

## Low Helix Drill

*Diamond Coated*

The AERO-LHX is a diamond coated drill specifically for tough to drill laminates. It is designed to completely eliminate uncut fibers and delamination when other drills are unable to properly cut fibers. The drill features unique geometries combined with our patented diamond coating.



### Applications

- ◆ Excels in tough carbon fiber composites

### Features

- ◆ Triple angle geometry to reduce push-out exit delamination
- ◆ Low helix providing a sharper cutting edge to help shear tough fibers

## Performance Highlights

### Total Cost Performance Analysis

When drilling carbon fiber composites, quality of holes can easily be seen from the first few drilled holes. The pictures above show the first hole drilled by a variety of drill designs. As can be seen, the LHX showed the best quality when drilling this particular carbon fiber laminate.

|                         |                        |
|-------------------------|------------------------|
| <b>Tool Dia</b>         | 6 mm                   |
| <b>Work Material</b>    | Carbon Fiber Composite |
| <b>Drilling Speed</b>   | 60 m/min               |
| <b>Feed</b>             | 0,03 mm/rev.           |
| <b>Depth of Hole</b>    | 6 mm                   |
| <b>Coolant</b>          | Dry                    |
| <b>Machine</b>          | VMC                    |
| <b>Quality Criteria</b> | Uncut Fibers           |

|                     | Entrance | Exit |
|---------------------|----------|------|
| <b>OSG DIA-LHX</b>  |          |      |
| <b>Competitor A</b> |          |      |
| <b>Competitor B</b> |          |      |
| <b>Competitor C</b> |          |      |
| <b>Competitor D</b> |          |      |
| <b>Competitor E</b> |          |      |