

## **The Study of the Side-shift Cultivator for Orchard**

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### **Abstract**

The purpose of this study on the side-shift cultivator is to enhance mechanized work of pulverizing and weeding in orchard. The cultivator uses 16 HP diesel engine, four-wheel drive and four-wheel steer. The shift speed has forward 6 speed and backward 2 speed, and the maximum speed is 15 km/hr. The cultivator part which is 60 centimeter in width and is set in the front part of the framer which can be manually operated by hydraulic pressure so as to control the depth of pulverizing and the distance of shifting. The cultivator can shift the cultivator part by 80 centimeters from tire to perform pulverizing and weeding work under the canopy at orchard.

**Key words:** Orchard, Cultivator, Side-shift.

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