

Gradall Forklift Part

Gradall Forklift Parts - During the time when World War II created a shortage of workers, the well-known Gradall excavator was born in the 1940s as the brainchild of two brothers Koop and Ray Ferwerda. The brothers faced the problems of a depleted labor force because of the war. As partners in their Cleveland, Ohio construction company known as Ferwerda-Werba-Ferwerda they lacked the existing workers to do the delicate tasks of grading and finishing on their highway projects. The Ferwerda brothers opted to build an equipment that would save their company by making the slope grading job easier, more efficient and less manual.

The first excavator prototype consisted of a machine with two industrial beams on a rotating platform fixed to a used truck. There was a telescopic cylinder which was used to move the beams backward and forward. This allowed the fixed blade at the far end of the beams to pull or push the dirt. Shortly enhancing the initial design, the brothers made a triangular boom so as to add more strength. Moreover, they added a tilt cylinder that let the boom turn 45 degrees in both directions. A cylinder was positioned at the rear of the boom, powering a long push rod to enable the machine to be outfitted with either a bucket or a blade attachment.

Gradall introduced in the year 1992, with the introduction of the new XL Series hydraulics, the most innovative adjustment in their machinery since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to provide comparable power and high productivity to the more conventional excavators. The XL Series put an end to the first Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems effectively handled finishing work and grading but had a difficult time competing for high productivity work.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These models were made with a piston pump, high-pressure hydraulics system which showed huge improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed with a load-sensing capability. Conventional excavators use an operator to pick a working-mode; where the Gradall system can automatically adjust the hydraulic power intended for the work at hand. This makes the operator's general task easier and even saves fuel at the same time.

Once the new XL Series hydraulics became available in the market, Gradall was thrust into the extremely competitive industrial equipment market that are meant to deal with pavement removal, excavating, demolition and different industrial jobs. The introduction of the new telescoping boom helped to further enhance the excavator's marketability. The telescoping boom gives the excavator the ability to work in low overhead areas and to better position attachments.