

Gradall Forklift Part

Gradall Forklift Parts - The Gradall excavator was the brainchild of two brothers Ray and Koop Ferwerda. The excavator was established in the 1940's during World War II, when there was a shortage of workers. Partners in a Cleveland, Ohio construction business called Ferwerda-Werba-Ferwerda, the brothers faced a huge predicament when lots of men left the labor force and signed up in the military, depleting existing laborers for the delicate grading and finishing work on highway projects. The Ferwerda brothers opted to build a machine which will save their company by making the slope grading work less manual, easier and more efficient.

Their very first design model was a device with two beams set on a rotating platform which was affixed atop a used truck. A telescopic cylinder moved the beams back and forth that allowed 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 in order to add more strength. As well, they added a tilt cylinder which let the boom rotate 45 degrees in both directions. A cylinder was positioned at the back of the boom, powering a long push rod to enable the machine to be equipped 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 equipment since their creation. This new system of top-of-the-line hydraulics allowed the Gradall excavator to deliver high productivity and comparable power to the more traditional excavators. The XL Series ended the original Gradall equipment power drawn from gear pumps and low pressure hydraulics. These traditional systems effectively handled finishing work and grading but had a hard time competing for high productivity jobs.

The new XL Series Gradall excavators proved a remarkable increase in their lifting and digging ability. These versions were manufactured along with a piston pump, high-pressure hydraulics system that showed great improvements in boom and bucket breakout forces. The XL Series hydraulics system was likewise developed with a load-sensing capability. Traditional excavators make use of an operator to be able to select a working-mode; where the Gradall system could automatically adjust the hydraulic power intended for the job at hand. This makes the operator's overall job easier and likewise saves fuel simultaneously.

When the new XL Series hydraulics became available in the market, Gradall was thrust into the vastly competitive industrial machine market that are designed to deal with pavement removal, excavating, demolition as well as different industrial work. The introduction of the new telescoping boom helped to further improve the excavator's marketability. The telescoping boom gives the excavator the ability to better position attachments and to work in low overhead areas.