

# 5 Steps Help you Choose and Replace Bucket Teeth Correctly

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Bucket teeth is one of the most easily worn parts in the whole excavator equipment. Its shape is like a human tooth, which is composed of tooth base and the tooth tip, and the tooth tip is the most vulnerable part to failure. The quality of bucket teeth directly affects the working efficiency and production cost of excavator.

Therefore, choose the right bucket teeth of excavator is helpful to prolong the service life of the machine, reduce the maintenance cost, and make the most of the excavator. In this article, you will learn how to choose right bucket teeth and replace the worn bucket teeth yourself by following simple steps.



## 1. Identify your Bucket Teeth Types

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According to different applications, the common bucket teeth on the market are divided into three types:

- **1. Chisel Tooth:** Chisel tooth is a kind of bucket tooth which is used to excavate soil, sand and gravel in sand and soil terrain. Generally, the chisel teeth are matched with the bucket with a large bucket mouth area, which has a large stacking surface, so it has a high filling coefficient and saves operation time.
- **2. Rock Tooth:** Rock tooth is usually suitable for the digging of iron ore, stone and other environments. It is made of heavy working strength wear-resistant steel, with better digging performance and outstanding economic effect.

- 3. **Tiger Tooth:** Tiger tooth is mainly used for penetrating rock stratum with low hardness. Tiger teeth have great impact force and are widely used in coal mining.

Teeth Type	Wear Life	Impact	Penetration	Sand	Fine Sand	Clay Mud	Pebble	Gravel	
Chisel Tooth	Medium	Midum	Midum	√					
Rock Tooth	High	Low	Midum		×	×	√	√	
Tiger Tooth	Low	High	High		√	√	×	×	



## 2. Identify your Bucket Tooth Installation Style

Common installation include side pin installation style and top pin installation style.



**Top Pin:** Top pin style refers to the vertical installation of the pin and digger bucket tooth, with large operation space and convenient disassembly, and the pin is smashed directly from above.

When digging, the top pins will be subjected to the front extrusion pressure of materials, and if the digging force is large and the retainer can not meet the requirements, it is easy to cause the tooth pin to fall off, so this style is generally used in the digging machine with lower tonnage.

**Side Pin:** Side pin style refers to the horizontal installation of the pin. The side operation space is small and it is not very convenient to disassemble, so special long rod tools must be used in order to disassemble and assemble.

more than 20 tons of excavators. However, if the retainer is subjected to a large reciprocating lateral force in use, it is easy to wear and fail, resulting in the tooth pin falling off.

### 3. Identify your Bucket Teeth Quality

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Bucket teeth quality is greatly affected by the different processing methods, Common product tech include: forging cast, precision cast and sand cast.

**Forged Teeth:** forged teeth are the highest cost and the best quality of bucket teeth.

Key Tips: If the excavator is used for earthwork projects, the frequency and demand of replacing bucket teeth are smaller, so it is recommended to select forged bucket teeth. Although the teeth price is much higher, the service life, manufacturing process and quality are all the best.

**Precision Cast Teeth:** cast teeth price is moderate, but the requirements for raw materials are very strict, and the technological level is relatively higher. The wear resistance and quality of some precision cast teeth are even higher than those of forged teeth due to ingredient.

At present, precision cast teeth is the mainstream manufacturing technology in the market.

Key Tips: If there is a great demand for bucket teeth, precision casting bucket teeth are an ideal choice, because precision casting bucket teeth have advantages in terms of price, quality, performance-to-price ratio and wear resistance.

**Sand Cast Teeth:** sand casting bucket teeth price is the lowest, and the technological level and quality of sand casting bucket teeth are not as good as those of precision cast teeth and forged teeth.

### 4. Identify your Bucket Teeth Size

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You can buy bucket teeth that matching the excavator sizes or just choose general-purpose teeth.

If you do not know the specific model of the excavator, the pin and retainer sizes, or you can measure the teeth pocket size, it's also a good method.



## 5. Replace your Worn Bucket Teeth

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The following will introduce 5 steps to help you replace the bucket teeth of your excavators or loaders, by which you will learn how to replace the worn bucket teeth all by yourself.

- 1. Adjust the excavator bucket to a right position to ensure safety and stability (prevent the bucket teeth from hitting your legs or feet).
- 2. Use the pin removal tool to remove worn teeth by hammering the keener-pin out from the side with retainer.
- 3. Remove stains from the adapter with a wire brush or other cleaning tool. Replace the adapter if it's worn.
- 4. Place the new teeth and retainer in the original position of the adapter, insert the pin into the adapter and retainer, and hammer it in with a sledgehammer, making sure the pin is fully inserted.
- 5. Complete the replacement of one tooth, you will be able to install all the teeth of your loader or excavator sucessfully by repeating the above steps yourself without professional assistance.