

# Being a visionary.



## **ZEISS EYEWEAR**

Innovation in concept, materials and manufacturing delivers precision eyewear with outstanding wearer benefits.

[steppereyewear.com](https://steppereyewear.com)



Seeing beyond

A close-up, artistic photograph of a pair of glasses with a dark, tortoiseshell-style frame. The frame is the central focus, with the lenses and temples visible. The lighting creates highlights and shadows on the frame's surface, emphasizing its texture and shape.

# The uniqueness of an individual requires creative eyewear solutions.

ZEISS EYEWEAR

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ZS-10020

Eyewear created to meet  
the uniqueness of every character.

### The ZEISS EYEWEAR concept.

Each face is distinct and unique. This individuality requires eyewear that can accommodate the many features of a face. For example: the shape of the nose, the position of the eyes and the width of the head. Indeed, the variables that create the individual face we recognise as someone we know or love are so numerous that no one is truly identical to another. Each face has its own character and every character deserves a frame that suits.

#### Innovative production.

The design of a ZEISS EYEWEAR frame reflects ergonomic considerations that ensure maximum wearer comfort. Thanks to our production technology, the final frame remains true to the designer's original design drawing. Each frame reflects the precision and excellence of our production process – bringing the characteristics of ZEISS EYEWEAR to life.

#### Custom fit.

The design of ZEISS EYEWEAR begins with the form of the bridge of the frame as this is the key point where the weight of the frame and lenses is transferred onto the face. The optimal fit for each facial type is based on decades of experience. Thanks to this knowledge we have developed world fit possibilities with each collection. Our frames meet the needs of individual ethnic and gender-specific nose shapes and ensure the correct wearing angle as well as the correct width and height in the nasal area. Therefore, ZEISS EYEWEAR perfectly adapts to the character of each head.

#### Loving details.

ZEISS EYEWEAR delights with its accurate, carefully thought-out designs. For example, specially developed flatter hinges that preserve the minimalist profile. The choice of materials down to the smallest part ensures top precision preserving the character of each model.

#### Uncompromising comfort.

The most important task of an ophthalmic frame is to hold the lenses correctly in front of the eyes of the wearer. To do this whilst ensuring the utmost comfort comes as the second goal. That is why each ZEISS EYEWEAR frame consists of selected materials that allow us to meet these requirements. Good fit, minimising "sliding" or "pinching", give way to the feel-good factor. This makes day-long wearability the central characteristic of the entire collection.

ZS-20028

We decide who we want to be.  
The frame we choose is a  
statement of our personality.

**ZEISS EYEWEAR –  
Being a visionary.**



## Finest materials meet highest precision.

An idea. A guiding principle. A promise. ZEISS EYEWEAR offers frames for men and women produced by using only top-quality materials. Criteria such as lightness and durability have high priority. With precision down to the smallest detail, we create a special benefits package.



### Lightweight

ZEISS EYEWEAR Titanium frames are 50% lighter than frames made from nickel silver and monel. Compared to conventional plastic frames, TX5 frames are 25% lighter.



### Corrosion resistant

ZEISS EYEWEAR materials are resistant against external influences, such as salt water, sweat, mineral and organic acids.



### Conforming to standards

Each ZEISS EYEWEAR frame undergoes extensive quality control procedures and meets all common ISO and EN standards – for a reliable visual experience.



### Hypoallergenic

ZEISS EYEWEAR frames are produced from materials that are known to minimise wearers' allergic reactions.

## A quality pledge –

precision manufacture using innovative materials chosen to best suit the needs:



Plastic frame parts made from TX5



Metal frame parts made from Titanium and/or Beta-Titanium

Premium plastic with a natural fit.

## TX5 frames

Plastic frames feature a unique, three-dimensional construction process: ZEISS EYEWEAR frames made from TX5 offer superb shaping stability, scratch resistance and absolute wearing comfort. The premium material is a transparent polyamide and offers many design options – from plain to sophisticated and from classic to modern. Using TX5, we create frames that reliably stay on the nose – and carry just as much weight as a drop of water on a fingertip.



TX5 frames for perfect wearer comfort derived from an eye for the smallest detail:

### Characteristic.

The specific weight of TX5 is as light as water. At the same time, it is harder, stronger and more shock resistant than regular plastic frames – and, thanks to the ZEISS EYEWEAR manufacturing process, the material strength can produce the finest detailing without compromise.

### Design.

TX5 is transparent, which means that countless colour variations and patterns are possible via a number of colouring processes.

### Stability.

Due to their good memory properties of the material, TX5 frames are dimensionally stable – regardless of the ambient temperatures.

Exceeding expectations.

## Titanium frames

Light metal frames that exceed even the highest expectations: Titanium symbolises timeless elegance with outstanding material properties and defines a completely new wearing sensation. For anybody, always and everywhere. Titanium is used where the design architecture of the frame requires rigidity and/or bulk. Beta-Titanium is utilised on thinner, flexible parts. ZEISS EYEWEAR Titanium frames become your ideal everyday companion. Light, durable and hypoallergenic.



on modern ophthalmic frames in many ways:

Titanium or Beta-Titanium have been used in a form best suited to the purpose of the part: choosing Titanium for structure-providing components and Beta-Titanium for thinner, flexible parts.

### Design.

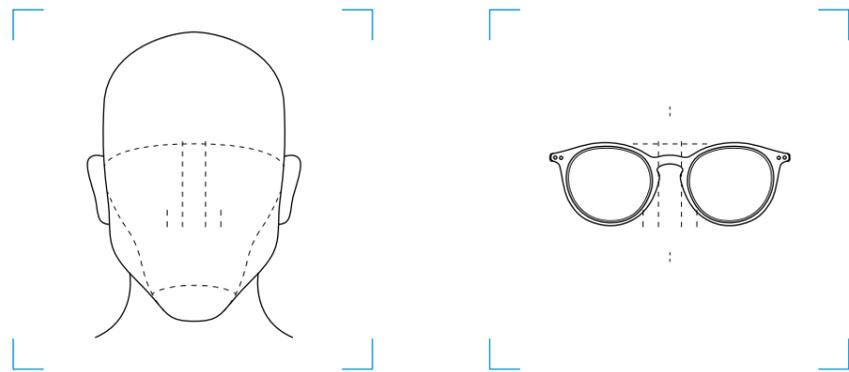
Shaped according to the design, the high-quality raw material becomes a strong statement. Titanium stands out with its strong properties, to which the frames owe their convincing stability and durability.

### Reliability.

Titanium frames, including their flexible Beta-Titanium alloys, comply with the international norms ISO 12.870 and EN 1811. The result: 100% Nickel free frames for a totally positive wearing sensation.

## Embracing all that is new and combining it with the best that has gone before.

The quality of a frame is based on two criteria: The selection of the materials and the diligence applied when it is made. And because to us – and to you – only excellence is worth pursuing, our designers and product developers are constantly working on new eyewear solutions. All our production processes are subject to continuous innovations and improvements that ensure that ZEISS EYEWEAR frames can be manufactured at the highest level. In short: We are not satisfied with technological compromises – we practice technological innovation.



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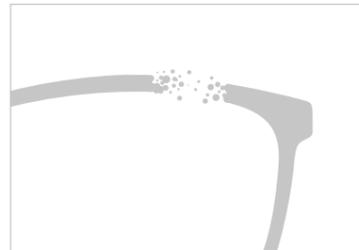
We design and manufacture  
frames using three-dimensional  
technology –  
**as your face is three-  
dimensional too.**

## Production process for TX5

# 01

### TX5 injection moulding

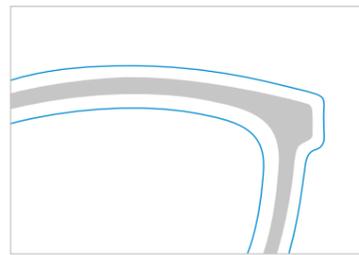
We have optimised the production of the material TX5 and are able to fully implement the designs developed by our experts. For example, when the frames are moulded, important frame details are already put in place, such as the grooves for the lenses. What sets us apart: The frames leave the mould in their final shape, which, as a result of the memory properties of the material, they will reliably maintain over the long term even when used daily.



# 02

### Final coating of TX5 frames

Using our high-tech production processes, we also integrate optimisation options into the final frames, which maximise the resistance of the products and, as a result, their durability. That is why all ZEISS EYEWEAR TX frames receive a final PU coating. This additional coating is harder than the material of the carrier and provides the surface with improved protection against scratching. In addition, the coating is hypoallergenic and, thanks to its UV protection, also prevents a fading of the colour.

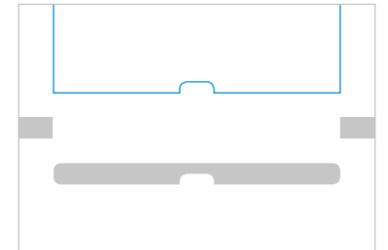


## Production process for Titanium & Beta-Titanium

# 01

### CNC laser cutting

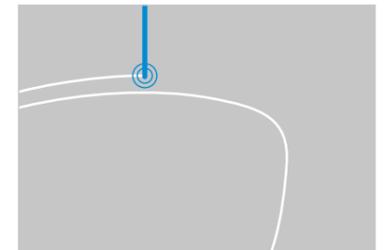
Advanced in-house technology and know-how allows ZEISS EYEWEAR to maximise the individual properties of each material: Using computer-controlled lasers, we can cut sheet Beta-Titanium to microscopic precision without affecting the molecular structure of the material. The result: The elasticity of Beta-Titanium is maintained and the delicate frame components are precise, flexible and stable.



# 02

### Computer-controlled hydraulic precision stamping

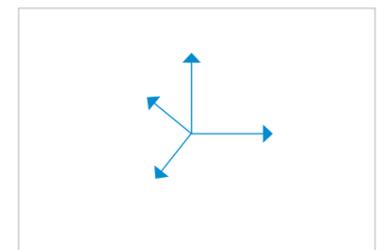
We use Titanium even for rigid ZEISS EYEWEAR components – delivering solidity where solidity is needed. Small, complicated elements, such as temples and hinges, that require very detailed work, are repeatedly pressed using the massive machinery with the power to manipulate this strong metal. This pressing technology is accompanied by a cutting-edge computer technology, which allows the Titanium to be processed to form even the most delicate shapes. Another benefit: Using this technology, temples can be manufactured with integrated hinges maximising strength at a key pressure point.



# 03

### 4-axis laser welding of Titanium points

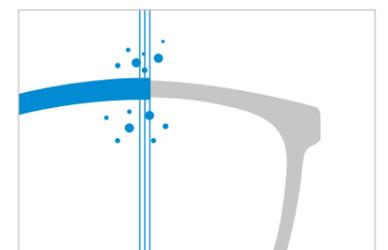
We don't compromise when it comes to details: Using a 4-axis welding device, which allows a rotation of the parts holding device under a laser beam, we connect elements with a delicate weld seam, which is created uniformly around the joined parts. That allows us to solve the special challenges of joining Titanium parts in the most delicate manner technology allows.



# 04

### Ion plating technology

The colour of each ZEISS EYEWEAR frame is as durable as the material. Using ion plating in a vacuum chamber – a thin coating of 22 carat gold – we create the ideal foundation for the application of paint and coatings onto the frame. Due to the electric charge of the ionised components, the particles bond with the surface of the frame and create a long lasting and resilient result. A particular benefit: Thanks to the ion plating, paints and coatings can be applied to the frame in the next step in a way that is more robust and durable than the results regular plating processes offer.



## Your perfect match.

Only the perfect symbiosis of a high-end frame and precision lenses ensures the perfect vision comfort. The unique and timeless elegant models are created using the most cutting edge know-how of the industry.

ZEISS EYEWEAR frames do not just feel good, they pick up on the individual character of the wearer and reinforce it.

### The result:

Solutions that provide eyes with what they need – perfect sight.

### What drives us:

As scientific optics pioneers, ZEISS has always pushed the boundaries of imagination. Driven by our passion for top performance, we create customer benefits and inspire the world to see things in a new light.



## Scope of Supply

- ZEISS EYEWEAR Case
- ZEISS EYEWEAR Lens Cleaning Cloth



# ZEISS EYEWEAR

Vision Defined.

