

Gradall Forklift Parts

Gradall Forklift Part - Through the period when World War II created a scarcity of laborers, the well-known Gradall excavator was founded in the 1940s as the brainchild of two brothers Ray and Koop Ferwerda. Partners in a Cleveland, Brownsville construction company referred to as Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when numerous men left the labor force and signed up in the military, depleting available workers for the delicate finishing work and grading on highway projects. The Ferwerda brothers decided to make a machine that will save their company by making the slope grading job more efficient, less manual and easier.

Their first design model was a machine with two beams set on a rotating platform which was affixed on top of a used truck. A telescopic cylinder moved the beams forward and backward which enabled the fixed blade at the end of the beams to pull or push dirt. Soon improving the very first design, the brothers built a triangular boom so as to add more strength. In addition, they added a tilt cylinder which let the boom rotate 45 degrees in either direction. A cylinder was positioned at the back of the boom, powering a long push rod to allow the machine to be outfitted with either a bucket or a blade attachment.

1992 marked a significant year for Gradall with their introduction of XL Series hydraulics, the most dramatic change in the company's excavators ever since their invention. These top-of-the-line hydraulics systems enabled Gradall excavators to deliver high productivity and comparable power on a realistic level to conventional excavators. The XL Series put an end to the first Gradall equipment power drawn from low pressure hydraulics and gear pumps. These conventional systems efficiently handled grading and finishing work but had a difficult time competing for high productivity jobs.

Gradall's new XL Series excavators showed more ability to lift and dig materials. With this series, the models were made along with a piston pump, high-pressure system of hydraulics which showed marked improvement in boom and bucket breakout forces. The XL Series hydraulics system was also developed with a load-sensing capability. Traditional excavators utilize an operator so as to choose a working-mode; where the Gradall system could automatically adjust the hydraulic power for the work at hand. This makes the operator's general job easier and even conserves fuel simultaneously.

As soon as the new XL Series hydraulics reached the market, Gradall was thrust into the very competitive industrial machine market that are designed to tackle pavement removal, excavating, demolition and various 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 better position attachments and to work in low overhead areas.