Lens Design

Endless Pilot Progressive

Personalized free-form progressive lens with a unique and innovative design that incorporates two zones for near vision

See the difference

Endless Pilot Progressive

Personalized free-form progressive lens with a unique and innovative design that incorporates two zones for near vision.

Progressive lenses are designed to have the upper part of the lens focus on distant objects and the lower part focus on near objects. When a wearer has a need to focus on near objects through the upper part of the lens, this configuration is not sufficient.

The design architecture of **Endless Pilot Progressive** lenses is unique. In addition to a standard progressive configuration, it offers an extra segment for near vision at the top.

Endless Pilot Progressive lenses include **IOT Digital Ray-Path® 2** Technology which incorporates the intelligent use of the wearer's accommodation into the traditional calculations for reducing oblique aberrations, resulting in a superior personalized lens. Oblique aberrations are minimized more effectively than ever before.

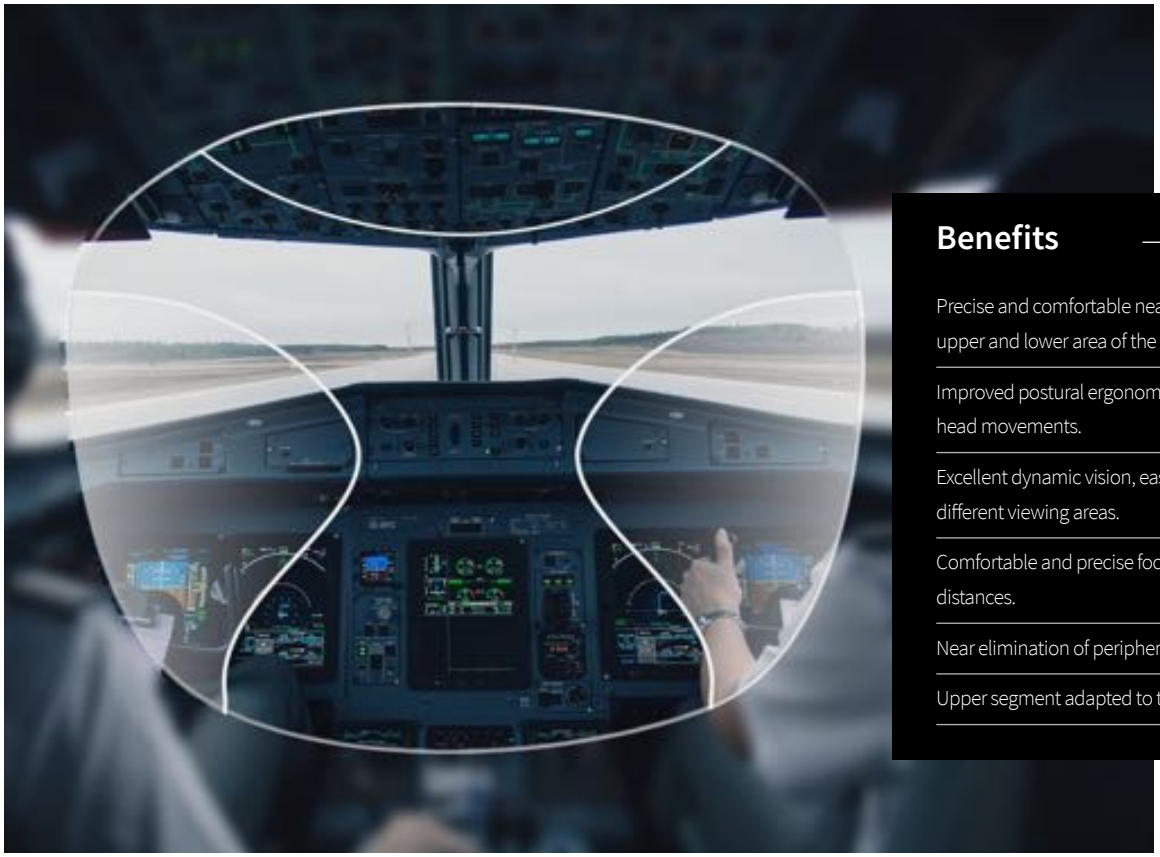
Category

Use	Special
Product	Personalized
Frequency of use	Occasional

Ideal wearer

Those who need an **additional near power zone in the upper portion of the lens.**

Wearers with **all types of prescription and addition powers.**



Benefits →

- Precise and comfortable near vision through the upper and lower area of the lenses.
- Improved postural ergonomics avoiding unnecessary head movements.
- Excellent dynamic vision, easy transition between different viewing areas.
- Comfortable and precise focus at all working distances.
- Near elimination of peripheral blur.
- Upper segment adapted to the wearer's visual needs.

Upper segment adapted to the wearer's visual needs

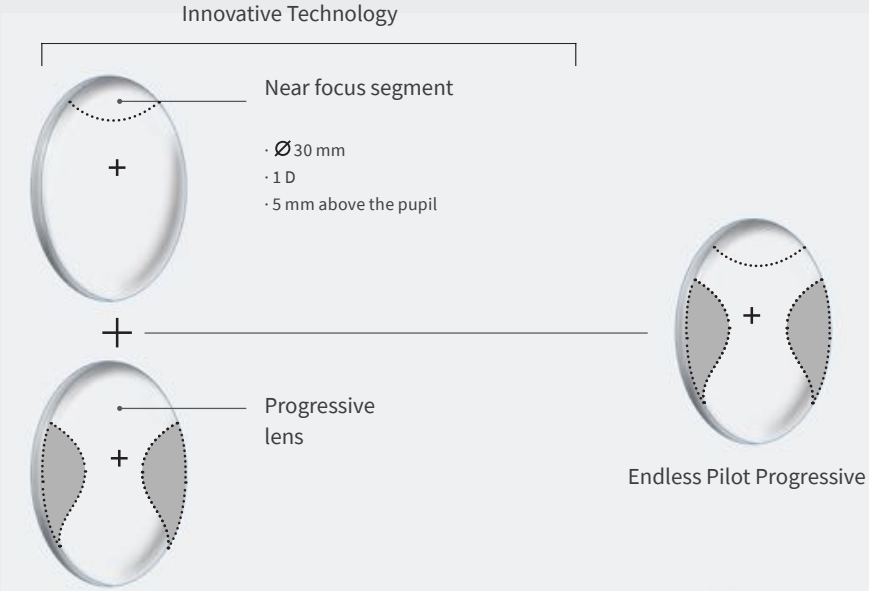
Endless Pilot Progressive lenses incorporates a lower vertical power progression with an upper addition segment.

This creates areas for near vision at the top of the lens.

Near vision in the upper and lower areas of the lens.

An upper segment set to a fixed near or intermediate distance allows the wearer to focus on near objects while glancing at an upward angle. The 30 mm upper segment is centered 5 mm above the fitting cross. This allows for performance versatility regardless of the wearer's position.

This innovative solution uses IOT's Digital Ray-Path® 2 Technology which incorporates the intelligent use of the wearer's accommodation into the traditional calculations for reducing oblique aberrations, resulting in a superior personalized lens. Oblique aberrations are minimized more effectively than ever before.



Infinite design configuration options

Create a unique product suited to your market needs.

Endless Pilot Progressive lenses allow for countless configurations, providing the opportunity to differentiate for unique market needs.

No other lens design portfolio is as modular, flexible, and versatile as IOT's.

VALUES	POSSIBILITIES
UPPER SEGMENT	
Addition	From 0,75 D to 1,50 D in steps of 0,12 D
Location	5 mm - 8 mm above pupil
MFHS & INSETS	
Minimum fitting height (MFH)	**Automatic** or **manual** (16, 18 y 20 mm)
Insets	**Automatic** or **manual** (from 0 to 4 mm – infinitesimal steps)
POWER RANGES	
Rx range	Extended to your blank limits
Add powers	From 1.00 D to 3.00 D (infinitesimal steps)
THICKNESS	
Thinning prism	**Standard** or **equalized**
Thickness optimization	**Decentration** or **lenticularization**
LENS COMPENSATION	
Personalization parameters	**Real** or **defaults**
Power compensation	**Optimal** or **customized**
Prism compensation	**Enable** or **disable**
REFERENCE POINTS	
Layout	**Standard** or **on demand**
MANUFACTURING	
Crib	**Rounder/elliptical/shaped**
Prism	**Blocked, generated** or **mixed**

Compatibility →

Material & blank provider	**Endless Pilot Progressive** lenses are compatible with any blank provider and lens index.
Coatings	**Endless Pilot Progressive** lenses are compatible with any coatings you run at your lab.
Machinery & LMS	**Endless Pilot Progressive** lenses are compatible with almost any machinery supplier and LMS.

Lens Design

Endless Pilot Progressive

Technologies

DRP 2

Features

Personalization

The back surface is Personalized according to the use parameters, creating a unique lens for each wearer. If no actual parameters are available, **IOT Digital Ray-Path® 2** uses them by default.

Compensated power

Lens power differs from prescribed power. The design is calculated, point by point, to ensure wearers perceive the proper power when looking through their lenses at every distance and direction of gaze, including near distances for viewing electronic devices.

Optimized in accommodative space

IOT Digital Ray-Path® 2 incorporates the intelligent use of the wearer's accommodation into the traditional calculations for reducing oblique aberrations, resulting in a superior personalized lens. Oblique aberrations are minimized more effectively than ever before.

Consistency

The perceived power distribution remains stable, regardless of the prescription or base curve. This is especially beneficial for high prescriptions and large or wrapped frames.