

1. Development of "Slot-Star" -Slot-Drill of Two Set Type-

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The Slot-drill of two set type called a "Slot-Star" was developed for the purpose of cost cut and an expansion of SD-method. This drill was converted on the basis of the conventional Slot-drill of four set type. Therefore, it can be mounted on a small construction machine. With the conventional Slot-drill, SD-method was hard to be adopted as the small-area tunnel and small-scale of SD-method. SD-method can be adopted as these construction. It was adopted as three construction by development of this Slot-drill. Performance check investigation of this drill was carried out at these construction. And machine capability and the accuracy of the Slot-shape have confirmed that it was more than equivalent compared with the capability of the conventional Slot-drill.

This report describes the result of the machine performance obtained by the outline of a drill, and performance check investigation.

Key words : low vibration blasting method, hard rock blasting, digging without using blasting, trenching of free surfaces