

# **CUTTING TOOTH MAINTENANCE**

**FORESTRY BRUSH CUTTER**

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# CUTTING TOOTH MAINTENANCE

## FORESTRY TEETH MAINTENANCE - FAQs

Proper sharpening and maintenance of Diamond's Forestry Mulcher teeth is critical for optimal performance. Operating with dull teeth can result in broken components, greater fuel consumption, and reduce productivity.

### HOW OFTEN SHOULD TEETH BE MAINTAINED?

Time frames vary based on the type of material being cut, and how often the teeth contact the ground. The more often the teeth are in contact with dirt, sand, or rocks, the faster they will wear.

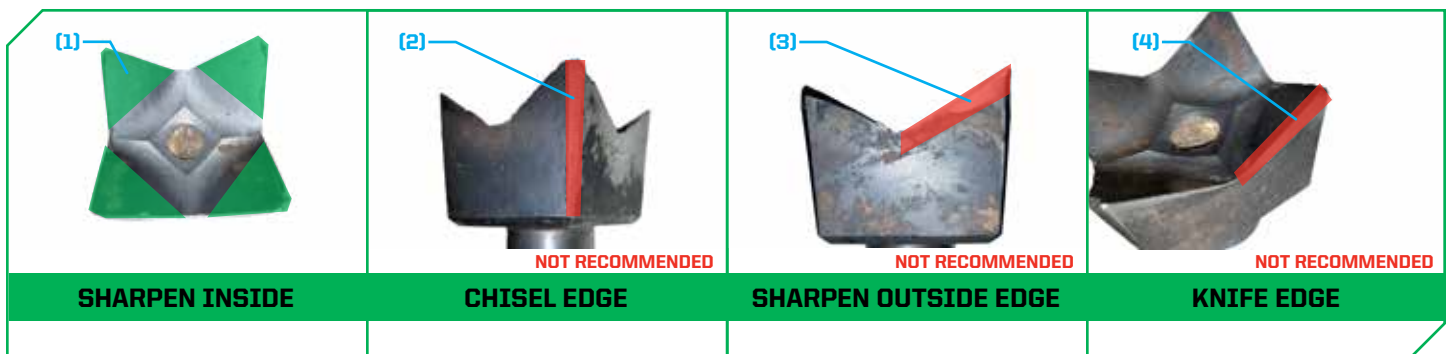
- A daily maintenance schedule is recommended, which includes: inspection, sharpening, rotating, and replacement of teeth.
  - Inspect for teeth that are loose, broken, or dull.

### HOW SHOULD TEETH BE SHARPENED?

When a tooth no longer contains a sharp edge, it's time to sharpen.

- Use an electric or air angle grinder and a 60-grit flap wheel.
  - Using a flap style wheel minimizes excessive wear on the tooth. Excessive wear results in the loss of the tooth's hardened surface, which will cause the tooth to wear out prematurely.
- Sharpen the front inside surfaces<sup>(1)</sup> of the tooth.
  - **DO NOT** re-grind the flat chisel edge<sup>(2)</sup>, sharpen the outside edge<sup>(3)</sup> of the tooth, or create a knife-edge<sup>(4)</sup> or you will reduce cutting efficiencies.

The tooth should no longer be sharpened when the cutting points are worn down to the diameter of a pencil eraser.



### WHEN SHOULD THE TEETH BE ROTATED WITHIN THE HOLDER?

Two of the points do not experience any wear due to their placement against the disc. When the outside points of the tooth can no longer be sharpened, it should be rotated 180° within its holder.

- This rotation will expose the unused points and allow more life from the tooth.
- Whenever removing and reinstalling a tooth, always torque the bolt to 120ft-lbs (163Nm) and re-check tightness after (8) hours of use.

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### FORESTRY TEETH MAINTENANCE - FAQs (continued)

#### WHEN SHOULD THE TEETH BE ROTATED ON THE DISC?

Depending on the application and the type of mulching, the position of the sharpest teeth will matter.

- When mulching primarily with the “**Cut and Feed**” technique - the teeth on the topside of the disc should be sharp and new.
- When mulching primarily with the “**Vertical Mulch**” technique - the teeth on the bottom side should be sharp.
  - **NOTE:** The operating techniques listed above can be referenced in the Operator’s Manual.
- Because teeth located on the bottom of the disc are most likely to contact the ground or rocks and wear faster, it’s recommended to install new teeth on the top:
  - Move teeth from the top to the perimeter of the disc
    - Move the more worn teeth to the bottom of the disc to maximize tooth life and reduce replacement costs.

#### WHEN SHOULD THE TEETH BE REPLACED?

Teeth are a wear item and will need to be replaced. Heavy users on average wear one tooth per day.

- Always replace teeth in pairs with the tooth directly opposite of it on the disc to maintain the balance across the disc.
  - Always torque the tooth holding bolt to 120ft-lbs (163Nm) whenever a new tooth is installed.

**For questions, contact Diamond Mowers’ Customer Service Department at 888-960-0364**