A BRAND ADO-MICRO
Advanced Performance Small Diameter Coolant-Fed Carbide Drills
Efficient processing in small diameter deep-hole applications

PRIMARY TARGETS
- Small Diameter Drilling in Difficult to Machine Materials Where Coolant is Necessary
- Small Diameter Deep Hole Applications with High Accuracy
- Hole Diameters from 0.7-2.0mm

SOLUTIONS
- Eliminates Premature Breakage Issues
- Long Predictable Tool Life in Difficult to Machine Materials Can Be Achieved

WHAT OUR CUSTOMERS SEE
- We saved $250K by incorporating this drill into production!
  OSG TRIPLED the tool life in Titanium!

HOW DOES IT WORK?
Drill Design Enables Excellent Chip Evacuation Performance
- Unique Flute Form Creating Consistent Chip Shape for Easy Evacuation
- Large Coolant Holes with Hollow Shank Allows Greater Coolant Volume
- Double Margin Supports Holes Straightness & Accuracy

Ichada Coating
- New SUPER SMOOTH Coating Technology to Reduce Friction between Tool and Work Material
A Brand ADO-MICRO

Advanced Performance Small Diameter Coolant-Through Carbide Drills

ADO-MICRO’s unique oil holes and flute geometry enable stable and high efficiency processing in small diameter deep-hole applications. Large oil holes and the hollow shank design allows greater coolant flow volume for smooth chip evacuation. The extended flute enables chips to be discharged from the tip of the flute to the extended flute with enhanced evacuation capability.

Features & Benefits

- **Unique flute geometry** that enables outstanding chip evacuation performance.
- **Large oil holes and hollow shank design** to allow greater coolant flow volume.
- **Double margin configuration** that supports the straightness stability of the tool.

List Numbers

<table>
<thead>
<tr>
<th>List Numbers</th>
<th>Size Range</th>
</tr>
</thead>
<tbody>
<tr>
<td>6501 - A Brand ADO-MICRO (2D)</td>
<td>0.7mm-2mm</td>
</tr>
<tr>
<td>6502 - A Brand ADO-MICRO (5D)</td>
<td>0.7mm-2mm</td>
</tr>
<tr>
<td>6503 - A Brand ADO-MICRO (12D)</td>
<td>1mm-2mm</td>
</tr>
<tr>
<td>6504 - A Brand ADO-MICRO (20D)</td>
<td>1mm-2mm</td>
</tr>
<tr>
<td>6505 - A Brand ADO-MICRO (30D)</td>
<td>1mm-2mm</td>
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</tbody>
</table>

Flute Structure

**Stable Performance in Small Diameter Deep-Hole Applications**

- **Extended Flute**
  Chips are discharged from the tip of the flute to the extended flute with enhanced evacuation capability.

- **Removed End of Margin**
  Capability to smoothly discharge “micro sludges” that can be easily accumulated around the outer periphery of the tool, which is a key cause of abrupt tool breakage.

Increased Coolant Flow

**A Hollow Shank Design More than Triples the Coolant Flow**

Greater coolant flow volume achieved by the hollow shank design to enable smooth chip evacuation.

<table>
<thead>
<tr>
<th>Tool</th>
<th>ADO-MICRO (12D)</th>
<th>Competitor</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
<td>Ø1.5</td>
<td></td>
</tr>
<tr>
<td>Shank Style</td>
<td>Hollow</td>
<td>Solid</td>
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<tr>
<td>Coolant</td>
<td>Water-Soluble (Internal)</td>
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<tr>
<td>Coolant Pressure</td>
<td>1.5Mpa</td>
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<tr>
<td>Time</td>
<td>60 Seconds</td>
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</tr>
</tbody>
</table>

Coolant Flow Volume (ml/min)

- **ADO-MICRO (12D)**: 67 ml
- **Competitor**: 18.6 ml

For more information use your phone to scan the QR code to the right and visit: osgtool.com/ado-micro

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