

Deep-Focus Lens

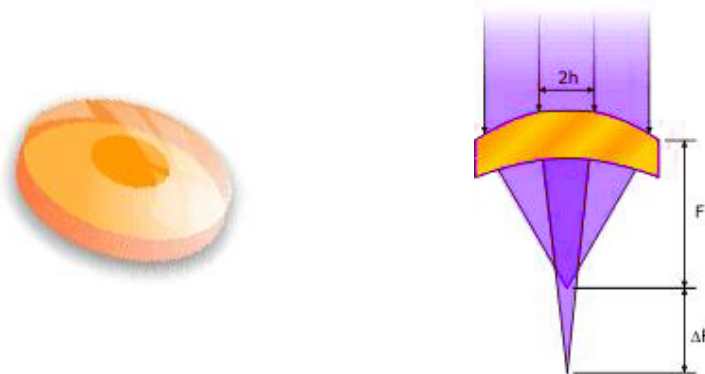
Deep-Focus lenses are designed for CO₂/ YAG laser cutting and many other applications.

Deep-Focus lenses also allow much thicker materials to be cut at a given laser power.

How Does Deep-Focus Lenses Work?

A Deep-Focus lens has two focal points. The inner portion of a laser beam is intercepted by a section of the lens, of diameter ' $2h$ ', which has a longer focal length (FL) than the outer part of the lens. The 'basic focal length' is F . The difference in FL is ΔF .

This results in high energy density and increased localized temperature at both the upper and the lower foci.



Part No.	Material	Diameter (inch)	FL (inch)	ET
LZDF-1-2.5/3.5-ET4	ZnSe	1	2.5/3.5	4
LZDF-1.1-5/7.5	ZnSe	1.1	5/7.5	4
LZDF-1.5-5/7.5/10	ZnSe	1.5	5/7.5/10	6/7.4
LZDF-2-5/7.5/10	ZnSe	2	5/7.5/10	8/9.6

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