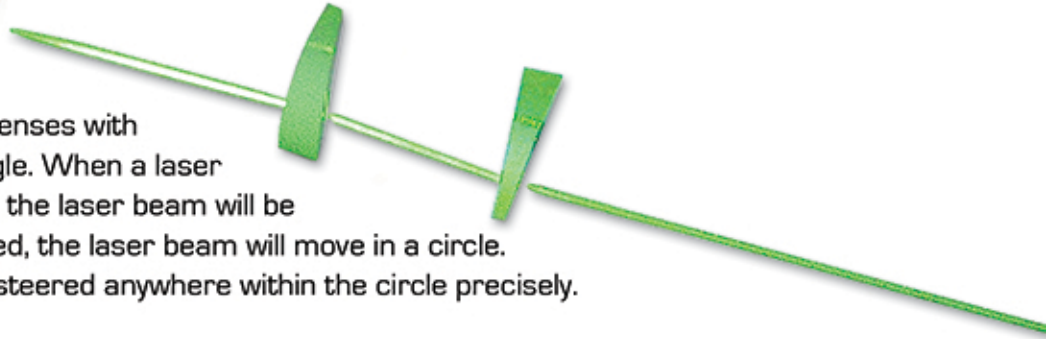


Why use Wedge Prisms for Beam Steering?



Wedge Prisms are transparent glass lenses with one side ground and polished at an angle. When a laser beam passes through a Wedge Prism, the laser beam will be deflected. If the Wedge Prism is rotated, the laser beam will move in a circle. If two are used, the laser beam will be steered anywhere within the circle precisely.

This means:

1. The laser beam can be calibrated to be concentric to the outside diameter, O.D., of the laser's case.
2. You can use the laser's case as a mounting reference for the laser's beam alignment.
3. The laser beam can be adjusted parallel to the bottom and side of the laser level's case.
4. The Wedge Prisms are impervious to shock by dropping, harsh laser tool usage, extreme temperature changes or rough handling for the life of the laser tool.
5. Outside shocks to the laser tool will not cause the Wedge Prisms to rotate. Only internal rotation of the Wedge Prisms themselves will cause the factory positioned laser beam to move.

Model L58DRL Center Point Alignment Laser

Used for locating the center of rotation of spindles and arbors including drill presses, lathes, mills, turning centers, collets and pneumatic feeds.



Conclusion:

The use of Wedge Prisms for laser beam steering and calibration is a more reliable and dependable design method compared to using set screws to hold a small laser module centered in a hollow tube or metal case. The mechanical set screw approach is just cheap. Using Wedge Prisms is superior and results in a stable and lasting approach to laser beam positioning.

CALL TOLL FREE FOR MORE INFORMATION AND TO ORDER NOW!

1.800.598.5973



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