Individual Lens Range
as of 2015
WIDE-RANGING CHOICE FOR YOUR CUSTOMERS

Discover the eyewear portfolio from Eschenbach Optik, which offers customers the optimal solution on every occasion. Our range of products extends from single vision and multifocal lenses with exceptional correction options through to cut-off filter lenses in various strengths and includes reading glasses with individually matched high additions.

A GLOBAL BRAND WITH TRADITION

Since its establishment in 1913, Eschenbach Optik has been combining traditional business values with modern innovative flair. Within a century Eschenbach Optik has become one of the leading suppliers of optical products - both in Germany and abroad. The product range extends from eyewear frames and sunglasses, to binoculars and right through to magnifiers, telescopic glasses and special vision aids.

With subsidiaries in twelve countries, more than 30 international trade partners and over 630 employees throughout the world, today Eschenbach Optik has a global presence.

VISION TECHNOLOGY PRODUCTS

The eyewear portfolio is part of our extensive range of magnifying low vision aids, the Vision Technology Products. Our name is renowned globally for innovative research and development, state of the art technologies and precision manufacturing techniques – and quality that meets only the most exacting demands in optical performance, reliability and intuitive handling.

GRINDING SERVICE

On request, the Eschenbach Optik grinding service will also grind and fit lenses from the following ranges: wellnessPROTECT, system INDIVIDUAL, higher additions and telescopic systems. More information on this can be found on Page 27.

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EXCEPTIONAL ALL-ROUND PROTECTION FOR EYES EASILY DAZZLED BY GLARE
wellnessPROTECT®

The protection factor for the eyes

wellnessPROTECT has been developed to meet the increased demand for the ultimate all-round protection of the eyes against the sun’s rays which are becoming increasingly stronger.

wellnessPROTECT is an essential accessory for health-conscious people who enjoy being outdoors and is particularly suitable
• for eyes which are sensitive to glare
• for retinal disease
• following cataract operations

wellnessPROTECT frames offer a variety of features which protect against glare:
• the frame is darkened on the inside
• the top shield on the upper edge of the frame fits closely to the face
• side lenses provide protection against lateral glare and at the same time allow orientation to the side
• side ventilation slots prevent fogging of the lenses

wellnessPROTECT filter lenses have an additional cut-off filter. In addition to UV light, they also absorb shortwave, energy-rich light components. Contrast vision is therefore improved and unpleasant glare is reduced.

With wellnessPROTECT filter lenses, colour recognition is improved in comparison to conventional cut-off filters.

wellnessPROTECT filter lenses look like normal sunglasses and not like bright, stigmatising cut-off filter lenses. They are available with a variety of tints to suit any light conditions. (The details relating to the filter lenses refer to the tint which is applied to the base filter)
**wellnessPROTECT wP15**
- cut-off filter with 15% tint overlay
- blue light absorption approx. 98%
**Recommended use:**
- indoors in the case of a high level of glare sensitivity
- outdoors when the sky is cloudy
- outdoors in the case of a low level of glare sensitivity

**wellnessPROTECT wP65**
- cut-off filter with 65% tint overlay
- blue light absorption approx. 97%
**Recommended use:**
- indoors in the case of a high level of glare sensitivity
- outdoors in cloudy to clear weather
- outdoors in the case of a medium level of glare sensitivity

**wellnessPROTECT wP75P**
- cut-off filter with polarized 75% tint overlay
- strong reduction in reflection and additional contrast enhancement through polarisation
- blue light absorption approx. 94%
**Recommended use:**
- indoors in the case of a high level of glare sensitivity
- outdoors in bright weather, sunshine
- outdoors on the water, in snow
- suitable for traffic as per DIN EN ISO 12312-1
- not suitable for driving at night

**wellnessPROTECT wP85**
- cut-off filter with 85% tint overlay
- blue light absorption approx. 99%
**Recommended use:**
- outdoors in sunshine
- outdoors in the case of a very high level of glare sensitivity

**wellnessPROTECT wP50-15**
- cut-off filter with graded 50-15% tint overlay
- blue light absorption approx. 98%
**Recommended use:**
- indoors in the case of a medium to high level of glare sensitivity
- outdoors in cloudy to clear weather
- outdoors in the case of a low to medium level of glare sensitivity
- ideal for reading indoors and outdoors

**wellnessPROTECT wP active**
- photochromic lenses with additional cut-off filter
- darkening according to the level of sunlight
- blue light absorption approx. 97% to 99%
**Recommended use:**
- Owing to the self-tinting property are ideal for indoor or outdoor use.
- For moderate to high sensitivity to glare

with wellnessPROTECT

without wellnessPROTECT
**Eyewear and clip-ons**

Glazed with wellnessPROTECT plano lenses 15%, 65%, polarizing 75%, 85% and graded 50 -15%.
(The description relates to the absorption of the additional tint overlay on the base filter. It does not relate to the light transmission level of the entire filter.)

- material CR39
- eyewear supplied in hard foam case
- clip-ons supplied in soft case with belt clip

* wellnessPROTECT XL glasses are meant to be put on over normal prescription glasses and because of the lens size are not intended for individual glazing.

<table>
<thead>
<tr>
<th>Filter category</th>
<th>15%</th>
<th>65%</th>
<th>85%</th>
<th>50-15% (graded)</th>
<th>75% (polarized)</th>
<th>active (photochromic)</th>
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<tbody>
<tr>
<td>Small frame size 54-16</td>
<td>1663115</td>
<td>1663165</td>
<td>1663185</td>
<td>166315015</td>
<td>1663175P</td>
<td>-</td>
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<td>1663265</td>
<td>1663285</td>
<td>166325015</td>
<td>1663275P</td>
<td>-</td>
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<tr>
<td>Ladies’ frame size 56-15</td>
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<td>1663485</td>
<td>166345015</td>
<td>1663475P</td>
<td>166341580</td>
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<tr>
<td>Men’s frame size 58-16</td>
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<td>1663385</td>
<td>166335015</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>XL small frame size 61-12-140</td>
<td>1663815</td>
<td>1663865</td>
<td>1663885</td>
<td>166385015</td>
<td>1663875P</td>
<td>166381580</td>
</tr>
<tr>
<td>XL large frame size 65-12-140</td>
<td>1663915</td>
<td>1663965</td>
<td>1663985</td>
<td>166395015</td>
<td>1663975P</td>
<td>166391580</td>
</tr>
</tbody>
</table>
frames

unglazed to accommodate individual wellnessPROTECT filter lenses

16635416
Small frame, unisex
Size 54-16, Height 34 mm
Temple 135 mm, can be shortened

16635716
Large frame, unisex
Size 57-16, Height 35 mm
Temple 135 mm, can be shortened

16635615
Ladies’ frame
Size 56-15, Height 40 mm
with adjustable nosepads
Temple 130 mm, can be shortened

16635816
Men’s frame
Size 58-16, Height 37 mm
with spring hinges and adjustable nosepads
Temple 130 mm, can be shortened

Lenses

When ordering lenses with individual powers from the wellnessPROTECT range, please use the wellnessPROTECT order form which can be downloaded from the Materials area: www.eschenbach-partner.com

PLANO LENSES

- diameter 70 mm
- material CR39
- curve 6
- available as wP15, wP65, wP85, wP50-15, wP75P (polarized), wP active (photochromic)
- special finishes available:
  - super anti-reflection coating with hard coating
  - hard coating
SINGLE VISION LENSES

spheric single vision lens, standard
- material CR39
- available as wP15, wP65, wP85, wP50-15
- maximum cylinder +2.0 dpt
- special finishes available:
  - super anti-reflection with hard coating
  - hard coating

<table>
<thead>
<tr>
<th>Delivery-range: (strongest main-cut)</th>
</tr>
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<tbody>
<tr>
<td>ø 55</td>
</tr>
<tr>
<td>---</td>
</tr>
<tr>
<td>+6</td>
</tr>
<tr>
<td>-6</td>
</tr>
</tbody>
</table>

Please note:
If the value of a lens is outside the standard range, both lenses will be manufactured as prescription lenses, otherwise the same colour cannot be guaranteed for both the right and left lenses!

spheric single vision lens, prescription lens
- material CR39
- available as wP15, wP65, wP85, wP50-15, wP active
- special finishes available:
  - super anti-reflection with hard coating
  - hard coating

<table>
<thead>
<tr>
<th>Delivery-range: (strongest main-cut)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 55</td>
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</tr>
<tr>
<td>+8</td>
</tr>
<tr>
<td>-8</td>
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</tbody>
</table>

spheric single vision lens, polarized
- material CR39
- available as wP75P (polarized)
- particularly suitable for reducing glare from reflective surfaces
- not suitable for grooving
- special finishes available:
  - super anti-reflection with hard coating
  - hard coating

<table>
<thead>
<tr>
<th>Delivery-range: (strongest main-cut)</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø 55</td>
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<tr>
<td>+6</td>
</tr>
<tr>
<td>-6</td>
</tr>
</tbody>
</table>
aspheric single vision lens
- material CR39
- available as wP15, wP65, wP85, wP50-15
- special finishes available:
  - super anti-reflection with hard coating
  - hard coating

Lenticular lens
- material CR39
- lens with flat support rim
- active visual diameter 40 mm
- available as wP15, wP65, wP85, wP50-15
- special finishes available:
  - super anti-reflection with hard coating
  - hard coating

BIFOCAL LENSES

Bifocal lens C28
- material CR39
- pre-decentered bifocal lens
- near vision segment with curved upper edge, near vision segment width 28 mm
- addition 0.75-3.50
- available as wP15, wP65, wP85, wP50-15
- special finishes available:
  - super anti-reflection with hard coating
  - hard coating
Bifocal lens S35 / S45
- material CR39
- pre-decentered bifocal lens
- near vision segment with curved upper edge,
  near vision segment width 40 mm
- addition 1.00-3.00
- available as wP15, wP65, wP85, wP50-15
- special finishes available:
  - super anti-reflection with hard coating
  - hard coating

Bifocal lens S28, polarized
- material CR39
- pre-decentered bifocal lens
- near vision segment with straight upper edge,
  near vision segment width 28 mm
- addition 1.00-3.00
- available as wP75P (polarized)
- particularly suitable for reducing glare from reflective surfaces
- not suitable for grooving
- special finishes available:
  - super anti-reflection with hard coating
  - hard coating

Progressive lenses
Standard progressive lens
- material CR39
- addition 0.75-3.50
- available as wP15, wP65, wP85, wP50-15, wP active
- fully usable, distortion-free distance vision segment
- large, stable near vision segment
- excellent binocular imaging characteristics
- excellent familiarisation
- Progression length 15 mm
- minimum grinding height 20 mm
- recommended special finishes:
  - super anti-reflection with hard coating
  - hard coating

**Premium progressive lens**
- material CR39
- addition 1.00-3.50
- available as wP15, wP65, wP85, wP50-15
- fully usable, distortion-free distance vision segment
- Smoother, more comfortable progression zone
- Wider progression zone than with standard glass
- large, stable near vision segment
- excellent binocular imaging characteristics
- quick familiarisation
- Progression length 13 mm
- minimum grinding height 18 mm
- recommended special finishes:
  - super anti-reflection with hard coating
  - hard coating

**Delivery-range: (strongest main-cut)**
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<tr>
<td>-6</td>
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<td>-6</td>
<td>-6</td>
<td>-6</td>
</tr>
</tbody>
</table>

Sph. + Cyl. max. Cyl. +4.00 Add. 1.00-3.50

**Standard progressive lenses, polarized**
- material CR39
- addition 1.00-3.00
- available as wP75P (polarized)
- fully usable, distortion-free distance vision segment
- large, stable near vision segment
- excellent binocular imaging characteristics
- excellent familiarisation
- Progression length 15 mm
- minimum grinding height 20 mm
- particularly suitable for reducing glare from reflective surfaces
- not suitable for grooving
- recommended special finishes:
  - super anti-reflection with hard coating
  - hard coating

**Delivery-range: (strongest main-cut)**
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<th>ø 60/65</th>
<th>ø 65/70</th>
<th>ø 70/75</th>
<th>ø 75/80</th>
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<tr>
<td>-6</td>
<td>-6</td>
<td>-6</td>
<td>-6</td>
<td>-6</td>
</tr>
</tbody>
</table>

Sph. + Cyl. max. Cyl. +4.00 Add. 1.00-3.00
Confirmation panels

for easy selection of the correct filter during refraction. The suitable filter can be quickly determined during refraction by placing the confirmation panels in front of the trial frame.

**Confirmation panel wP15**
- cut-off filter with 15% tint overlay
- light transmission level approx. 50%
- Filter Category 1
- blue light absorption approx. 98%

*Recommended use:*
- indoors in the case of a high level of glare sensitivity
- outdoors when it is cloudy and in the case of a low level of glare sensitivity

**Confirmation panel wP65**
- cut-off filter with 65% tint overlay
- light transmission level approx. 35%
- Filter Category 2
- blue light absorption approx. 97%

*Recommended use:*
- indoors in the case of a high level of glare sensitivity
- outdoors in cloudy to clear weather and in the case of a medium level of glare sensitivity

**Confirmation panel wP85**
- cut-off filter with 85% tint overlay
- light transmission level approx. 15%
- Filter Category 3
- blue light absorption approx. 99%

*Recommended use:*
- outdoors in sunshine and in the case of a very high level of glare sensitivity

**Confirmation panel wP50-15**
- cut-off filter with graded 50%-15% tint overlay
- light transmission level approx. 30%
- Filter Category 2
- blue light absorption approx. 98%

*Recommended use:*
- indoors in the case of a medium to high level of glare sensitivity
- outdoors in cloudy to clear weather and in the case of a low to medium level of glare sensitivity
- ideal for reading indoors and outdoors
Confirmation panel wP75P

- cut-off filter with polarized 75% tint overlay
- strong reduction in reflection and additional contrast enhancement through polarisation
- light transmission level approx. 30%
- Filter Category 2
- blue light absorption approx. 94%

**Recommended use:**
- indoors in the case of a high level of glare sensitivity
- outdoors in the case of a high level of glare sensitivity
  - and in bright weather, in sunshine
- on the water, in snow

1663951 Confirmation Panel Set

Contents: 1x wP15, wP65, wP75P, wP85, wP60-15

**Please order separately: 1615953** Test box for storing the confirmation panels. The box contains compartments for 13 confirmation panels, suitable for all system INDIVIDUAL and wellnessPROTECT confirmation panels (not illustrated).
BESPOKE CUT-OFFS AND TINTS

system INDIVIDUAL
Vision aids are individually fitted

With Eschenbach system Individual, individual refraction values are taken into account when the vision aid is fitted, together with the required cut-off filters or tints.

Cut-off filters

Cut-off filters work when there is a steep transition between absorption and transmission in a narrow wavelength range. This transition is known as a cut-off.

The energy-rich UV light and components of the short-wave blue light are absorbed up to this cut-off. Depending on the position of the cut-off, other components of the visible light are also absorbed. The description of a cut-off filter refers to the wavelength where the cut-off is located.

Through absorption of the energy-rich UV light and the short-wave blue light, cut-off filters reduce glare and increase contrast. For this reason, cut-off filters are particularly recommended in the case of increased glare sensitivity and reduced contrast sensitivity, e.g., for conditions such as retinitis pigmentosa, macular degeneration, albinism, glaucoma, diabetes and optic atrophy.

Polarized cut-off filters

The additional polarisation of these cut-off filters greatly reduces reflection and increases contrast. Polarized cut-off filters are ideal for people who are particularly sensitive to glare.

It is not possible to give a general recommendation on the use of specific cut-off filters for specific eye conditions. Instead, the appropriate cut-off filter must be tested in accordance with individual requirements and worn on a trial basis.

An ophthalmic prescription is required if the costs are to be met by health insurance. Cut-off filters are only suitable for driving in accordance with DIN EN ISO 12312-1. Cut-offs conformant to DIN EN ISO 12312-1 are not suitable for driving at night or in twilight conditions.
system INDIVIDUAL

Clip-ons

- also available with polarisation
- edges 450 nm, 511 nm, 527 nm, 550 nm
- material: CR 39
- clip-ons with flip-up function
- lenses are attached by screws, not riveted – this makes them easy to detach and grind

<table>
<thead>
<tr>
<th>Item</th>
<th>Edge</th>
<th>Transmission</th>
<th>Filter-Cat.</th>
<th>Suitable for driving</th>
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</thead>
<tbody>
<tr>
<td>1662450</td>
<td>450 nm</td>
<td>ca. 85%</td>
<td>0</td>
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<tr>
<td>1662450P</td>
<td>450 nm, polarized</td>
<td>ca. 25%</td>
<td>2</td>
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<tr>
<td>1662511</td>
<td>511 nm</td>
<td>ca. 60%</td>
<td>1</td>
<td>no</td>
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<td>1662511P</td>
<td>511 nm, polarized</td>
<td>ca. 11%</td>
<td>3</td>
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<tr>
<td>1662527</td>
<td>527 nm</td>
<td>ca. 43%</td>
<td>2</td>
<td>no</td>
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<tr>
<td>1662527P</td>
<td>527 nm, polarized</td>
<td>ca. 9%</td>
<td>3</td>
<td>no</td>
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<td>1662550</td>
<td>550 nm</td>
<td>ca. 27%</td>
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<td>1662550P</td>
<td>550 nm, polarized</td>
<td>ca. 7%</td>
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</table>

* Restriction: according to DIN EN ISO 12312-1 are not suitable for driving at night or in twilight conditions.

system INDIVIDUAL

Lenses

When ordering lenses with individual powers from the system INDIVIDUAL range, please use the system INDIVIDUAL order form which can be downloaded from the Materials area: www.eschenbach-partner.com

PLANO LENSES

Plano cut-off filter lenses

- edges 450 nm, 511 nm, 527 nm, 550 nm
- also available with polarisation
- material: CR 39
- curve 6
- diameter 70 mm (polarized 75 mm)
- special finishes available:
  - multi-tec (hard coating + multi anti-reflection),
  - super-tec (hard coating + super anti-reflection)
  - hard coating

<table>
<thead>
<tr>
<th>Edge</th>
<th>Transmission</th>
<th>Filter-Cat.</th>
<th>Suitable for driving</th>
</tr>
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<tbody>
<tr>
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<tr>
<td>450 nm, polarizing</td>
<td>34%</td>
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<td>yes*</td>
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<tr>
<td>511 nm</td>
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<td>15%</td>
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<tr>
<td>527 nm</td>
<td>43%</td>
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<tr>
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<td>28%</td>
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<tr>
<td>550 nm, polarizing</td>
<td>11%</td>
<td>3</td>
<td>no</td>
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</table>

* Restriction: according to DIN EN ISO 12312-1 are not suitable for driving at night or in twilight conditions. Polarizing lenses are not suitable for grooving.
SINGLE VISION LENSES

individual spheric
• spheric single vision lens
• material CR39
• maximum cylinder: +6.0 dpt
• maximum prism: 3 cm/m
• special finishes available:
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - hard coating
  - cut-off filter (450 nm, 511 nm, 527 nm, 550 nm)
  - tint (10%-85% brown, grey, green)

individual spheric polar
• polarized, spheric single vision lens
• polarized lenses greatly reduce reflection
• material CR39
• maximum cylinder +4.0 dpt
• maximum prism: 3 cm/m
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - hard coating
  - polarized cut-off filter (450 nm, 511 nm, 527 nm, 550 nm)
• polarized lenses are not suitable for grooving

individual aspheric
• aspheric single vision lens
• material CR39
• maximum cylinder: +6.0 dpt
• maximum prism: 3 cm/m
• special finishes available:
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - hard coating
  - cut-off filter (450 nm, 511 nm, 527 nm, 550 nm)
  - tint (10%-85% brown, grey, green)
individual aspheric lenticular
- aspheric single vision lens with carrier lens
- active visual diameter: 40 mm
- thinner than individual aspheric softlenti of the same strength
- material CR39
- maximum cylinder: +4.0 dpt
- maximum prism: 3 cm/m
- special finishes available:
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - hard coating
  - cut-off filter (450 nm, 511 nm, 527 nm, 550 nm)
  - tint (10%-85% brown, grey, green)

individual aspheric softlenti
- aspheric single vision lens with tapered support rim
- no circular scotoma due to tapered support rim
- active visual zone: 40 mm
- material CR39
- maximum cylinder: +4.0 dpt
- maximum prism: 3 cm/m
- special finishes available:
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - hard coating
  - cut-off filter (450 nm, 511 nm, 527 nm, 550 nm)
  - tint (10%-85% brown, grey, green)
**BIFOCAL LENSES**

**bifocal standard C28**

- bifocal lens
- near vision segment has curved upper edge
- addition: 0.75 to 3.50 dpt
- maximum cylinder: +6.0 dpt
- maximum prism: 3 cm/m
- material CR39
- special finishes available:
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - hard coating
  - cut-off filter (450 nm, 511 nm, 527 nm, 550 nm)
  - tint (10%-85% brown, grey, green)

**bifocal standard S28 high addition**

- bifocal lens for high additions
- near vision segment has straight upper edge
- addition: 4.00 to 6.00 dpt, 0.5 dpt increments
- maximum cylinder: +6.0 dpt
- maximum prism: 3 cm/m
- material CR39
- special finishes available:
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - hard coating
  - cut-off filter (450 nm, 511 nm, 527 nm, 550 nm)
  - tint (10%-85% brown, grey, green)
**executiv standard**
- bifocal lens with straight dividing edge between the large distance and near vision segment
- addition: 0.75 to 3.00 dpt
- maximum cylinder: +5.75 dpt
- maximum prism: 3 cm/m
- material CR39
- special finishes available:
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - hard coating
  - cut-off filter (450 nm, 511 nm, 527 nm, 550 nm)
  - tint (10%-85% brown, grey, green)

**Progressive Lenses**

**Standard progressive lens**
- addition 0.75-3.50
- maximum cylinder: +4.0 dpt
- material CR39
- fully usable, distortion-free distance vision segment
- large, stable near vision segment
- excellent binocular imaging characteristics
- excellent familiarisation
- Progression length 15 mm
- minimum grinding height 20 mm
- special finishes available:
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - hard coating
  - cut-off filter (450 nm, 511 nm, 527 nm, 550 nm)
  - tint (10%-85% brown, grey, green)
Premium progressive vision lens

- addition 1.00-3.50
- maximum cylinder: +4.0 dpt
- material CR39
- fully usable, distortion-free distance vision segment
- Smoother, more comfortable progression zone
- Wider progression zone than with standard glass
- large, stable near vision segment
- excellent binocular imaging characteristics
- quick familiarisation
- Progression length 13 mm
- minimum grinding height 18 mm
- special finishes available:
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - hard coating
  - cut-off filter (450 nm, 511 nm, 527 nm, 550 nm)
  - tint (10%-85% brown, grey, green)

Delivery-range: (strongest main-cut distance portion)

<table>
<thead>
<tr>
<th>ø 55</th>
<th>ø 60</th>
<th>ø 65</th>
<th>ø 70</th>
<th>ø 75</th>
<th>ø 78</th>
</tr>
</thead>
<tbody>
<tr>
<td>+6</td>
<td>+6</td>
<td>+6</td>
<td>+6</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>-9</td>
<td>-9</td>
<td>-9</td>
<td>-9</td>
<td>-9</td>
</tr>
</tbody>
</table>

Sph. + Cyl.
max. Cyl. +4.00
Addition 1.00 - 3.50

system INDIVIDUAL

Confirmation panels

For easy selection of the correct filter during refraction. The ideal filter can be quickly determined by placing the confirmation panels in front of the trial frame.

Confirmation panel SI 450 nm
Light transmission level approx. 85%
Filter Category 0
Suitable for traffic as per DIN EN ISO 12312-1

Confirmation panel SI 450 nm, polarized
Light transmission level approx. 25%
Filter Category 2
Suitable for traffic as per DIN EN ISO 12312-1, not suitable for driving at night or in twilight conditions.

Confirmation panel SI 511 nm
Light transmission level approx. 60%
Filter Category 1
Not suitable for traffic as per DIN EN ISO 12312-1
Confirmation panel SI 511 nm, polarized
Light transmission level approx. 11%
Filter Category 3
Not suitable for traffic as per DIN EN ISO 12312-1

Confirmation panel SI 527 nm
Light transmission level approx. 43%
Filter Category 2
Not suitable for traffic as per DIN EN ISO 12312-1

Confirmation panel SI 527 nm, polarized
Light transmission level approx. 9%
Filter Category 3
Not suitable for traffic as per DIN EN ISO 12312-1

Confirmation panel SI 550 nm
Light transmission level approx. 27%
Filter Category 2
Not suitable for traffic as per DIN EN ISO 12312-1

Confirmation panel SI 550 nm, polarized
Light transmission level approx. 4%
Filter Category 4
Not suitable for traffic as per DIN EN ISO 12312-1

Please order separately: 1615953 test box for storing the confirmation panels. The test box contains compartments for 13 test confirmation panels, suitable for all system Individual and wellnessPROTECT confirmation panels. (not illustrated)
INDIVIDUAL MAGNIFYING SPECTACLES
FOR SHORTENED READING DISTANCE
Higher additions

“Higher additions are used to significantly reduce the usual reading distance compared to normal near-distance correction and thereby achieve magnification through convergence. Convergence-supporting prisms in the glasses thereby relieve the eyes when reading close up.”

prismatic bino comfort
- binocular spectacle magnifiers, half-eye frame, with higher addition and convergence-supporting prisms
- aspheric magnifying lenses, from +10 dpt
- aspheric softlenti lenses, material: CR39
- available in 5 strengths (see table).
- metal frame gold, matt, with soft pads and easily adjustable pad arms.
- dimensions: 41-22-160
- adjustable temples with spring hinges.
- supplied in a robust hard shell case.

Please note:
In the case of distance refraction values greater then ±1 dpt, we strongly recommend individual fitting as prismatic bino individual.

prismatic bino individual
- binocular spectacle magnifiers with higher addition and convergence-supporting prisms.
- The individual distance refraction values are taken into account during manufacture.
- aspheric magnifying lenses, from +10 dpt
- aspheric softlenti lenses, material: CR39
- special finishes available:
  - only hard coating
  - multi-tec (hard coating + multi anti-reflection)
  - super-tec (hard coating + super anti-reflection)
  - cut-off filter (see Page 15)
  - tint (10%-85% brown, grey, green)
- 4 frame options:
  168104122, 16814122, 16833827, 16843627

In order to manufacture an individual specification, we require the following information:
- frame
- distance correction
- distance PD
- addition
- required special finishes

Supply range  dpt (strongest main segment)

<table>
<thead>
<tr>
<th>Item</th>
<th>Magnification</th>
<th>Working distance approx.</th>
</tr>
</thead>
<tbody>
<tr>
<td>168014</td>
<td>4 dpt / 1 x</td>
<td>250 mm</td>
</tr>
<tr>
<td>168015</td>
<td>5 dpt / 1.25 x</td>
<td>200 mm</td>
</tr>
<tr>
<td>168016</td>
<td>6 dpt / 1.5 x</td>
<td>165 mm</td>
</tr>
<tr>
<td>168018</td>
<td>8 dpt / 2 x</td>
<td>125 mm</td>
</tr>
<tr>
<td>1680110</td>
<td>10 dpt / 2.5 x</td>
<td>100 mm</td>
</tr>
</tbody>
</table>

Half-eye frame, allergy-free, gun gloss, easily adjustable pad arms, adjustable temples with spring hinges. Dimensions: 41-22

168104122

Half-eye frame, allergy-free, gold matt, easily adjustable pad arms, adjustable temples with spring hinges. Dimensions: 41-22

16814122

Oval titanium frame, allergy-free, silver, easily adjustable pad arms, adjustable temples. Dimensions: 38-27

16833827

Square titanium frame, allergy-free, silver, easily adjustable pad arms, adjustable temples. Dimensions: 36-27

16843627
Grinding Service / Ordering Information

The wellnessPROTECT order form can be obtained from our sales department or can be downloaded from the Materials area of the Eschenbach Partner-Portal at www.eschenbach-partner.com. On request, the Eschenbach grinding service will fit the lenses into the selected frame. Please state this on the wellnessPROTECT form below.

Grinding service for telescopic systems.
On request, the Eschenbach grinding service will manufacture your telescopic systems. Simply state the necessary centering details required for the order on the grinding service order form for telescopic systems and we’ll do the rest. The conditions can be found in the price list relating to the Individual Lens Range catalogue.

A grinding service order form for telescopic magnifier systems can be obtained from our internal sales department or conveniently downloaded from the Materials area of the Eschenbach Partner-Portal at www.eschenbach-partner.com.

The system INDIVIDUAL order form can be obtained from our sales department or can be downloaded from the Materials area of the Eschenbach Partner-Portal at www.eschenbach-partner.com. On request, the Eschenbach grinding service will fit the lenses into the required frame. The prismatic bino individual half-eye spectacles can also be ready glazed by the Eschenbach grinding service. Please state this on the system Individual order form below.
Information on eye disease

Frequently asked questions concerning visual impairment

What is visual impairment?
A visual impairment exists when, despite applying the best corrective eyewear or contact lenses, vision is still impaired. Magnifying vision aids help the user to see better, despite visual impairment.

What are magnifying low vision aids?
Magnifying vision aids are defined as being all optical and electronic aids which compensate for the loss of vision by providing magnification of the images on the retina. Magnifying vision aids improve the quality of life of those suffering from visual impairment so that they are able to carry out their daily tasks more easily and without assistance.

What are the different levels of visual impairment?
According to this method, a person is considered to have a visual impairment when the visual acuity cc of the better eye is no more than 0.3 (30% residual visual acuity). Severe visual impairment exists when the visual acuity is 0.05 (5% residual visual acuity) or less. According to this categorisation, a person is considered to be blind when their better eye has a visual acuity cc of no more than 0.02 (2% residual visual acuity). An eye is considered to be blind if the visual field is reduced to an angle of below 5° (e.g. retinitis pigmentosa).

How does this become noticeable in everyday life?
For example, a visual acuity of 0.6 to 0.7 is sufficient for reading a telephone directory. A visual acuity of 0.4 to 0.5 is sufficient for reading a newspaper. A visual acuity of 0.1 is generally sufficient for a person to be able to orientate themselves outdoors in good light conditions.

What are the most common causes of visual impairment?
Visual impairment can affect anyone, although it mainly occurs amongst the elderly. The causes are also diverse and can differ from country to country. The most common causes in our part of the world are age-related macular degeneration (AMD), diabetic retinopathy which is becoming more prevalent, and other diseases such as detachment of the retina, cataracts and glaucoma.

What should be considered when advising those with visual impairment?
Even though many people with impaired vision are mainly interested in receiving help with reading, distance vision must also be tested. In the case of visual impairment, by determining the refraction, we can determine the required optical correction which will provide the best possible visual acuity (visual acuity cc). This is always the starting point for fitting magnifying vision aids. Please also note the information relating to this in brochure 162510.

How is the required magnification determined?
The magnification required for a vision aid is determined by the ratio between the desired visual acuity to the existing visual acuity using the best corrective eyewear.