

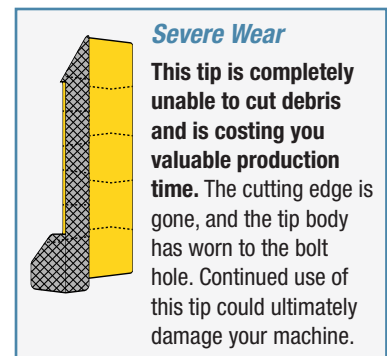
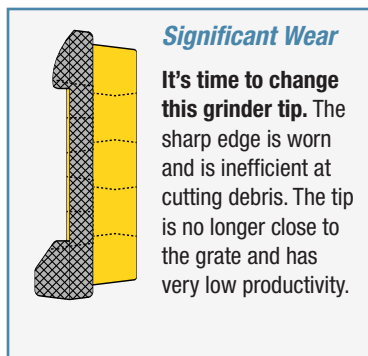
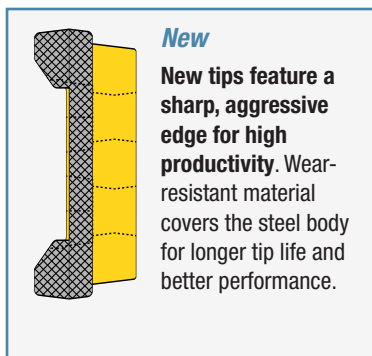
Troubleshooting Guidelines

Replace Worn Tips on Time for Best Performance

It's important to replace worn grinder tips at the right stage of wear. Dull, worn tips are inefficient for grinding debris. Severely worn tips are completely ineffective at cutting debris and cost you money in lost production time, reduced productivity, fuel consumption, and machine wear and tear. Keep your grinder tips in good working condition to get the highest level of productivity for your investment.

Time for a Change?

Compare your grinder tips to these examples.



Know What's Causing Wear...

Consider Impact vs. Abrasion When Choosing Tips

Some grinder tips are better at resisting abrasive wear and some are better for impact-related wear. To determine whether impact or abrasion is wearing away your grinder tips, first consider the type of material being ground – some are naturally more abrasive (asphalt shingles) and others are more impact-oriented (hardwood).

Next consider the type and amount of “tramp material” (foreign objects or matter) involved. Varying amounts of tramp material will cause varying degrees of wear. Abrasive wear is caused by sand, dirt, or other small aggregate particles. Impact-related failure is primarily caused by larger objects such as rocks and metal. One baseball-sized piece of steel can, and usually does, cause severe damage to tips, but a small amount of sand or dirt may go relatively unnoticed.

Common Materials Related to Impact Wear

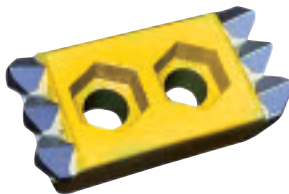
- Rocks – stumps often contain rocks. Size, frequency, and type determine severity.
- Metal – size, frequency, and type will determine severity.
- Wood – certain woods are much harder than others.

Common Materials Related to Abrasive Wear

- Sand – very abrasive even in small quantities.
- Leaves – wet leaves, even more than dry.
- Dirt – stumps contain varying amounts of dirt depending on how they are handled.
- Water – wet material may move through the mill slower.
- Asphalt shingles – small aggregate particles within are very abrasive.

We'll Help You Get It Done Right!

- Kennametal specializes in offering solutions to fit your individual grinding applications. For assistance in selecting a tip that best suits your needs, see page 31 for additional ordering information, or contact a Kennametal representative at 800/458-3608 to discuss your particular application.



Let Us Prove It! 800/458-3608