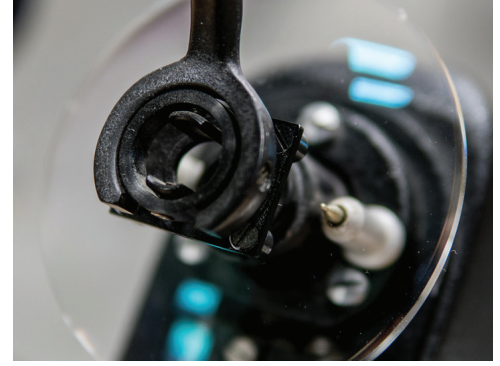


COMPENSATED LENSES VS. CONVENTIONAL LENSES

The misconception of lens compensation

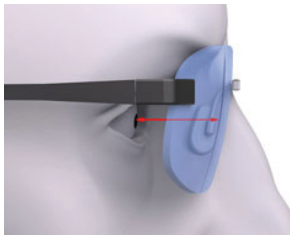
Compensated lenses are now very common in the optical marketplace of today. They are promoted as providing better visual performance than conventional lenses, especially with progressive lenses. Many eyecare professionals still struggle with understanding and explaining the benefits and how lens compensation impacts the actual prescription in the lens.

There could be some push-back as some eyecare professionals believe that lens compensation is a change of the prescription originally written by the doctor. This could result in lack of trust in the actual prescription the lens measures.

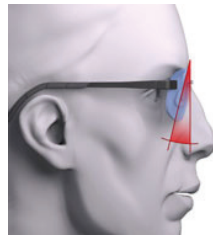


Position of wear

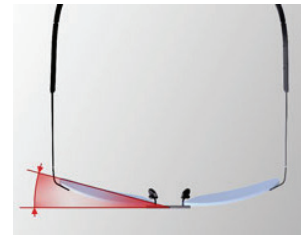
In conventional lenses, power is calculated by taking into consideration that light follows perpendicular to the back surface of the lens. In reality, this is not the case as the patient's frame impacts how light transfers through the lens. Modern lenses consider how the frame sits in front of the eye. This is called "Position of Wear" and at a minimum, includes three additional parameters in the lens calculation. These parameters can reflect real frame fit values or default values if real values are not provided.



Back Vertex Distance



Pantoscopic Tilt



Wrap Angle

Proper frame adjustment before taking any measurements is important with these lens designs.

Verification of compensated lenses

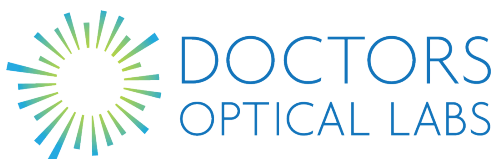
Today, when you receive a lens design that compensates for position of wear, it will arrive with a notation of the compensated power. This compensated prescription is the power your lensmeter must read in order to give the correct Rx when the lens has been tilted for wrap (around a vertical axis) and for panto (around a horizontal axis), and if it is fitted at some vertex distance other than the refracting vertex distance.

At Doctors Optical Labs, we call this "Freeform Power" and it is shown on your job ticket.

Right		Freeform power		Left	
DRP	NRP	SPH	DRP	DRP	NRP
-2.50	0.01	-2.22	0.24	-2.22	0.24
-1.60	-1.83	CYL	-0.89	-0.89	-1.02
154	153	Axis	35	35	34
0.06	/ 91.14	Prism	0.06	/ 88.23	

By dispensing compensated lenses to your patients, you provide them with the best vision possible for their Rx and frame choice! Every patient can benefit from it.

EXPERTLY CRAFTED PRESCRIPTIONS



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