



# Perfect Power Surface Block system for Alloy Blockers Using the LOH Base Configuration



**Perfect Power Blocks**  
 The solution to wavy and off power lenses. Perfect Power Blocks control the shrinkage associated with alloy blocking. Below is a detailed explanation on how Perfect Power Blocks will control shrinking alloy .



## Why Alloy Causes Distortion on the Front Side of Lenses:

With only one standard alloy block, alloy thickness varies with the front curve. As alloy cools down the metal shrinks. The center of the alloy cools last, creating an area with the most shrinkage. The greater the alloy thickness is at the lens center, the more effect the shrinkage will have on the lens. After generating, the minus lens has little structural strength at the center. The alloy pulls the thin center of the lens toward the shrunken area, compromising support. The lens is then fined and polished with the front side of the lens in a warped position. After deblocking, the front side of the lens flexes back and the back side surface flattens at the optical center. This result is what you see in the lensometer as a wavy or weak powered lens.

## The Solution:

Precision Tool Technologies Perfect Power Blocks provide the controlled alloy and supported lens center solution. Through engineering, we can minimize the alloy thickness at the critical area of the lens center. Shrinkage is controlled and optical center of the lens is supported. Alloy use per lens is reduced. **The end result is a lens with perfect power.**

