

Application Rotary sensor in Backhoe

A backhoe also called rear actor or back actor - is a type of excavating equipment, or digger, consisting of a digging bucket on the end of a two-part articulated arm. It is typically mounted on the back of a tractor or front loader, the latter forming a 'backhoe loader

The backhoe is also popular simply because of its amazing capacities. The backhoe loader has a huge amount of power. Its backhoe can dig with 15,200 pounds (67.6 kN) of force and can reach more than 25.9 feet (7.9 meters) away.

Operation :

1. Digging action result from the drag or pull of bucket towards the machine.
2. **The boom is set at desired angle using Rotary Sensor.**
3. The hoist cable is pulled in and the drag cable is released thus moving the bucket to required position.
4. By pulling the cable the bucket is filled.
5. The bucket is lifted by raising the boom and then swinging to dumping position.

Rotary sensor is used to control angular position of bucket & arm of backhoe.

