

geometry (GeometryType)

[b2bOpticJobData](#) → [items](#) → [item](#) → [pair](#) → [lens](#) → geometry



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|--|---|
| diameter | |
| type | Diameter |
| occurs | 1 |
| description | dimension of the lens |
| decentration | |
| type | Decentration |
| occurs | 0..1 |
| description | decentration of the lens |
| waveFrontOptimisation | |
| type | boolean |
| occurs | 0..1 |
| default | false |
| description | optimize the lens with the wavefront data |
| thickness | |
| type | float |
| unity | mm |
| occurs | 0..n, not together with thicknessReductionThin |
| description | the desired thickness of the lens at one or more points |
| reference (attribute of thickness) | |
| type | ThicknessReferences |
| use | required |
| description | the place of the thickness value |
| thicknessReduction | |
| type | boolean |
| occurs | 0..1, not together with thicknessReductionThin |
| description | thickness reduction of edge and center (e.g. Essilor: Precal; Hoya: METS; Rodenstock: MDM; Zeiss: Optima) |
| reference (attribute of thicknessReduction) | |
| type | ThicknessReductionReferences |
| use | required |
| description | thickness reduction based on frame shape or raw lens |
| thicknessReductionThin | |
| type | boolean |
| occurs | 0..1, not together with thickness or thicknessReduction |
| default | false |
| description | the lens should be as thin as possible |
| thinningPrism | |
| type | ThinningPrism |
| occurs | 0..1 |

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| thinningPrism | |
| description | prism to reduce the thickness |
| curve | |
| type | Curve |
| occurs | 0..1 |
| description | lens curve |
| inset | |
| type | float |
| unity | depends on attribut "dimension" |
| occurs | 0..1 |
| description | Horizontal offset from the nasal distance reference point due to the near reference point by the akkomotation in near vision. |
| New! dimension (attribute of inset) | |
| type | insetDimension |
| use | optional |
| description | default dimension for inset is MM; for some lens supplier PERCENT is possible too (0% - 100%) |
| upset | |
| type | float |
| unity | mm |
| occurs | 0..1 |
| description | Vertical distance from the distance reference point to the top of the near zone (only for multifocal lenses) |
| designType | |
| type | string (enum) |
| occurs | 0..1 |
| description | type of lens design |
| values | description |
| A | different for each lens manufacturer |
| B | different for each lens manufacturer |
| C | different for each lens manufacturer |
| progressionLength | |
| type | float |
| unity | mm |
| occurs | 0..1 (not together with progression(Far/Middle/Near)VisionShiftDistance) |
| description | for progressive lenses with variable length of progressionzone |
| progressionFarVisionShiftDistance | |
| type | float |
| unity | mm |
| occurs | 0..1 (not together with progressionLength; progressionNearVisionShiftDistance is required) |
| description | Far Vision Vertical Shift distance Bz to Bf |
| progressionNearVisionShiftDistance | |
| type | float |
| unity | mm |

| | |
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| progressionNearVisionShiftDistance | |
| occurs | 0..1 (not together with progressionLength) |
| description | Near Vision Vertical Shift distance Bz to Bn |
| progressionMiddleVisionShiftDistance | |
| type | float |
| unity | mm |
| occurs | 0..1 (not together with progressionLength; progressionNearVisionShiftDistance is required) |
| description | Middle Vision Vertical Shift distance |
| progressionZoneCalculationType | |
| type | string |
| occurs | 0..1 |
| description | Type of calculation of the progression zone length |

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