**VST™ Poly-Carbide Cutting Edge Innovation**

**VST™ Vibration Suppression Technology**

- **1** Poly
- **2** Bushing
- **3** Carbide Edge
- **4** Steel-Carbide Blade
- **5** Adhered Cover Blade

- Increases Safety
- Reduces Driver Fatigue
- Lower Cost
- Increases Blade Life
- Reduces Road Wear/Damage
**X-Axis = Positive G Forces of Cutting Edge Against Road Surface**

X-Axis= Positive G Forces Forward  Y-Axis= Positive G Forces Laterally  Z-Axis= Positive G Forces Forward

Control of a Total 760 seconds for each experiment

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**Summary of Results X-Axis**

<table>
<thead>
<tr>
<th>G Force Events</th>
<th>Carbide-Steel Blade</th>
<th>VST Blade</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count of Forces Over 4G</td>
<td>569</td>
<td>18</td>
<td>25X Reduction in X</td>
</tr>
<tr>
<td>Average G Force</td>
<td>1.47G</td>
<td>0.73G</td>
<td>2X (50%) reduction in X</td>
</tr>
<tr>
<td>Max G Force</td>
<td>11.50G</td>
<td>6.64G</td>
<td>2X (50%) reduction in X</td>
</tr>
</tbody>
</table>

This metric represents long term wear and catastrophic impact to plow.

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**Z-Axis= Positive G Forces Transferred to Moldboard, Truck Frame and Driver**

Control of a Total 760 seconds for each experiment

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**Summary of Results Z-Axis**

<table>
<thead>
<tr>
<th>G Force Events</th>
<th>Carbide-Steel Blade</th>
<th>VST Blade</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Count of Forces Over 4G</td>
<td>439</td>
<td>52</td>
<td>VST had 9X reduction in Z</td>
</tr>
<tr>
<td>Average G Force</td>
<td>1.45G</td>
<td>0.77G</td>
<td>VST had 2X reduction in Z</td>
</tr>
<tr>
<td>Max G Force</td>
<td>7.34G</td>
<td>6.68G</td>
<td>VST had .1X reduction in Z</td>
</tr>
</tbody>
</table>

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Vibration Testing prepared by the independent lab: **ip Capital Group Strategy Advisor**

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