$$A + DBL$$

Horizontal Decentration using Monocular PD:

$$GCD - \text{right PD}$$

$$GCD - \text{left PD}$$

Datum:

$$B/2$$

Vertical Decentration:

$$\text{Height} - \text{Datum}$$

Minimum Blank Size Formula:

$$ED + 2(\text{decentration})$$

Terms:

- Geometric Center Distance
- Pupil center height
- Optical Center
- Base Curve
- Ocular Curve
- Plano
- Convex
- Concave
- Radius of curvature
- Datum
- Decentration
- Characteristics of lenses
- Power in meridian
- Index of Refraction
- Aspheric lens design
- Frame shape