

PARTS & SERVICE NEWS

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SUBJECT: OPTIONAL BUCKET TOOTH TIPS

PURPOSE: To introduce new sharp tooth tips for limestone and soft rock as well as the wide and semi-long life tooth tips for general rock.

APPLICATION: WA600 (with strong bucket), WA700 and WA800 Wheel Loaders

DESCRIPTION:

1. Introduction

New sharp tooth tips for limestone and soft rock as well as new wide and semi-long life tooth tips are introduced herein. These are in addition to the already introduced other optional tooth tips. Their usages and features are also indicated as reference data to allow appropriate selection.

2. Part Nos. of all optional bucket tooth tips

Classification	For general rock				For soft rock	For Limestone	
	Long-life	Wide	Semi-long life	Sharp	Sharp	Long-life	Sharp
Tooth tip	427-70-13780	427-70-13810	427-70-13770	427-70-13731	427-842-1210	427-842-1111	427-842-1120
Pin	427-70-13790	427-70-13790	427-70-13790	427-70-13770	427-70-13790	427-70-13790	427-70-13790
Q'ty/machine	8 (WA600 with strong bucket under the stone crushing section) Sharp tip for general rock 8 (WA700) Sharp tip for general rock 10 (WA800) Long life tip for general rock						

❖ **Precautions:** (Use of tooth pins)

Tooth retaining pins should be driven into place to prevent their loosening. They should not be coated with grease, etc.

When driving a pin into place, it may sometimes break a spring. To prevent future problems, be sure to check the pins for proper positioning soon after initial operation.

Further, pins should be replaced with new ones within 3000 service hours because of their failure due to metal fatigue.

Shapes and features of the optional bucket tooth tips

Classification	For General rock				For Soft rock	For Limestone		
	Long life	Wide	Semi-Long life	Sharp	Sharp	Long Life	Sharp	
Part No.	427-70-13780	427-70-13810	427-70-13820	427-70-13731	427-842-1210	427-842-1111	427-842-1120	
Shape								
Painting	Painted in yellow				Paint in black	Painted in white		
Weight	45 kg	46 kg	35 kg	27 kg	35 kg	45 kg	35 kg	
Features & cautions in selection of tooth tips	<p>Standard materials to be handled whose hardness is high or the silica (SiO₂) content is high. In case of sandstone, etc. the life of these tips is determined by the wear.</p> <ul style="list-style-type: none"> * Use with igneous rocks such as andesite, basalt, etc. and conglomerate, sandstone, etc. * Use in dam construction or in general engineering 				<p>Materials to be handled are relatively brittle. In the tooth tips for general rock, heat check is encountered. These tooth tips for limestone have reduced hardness. Applicable materials to be handled are andesite soft in rock quality and limestone mixed with silica (SiO₂), etc.</p>		<p>Materials to be handled are mudstone, etc. low in the hardness or in the silica (SiO₂) content. In such materials, the tooth wearing rate is low and tooth life is determined by breakage due to heat check. That is, limestone, shale, mudstone low in the contents of dolomite, silica, etc.</p> <p>✘ Heat Check When the soft material like the limestone, etc. is dug up, such minute cracks as caused by the heating in the excavation result in the breakage, instead of wear.</p>	
	Quality of rock (materials) to be handled	Long life	Wide	Semi-Long life	Sharp	Sharp	Long Life	Sharp
Shape	Thick wall type - with large wear allowance. Applicable materials to be handled are relatively small and loose in the grain size and also in material size.	When compared with the long-life tooth tips, this wide type is large in width and the bottom thickness is increased. Applicable materials to be handled are relatively small and loose in grain size as well as in material size.	This tooth tip is excellent for penetration and its wear resistance is position between the sharp and the long-life tooth tips. Applicable works is excavation including pit excavation.	The sharp type is also excellent for penetration. Applicable materials to be handled are relatively large in grain size as well as in material size. Applicable work is excavation including large mass handling and pit excavation.	Sharp type Applicable materials to be handled are relatively large in the grain size as well as in the material size. Applicable works is excavation including large mass handling and pit excavation.	Thick wall type Applicable materials to be handled are relatively low in hardness and loose in grain size as well as in material size.	Sharp type Applicable materials to be handled are low in hardness but large in grain size as well as in material size. Applicable work is excavation including large mass handling and pit excavation	

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