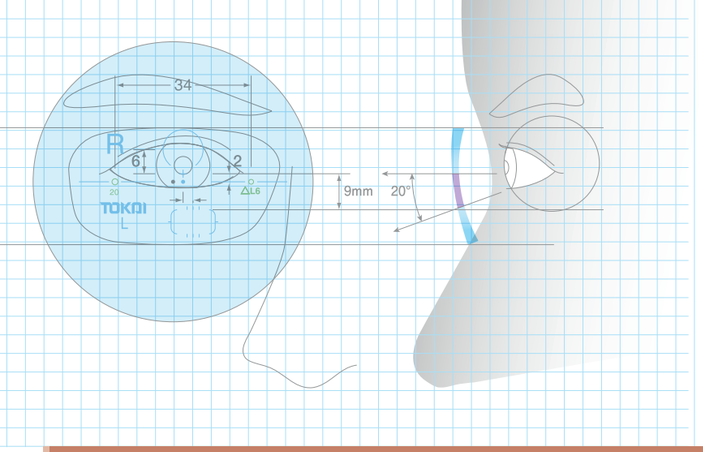
Ergonomic

ENERGY

Tokai Energy, an ergonomically designed progressive lens for digital device users.

The new Tokai **Energy** lens has an ergonomic 9mm design providing the comfort and balance that both experienced and first time progressive wearers seek when using digital devices.

TOKAI



The needs of progressive lens wearers are rapidly changing, and users require wide and clear vision at hand range distance due to the use of digital devices".

The new **Energy** design combined with a shallower 9mm corridor provides natural comfortable eye movement through the length of the lens. This enables a more ergonomic head position while using digital devices.

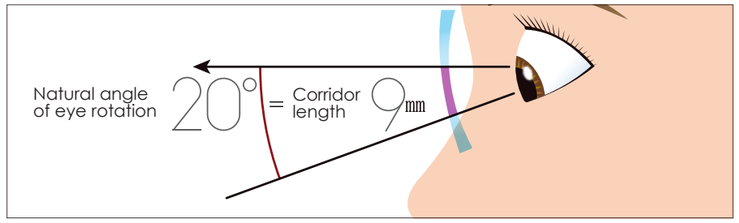
ENERGY

Ergonomic 9mm design + Life stage advance concept = The birth of a new type of progressive lens in response to the needs of a new generation of digital users

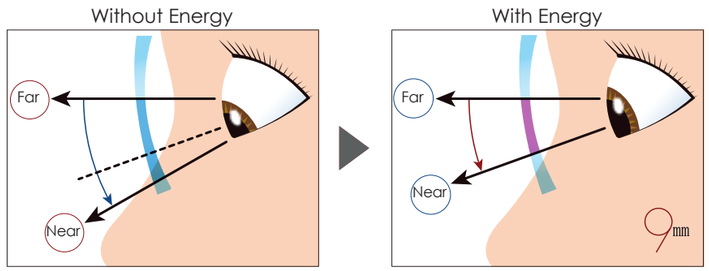
Ergonomic 9mm design

NEW

Ergonomic



As long as the eye can rotate within the vertical angle of 20°, the head remains in a natural position. Once over 20°, the head is automatically tilted backwards. This is not an ergonomic posture. The new Energy design combined with a 9mm corridor enlarges the hand distance vision range. Therefor the eye rotation remains within 20° and the head remains in an ergonomic position.



Life stage advance concept

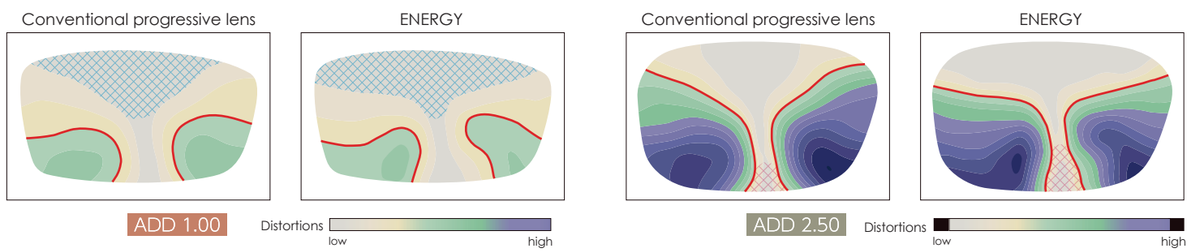
NEW

Recommended for first time progressive wearers with low addition power:
- wide far vision field
- easy to focus throughout the lens
- little distortion and sway when looking down

45/65 — the 40 year old generation / the 60 year old generation

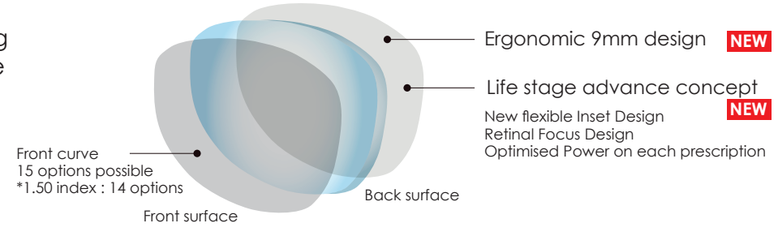
Recommended for experienced progressive wearers of 60+ with high addition power:
- enlarged hand distance vision
- easy eye movement thanks to natural eye angle of 20°
- less distortion and sway

Despite the 9mm corridor, the Energy design has succeeded in providing wider far and near visual fields and offers a natural shift of focus through all areas of the lens with fewer distortion and sway.



Back surface progressive + back surface aspheric design

The Energy design allows individualisation of the lens according to the individual characteristics of the wearer's eyes in a high performance 9mm design.
The ideal base curve is selected from 15 options to best suit the wearers prescription.

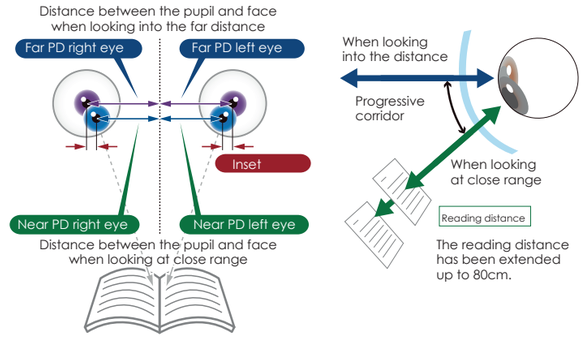


New flexible inset design

The inset can be specified from 0,0mm to 5,0mm at 0,1mm steps.
Reading distance up to 80cm.

Conventional progressive lens

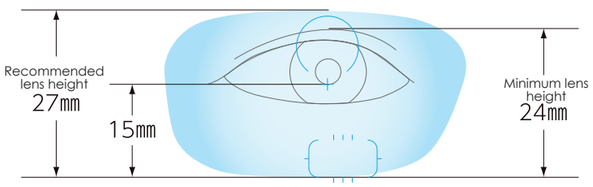
ENERGY



Corridor length 9mm

Energy lenses can be used with many shapes and types of frames.

Corridor length	Recommended lens height	Minimum fitting height	Minimum lens height
9	27	15	24



Retinal focus design

Transmitted light will be continuously adjusted during its use to ensure an optimal degree of accommodation over the entire lens surface. This improves image formation on the retina. Making a flatter base curve results in thinning and weight saving advantages. The distinct field of vision has been extended by optimising astigmatism correction.

Optimised power on each prescription

The designed optical performance is realised for each prescription by applying the asphericity according to each power. Conventional front surface progressives have the asphericity on the front surface. If the prescripted power is off from the targetted curve, the optical performance decreases.

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