### Simple Machining Calculations:

To find **RPM**: \( \frac{(SFM \times 3.82)}{\text{diameter of tool}} \)

To find **SFM**:
\[
0.262 \times \text{diameter of tool} \times \text{RPM}
\]

To find **Feed Rate IPM**:
\[
\text{RPM} \times \# \text{ of flutes} \times \text{chip load}
\]

To find **Chip Load**:
\[
\frac{\text{Feed Rate IPM}}{\text{RPM} \times \# \text{ of Flutes}}
\]

To find **Ramp Down**:
\[
\frac{\text{Feed Rate}}{2}
\]

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### Oriented Tool No.

<table>
<thead>
<tr>
<th>Diameter</th>
<th>MDF/HDF</th>
<th>Laminate</th>
<th>Melamine</th>
<th>Veneered Plywood</th>
<th>Wood</th>
<th>Oriented Strand Board (OSB)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>* Feed Rate</td>
<td>Chip Load Per Tooth</td>
<td>* Ramp Down</td>
<td>* Feed Rate</td>
<td>Chip Load Per Tooth</td>
<td>* Ramp Down</td>
</tr>
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<td>.0021&quot;</td>
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</tr>
</tbody>
</table>

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*IPM: Inches Per Minute

Disclaimer: It is important to understand that these values are only recommendations.