



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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# wellness PROTECT

EXCEPTIONAL ALL-ROUND PROTECTION  
FOR EYES EASILY DAZZLED BY GLARE



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wellnessPROTECT®

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)





with wellnessPROTECT



without wellnessPROTECT



15

65

85

50/15

75P

active

**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 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



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



1663165



1663265



1663865\*



1663365



1663965\*



1663465



1663565

\* 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.

	15%	65%	85%	50-15% (graded)	75% (polarized)	active (photochromic)
Filter category	1	2	3	2	2	1/2
luminous transmittance	approx. 50%	approx. 35%	approx. 15%	approx. 30%	approx. 30%	approx. 55% / 15%
Small frame size 54-16	1663115	1663165	1663185	166315015	1663175P	-
Large frame size 57-16	1663215	1663265	1663285	166325015	1663275P	-
Ladies' frame size 56-15	1663415	1663465	1663485	166345015	1663475P	166341580
Men's frame size 58-16	1663515	1663565	1663585	166355015	1663575P	166351580
Clip-ons size 60-11	1663315	1663365	1663385	166335015	-	-
XL small frame size 61-12-140	1663815	1663865	1663885	166385015	1663875P	166381580
XL large frame size 65-12-140	1663915	1663965	1663985	166395015	1663975P	166391580

## wellnessPROTECT® individual

### 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 nose pads  
Temple 130 mm, can be shortened



#### 16635816

Men's frame  
Size 58-16, Height 37 mm  
with spring hinges and  
adjustable nose pads  
Temple 130 mm, can be shortened



## wellnessPROTECT® individual

### 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](http://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

**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

**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



Delivery-range: (strongest main-cut)					
ø 55	ø 60	ø 65	ø 70	ø 75	
		+6	+6		Sph. + Cyl.
		-6	-6		max. Cyl. +2.00

*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!*

Delivery-range: (strongest main-cut)						
ø 55	ø 60	ø 65	ø 70	ø 75	ø 80	
+8	+8	+8	+8	+8	+8	Sph. + Cyl.
-8	-8	-8	-8	-8	-8	max. Cyl. +4.00

Delivery-range: (strongest main-cut)				
ø 55	ø 60	ø 65	ø 70	
	+6	+6	+6	Sph. + Cyl.
	-6	-6	-6	max. Cyl. +4.00



### aspheric single vision lens

- material CR39
- available as wP15, wP65, wP85, wP50-15
- special finishes available:
  - super anti-reflection with hard coating
  - hard coating



#### Delivery-range: (strongest main-cut)

ø 55	ø 60	ø 65	ø 70	ø 75	
		+8	+8	+8	
					<i>Sph. + Cyl.</i>
					<i>max. Cyl. +4.00</i>

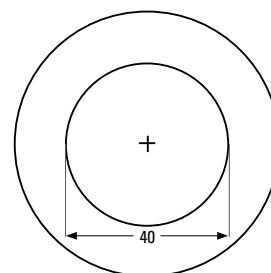
### Lenticular lens

- 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



#### Delivery-range: (strongest main-cut)

ø 55	ø 60	ø 65	ø 70	ø 75	
		+18			
		+7			<i>Sph. + Cyl.</i>
					<i>max. Cyl. +4.00</i>



## BIFOCAL LENSES

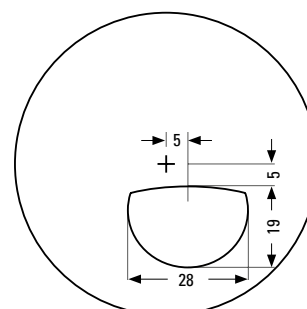
### Bifocal lens C28

- 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



#### Delivery-range: (strongest main-cut)

ø 55/60	ø 60/65	ø 65/70	ø 70/75	ø 75/80	
		+6	+6		
		-6	-6		<i>Sph. + Cyl.</i>
					<i>max. Cyl. +4.00</i>
					<i>Add. 0.75-3.50</i>

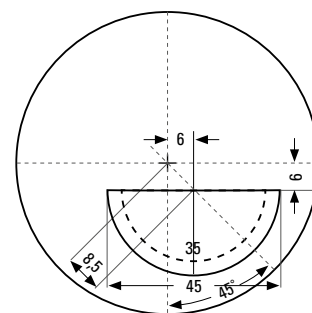


**Bifocal lens S35 / S45**

- 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

**Delivery-range: (strongest main-cut)**

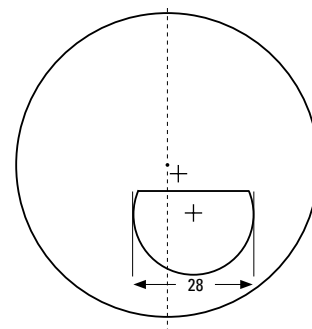
ø 55/60	ø 60/65	ø 65/70	ø 68/73	ø 75/80	
		+6	+6		<i>Sph. + Cyl.</i>
					<i>max. Cyl. +4.00</i>
		-6	-6		<i>Add. 1.00-3.00</i>

**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

**Delivery-range: (strongest main-cut)**

ø 55/60	ø 60/65	ø 65/70	ø 70/75	ø 75/80	
		+6	+6		<i>Sph. + Cyl.</i>
					<i>max. Cyl. +4.00</i>
		-6	-6		<i>Add. 1.00-3.00</i>



## wellnessPROTECT® individual

## Progressive lenses

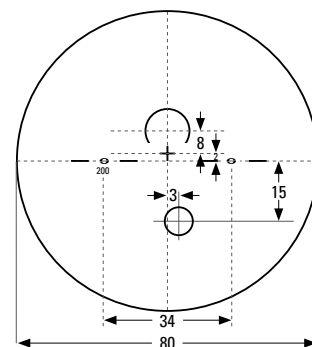
**Standard progressive lens**

- 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

**Delivery-range: (strongest main-cut)**

ø 60	ø 65	ø 70	ø 75	ø 80	
+6	+6	+6	+6	+6	<i>Sph. + Cyl.</i>
-6	-6	-6	-6	-6	<i>max. Cyl. +4.00</i>
					<i>Add. 0.75-3.50</i>

- Progression length 15 mm
- minimum grinding height 20 mm
- recommended special finishes:
  - super anti-reflection with hard coating
  - hard coating



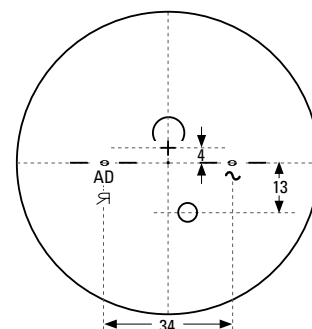
### Premium progressive lens

- 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)

ø 60	ø 65	ø 70	ø 75	ø 80	
+6	+6	+6	+6	+6	<i>Sph. + Cyl.</i>
-6	-6	-6	-6	-6	<i>max. Cyl. +4.00</i>
					<i>Add. 1.00-3.50</i>



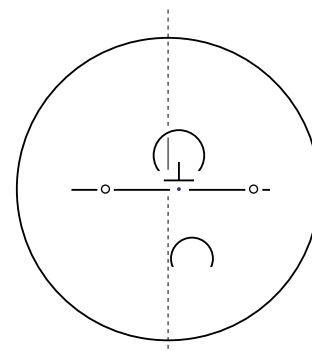
### Standard progressive lenses, polarized

- 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)

ø 55/60	ø 60/65	ø 65/70	ø 70/75	ø 75/80	
+6	+6	+6	+6		<i>Sph. + Cyl.</i>
-6	-6	-6	-6		<i>max. Cyl. +4.00</i>
					<i>Add. 1.00-3.00</i>



## wellnessPROTECT® individual

## 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.

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### Confirmation panel wP15

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- 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




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### Confirmation panel wP65

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- 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




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### Confirmation panel wP85

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- 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




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### Confirmation panel wP50-15

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- 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



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**Confirmation panel wP75P**

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- 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, wP50-15

**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).

# system

BESPOKE CUT-OFFS AND TINTS

# 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.



Lens 450 nm



Lens 511 nm



Lens 527 nm



Lens 550 nm

### Polarized cut-off filters

The additional polarisation of these cut-off filters greatly reduces reflection and this 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.



Lens 450 nm  
polarizing



Lens 511 nm  
polarizing



Lens 527 nm  
polarizing



Lens 550 nm  
polarizing

## 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

Item	Edge	Trans- mission	Filter- Cat.	Suitable for driving
1662450	450 nm	ca. 85%	0	yes
1662450P	450 nm, polarized	ca. 25%	2	yes*
1662511	511 nm	ca. 60%	1	no
1662511P	511 nm, polarized	ca. 11%	3	no
1662527	527 nm	ca. 43%	2	no
1662527P	527 nm, polarized	ca. 9%	3	no
1662550	550 nm	ca. 27%	2	no
1662550P	550 nm, polarized	ca. 7%	4	no

\* 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](http://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



Edge	Trans- mission	Filter- Cat.	Suitable for driving
450 nm	85%	0	yes
450 nm, polarizing	34%	2	yes*
511 nm	60%	1	no
511 nm, polarizing	15%	3	no
527 nm	43%	2	no
527 nm, polarizing	12%	3	no
550 nm	28%	2	no
550 nm, polarizing	11%	3	no

\* 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)



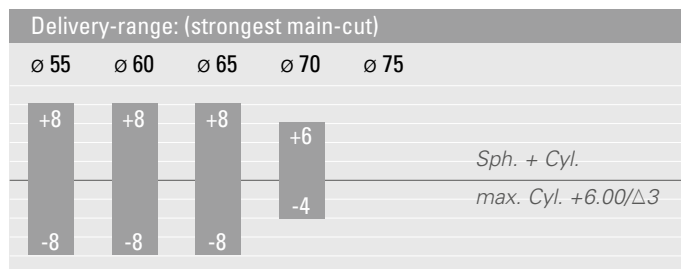
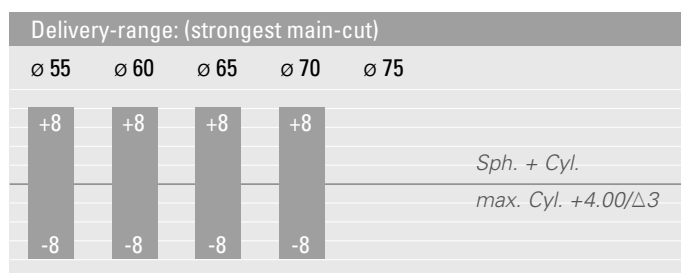
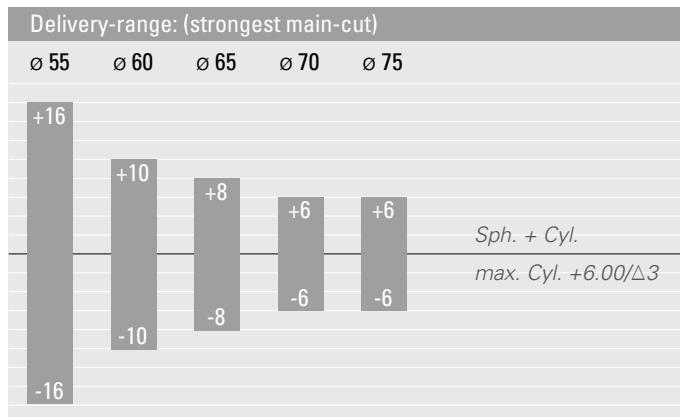
### individual spheric polar

- 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)



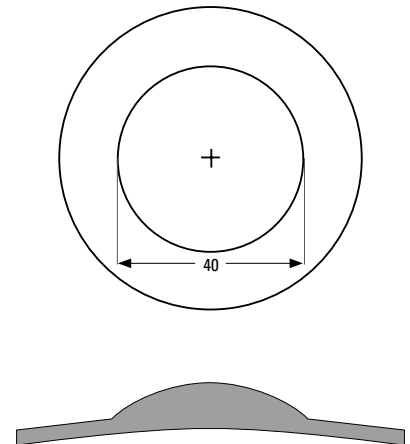
## individual aspheric softlenti

- 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)



Ø	max. Cyl. (D)
Ø 55	0
Ø 60	+22
Ø 65	+22
Ø 70	0
Ø 75	0

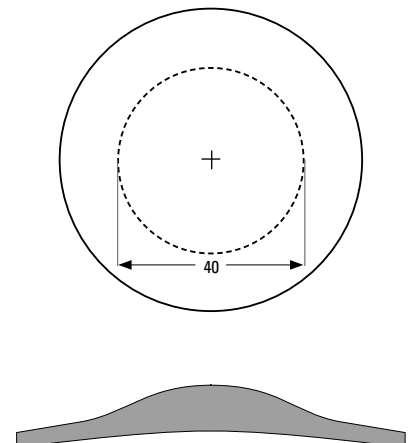
Sph. + Cyl.  
max. Cyl. +4.00/Δ3



Delivery-range: (strongest main-cut)

Ø	Value
48	+22
50	+22
55	+22
60	+22
65	+22
70	+22

Sph. + Cyl.  
max. Cyl. +4.00/Δ3



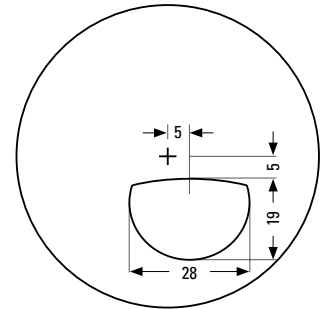
## BIFOCAL LENSES

### 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)



Delivery-range: (strongest main-cut distance portion)					
ø 55	ø 60	ø 65	ø 70	ø 75	ø 80
	+9	+9	+9		
					<i>Sph. + Cyl.</i>
					<i>max. Cyl. +6.00/Δ3</i>
					<i>Addition 0.75 - 3.50</i>
	-9	-9	-9		

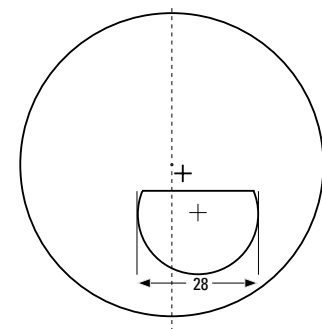


### bifocal standard S28 high addition

- 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)



Delivery-range: (strongest main-cut distance portion)					
ø 55	ø 60	ø 65	ø 70	ø 75	ø 80
	+5	+5	+5		
					<i>Sph. + Cyl.</i>
					<i>max. Cyl. +6.00/Δ3</i>
					<i>Addition 4.00 - 6.00/0.50</i>
	-4	-4	-4		



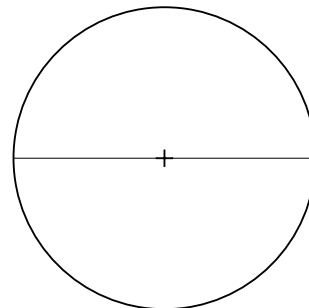
executiv standard

- 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)



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

ø 55	ø 60	ø 65	ø 70	ø 75	ø 80
	+5 -5	+5 -5	+5 -5	+5 -5	Sph. + Cyl. max. Cyl. +5.75/ $\Delta$ 3 Addition 1.00 - 3.00



## PROGRESSIVE LENSES

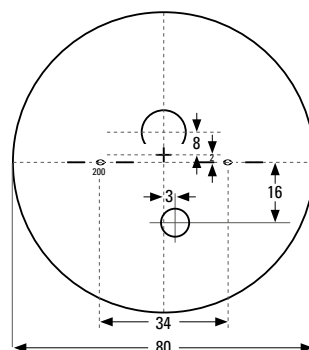
### Standard progressive lens

- 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)



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

ø 55	ø 60	ø 65	ø 70	ø 75	ø 80
	+5	+5	+5	+5	Sph. + Cyl.
	-6	-6	-6	-6	max. Cyl. +4.00
					Addition 0.75 - 3.50





## Confirmation panels

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

**1615951 Confirmation Panel Set SI1:** Contents, 1x: 450 nm, 511 nm, 527 nm, 550 nm**1615952 Confirmation Panel Set SI2:** Contents, 1x polarized: 450 nm, 511 nm, 527 nm, 550 nm

**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)

# HIGHER ADDITIONS

INDIVIDUAL MAGNIFYING SPECTACLES  
FOR SHORTENED READING DISTANCE



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HIGHER ADDITIONS

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  $\pm 1$  dpt, we strongly recommend individual fitting as prismatic bino individual.



Item	Magnification	Working distance approx.
168014	4 dpt / 1 x	250 mm
168015	5 dpt / 1.25 x	200 mm
168016	6 dpt / 1.5 x	165 mm
168018	8 dpt / 2 x	125 mm
1680110	10 dpt / 2.5 x	100 mm

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



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

In order to manufacture an individual specification, we require the following information:

- frame
- distance correction
- distance PD
- addition
- required special finishes



Oval titanium frame, allergy-free, silver, easily adjustable pad arms, adjustable temples. Dimensions: 38-27 16833827

Supply range	dpt (strongest main segment)
aspheric	bis +8 dpt / cyl. +4 dpt
softlenti	über +8 dpt bis +12 dpt / cyl. +4 dpt

Stronger values on request.



Square titanium frame, allergy-free, silver, easily adjustable pad arms, adjustable temples. Dimensions: 36-27 16843627

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](http://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.

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.

[illegible]

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](http://www.eschenbach-partner.com).

# Order Form Grinding Service for Eschenbach telescopic systems

For order number +49 (0) 511 70600-370  
To order from our website in a PDF-File  
www.eschenbach-optik.com

# ESCHENBACH

Eschenbachstr. 10  
42699 Solingen

Shipping along

Link number to effect a correction:

Name

Company

Branch number

Name of shop

Location of the store in the country

Components

Frame type

0000-010

0000-015

0000-020

Correction system

0001

0002

0003

Optical correction

0010

0015

0020

Complete set of the system in the optical frame

Right

Left

Both

Right

Left

Both

Working distance (center line, 1. complete telescopic system and 2nd working distance from the 1st)

required distance in distance in cm

200 mm

250 mm

300 mm

Please enter the required working distance:

Centering information according to the dimensions (see diagram)

Values 75, 100, 125, 150, 175, 200, 225, 250, 275, 300, 325, 350, 375, 400, 425, 450, 475, 500, 525, 550, 575, 600, 625, 650, 675, 700, 725, 750, 775, 800, 825, 850, 875, 900, 925, 950, 975, 1000

Right of the system profile according to the dimensions (see diagram)

Right of the system profile according to the dimensions (see diagram)

Right of the system profile according to the dimensions (see diagram)

Right of the system profile according to the dimensions (see diagram)

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Right of the system profile according to the dimensions (see diagram)

Right of the system profile according to the dimensions (see diagram)

Right of the system profile according to the dimensions (see diagram)

Distance of the eye-fitting correction unit

Right

Left

Both

Distance unit

Right

Left

Both

Right

Left

Both



# 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.



**Normal vision**



**Central scotoma due to macular degeneration**

only the peripheral part of the retina can be used for vision, whilst the macula, the area in the retina that is responsible for central vision, is destroyed.



**Tunnel vision due to Retinitis pigmentosa**

As the rods in the retina die off, the field of view progressively narrows causing "tunnel vision". Retinitis pigmentosa can lead to blindness.



**Reduced visual acuity due to cataracts**

Small sections of the retina do not function properly. In the advanced stage, these small sections grow together to form larger areas.



**Cataract**

Clouding of the lens leads to impaired vision and also to increased light sensitivity.

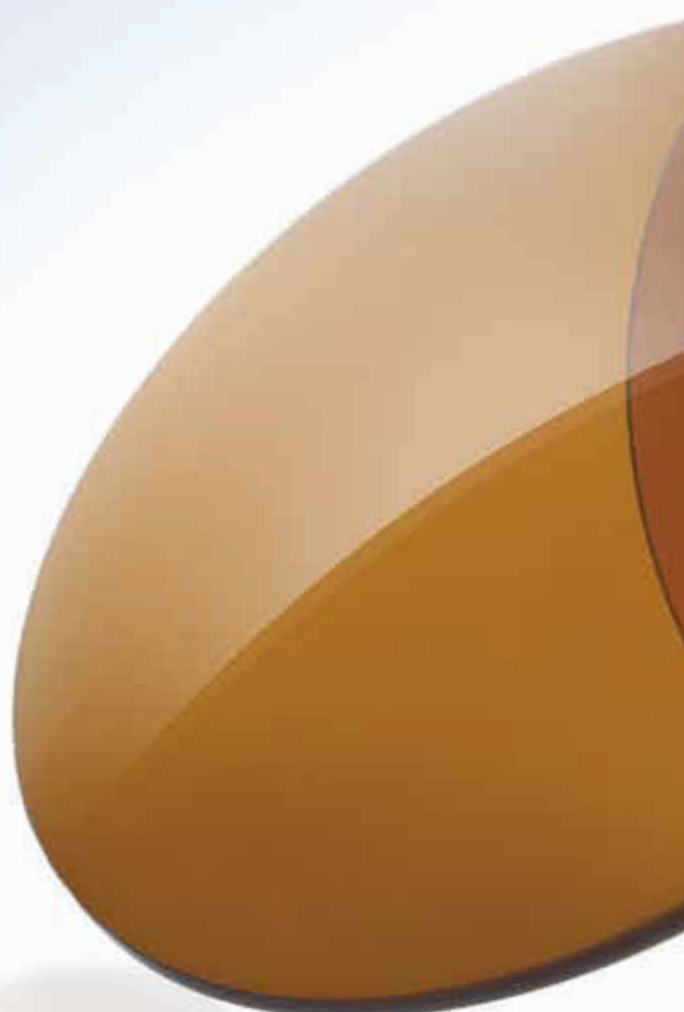


**Glaucoma**

Increased pressure in the eye leads to irreversible damage of the optic nerve. In chronic glaucoma, central vision can remain for a long time.







 **ESCHENBACH**

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E-Mail	<a href="mailto:mail@eschenbach-optik.com">mail@eschenbach-optik.com</a>

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